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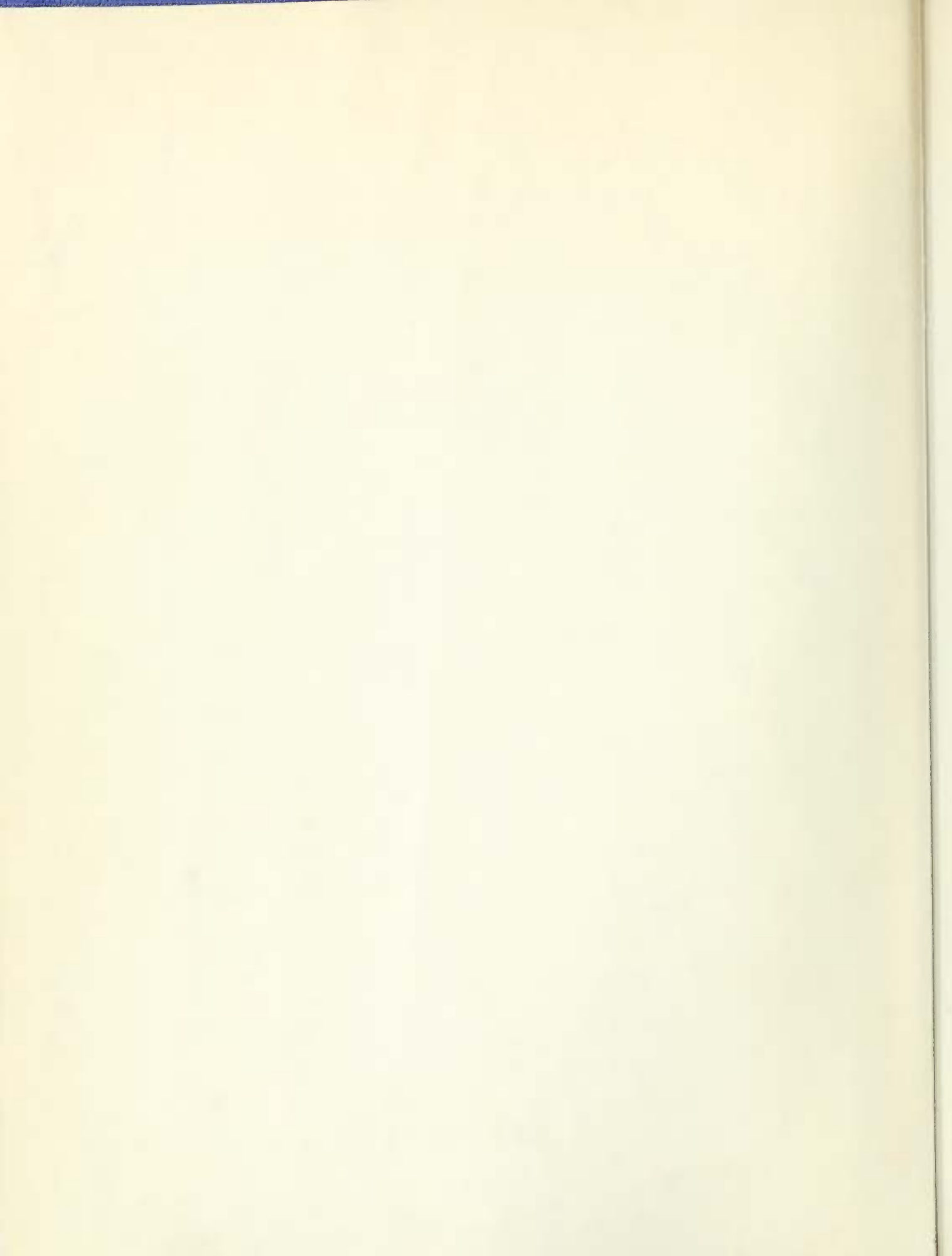


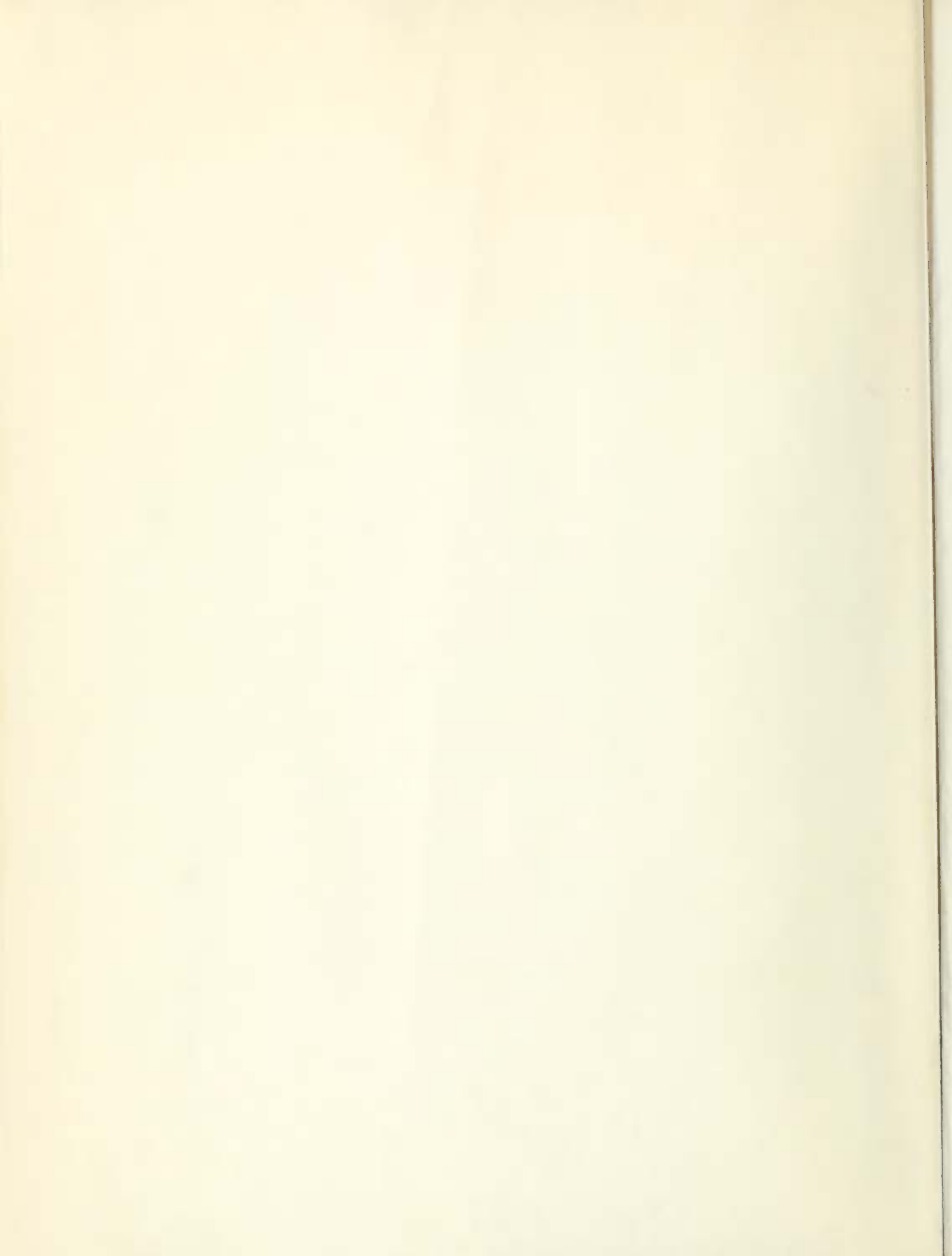




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THE
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OR,
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OF
ARTS, SCIENCES, AND LITERATURE.

PLATES. VOL. I.

AGRICULTURE — ASTRONOMICAL INSTRUMENTS.

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OF THE

ARTS, SCIENCES AND LITERATURE

OF GREAT BRITAIN

AND IRELAND

THE
CYCLOPÆDIA;

OR,

UNIVERSAL DICTIONARY

OF

Arts, Sciences, and Literature.

BY

ABRAHAM REES, D.D. F.R.S. F.L.S. *S. Amer. Soc.*

WITH THE ASSISTANCE OF
EMINENT PROFESSIONAL GENTLEMEN.

ILLUSTRATED WITH NUMEROUS ENGRAVINGS,
BY THE MOST DISTINGUISHED ARTISTS.

PLATES. VOL. I.
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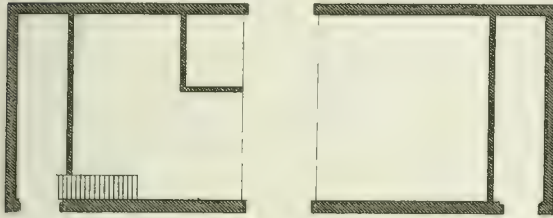
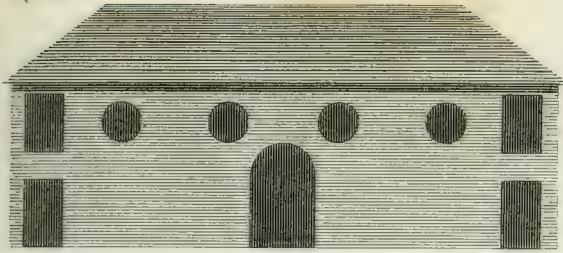
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Fig. 3. Improved Barn.



Common Barn.

Fig. 1.

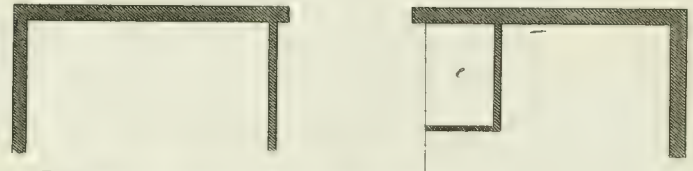
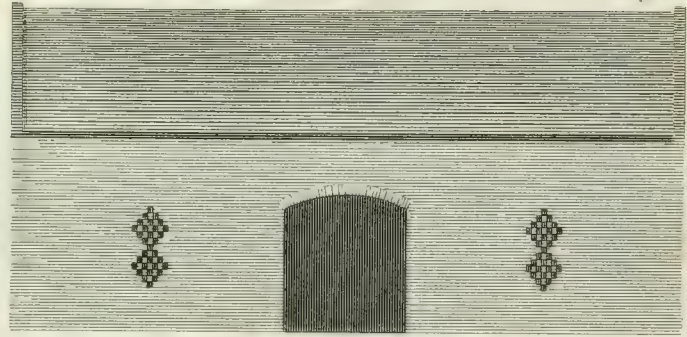
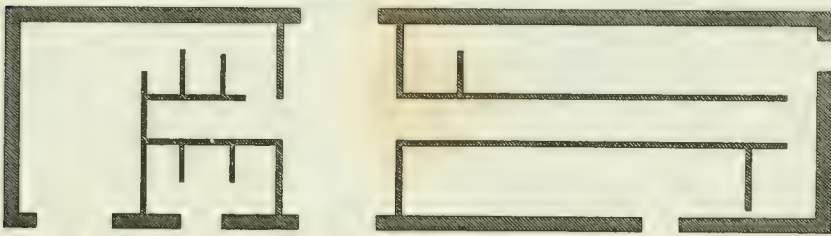
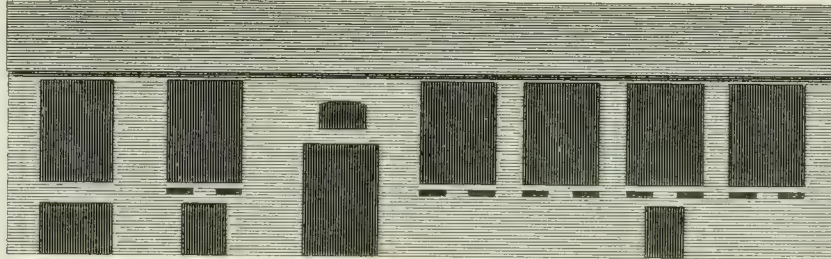


Fig. 4. Open Barn.



Double Barn.

Fig. 2.

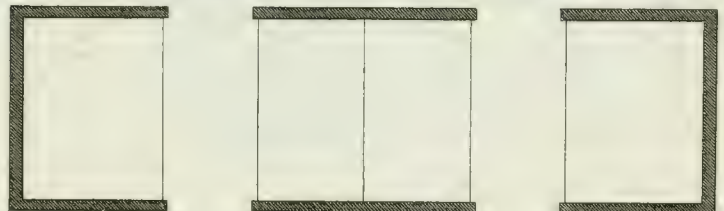
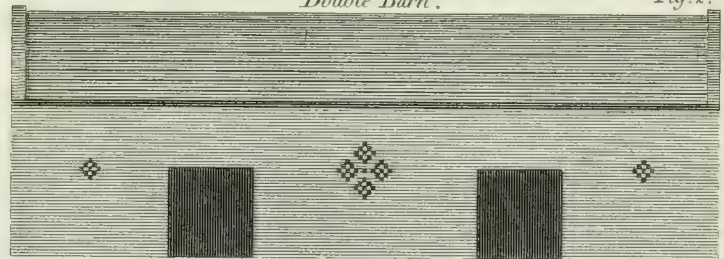
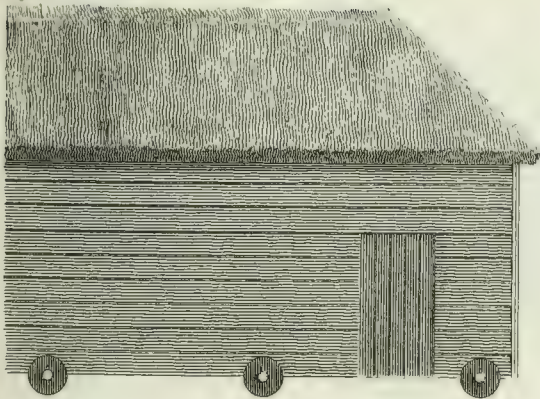


Fig. 5. Dutch moveable Barn.





BARN, AND THRESHING MACHINES.

Fig. 4.

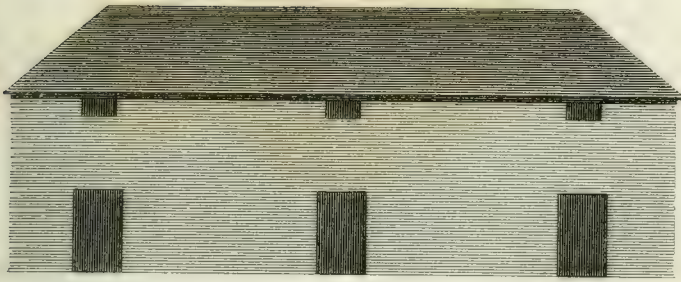


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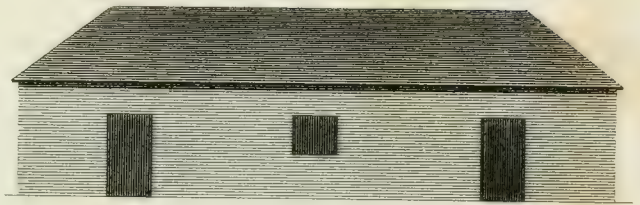


Fig. 5.

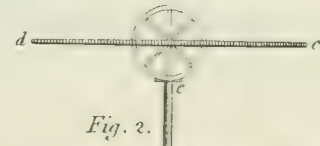
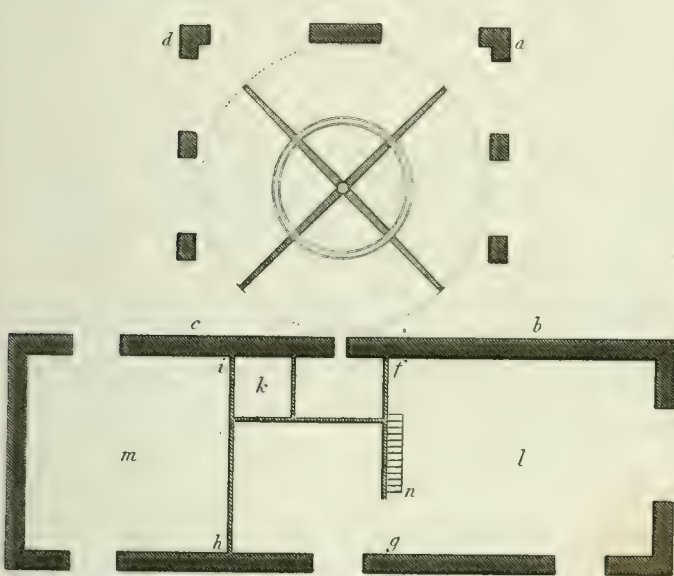


Fig. 2.

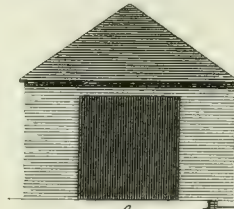
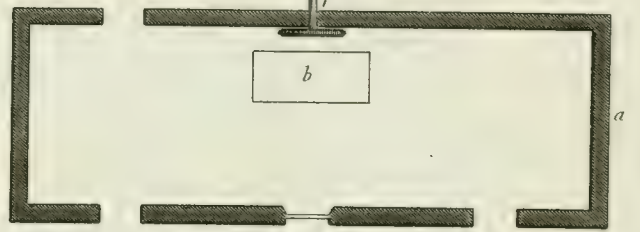


Fig. 3.



Scale for Fig. 1, 2, 3, 4, 5 & 6.

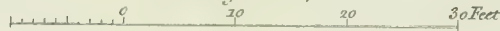


Fig. 6.

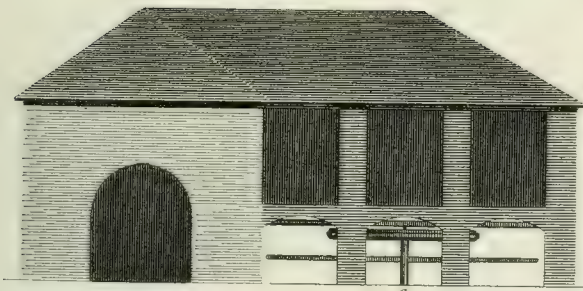
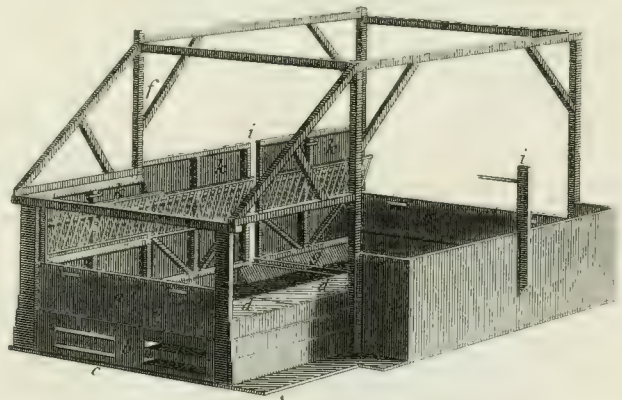


Fig. 7.



Engraved by Wilson Lowry.



CARTS.

Fig. 1.
Blasting Stones.

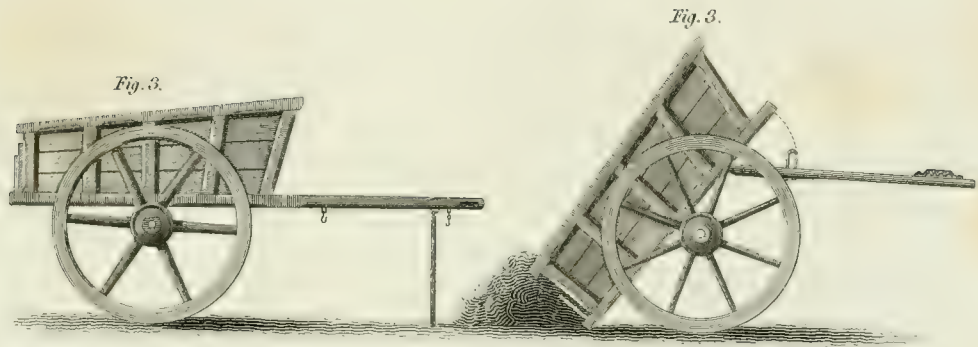
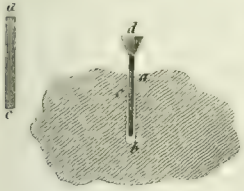


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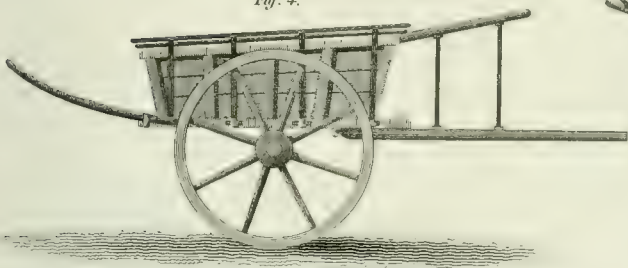


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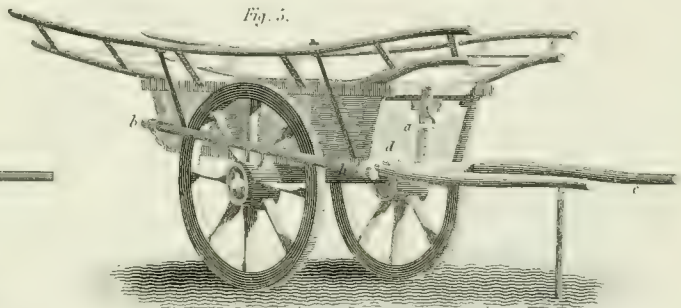


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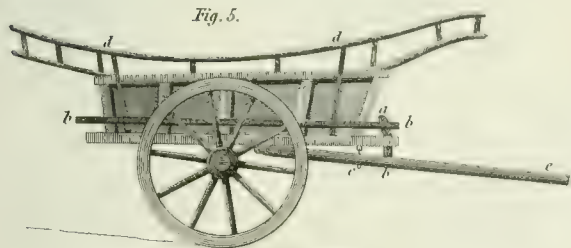


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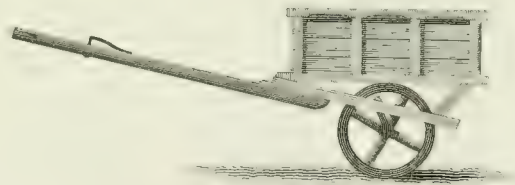


Fig. 8.

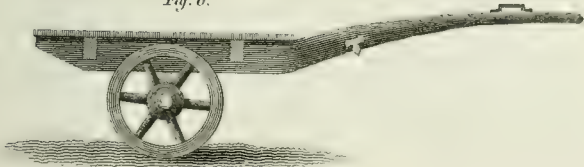
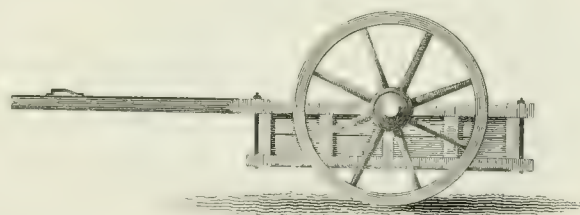
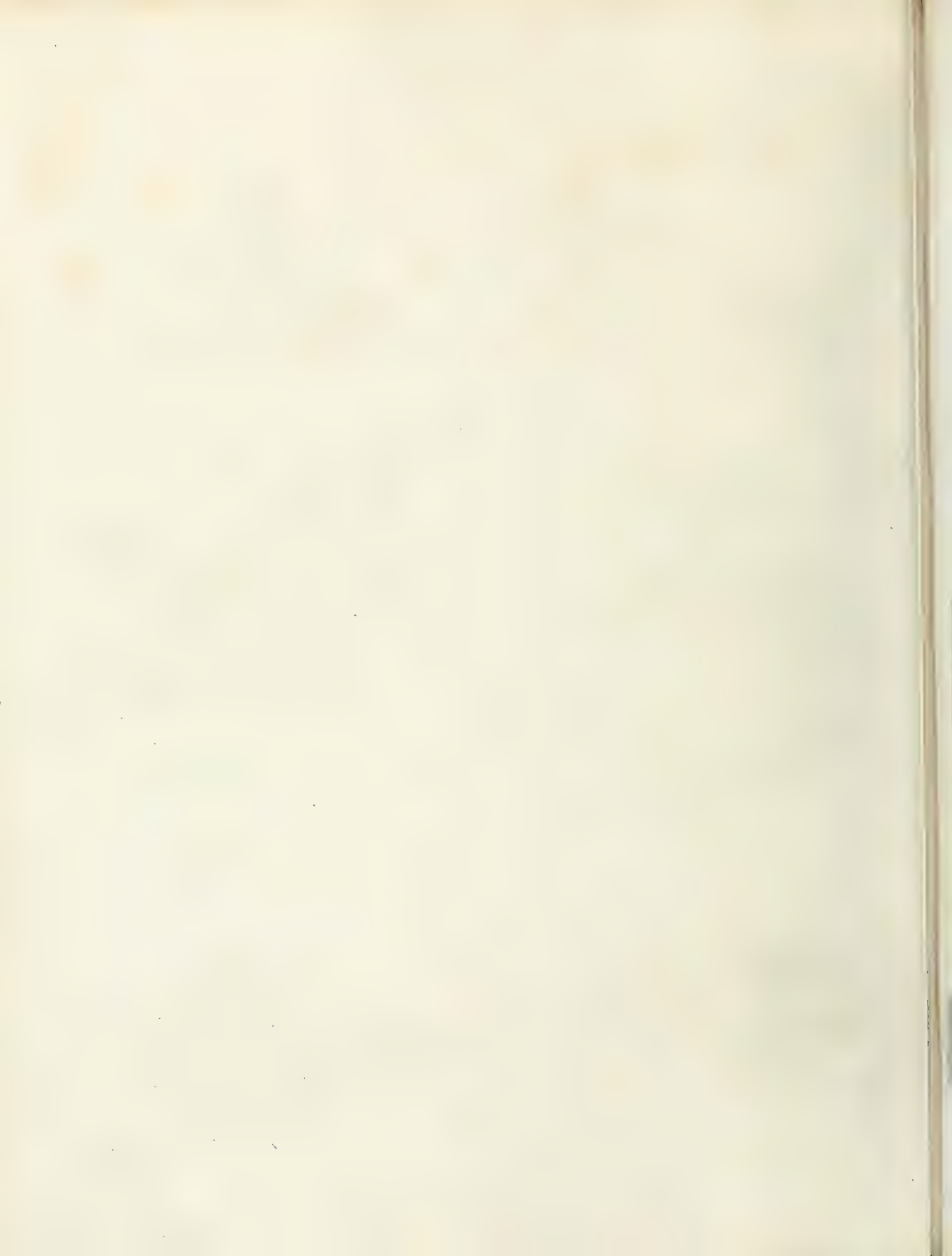


Fig. 9.





CALF PENS, CATTLE SHEDS & FEEDING HOUSES.

Fig. 1.

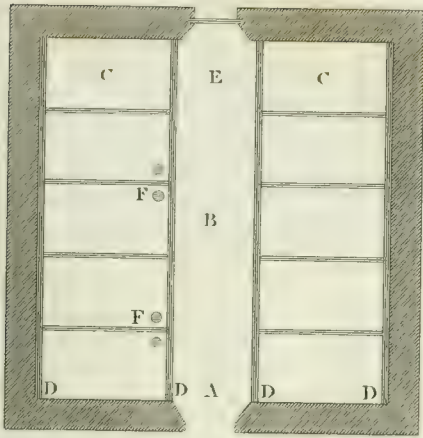
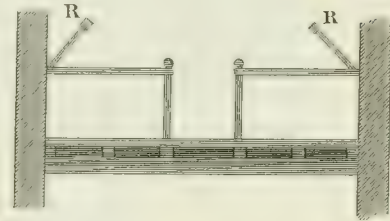
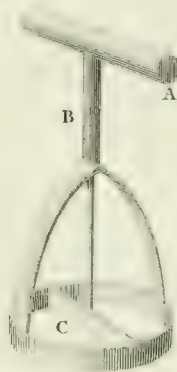


Fig. 2.



CURD CUTTER.



A The Handle made of Wood.
B Stock of Iron. Cutting part made Oval
— and it has 1, 2, or 3, cutting pieces as C.

Fig. 4.

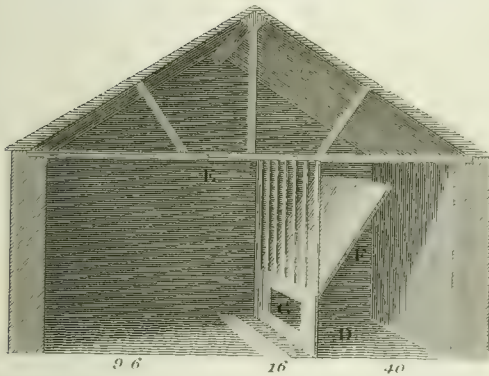


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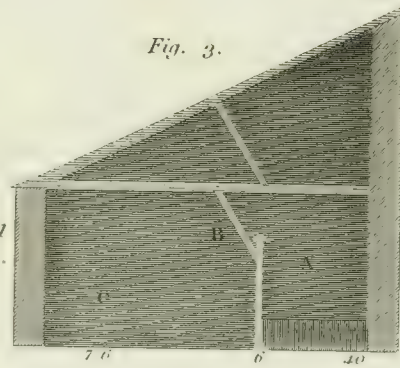


Fig. 5.

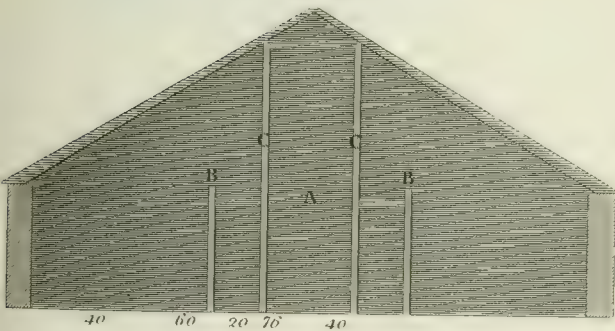
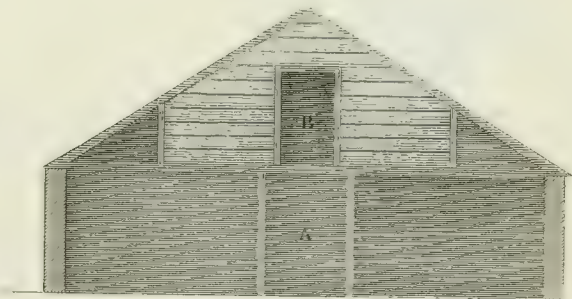
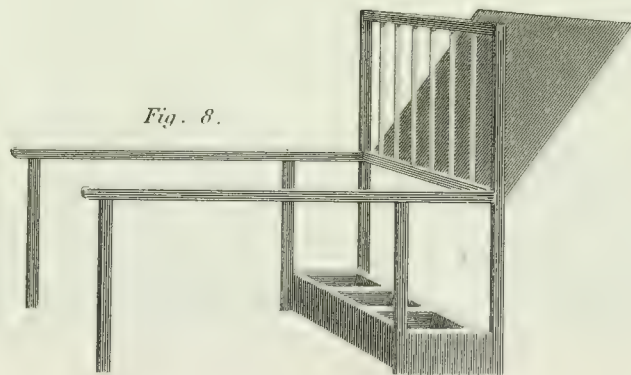
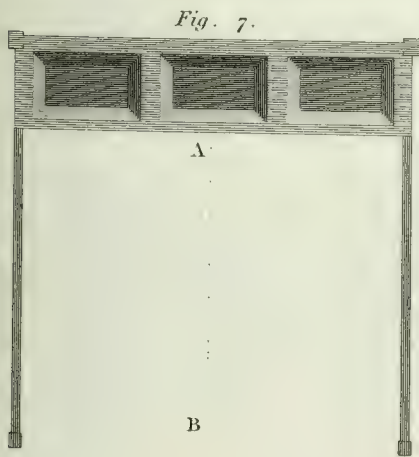
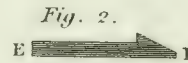
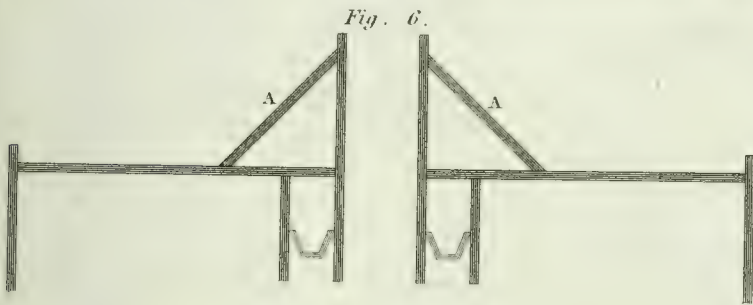
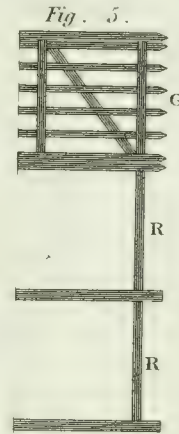
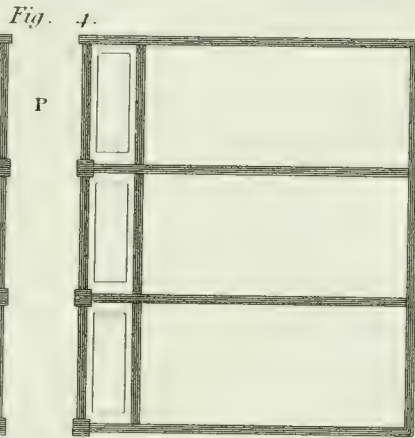
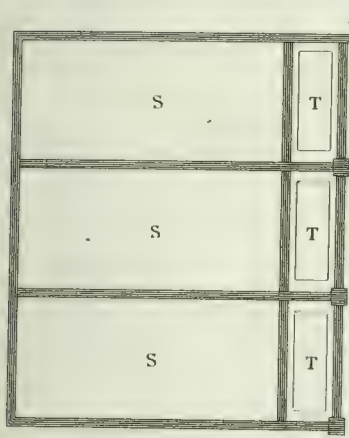
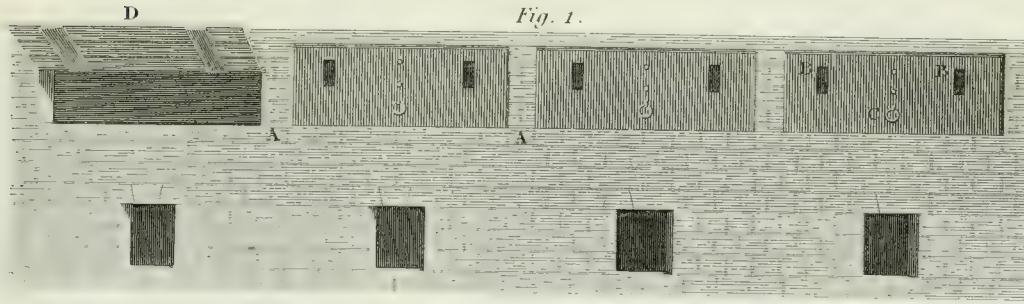


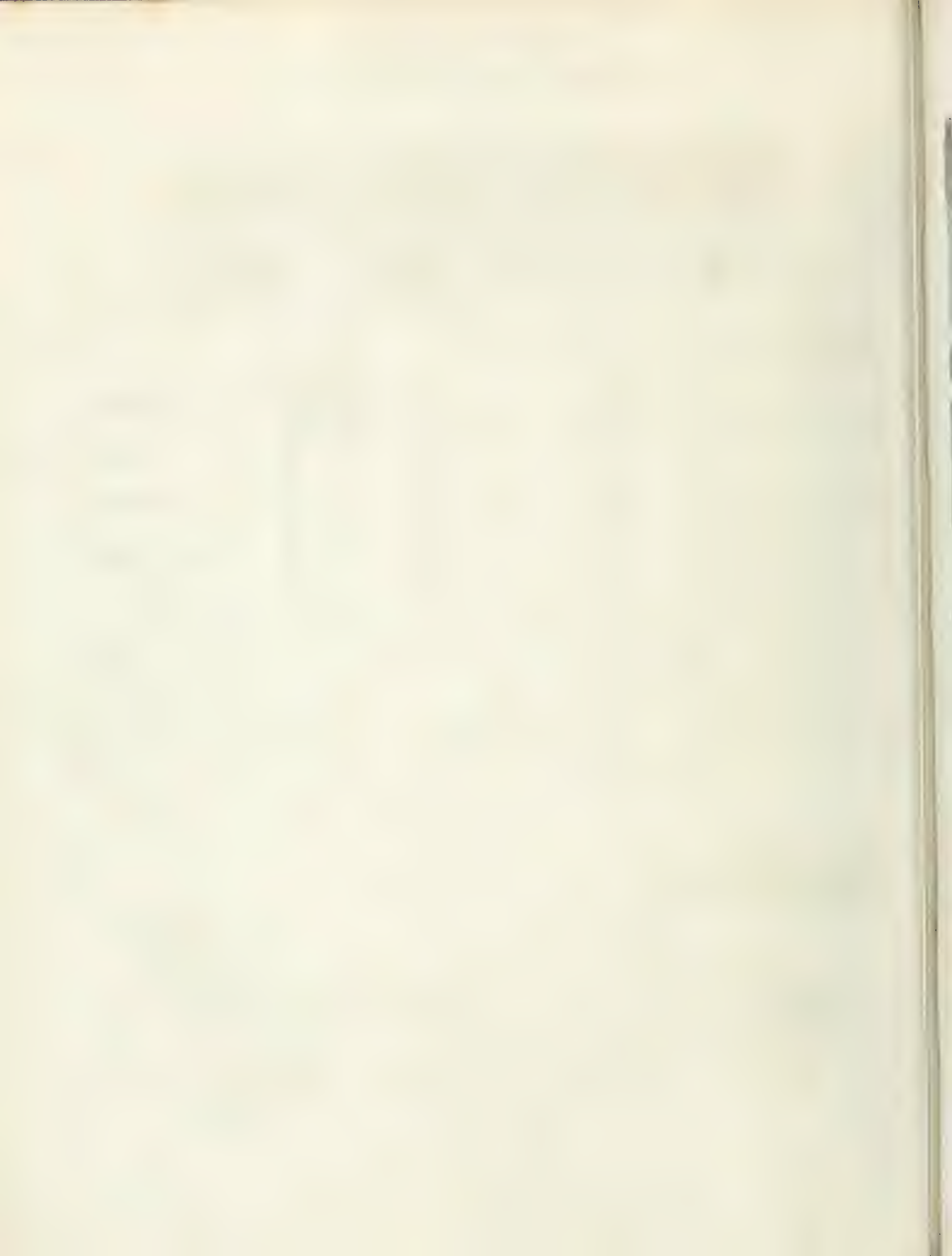
Fig. 6.





INTERNAL PARTS OF CATTLE SHEDS & FEEDING HOUSES.





FARM COTTAGES.

Fig. 1.

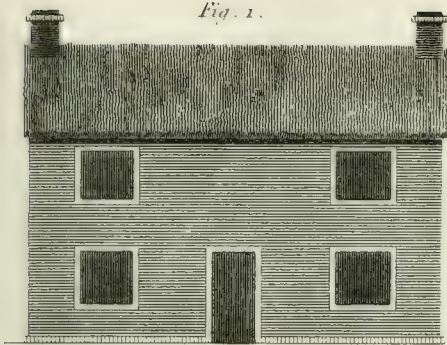


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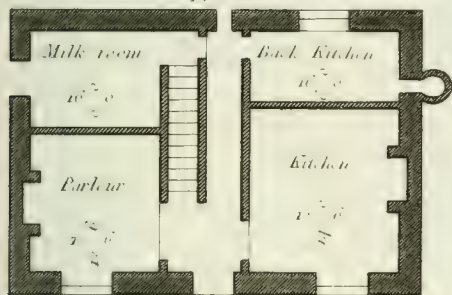


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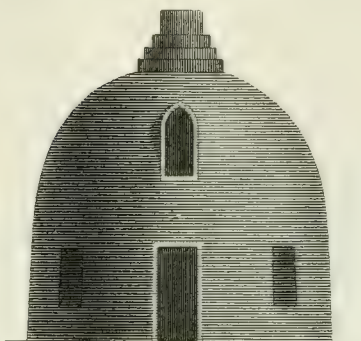


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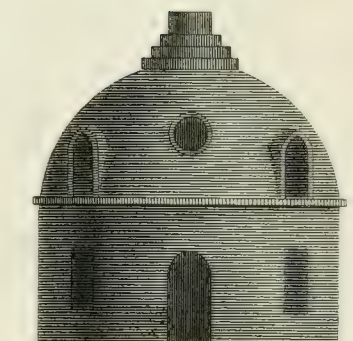


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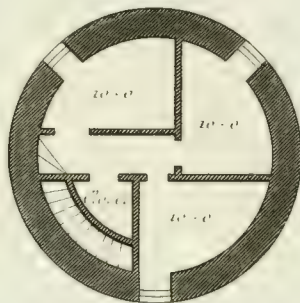


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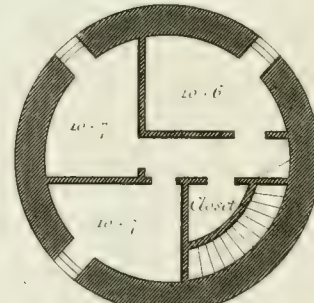


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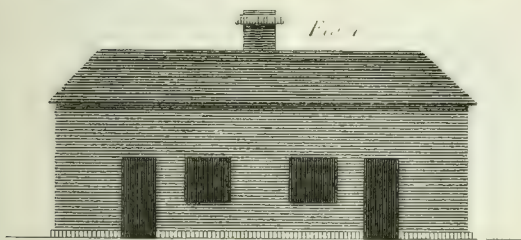


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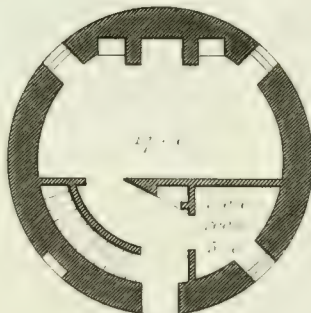


Fig. 9.



Scale of Feet. 0 5 10 15 20

Fig. 10.

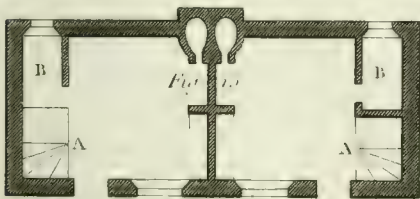


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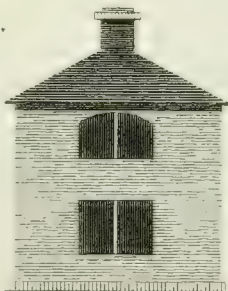


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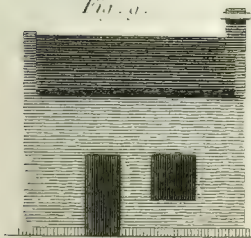


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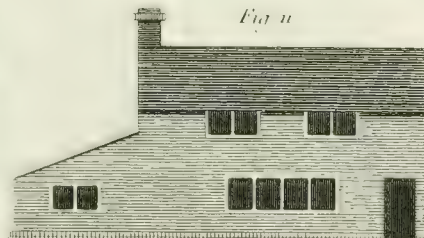


Fig. 14.





ORNAMENTAL COTTAGES.

Fig. 3.

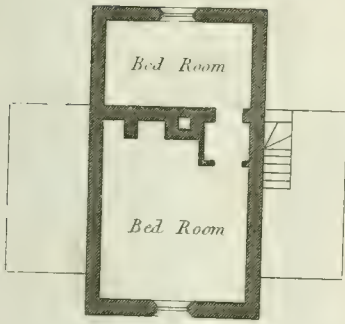


Fig. 1.



Fig. 2.

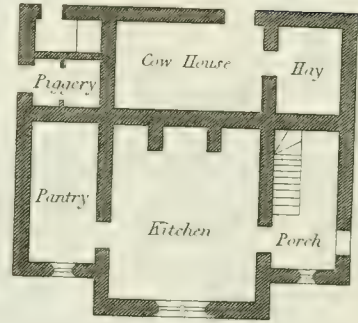


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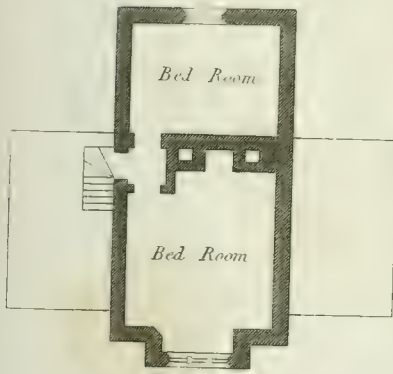


Fig. 4.



Fig. 5.

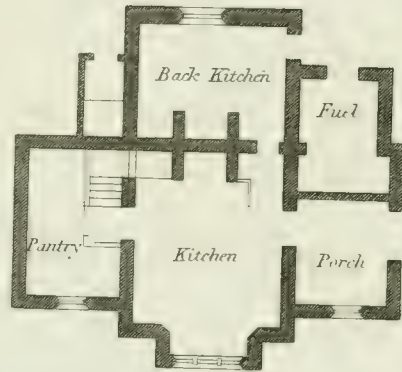


Fig. 7.



Fig. 8.

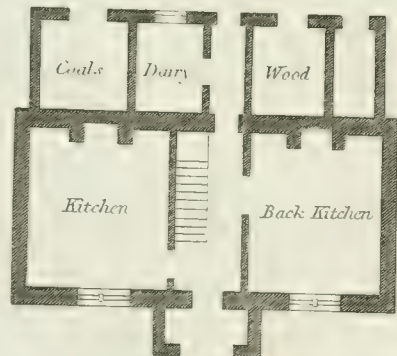
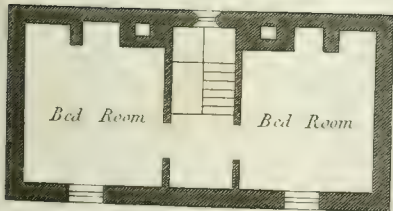
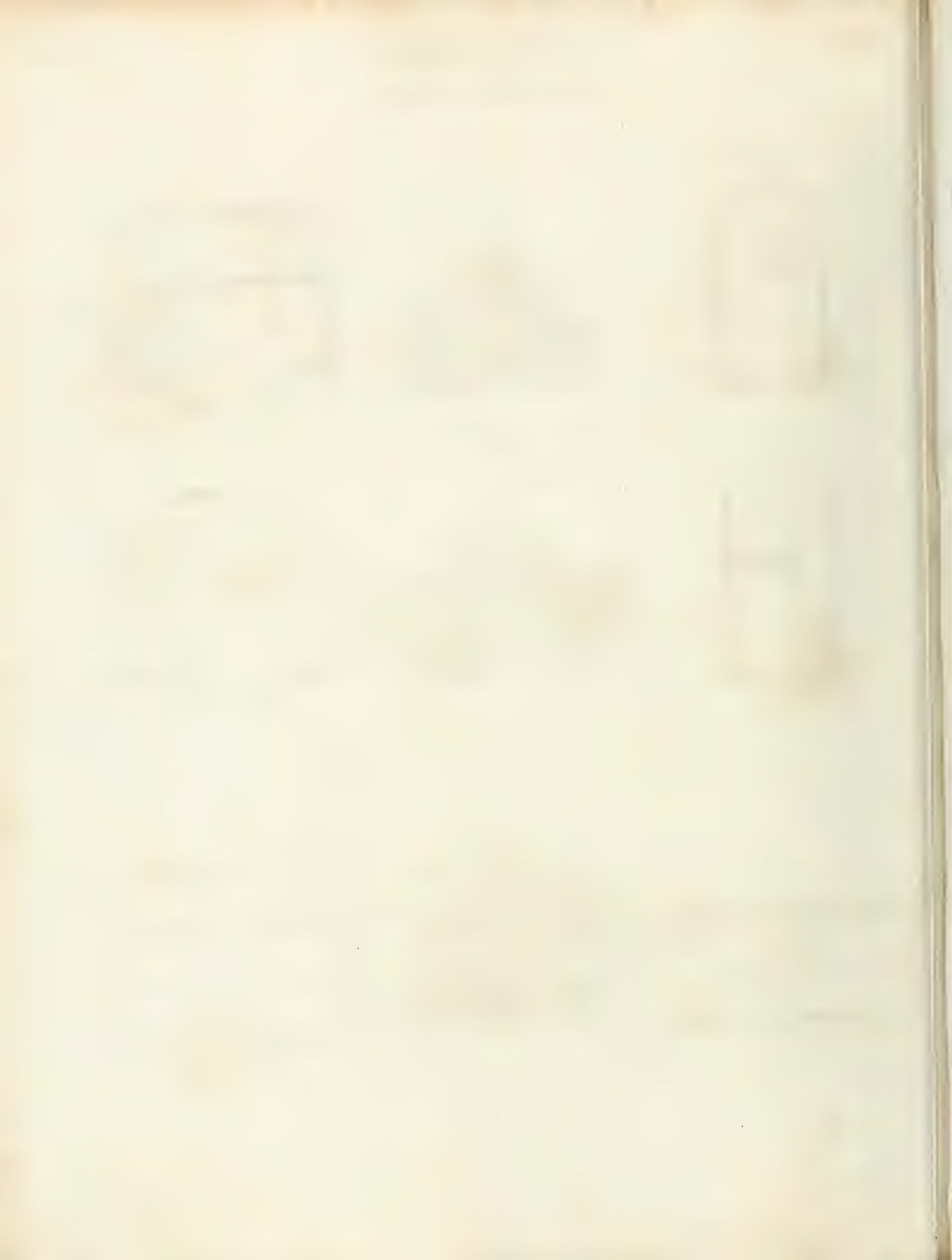
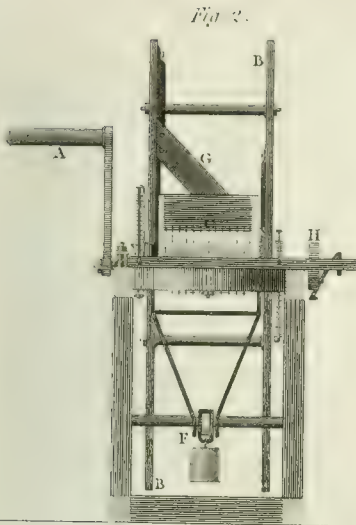


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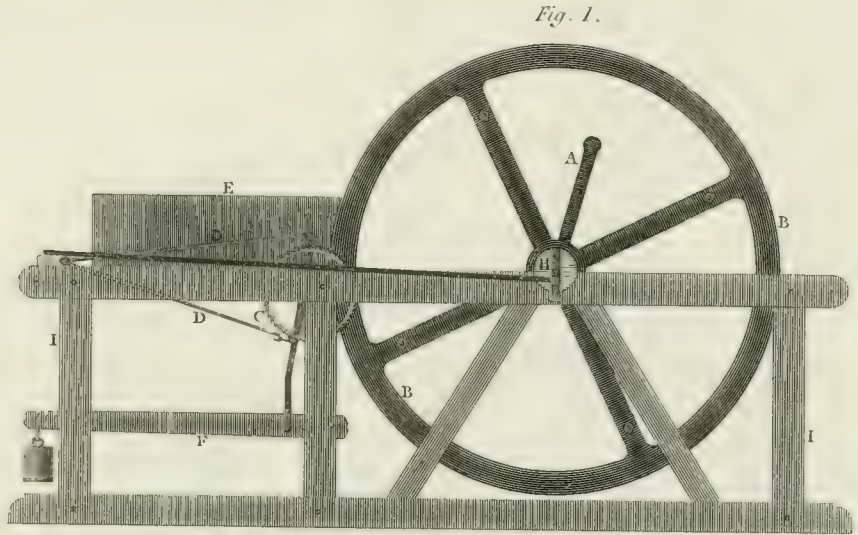




M^r Salmon's CHAFF CUTTER, as made by M^r Rowntree.



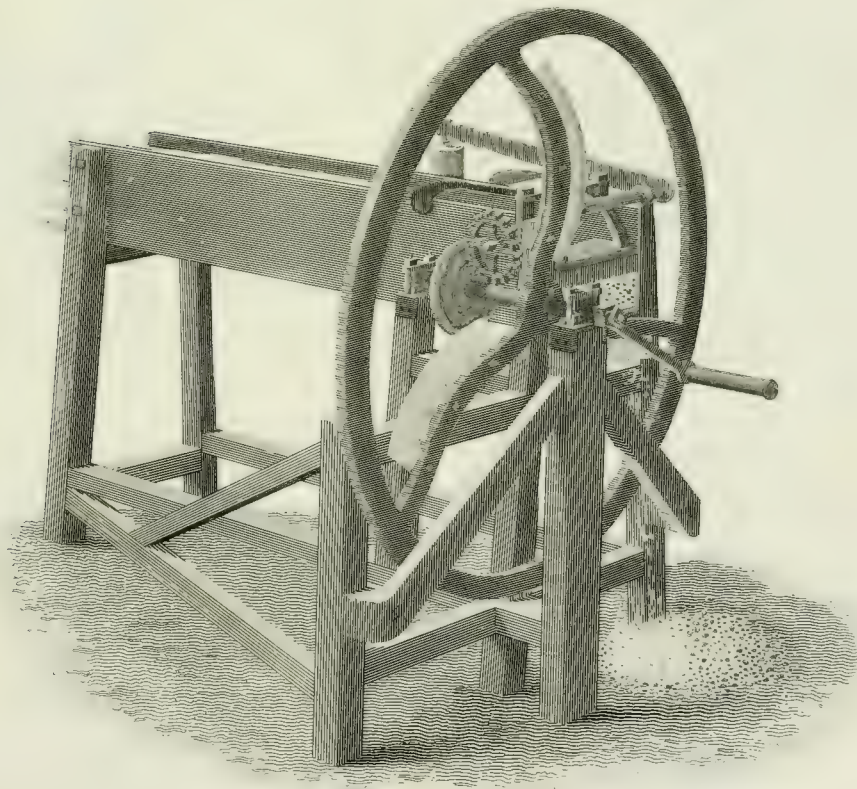
Elevation of the End.



Elevation taken sideways.

Fig. 3.

M^r M^c Dougal's Chaff Cutter.



In viewing Fig. 3. the eye of the spectator should be placed at 12 Inc. distance from



CHEESE PRESS,
AND CHURNS.

Fig. 2.

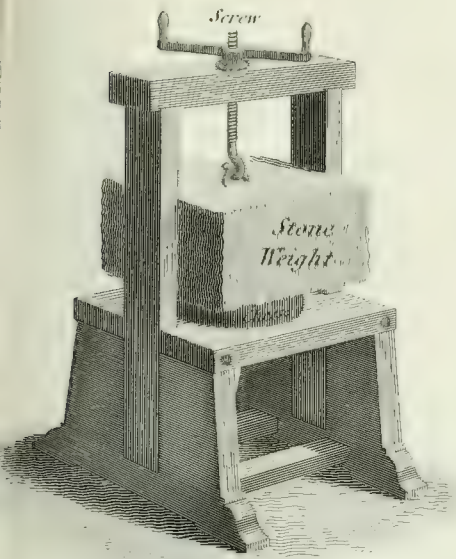
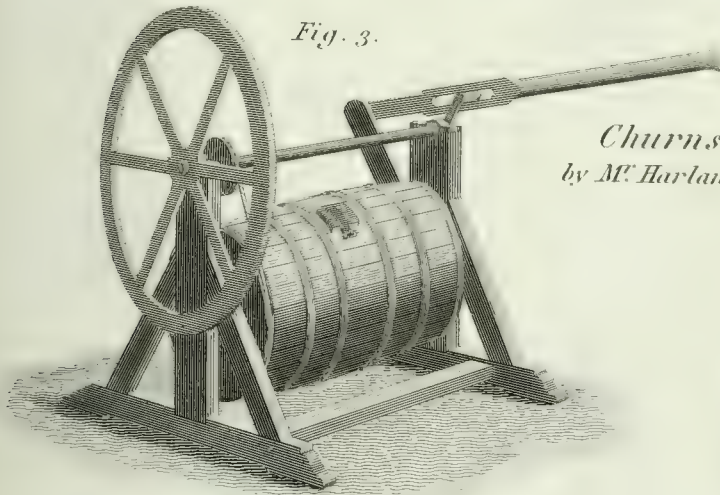


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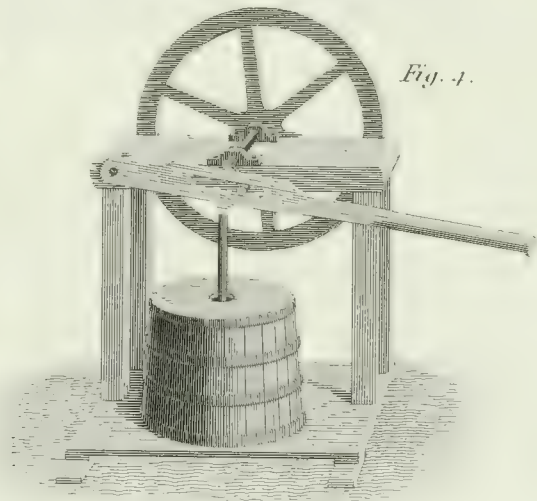


Fig. 3.



Churns
by M^r. Harland.

Fig. 4.



by M^r. Rowntree.

Fig. 5.

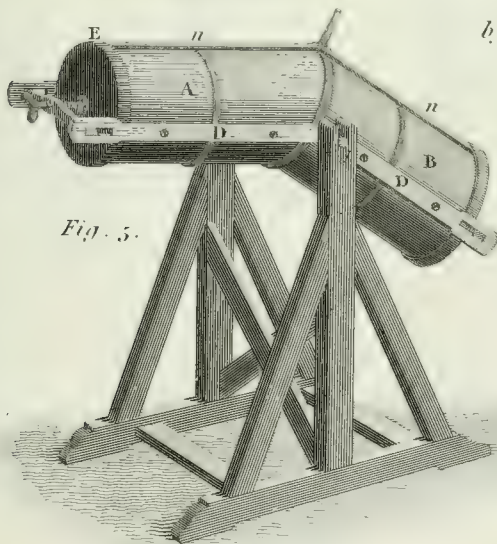
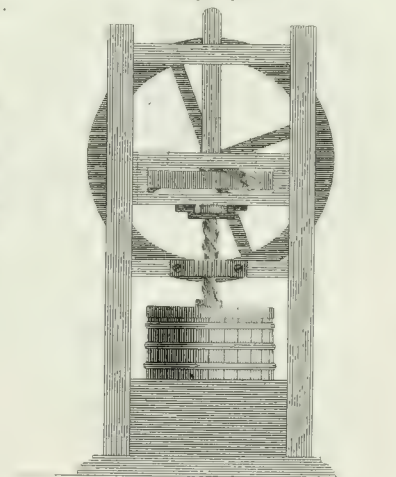


Fig. 6.



Fig. 7.



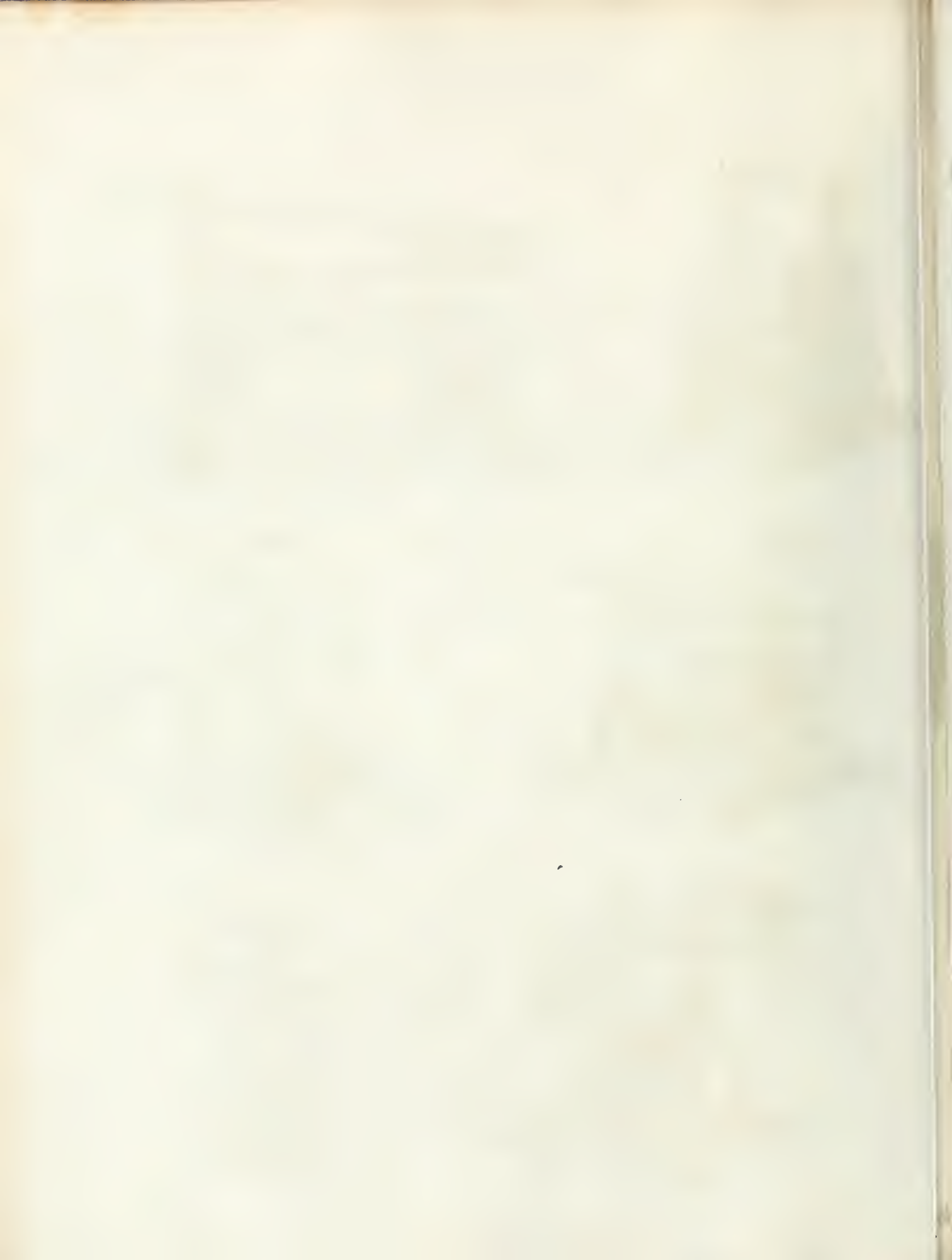
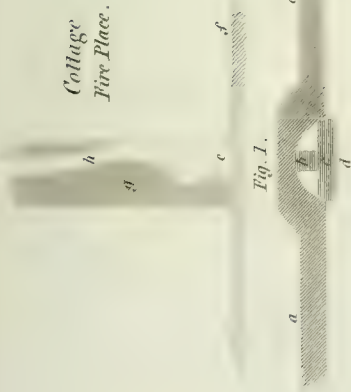


Fig. 2.



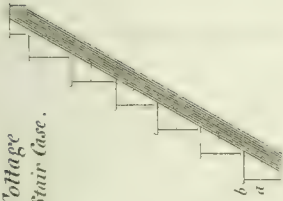
Collage Fire Place.

Fig. 3.



Collage Stair Case.

Fig. 4.

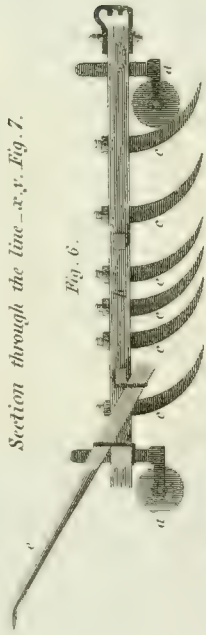


Collage Bed Room.

Fig. 5.

MR. AMOS'S Couch Grass Drag.

Section through the line x-y, Fig. 7.



MR. AMOS'S Couch Grass Rake.

Section through the line n-o, Fig. 10.

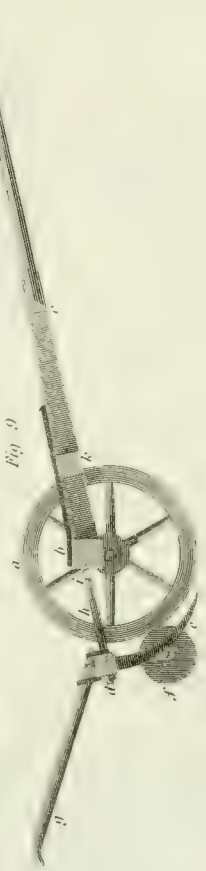
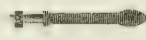
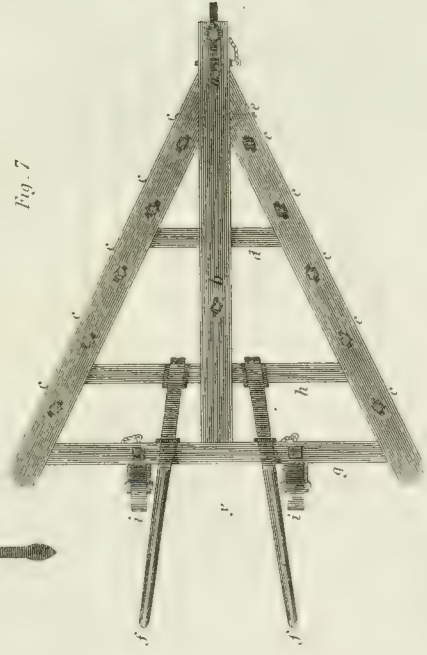


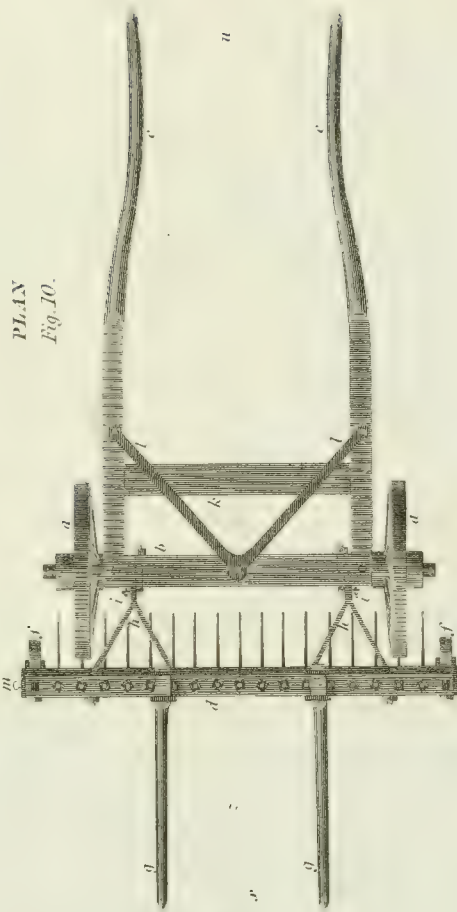
Fig. 8.



PLAN Fig. 7



PLAN Fig. 10.



Scale of Feet.



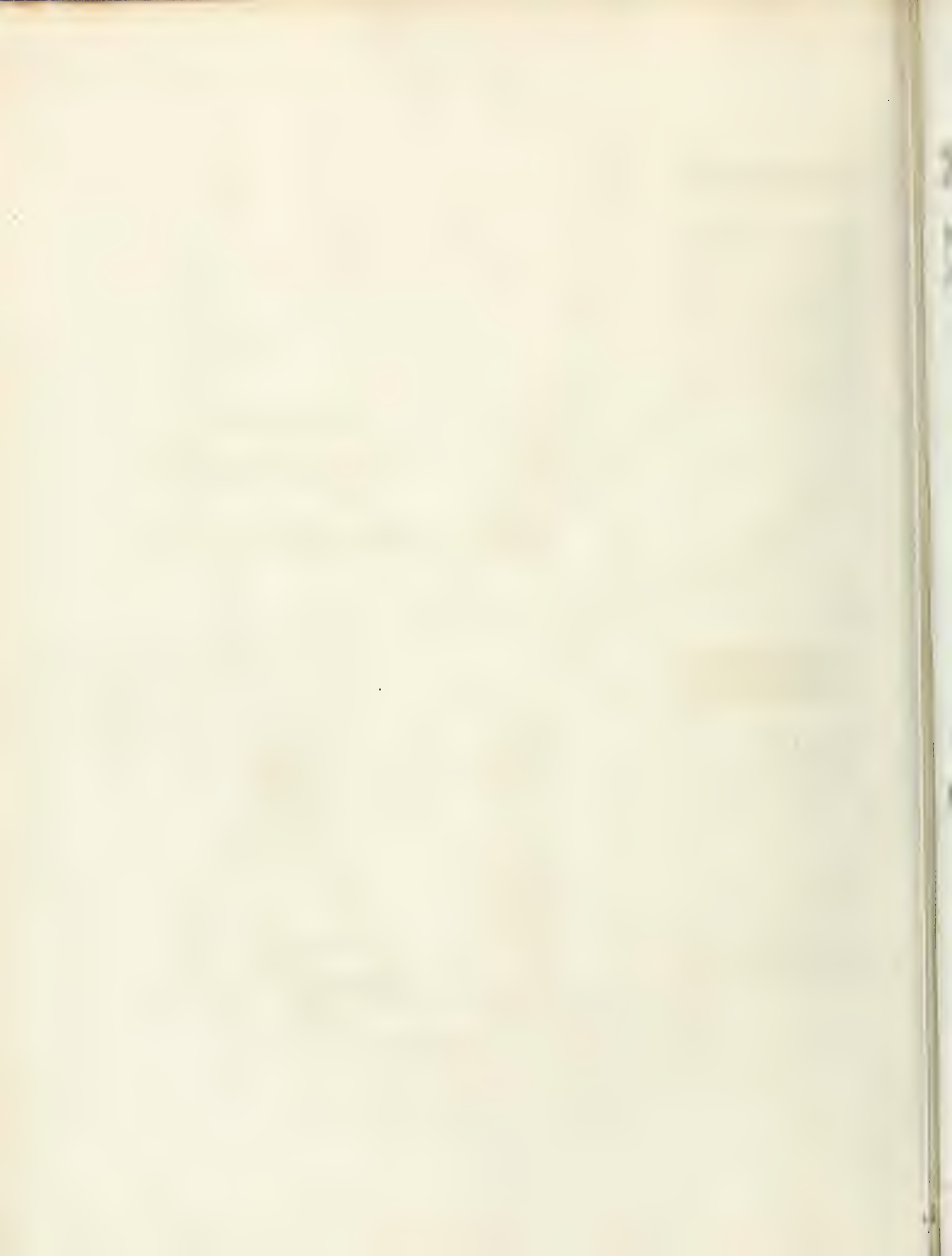


Fig. 2.

Plan.

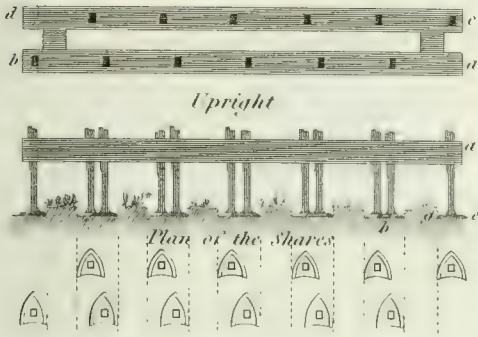


Fig. 1.

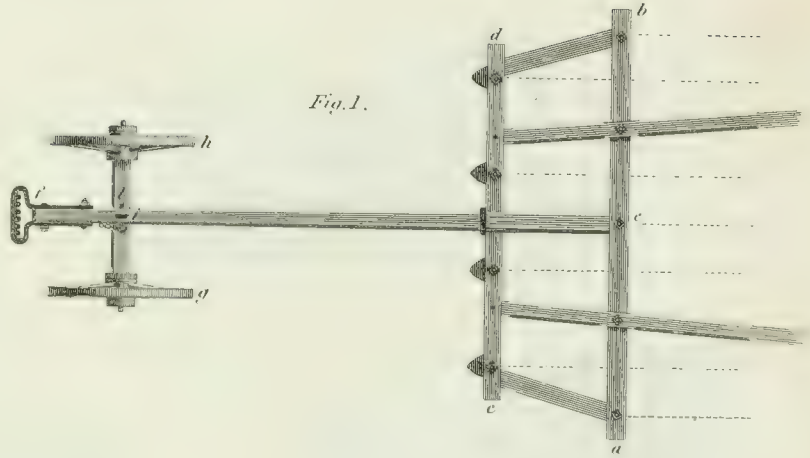


Fig. 4.

M^r C. Western's Double Cultivator.

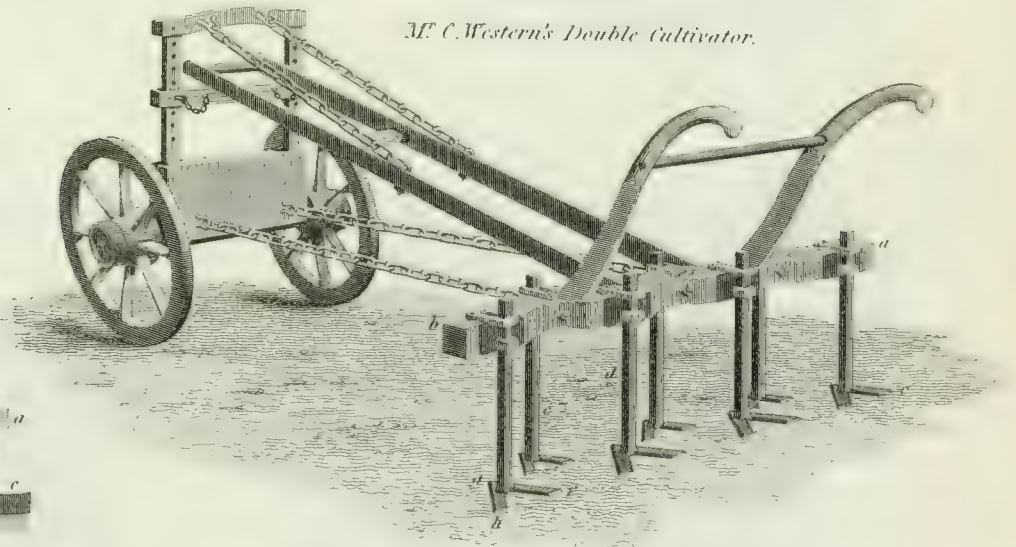


Fig. 3.

M^r Roger's Bean Cultivator.

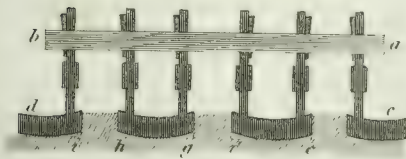
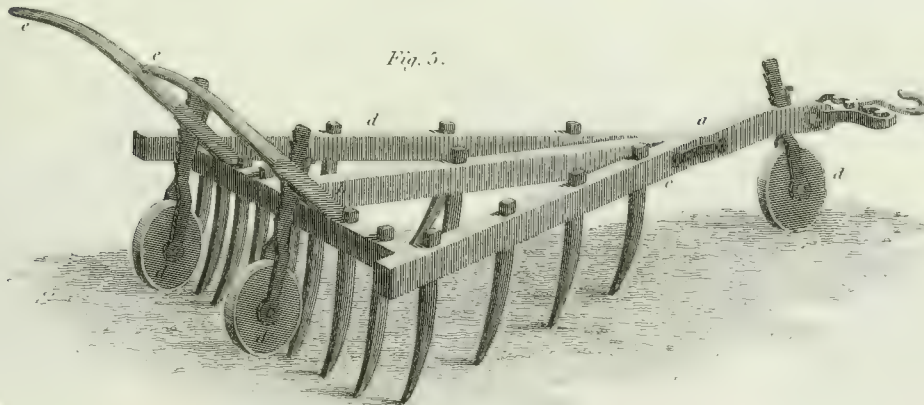


Fig. 5.





EMBANKMENTS.

Fig 1.

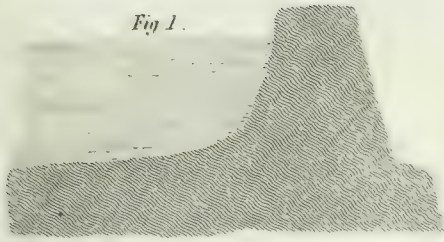


Fig 2



Fig 3.

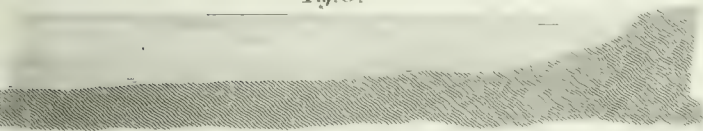


Fig 4

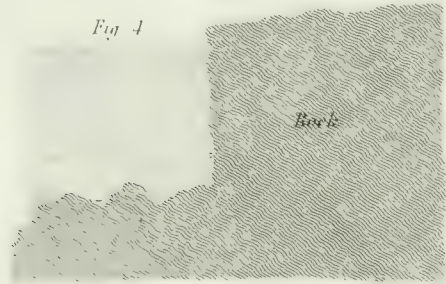


Fig 5.



Fig 7.



Fig 6.

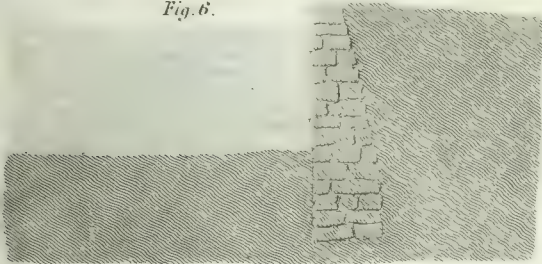
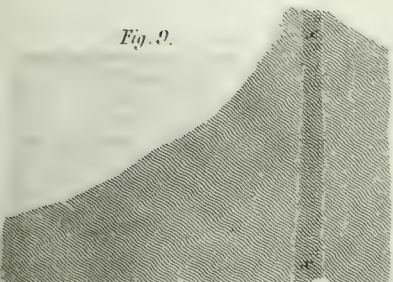


Fig 8.



Fig 9.



Clayey Substratum.

Fig 10.

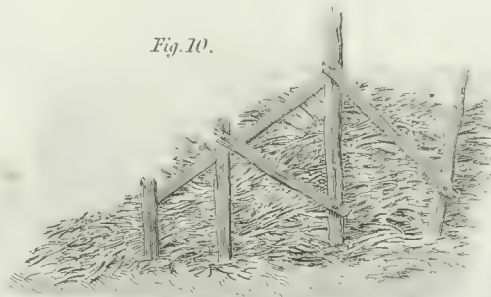
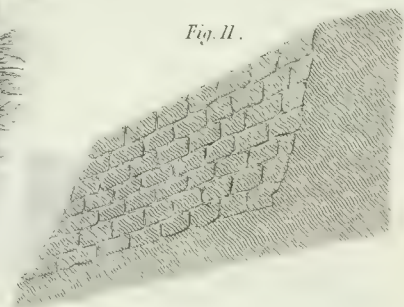
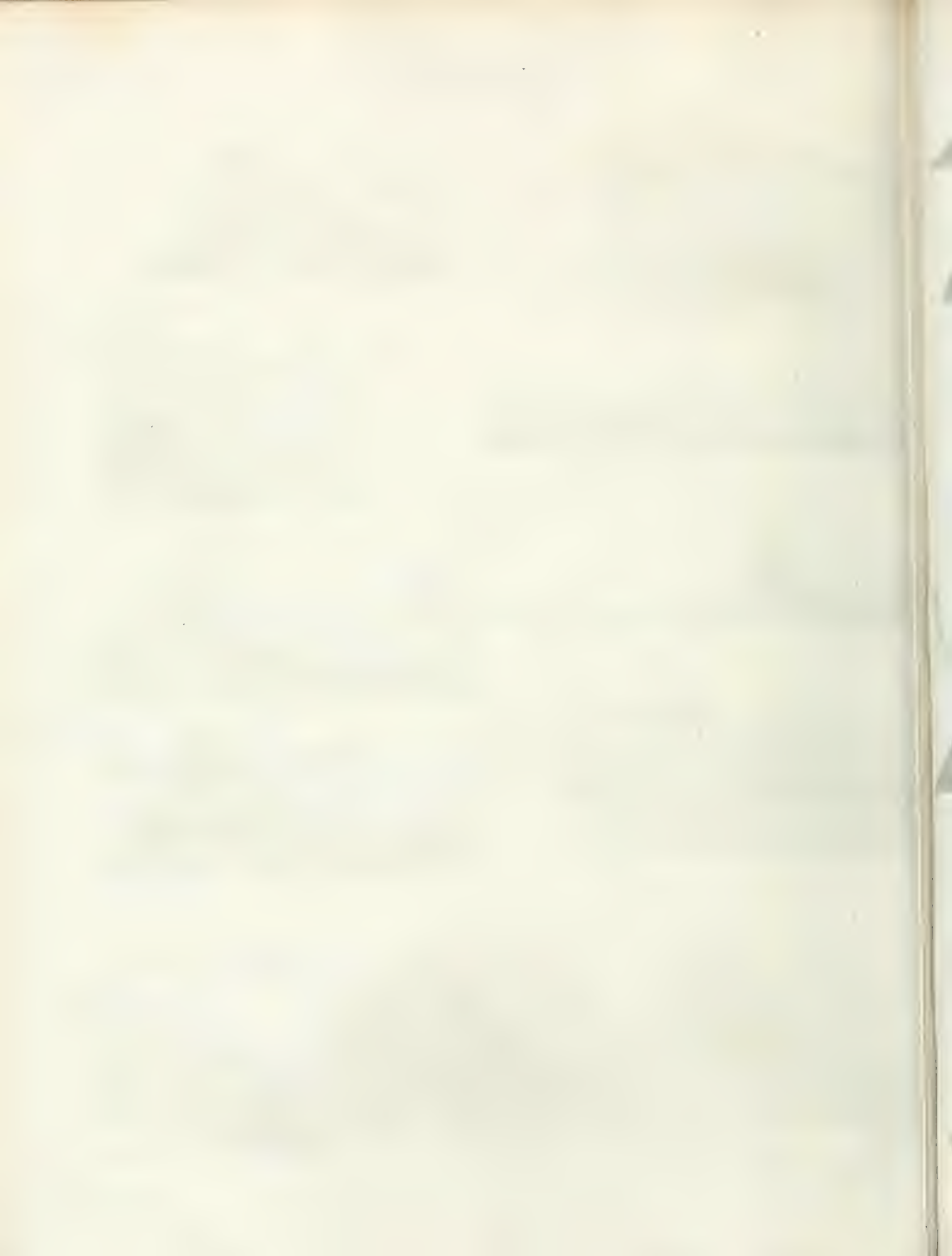
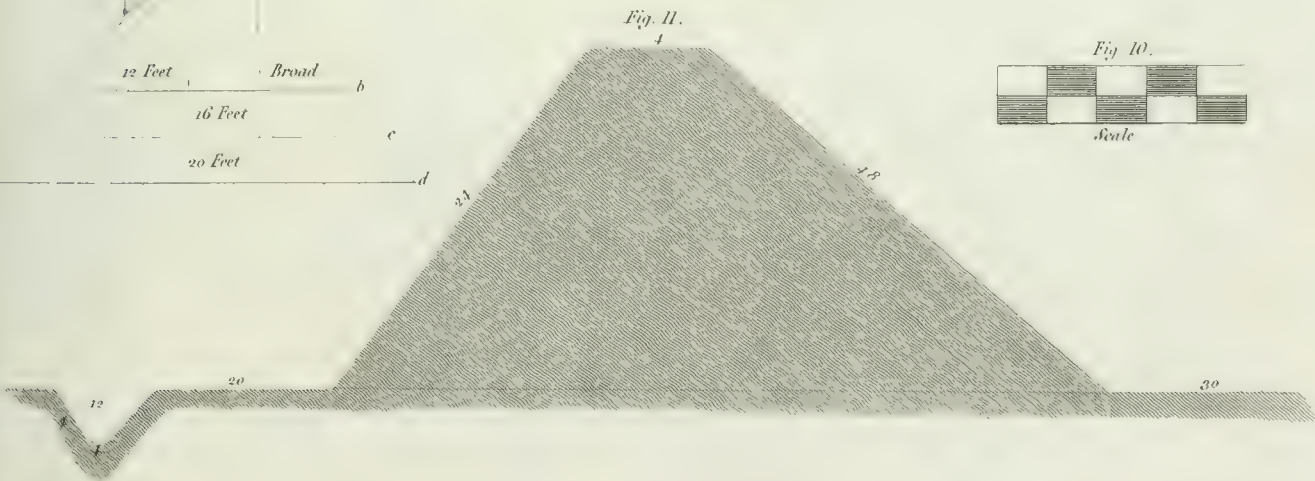
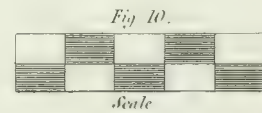
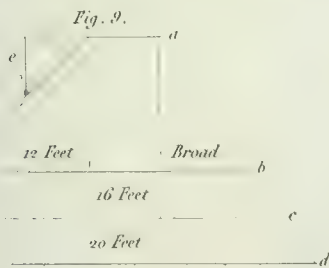
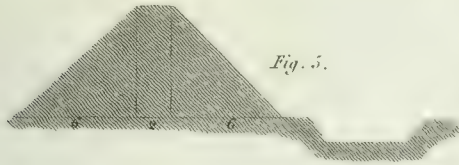
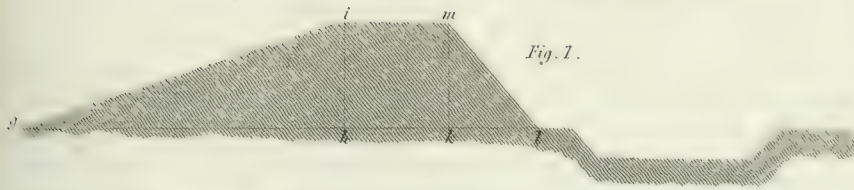


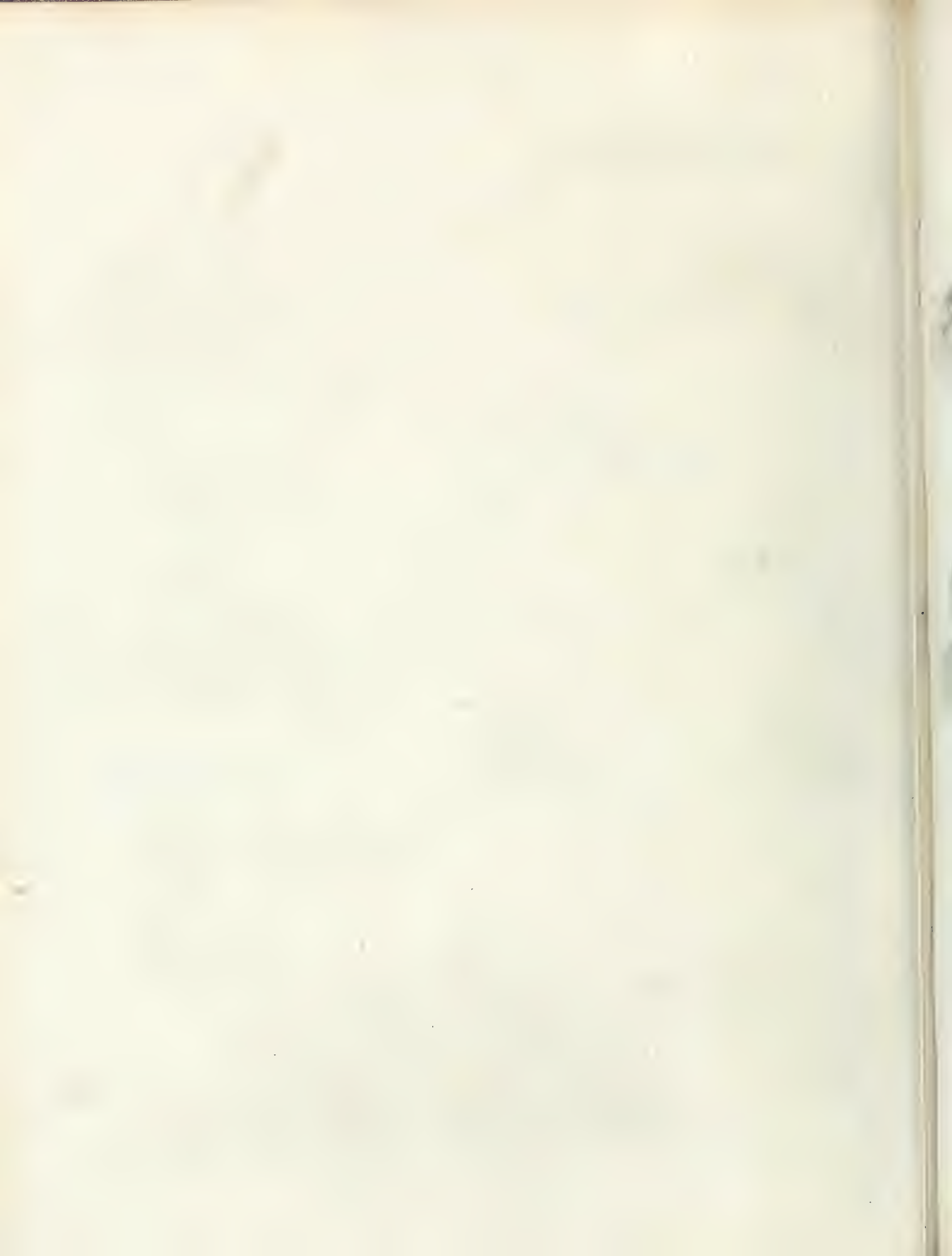
Fig 11.





AGRICULTURE.
EMBANKMENTS.





CYDER MILL and PRESS.

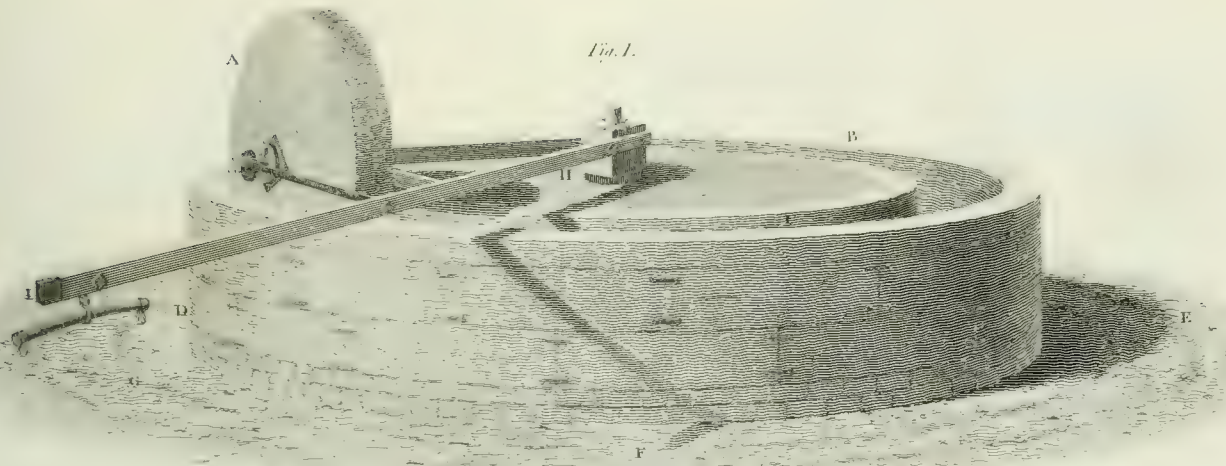


Fig. 5.

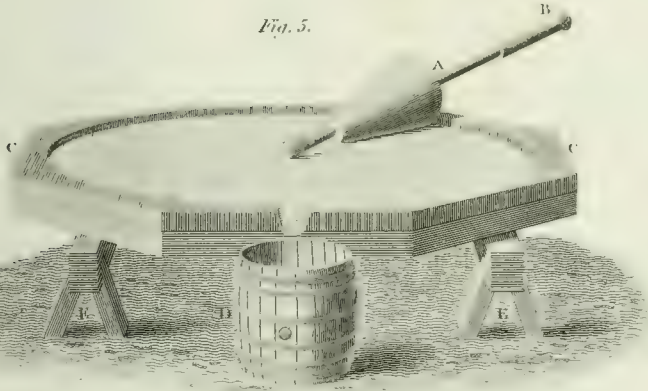


Fig. 2.

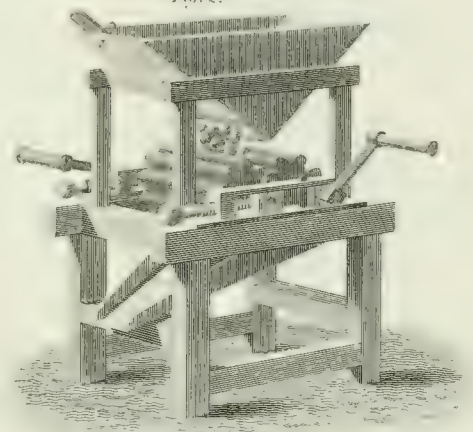
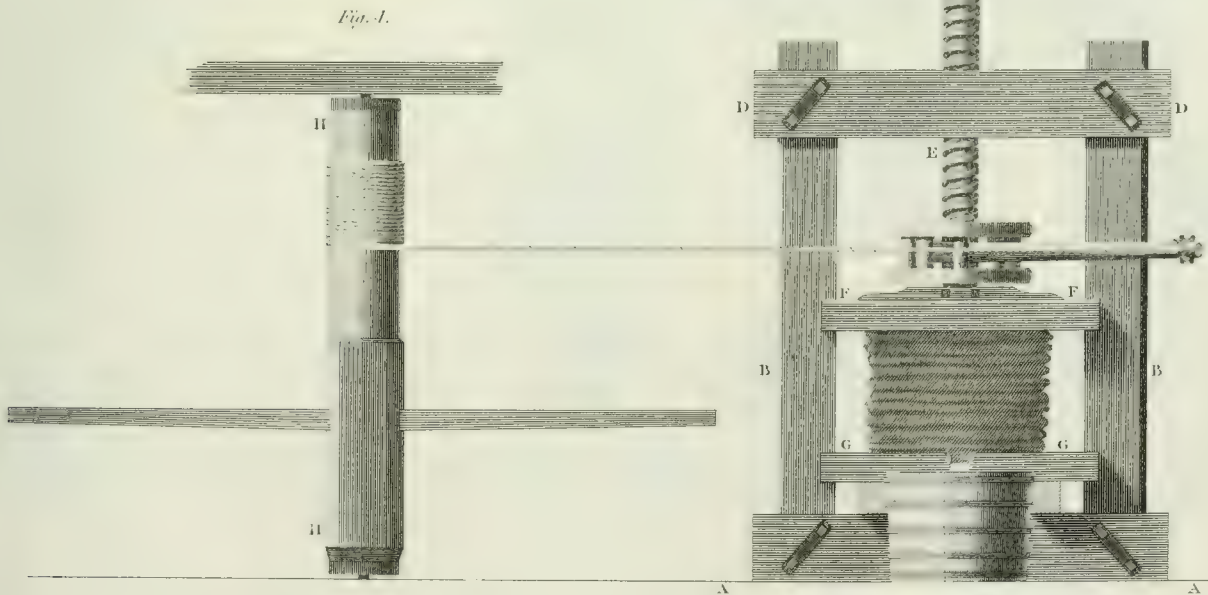
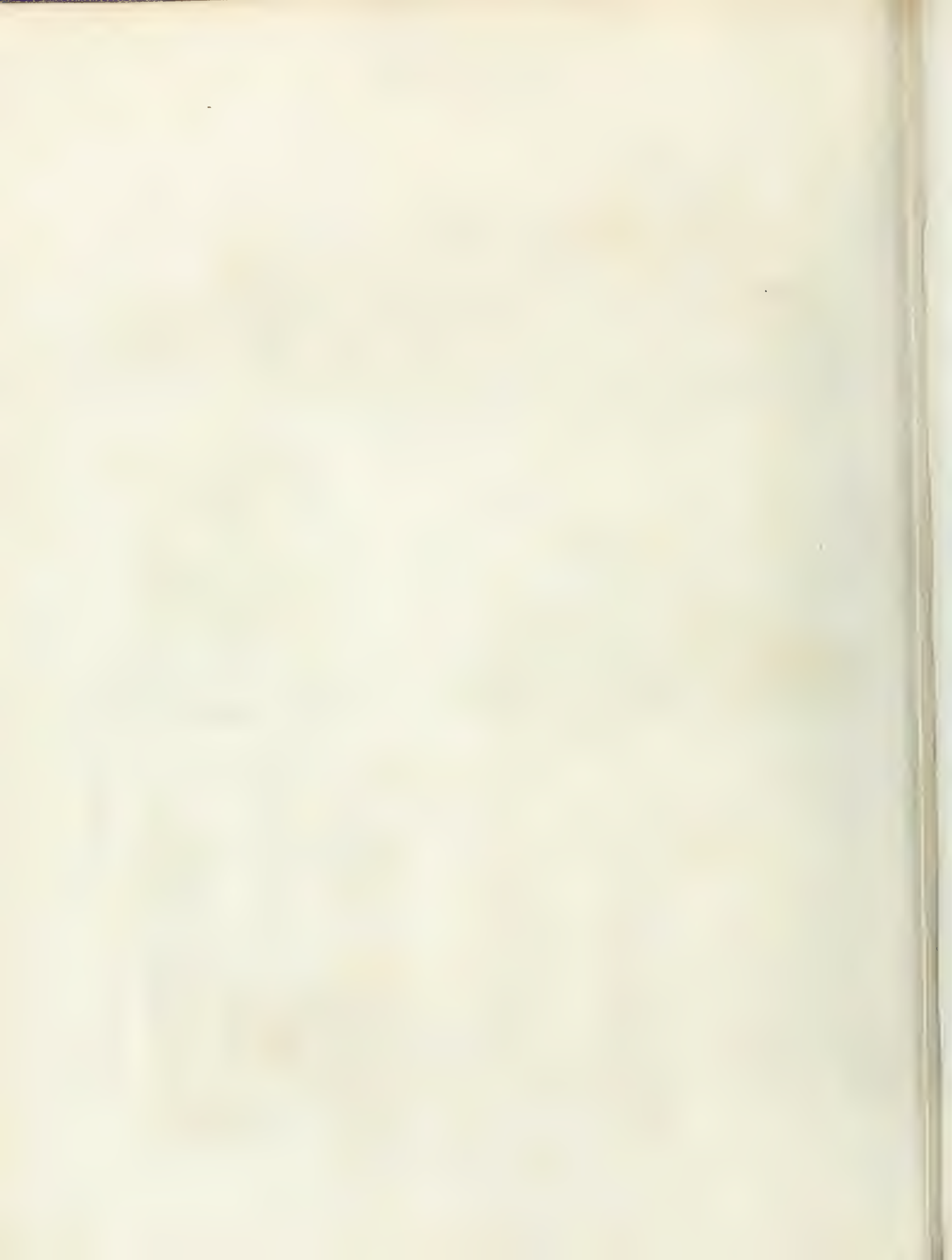


Fig. 3.





DAIRY HOUSES.

Fig. 2.

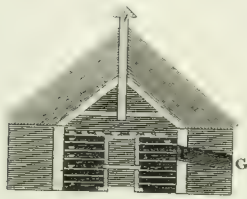


Fig. 1.

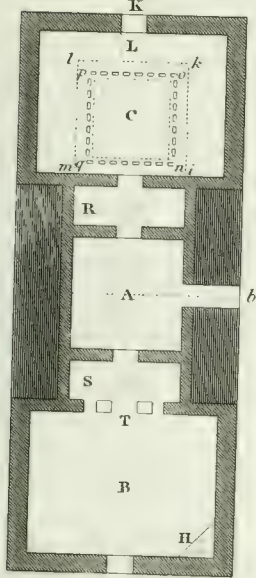


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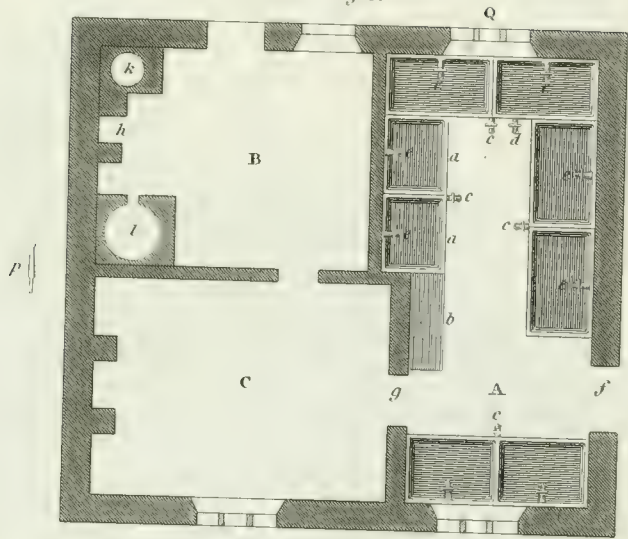


Fig. 4.



Fig. 5.

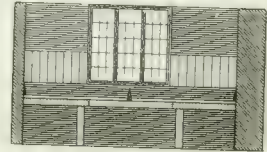


Fig. 6.

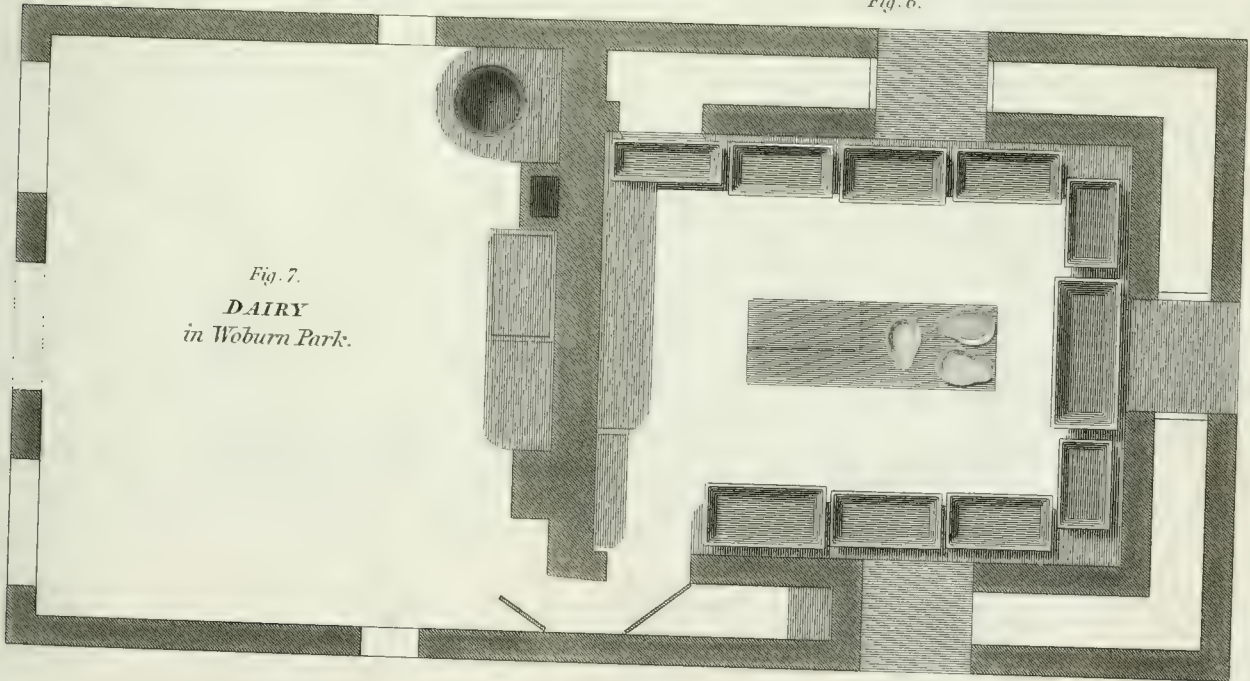
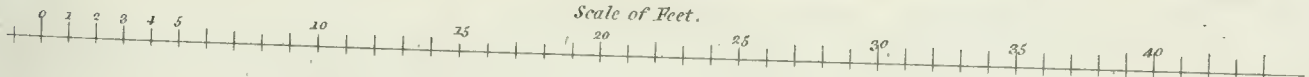
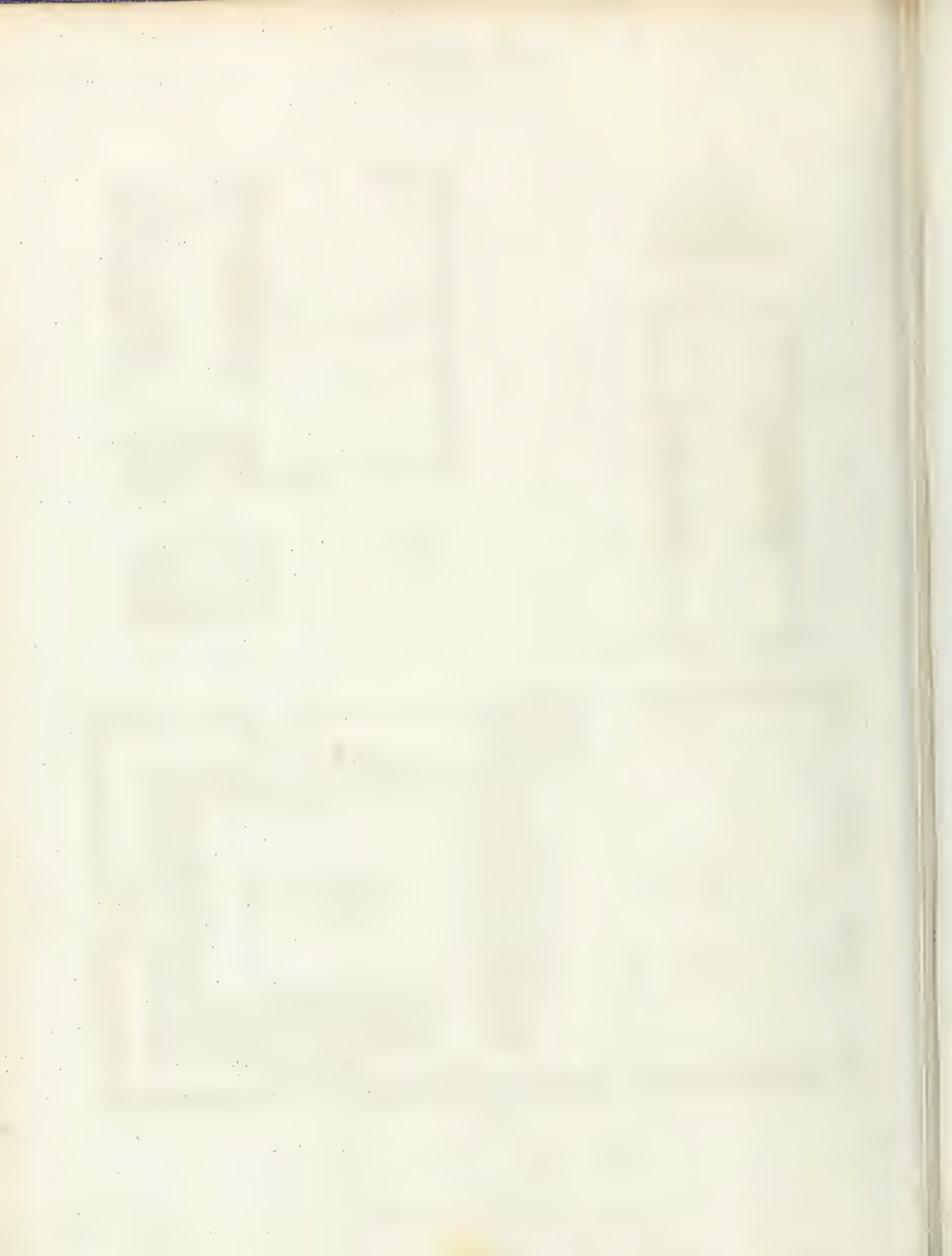


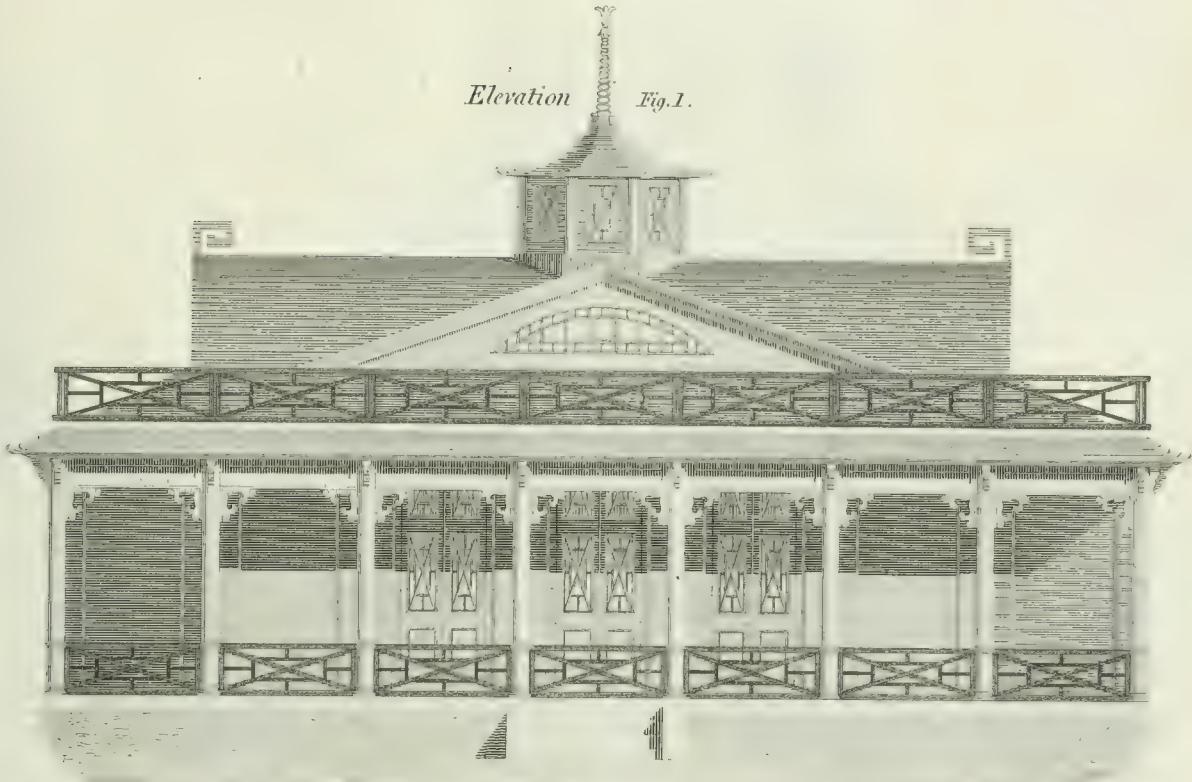
Fig. 7.
DAIRY
in Woburn Park.

Scale of Feet.





Elevation Fig. 1.

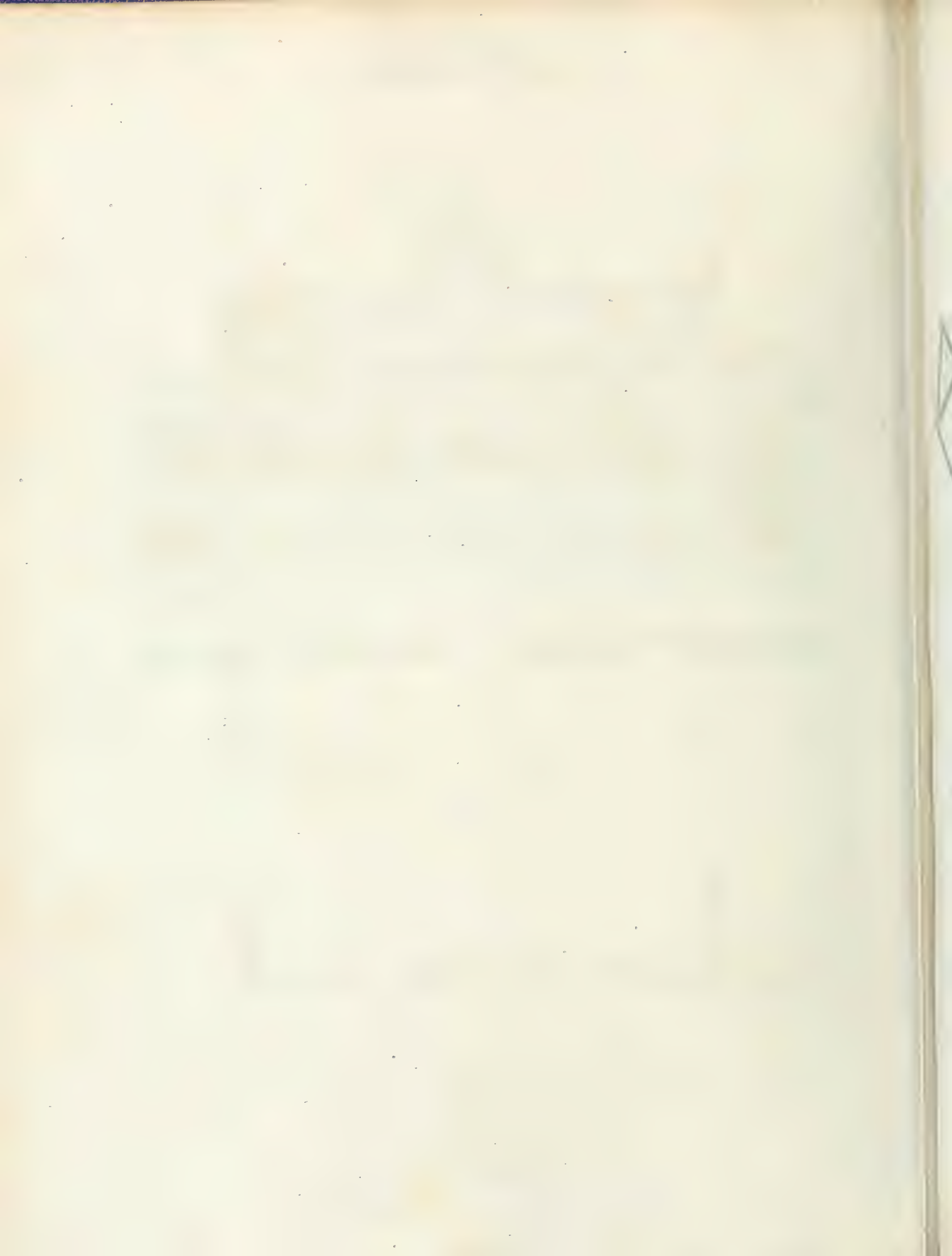


Plan Fig. 2.

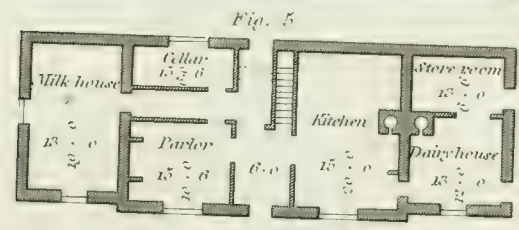
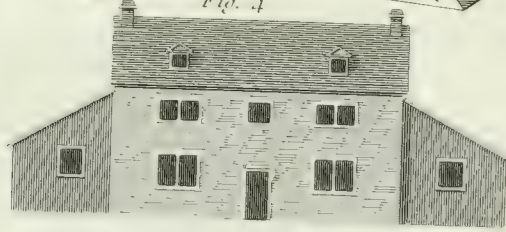
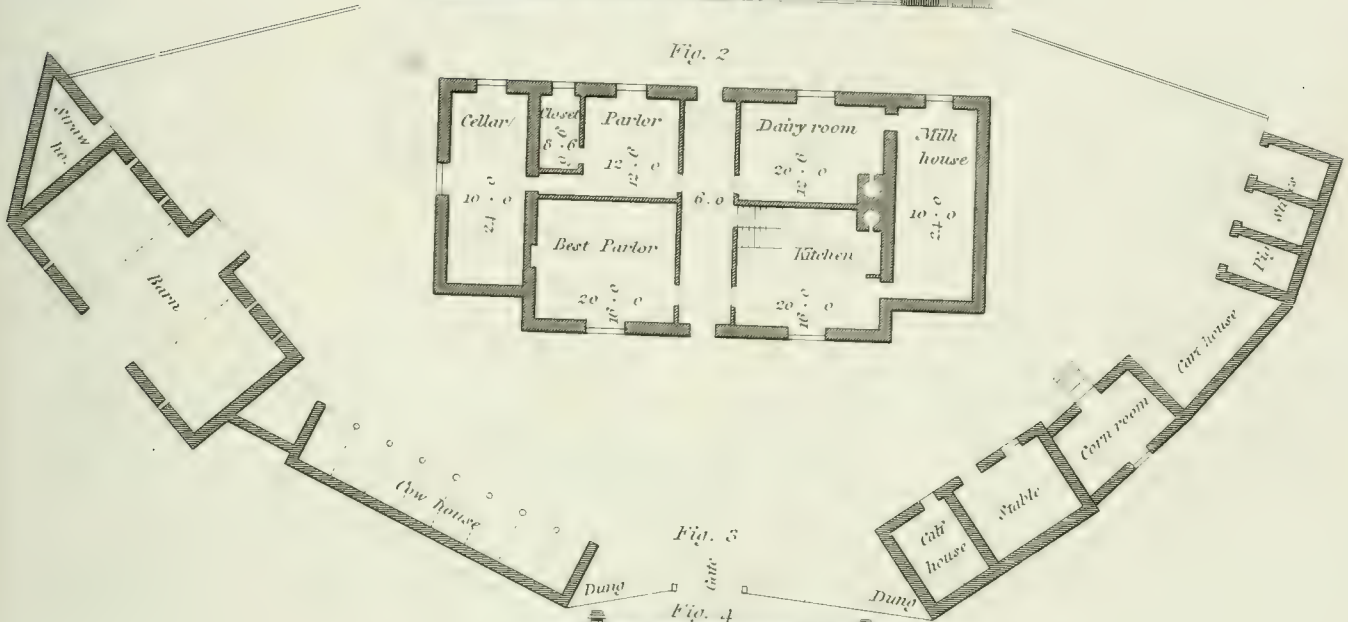
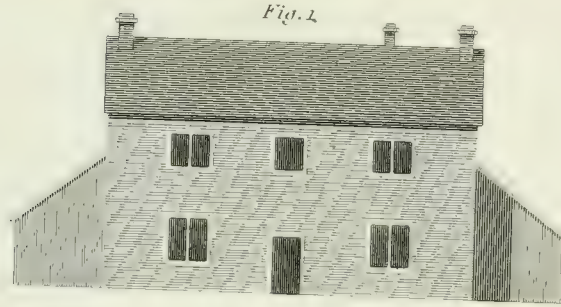


Scale of Feet.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30



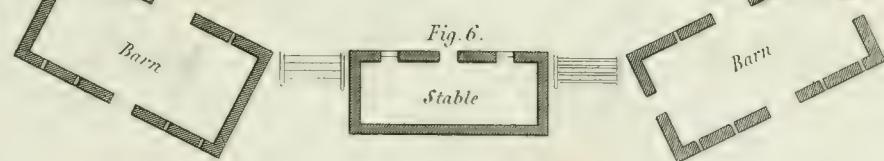
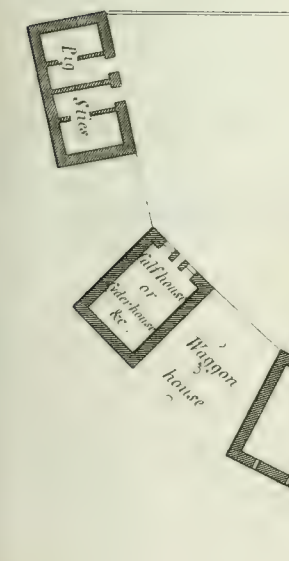
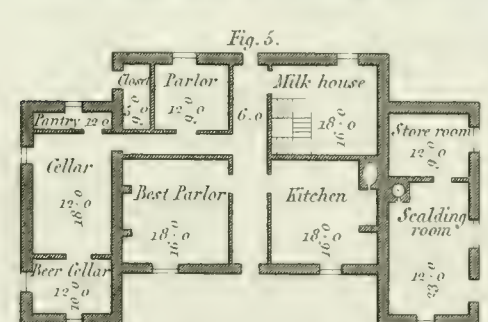
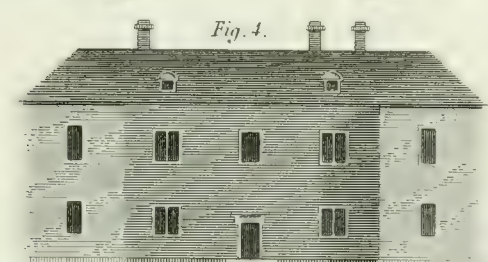
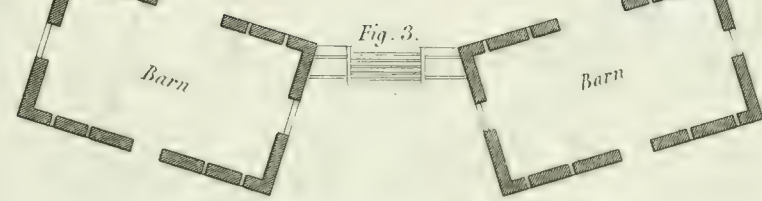
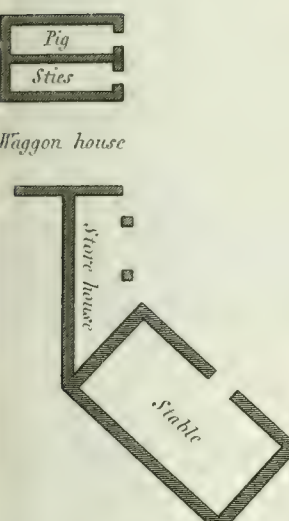
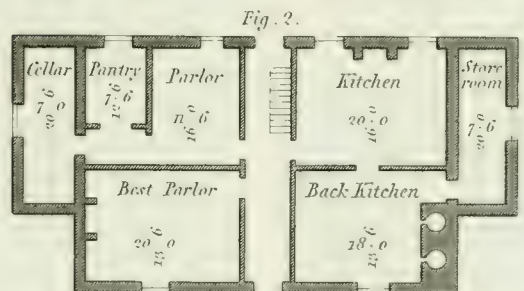
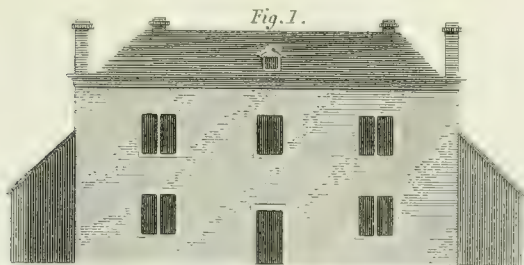
GRASS AND DAIRY FARM BUILDINGS.

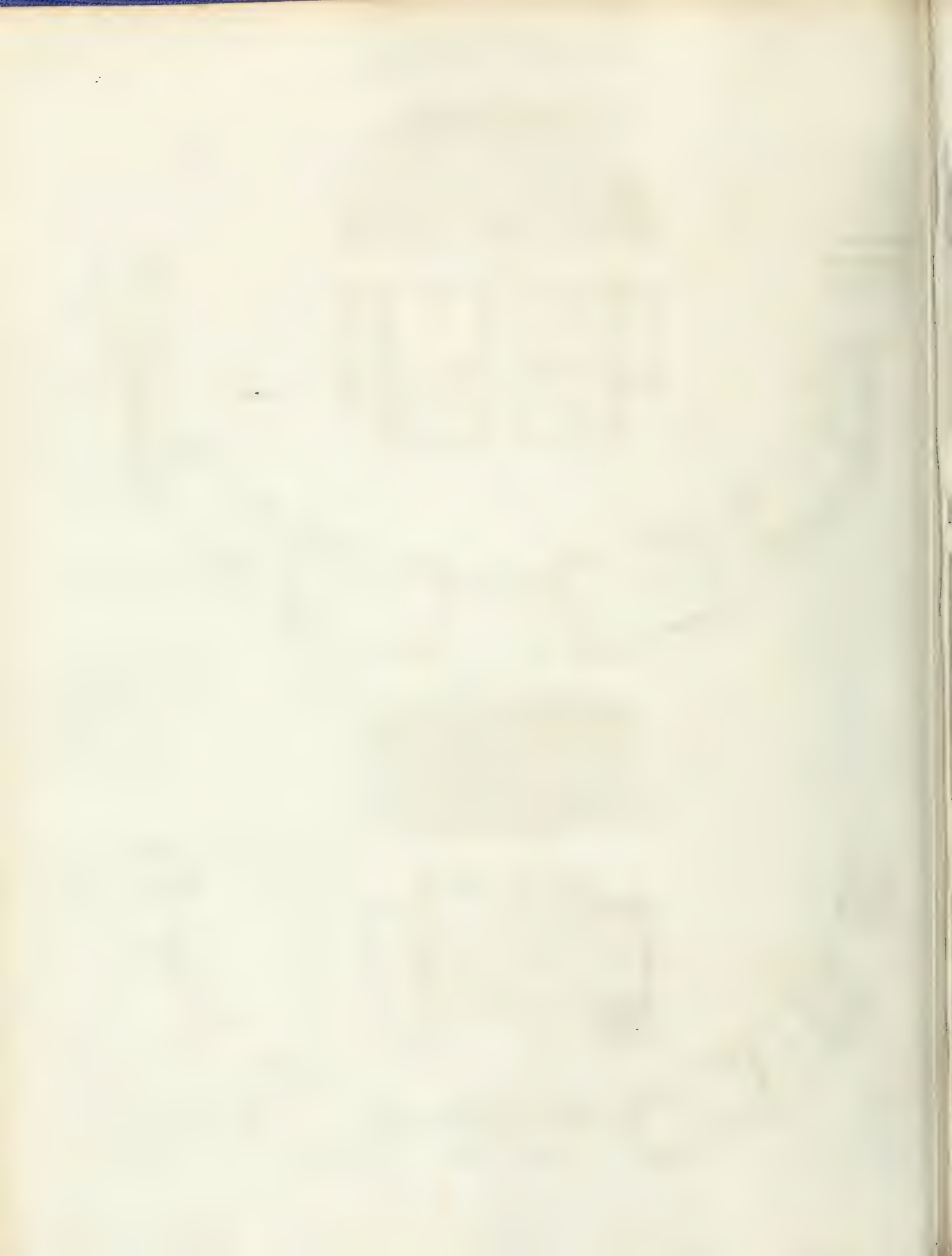


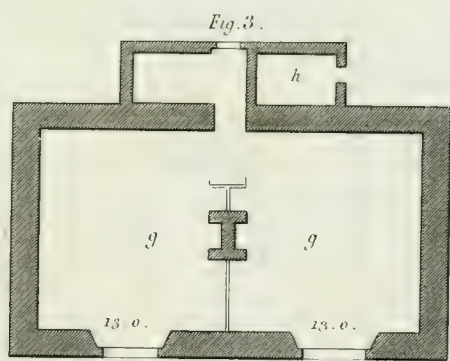
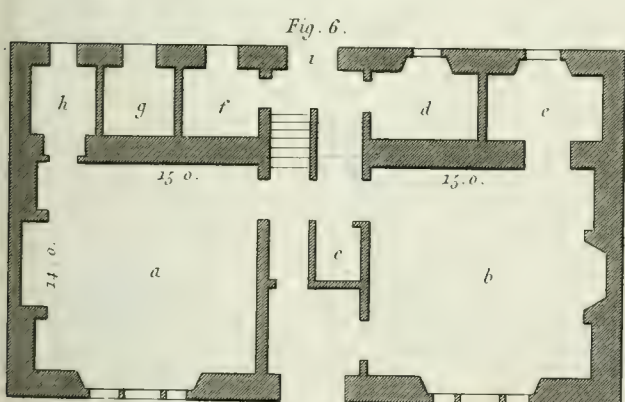
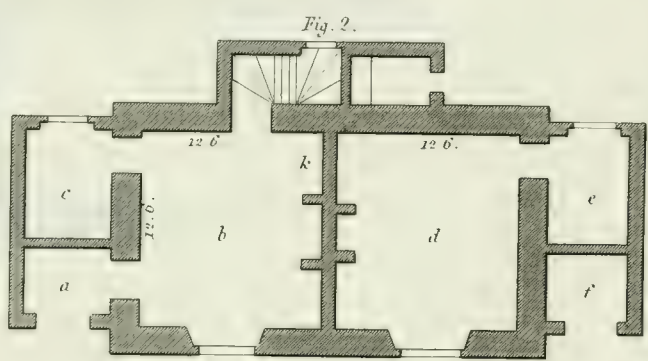
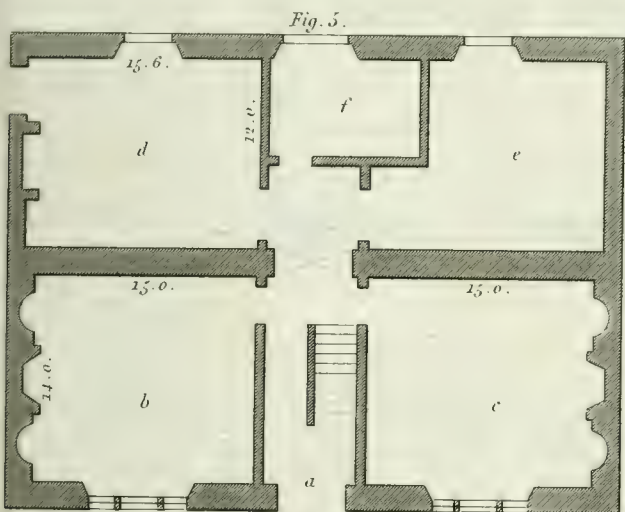
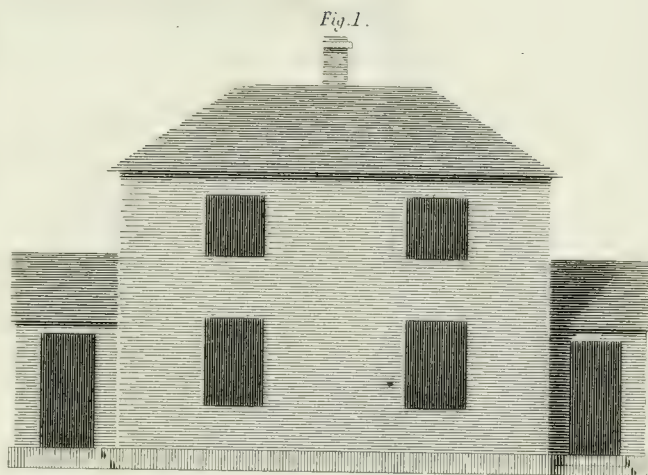
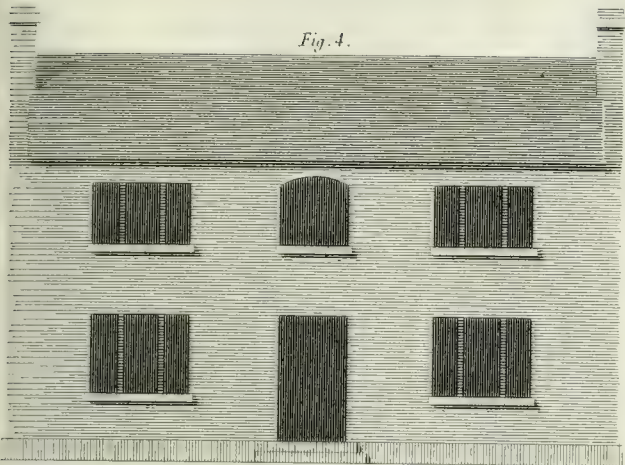
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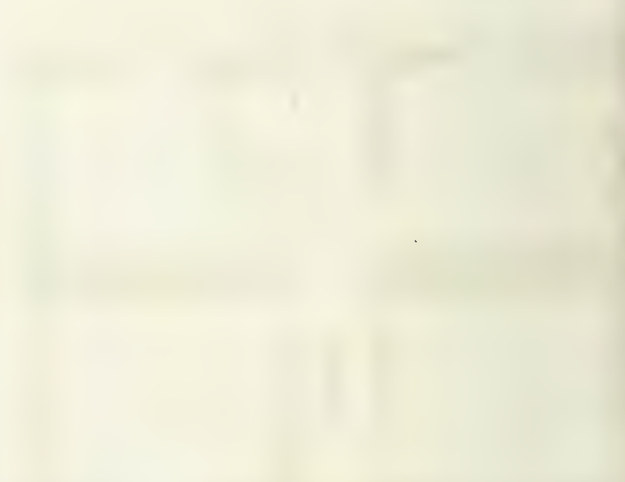
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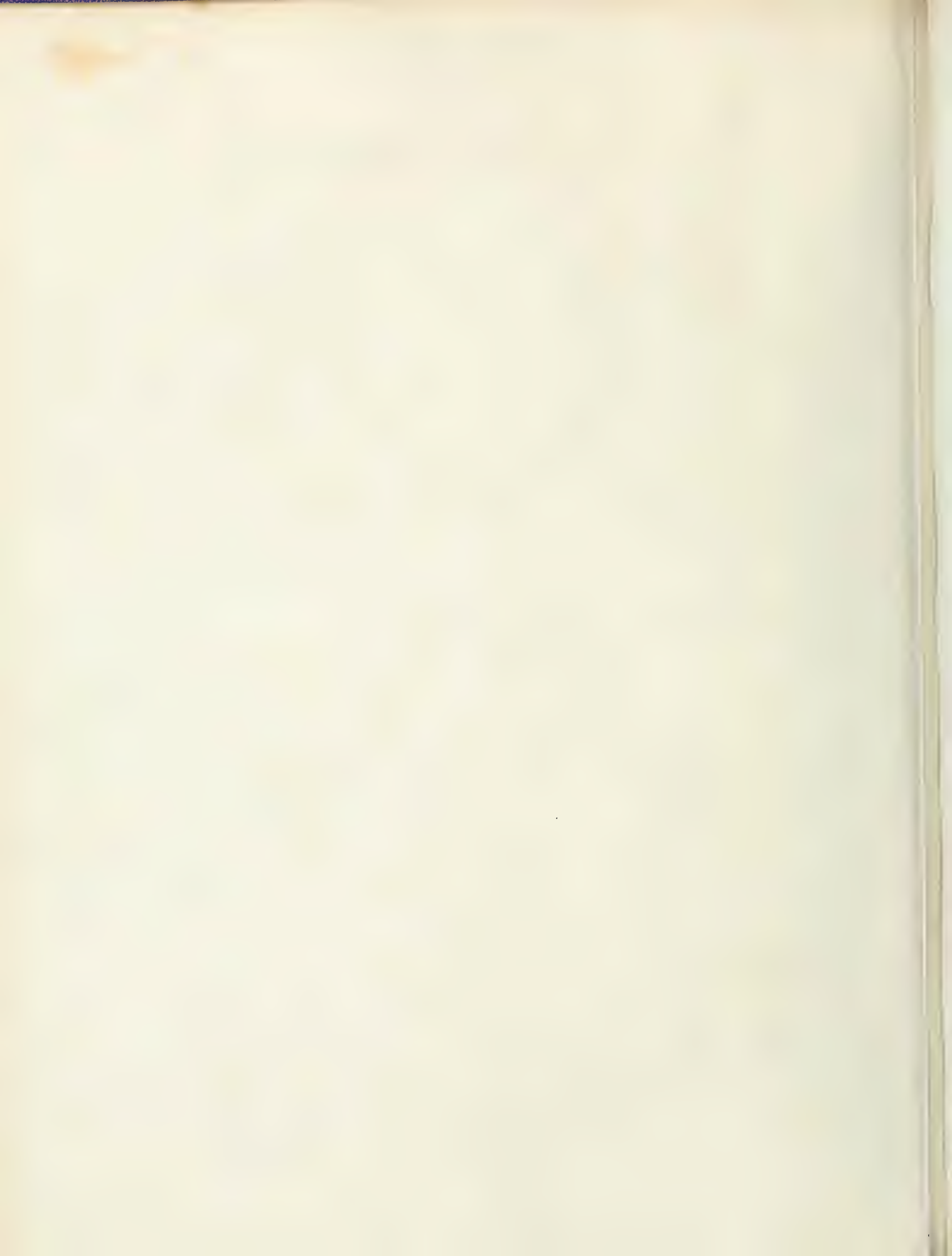
AGRICULTURE.
CORN AND MIXED FARM BUILDINGS.











AGRICULTURE.
PLANS OF ANGULAR AND CIRCULAR FARM YARDS.

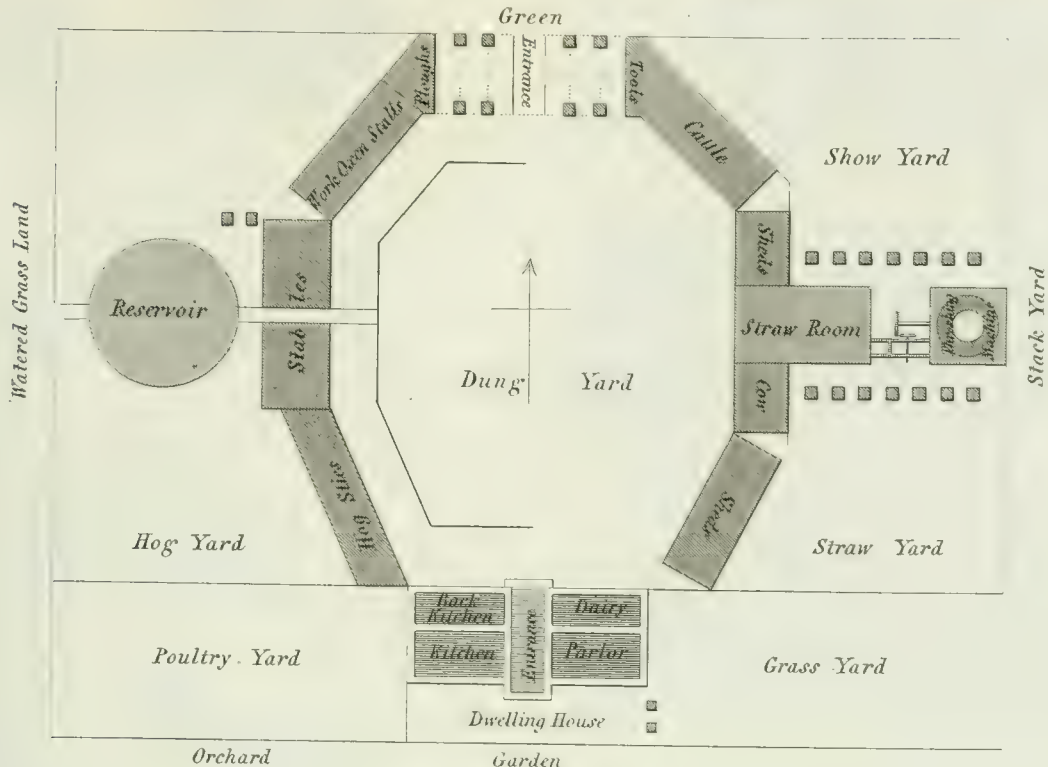
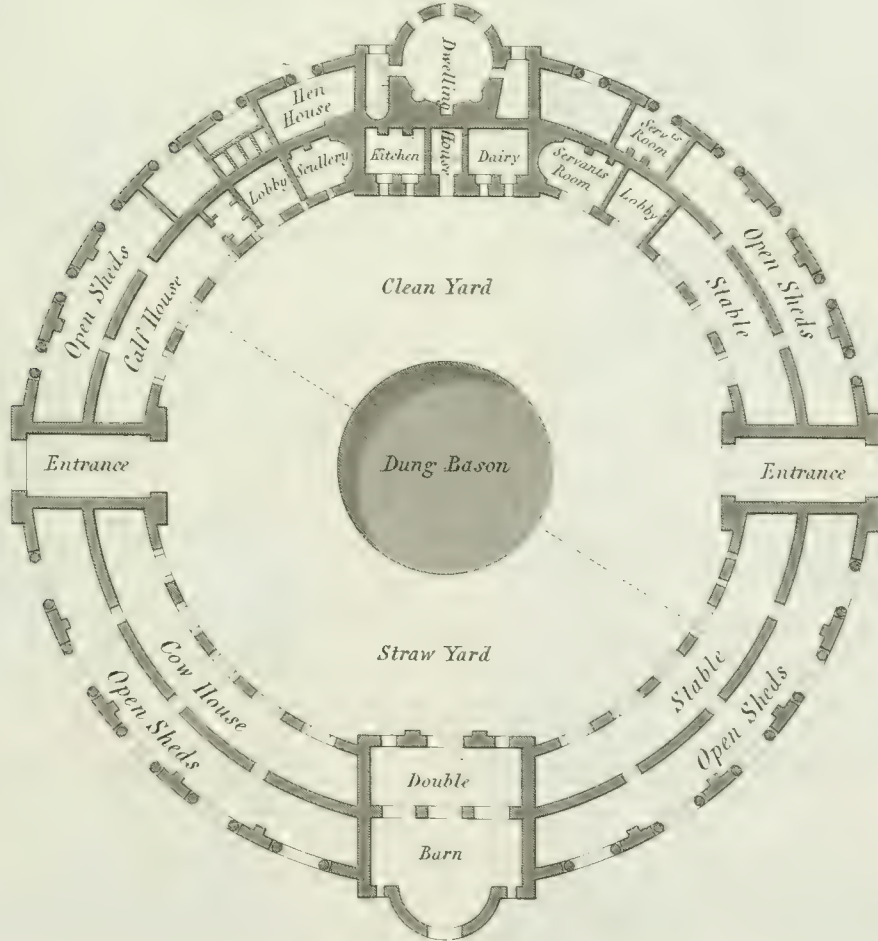
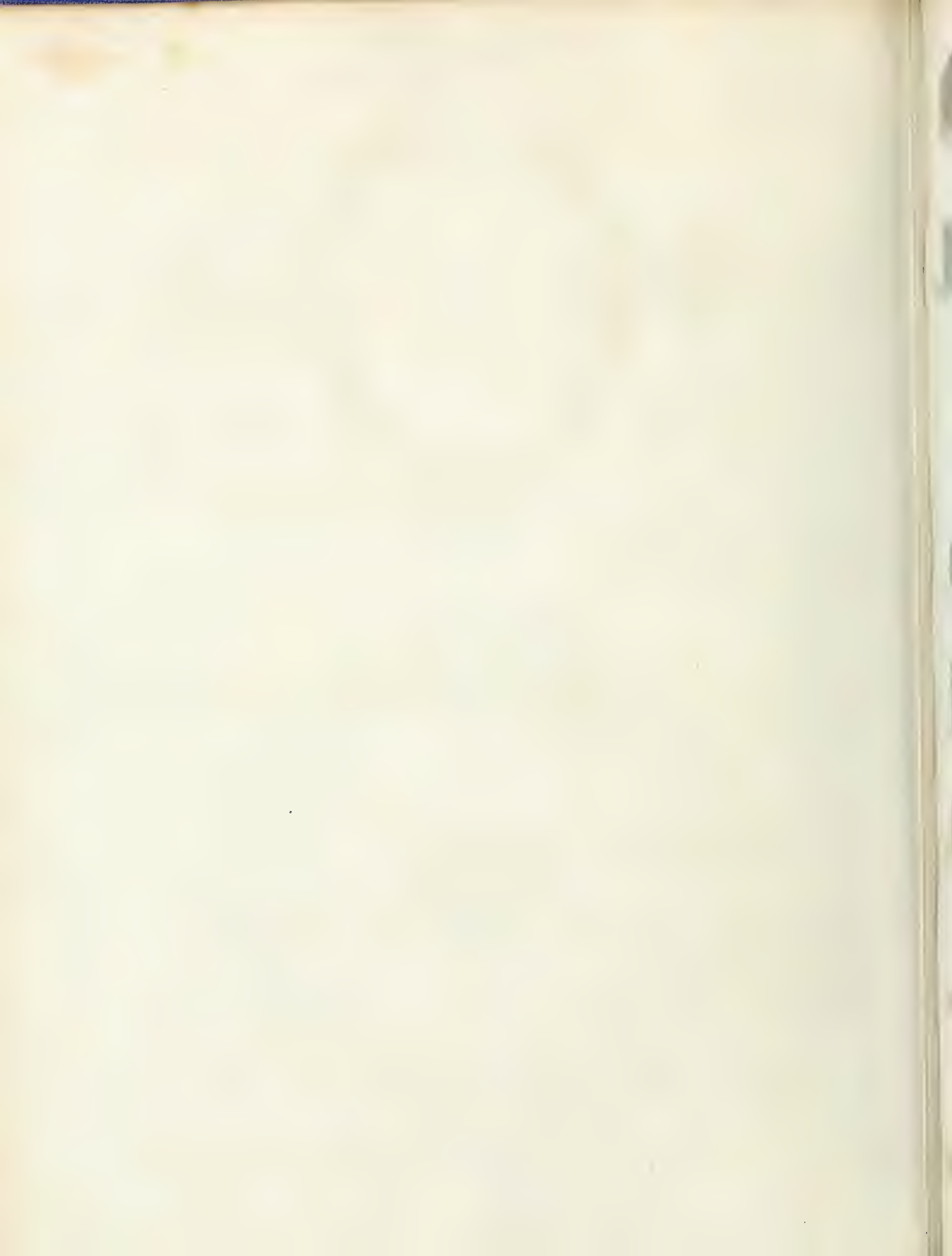


Fig. 2.





FENCES.

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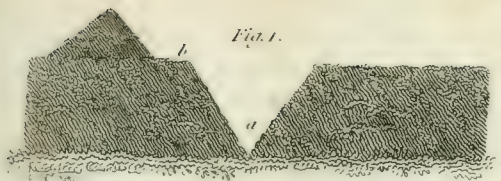


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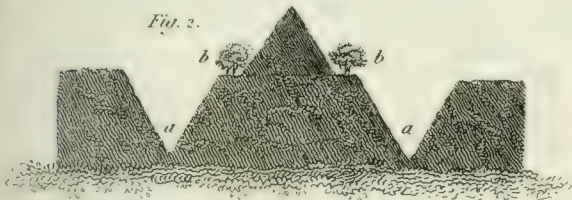


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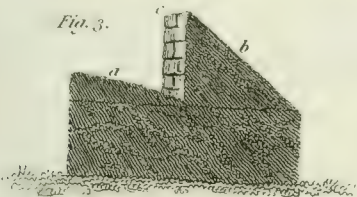


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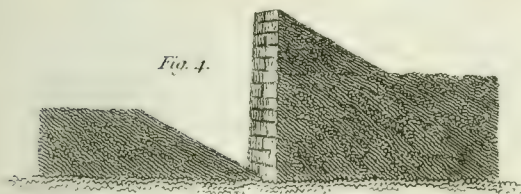


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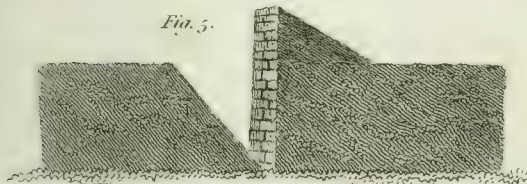


Fig. 6.



Fig. 7.

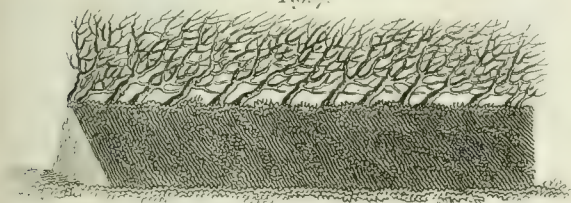


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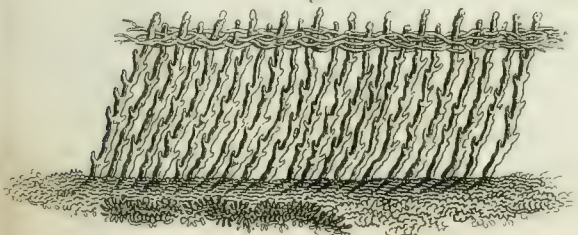


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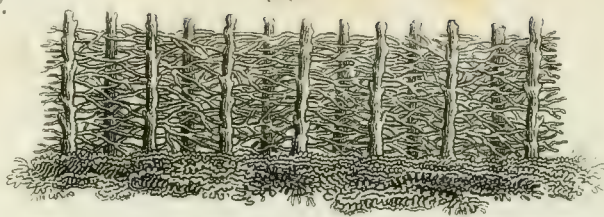


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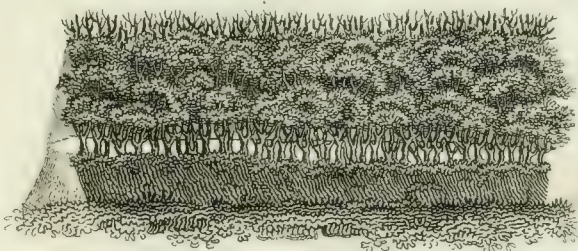


Fig. 11.



Fig. 12.



Fig. 13.



Fig. 14.



Fig. 15.

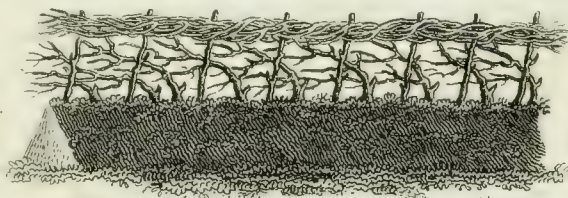


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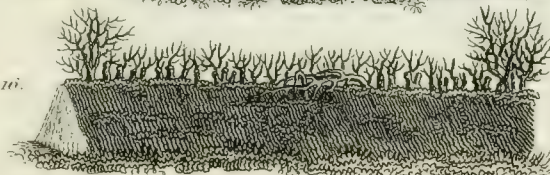




Fig. 1.

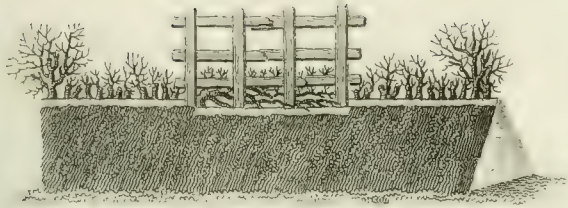


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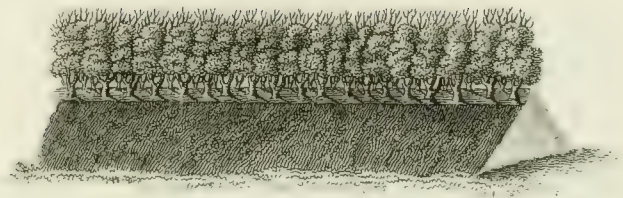


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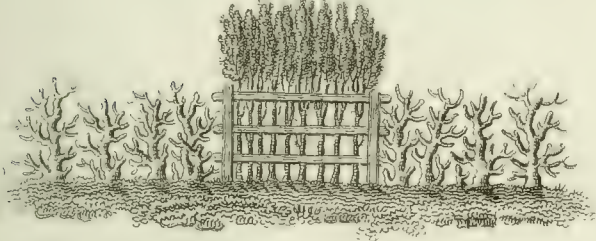


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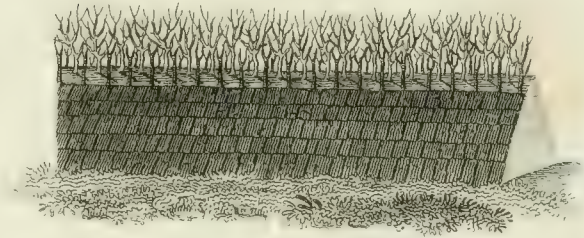


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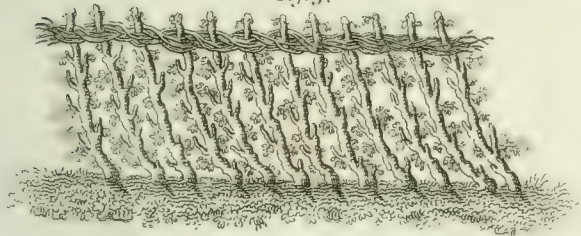


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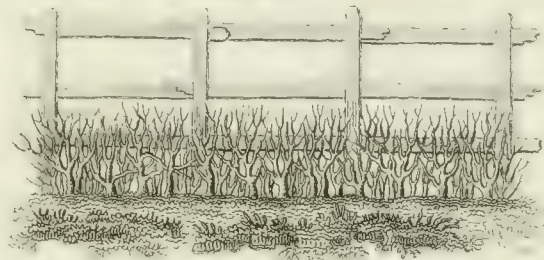


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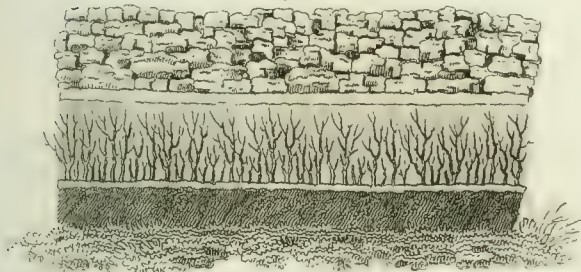


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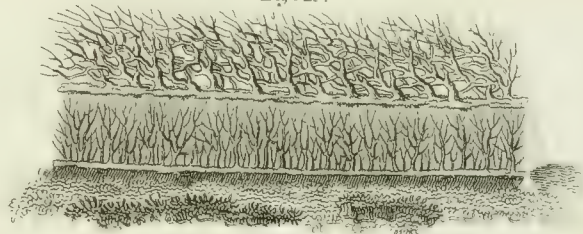


Fig. 5.



Fig. 11.

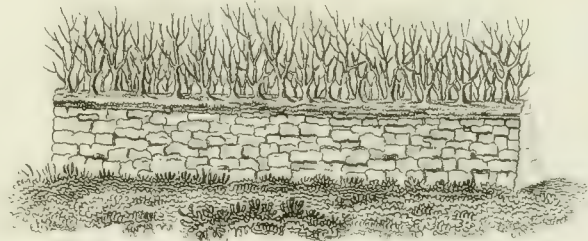
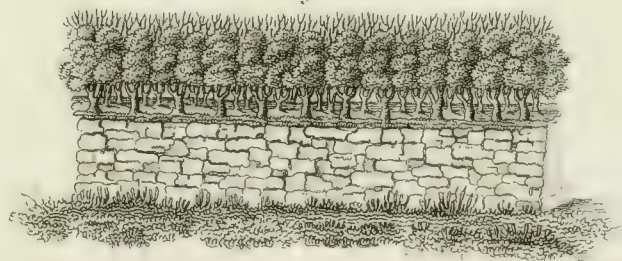


Fig. 6.



Fig. 12.





FENCES.

Fig. 1.

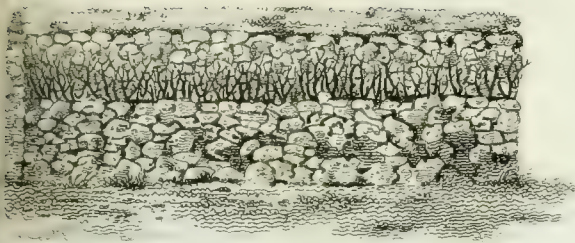


Fig. 7.

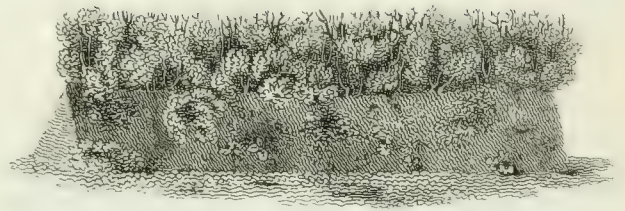


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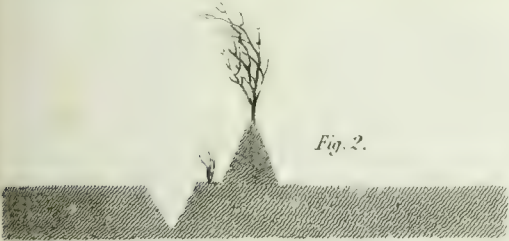


Fig. 8.

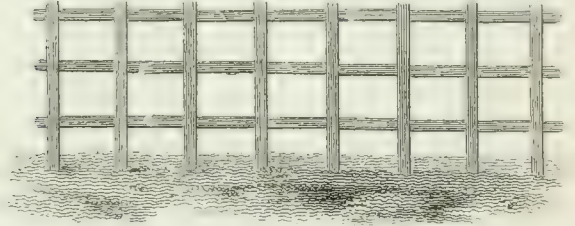


Fig. 3.



Fig. 9.

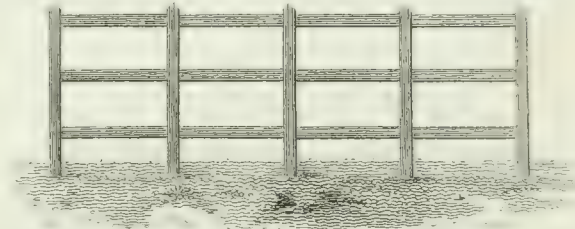


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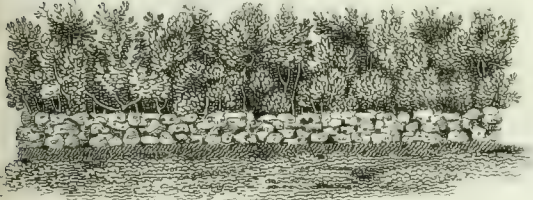


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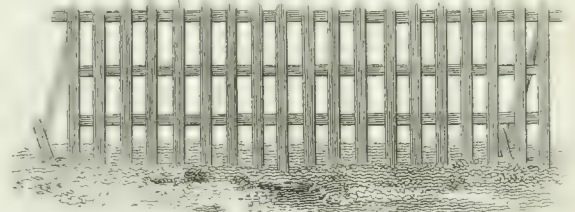


Fig. 5.



Fig. 11.

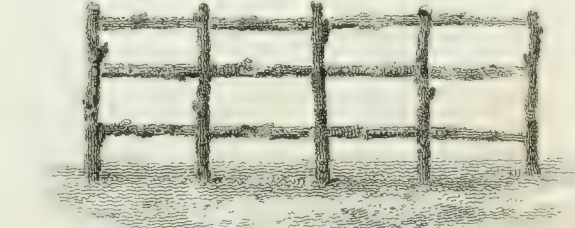


Fig. 6.



Fig. 12.





FENCES.

Fig. 1.

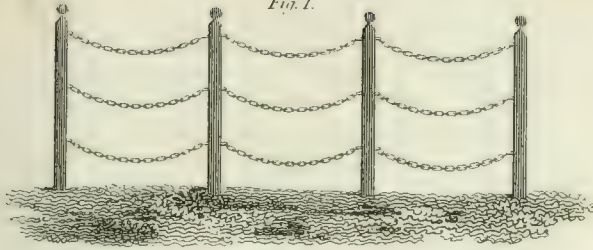


Fig. 7.

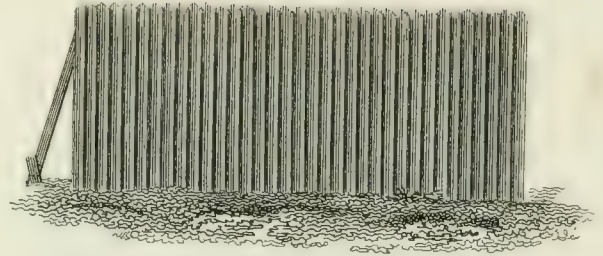


Fig. 2.

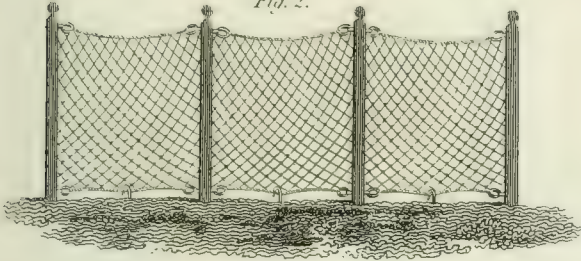


Fig. 8.

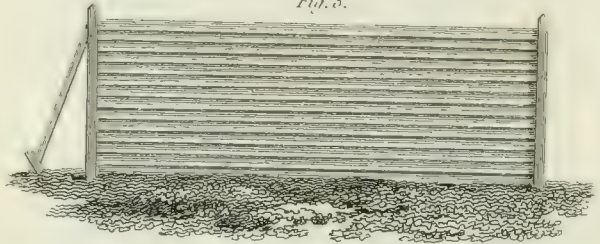


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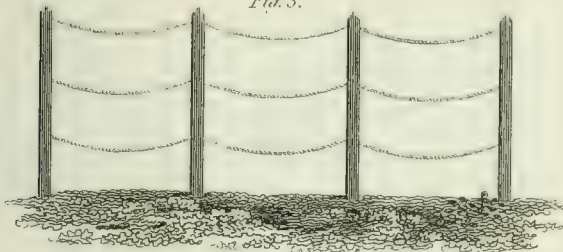


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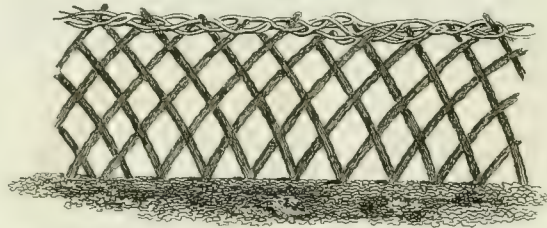


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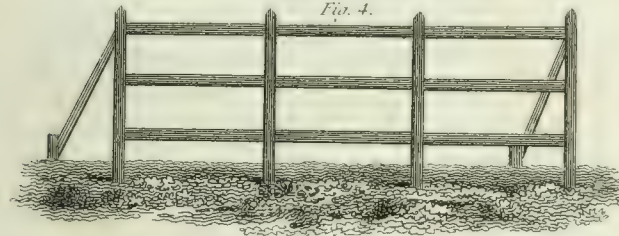


Fig. 10.

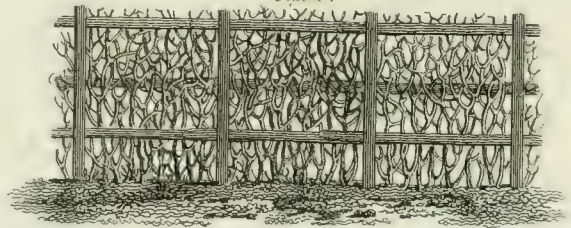


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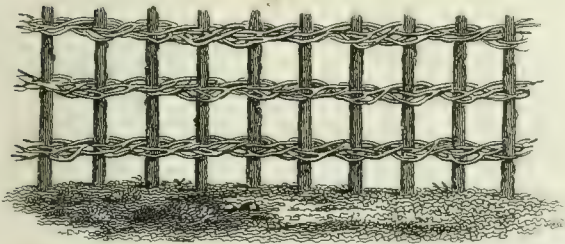


Fig. 11.

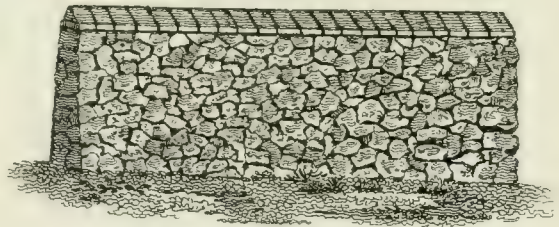


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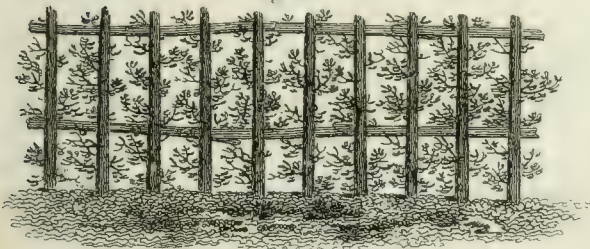
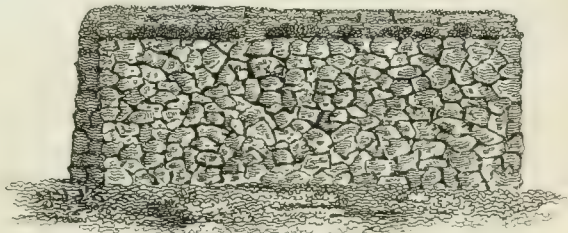


Fig. 12.





FENCES.

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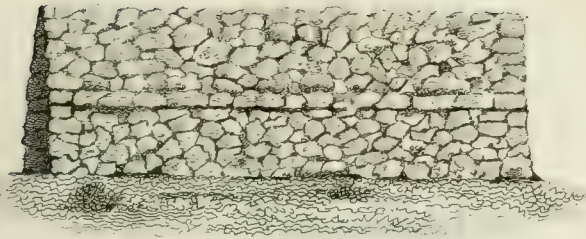


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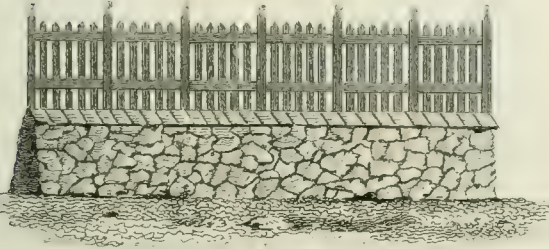


Fig. 3.

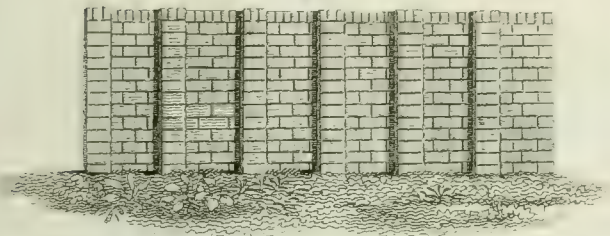


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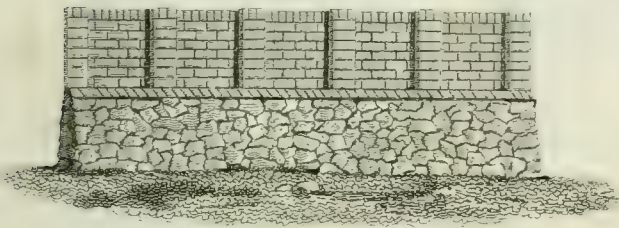


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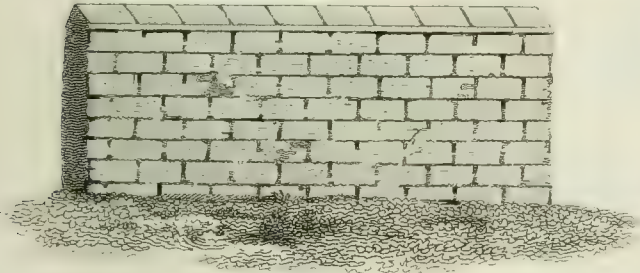


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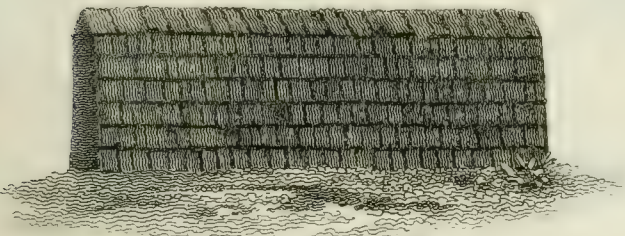


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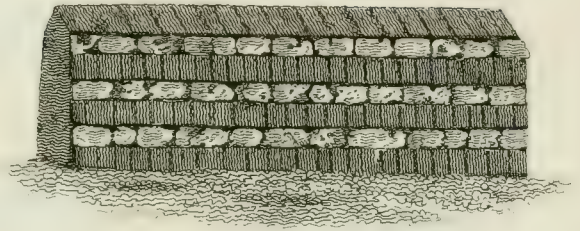


Fig. 8.

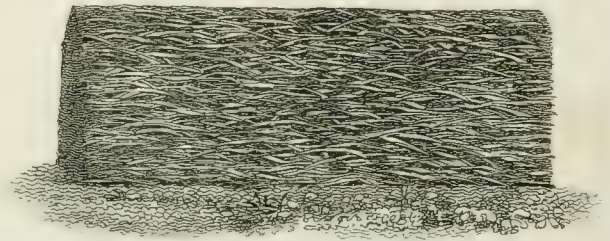


Fig. 9.



Fig. 10.



Fig. 11.

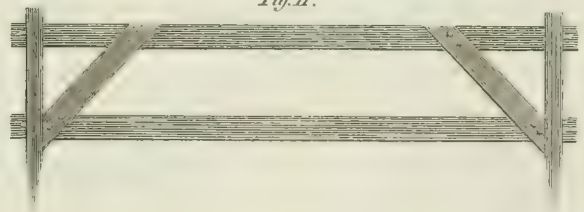
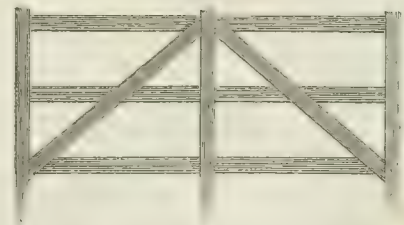
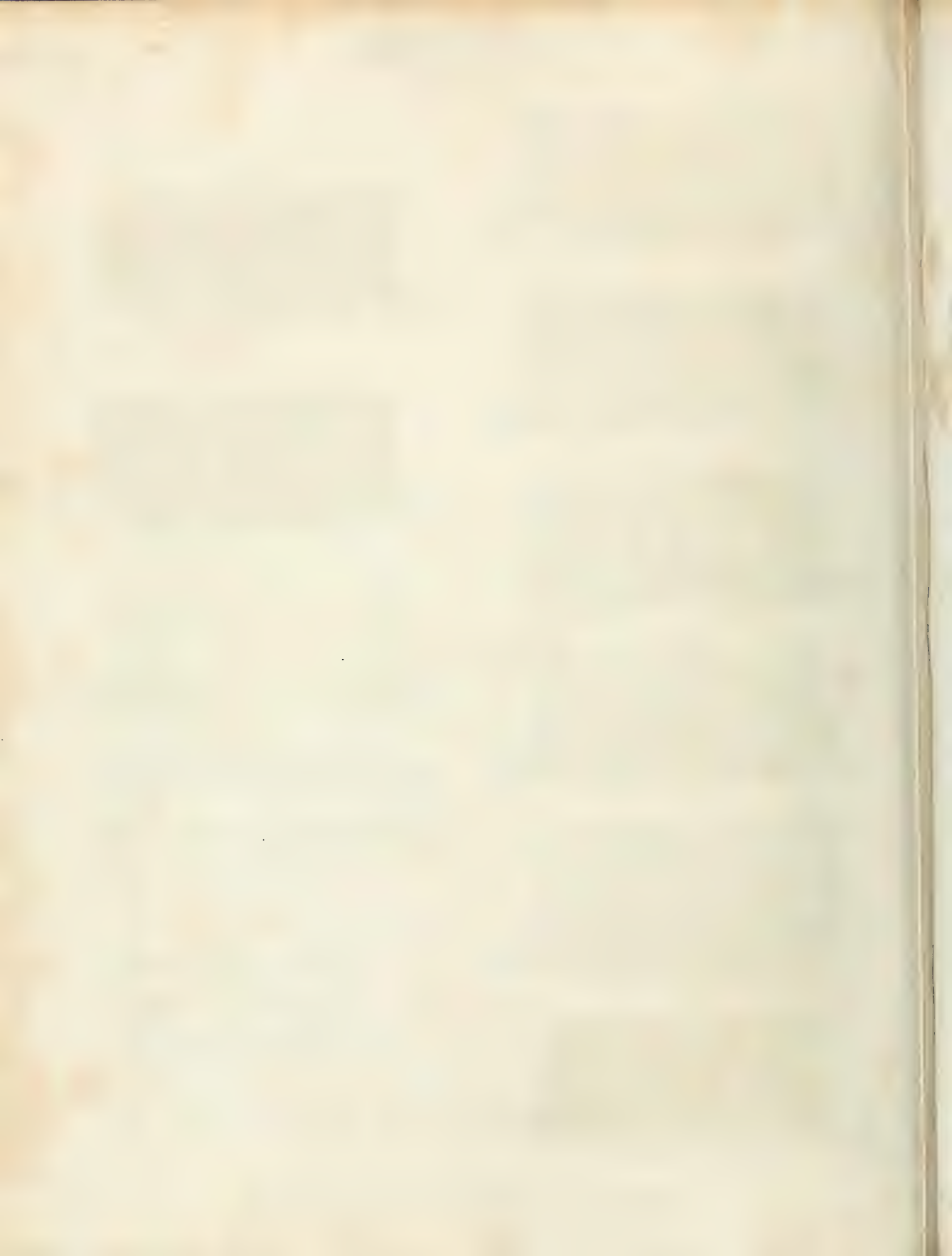


Fig. 12.





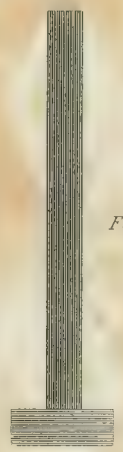
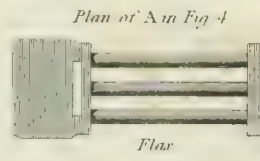
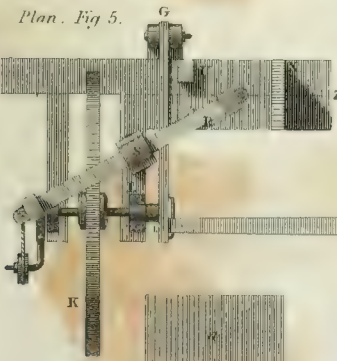
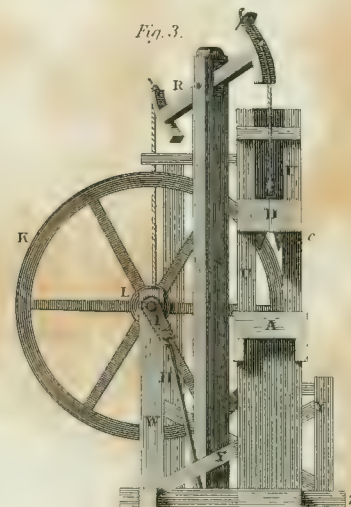
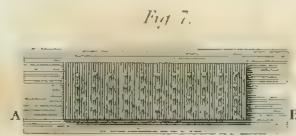
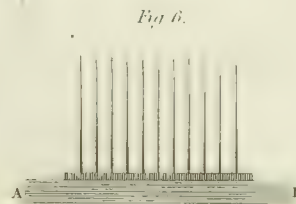
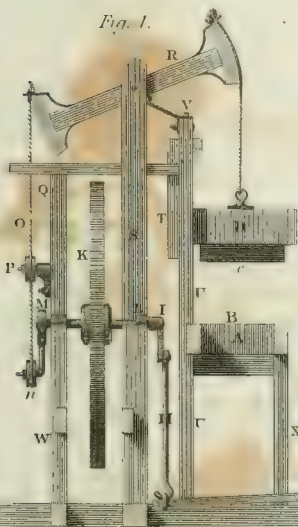
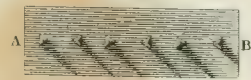
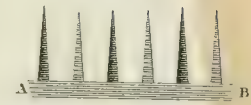
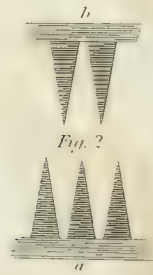






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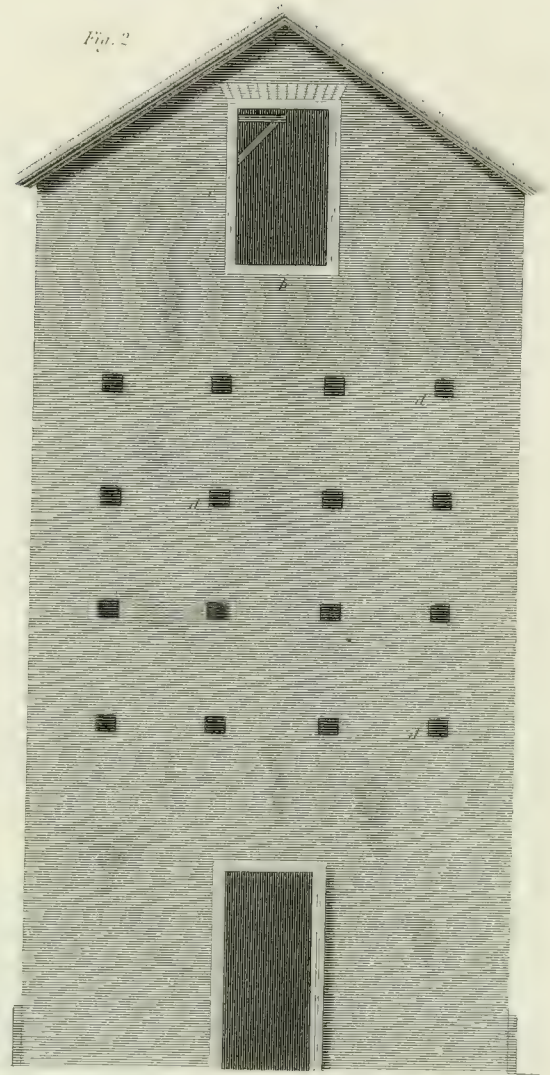


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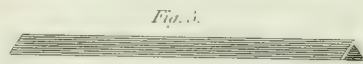


Fig. 3.

Fig. 5

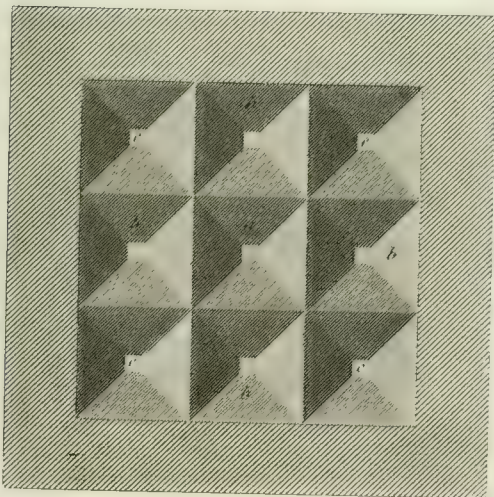
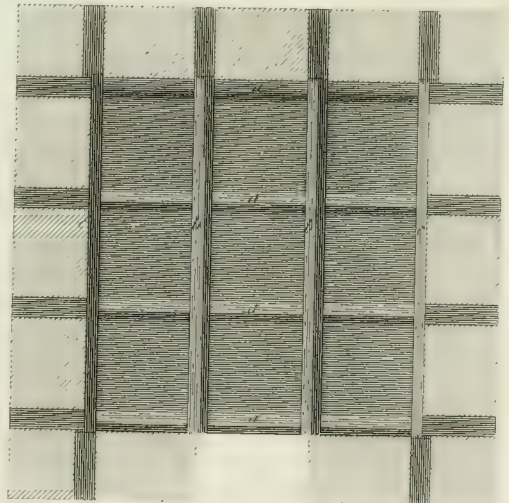
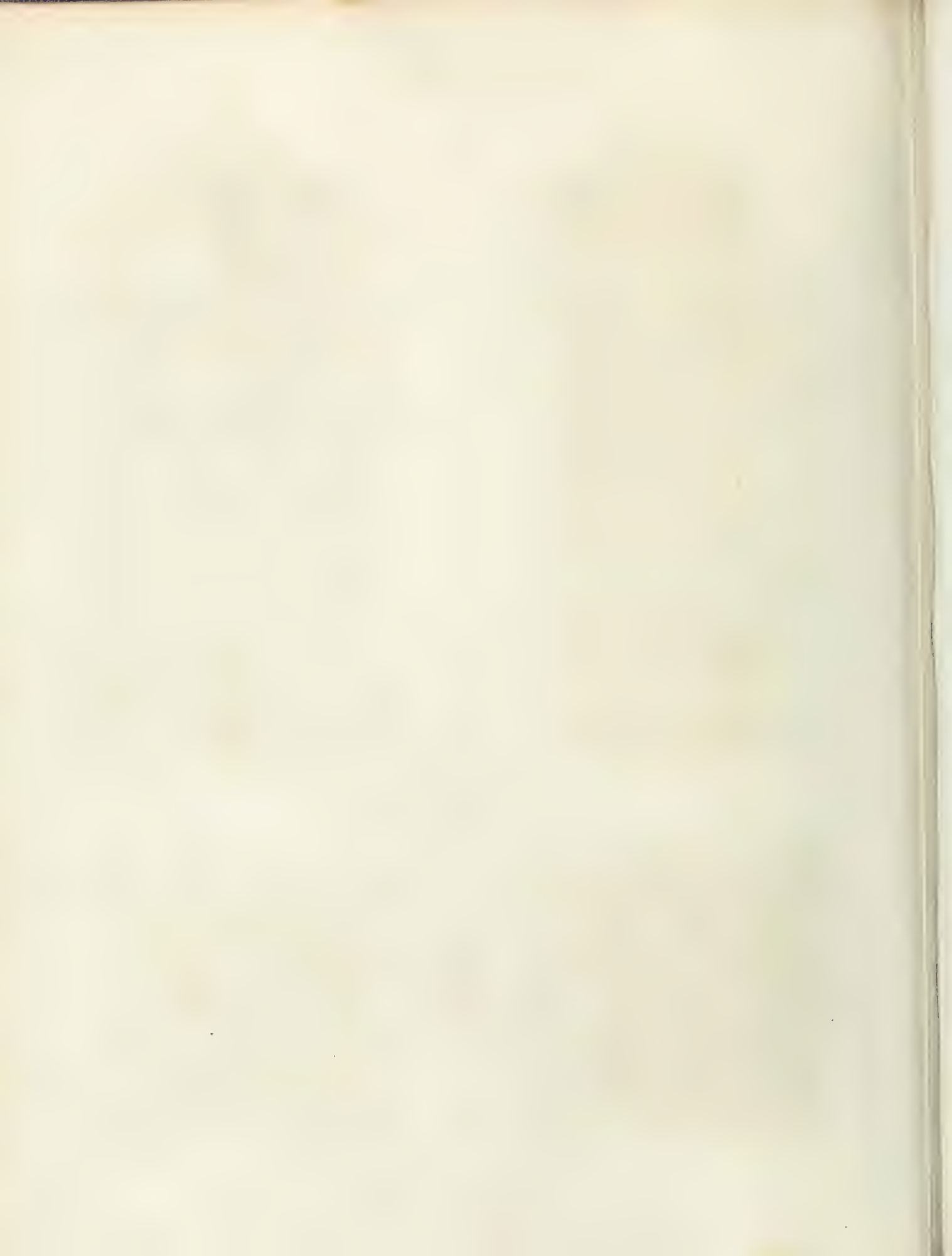


Fig. 5 Plan.



For Fig. 8, referred to in the Article **GRAZING**,
See Plate **GRAZING** and **HARROWS**.

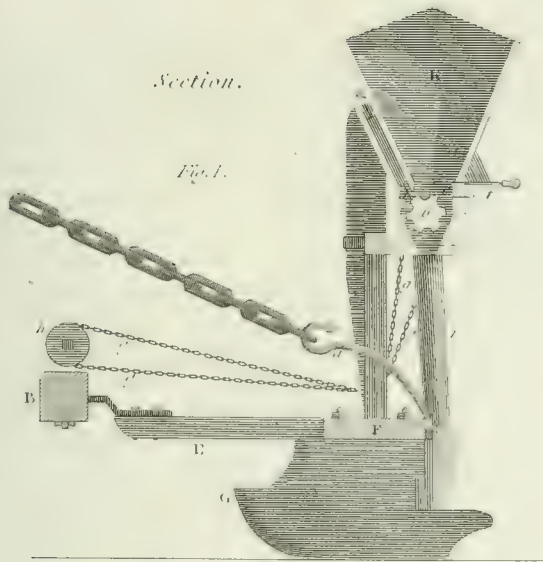


V

Fig. 2

Section.

Fig. 1.



Front

Elevation.

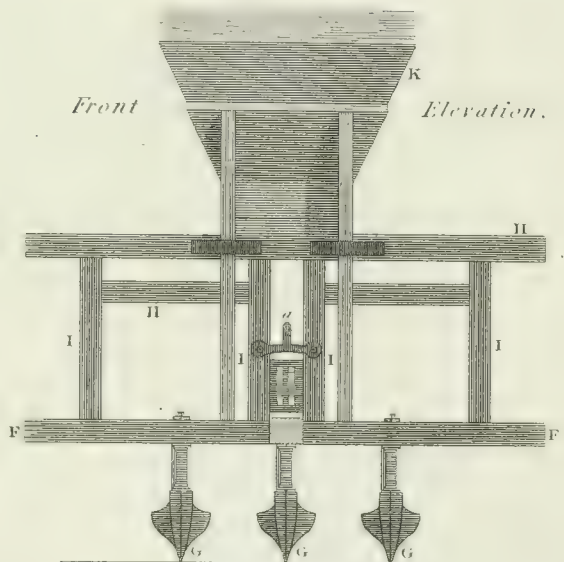
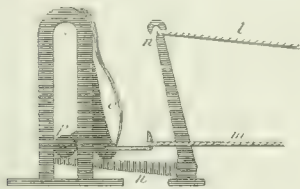


Fig. 3.



Perspective View of the Machine.

Fig. 4.

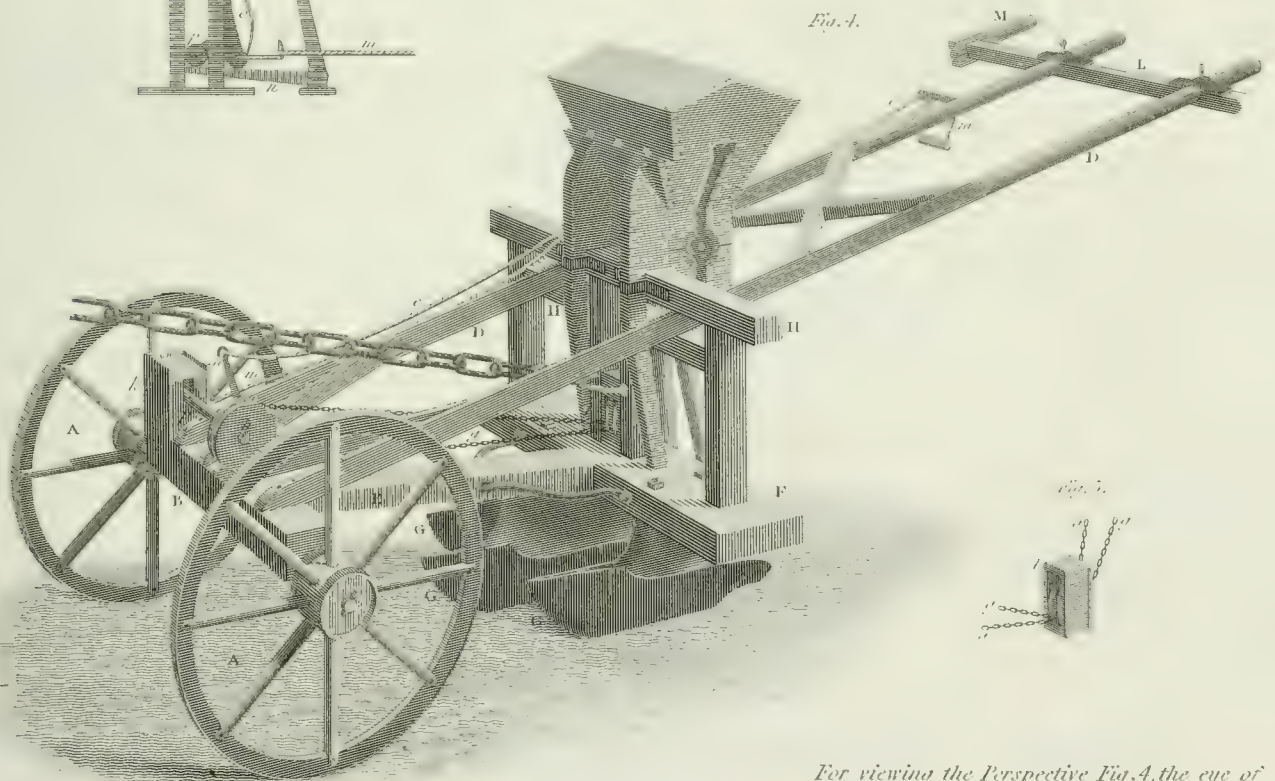
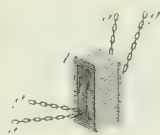
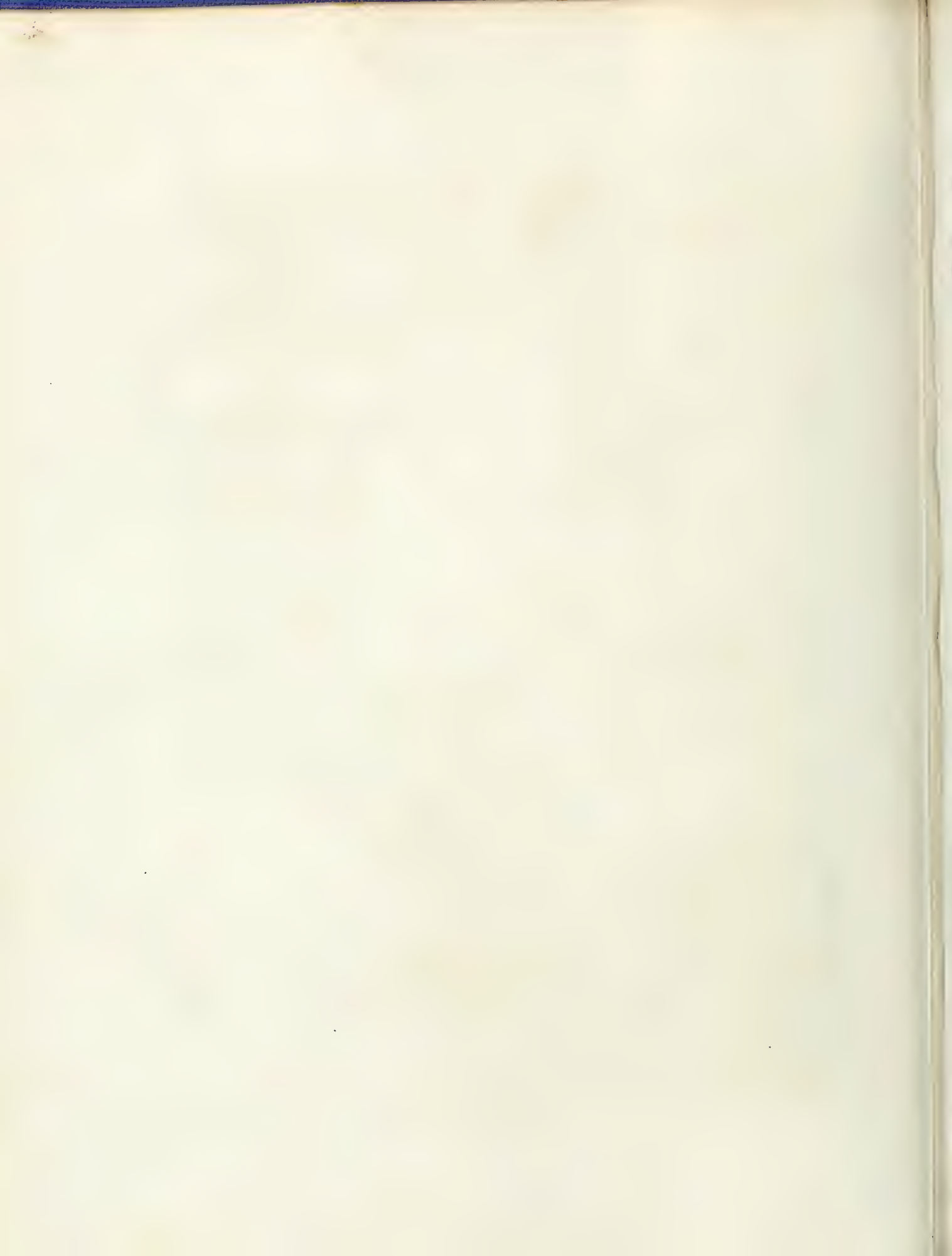


Fig. 5.



For viewing the Perspective Fig. 4, the eye of the observer should be placed at 12 inches perpendicular distance from the intersections of the line V.W.

W



M^r Charles Machine for Levelling Land.

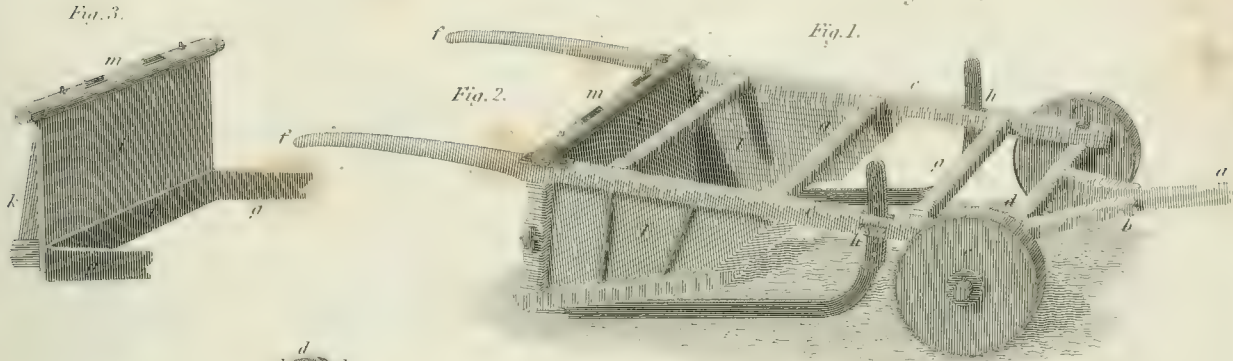
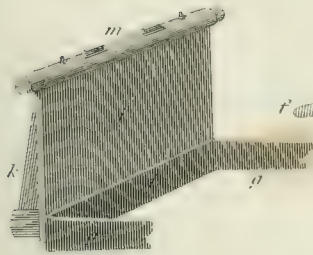
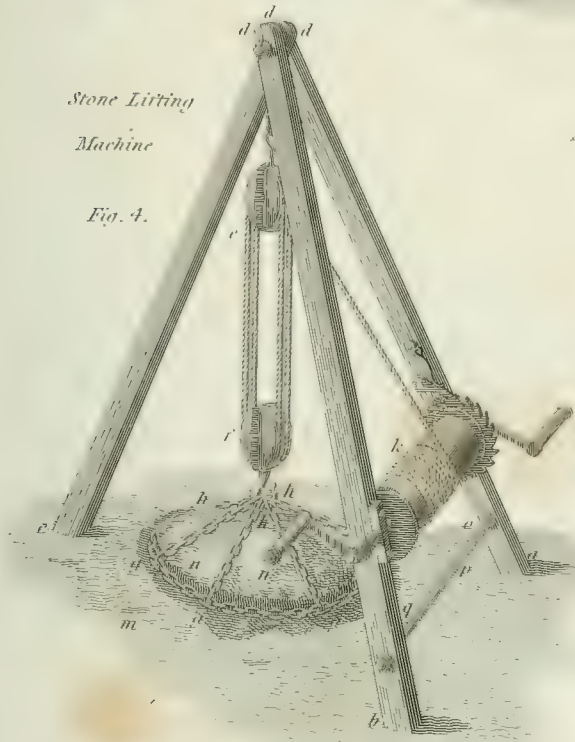


Fig. 3.



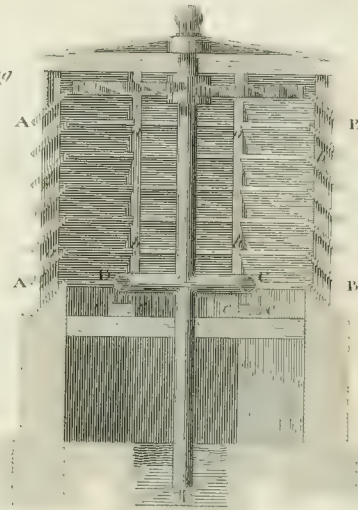
Stone Lifting Machine

Fig. 4.



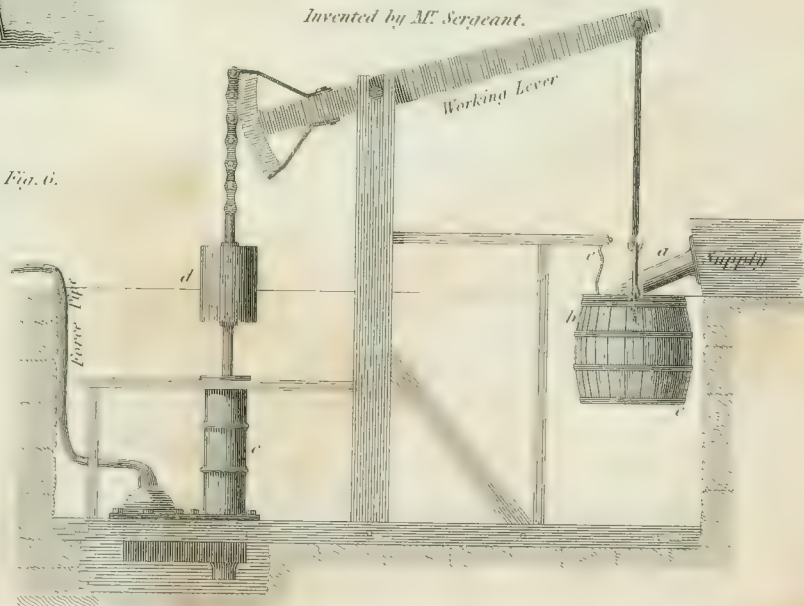
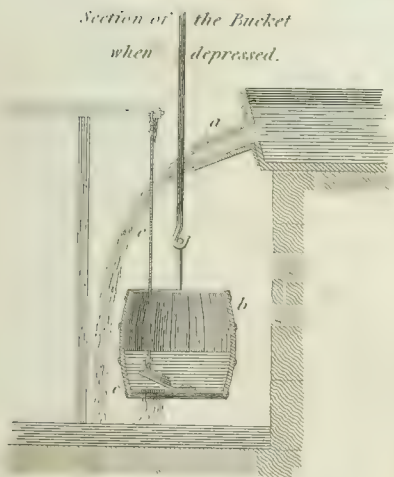
Machine for Raising Water.

Fig. 5.



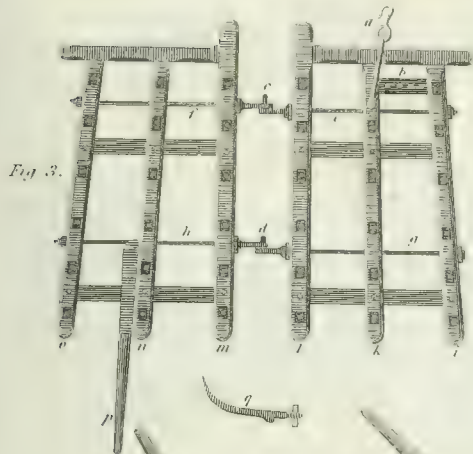
Machine for Raising Water, Invented by M^r Sergeant.

Fig. 6.

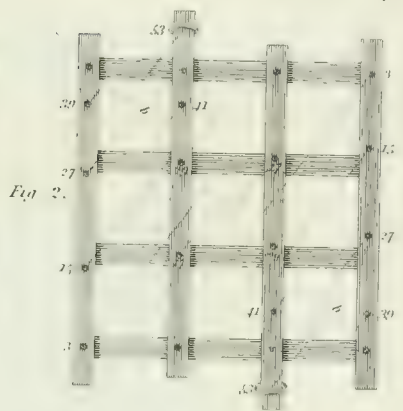




Double Jointed Harrow



Improved Harrow



Common Harrow

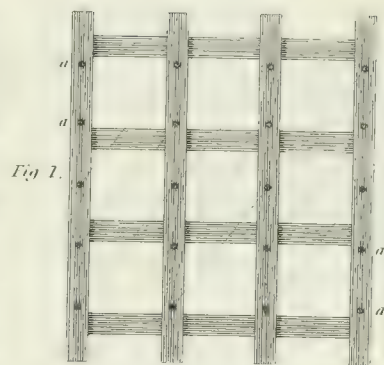
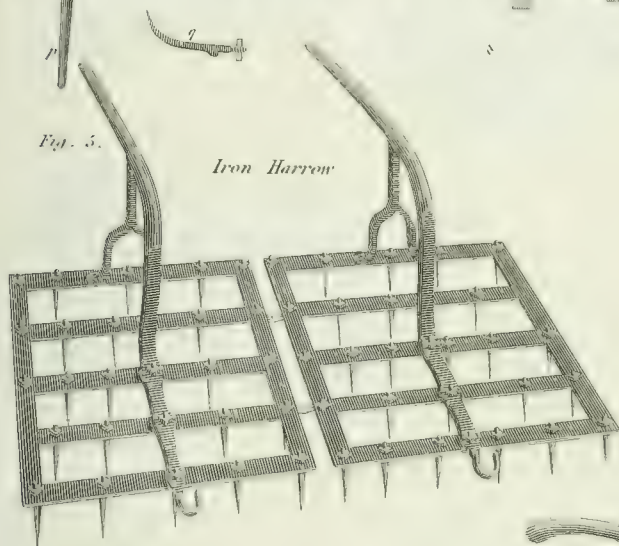


Fig. 5.

Iron Harrow



Double Harrow with top bar

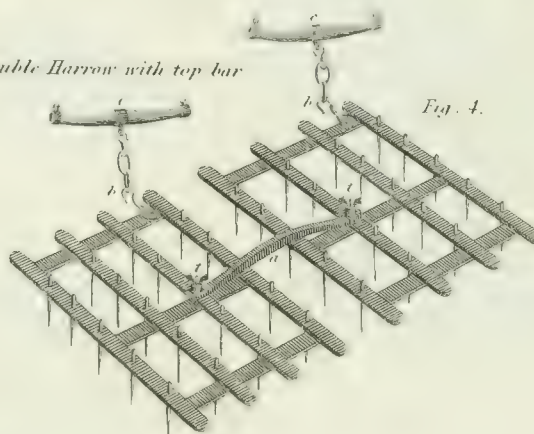


Fig. 4.

Fig. 8.

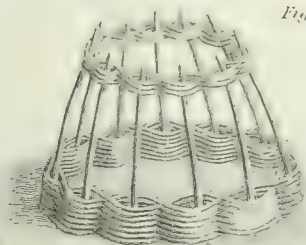


Fig. 6. Grass Harrow

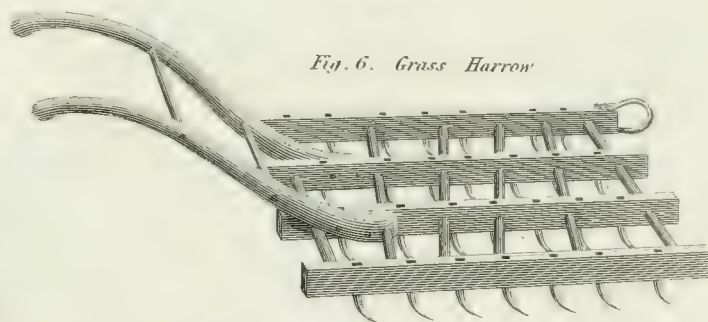
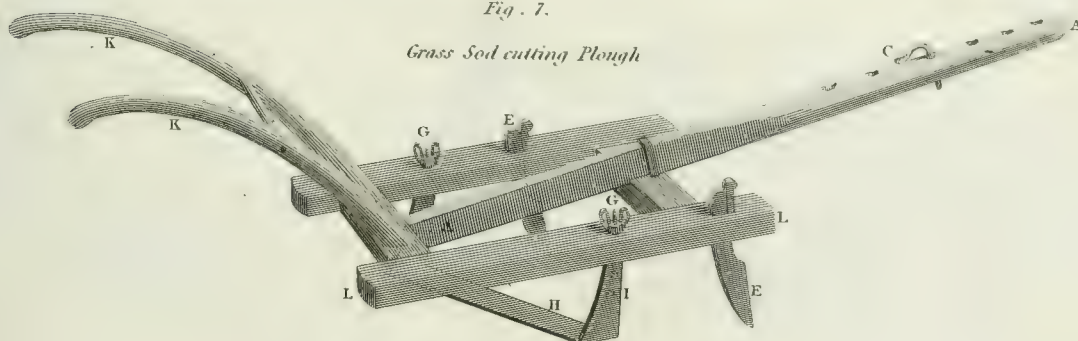
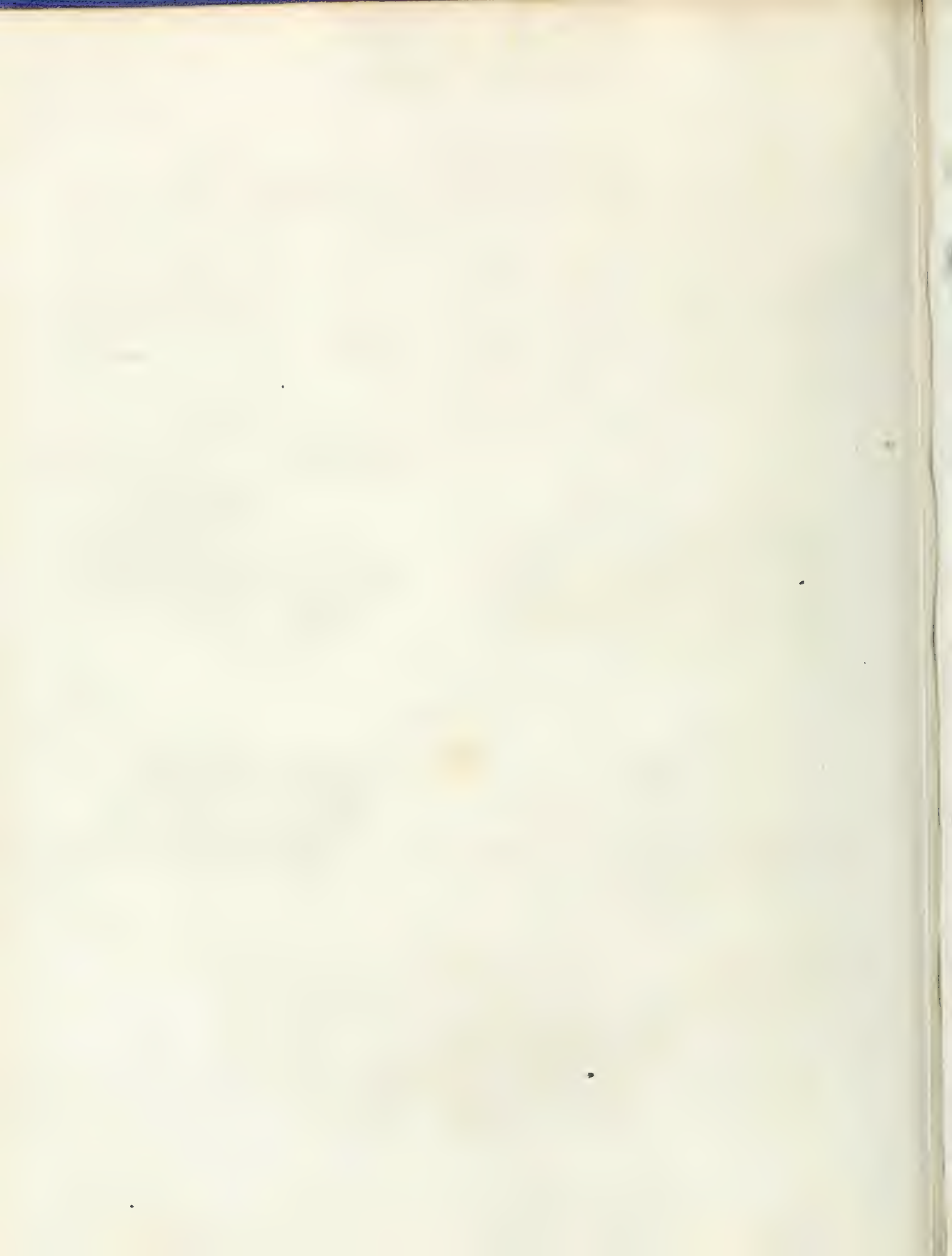


Fig. 7.

Grass Sod cutting Plough

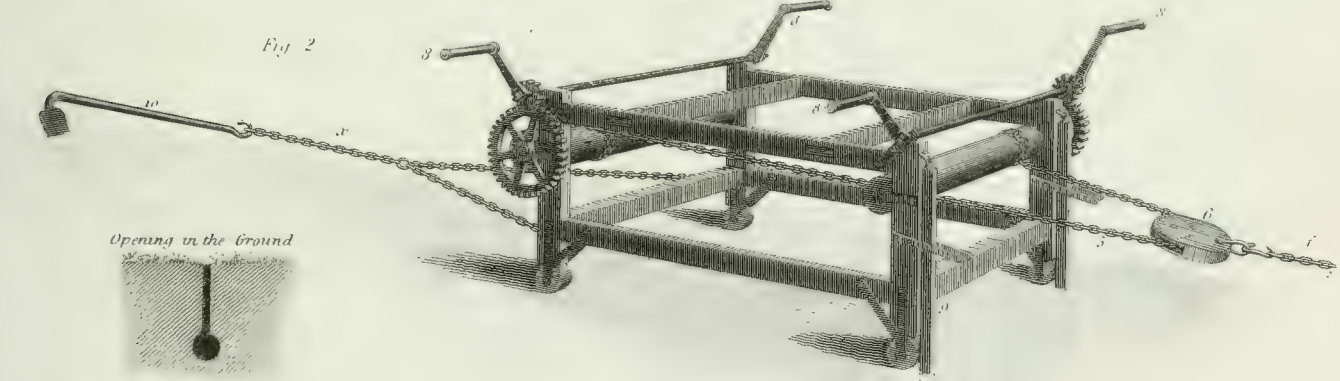
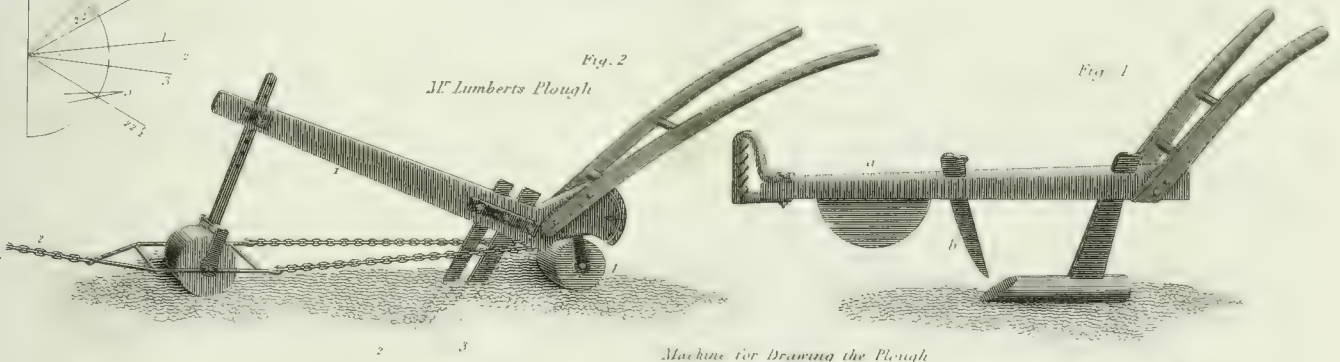


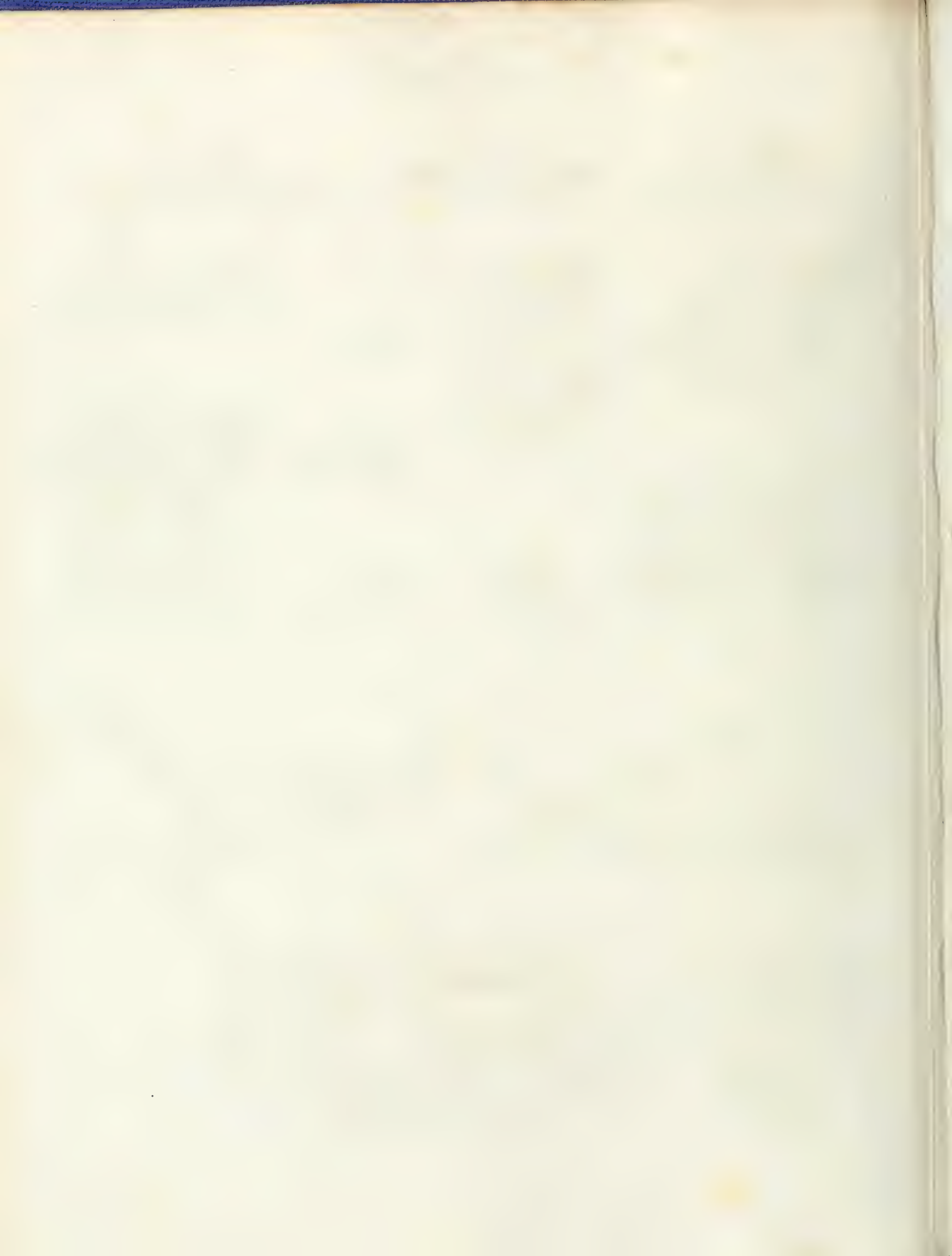


Mole Catching



Mole Ploughs





SWING PLOUGHS.

Fig. 1.

Rotherham Plough.

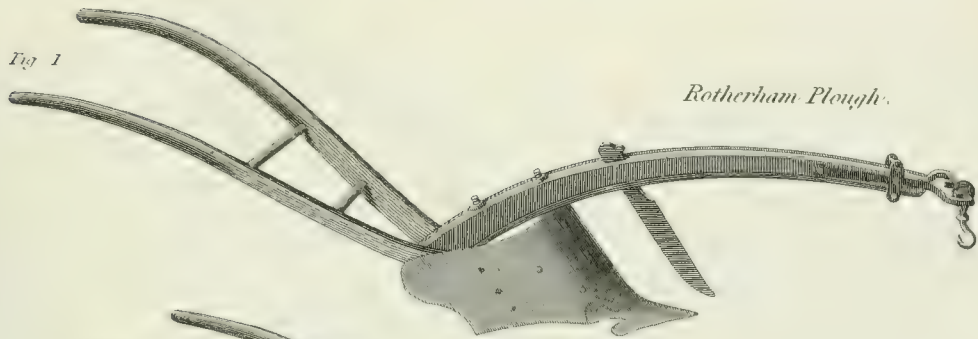


Fig. 2.

Small's Chain Plough.

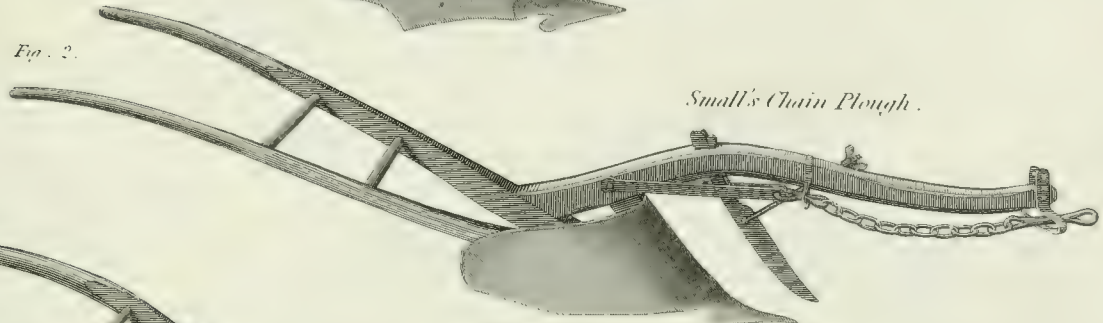


Fig. 3.

L^d Sommerville's.

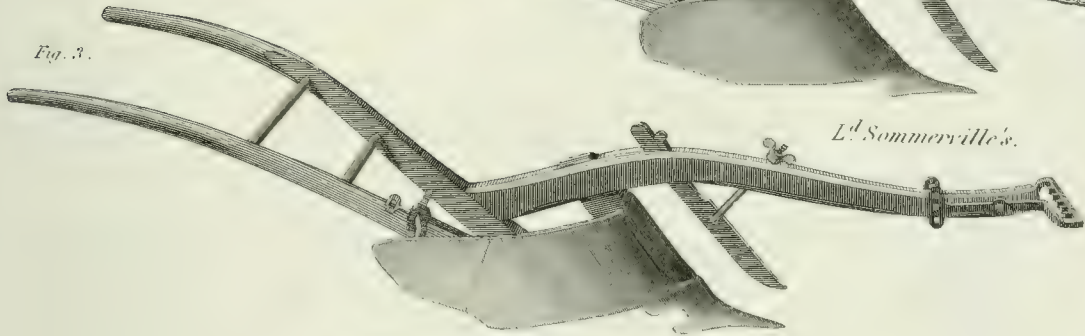


Fig. 4.

Suffolk Iron Plough.



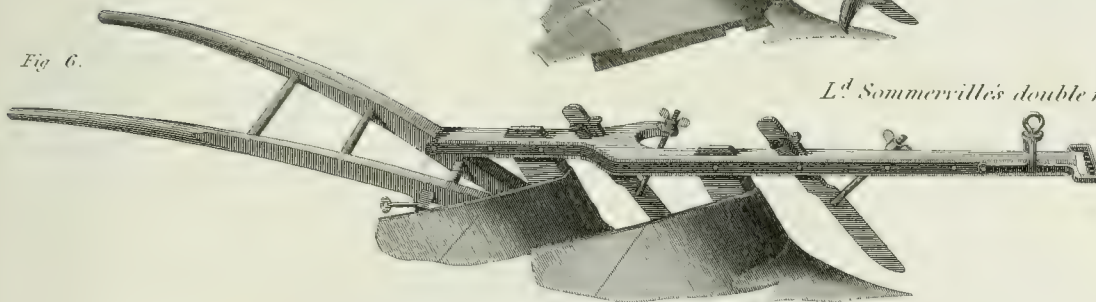
Fig. 5.

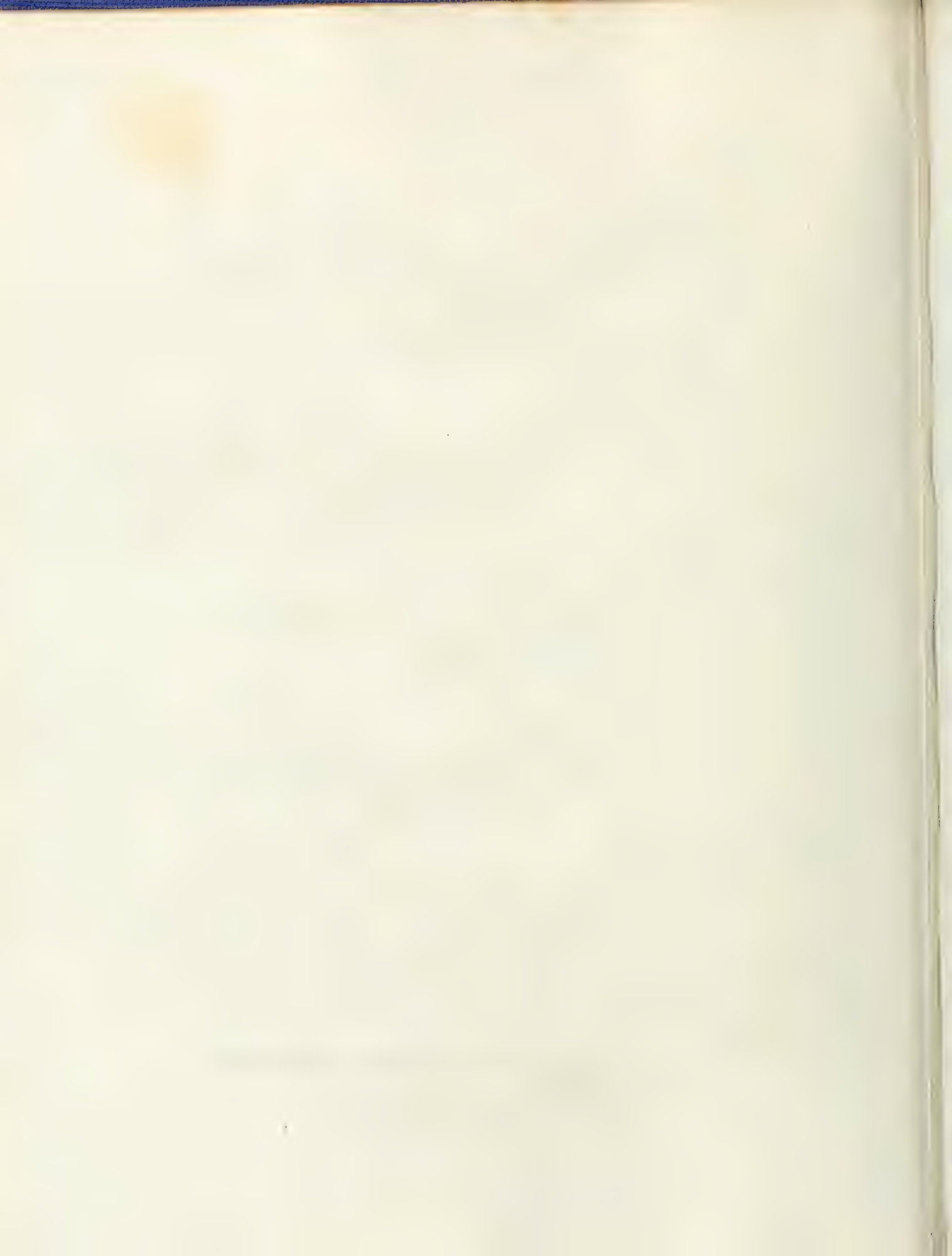
Duckets Skim coulter.



Fig. 6.

L^d Sommerville's double furrow.





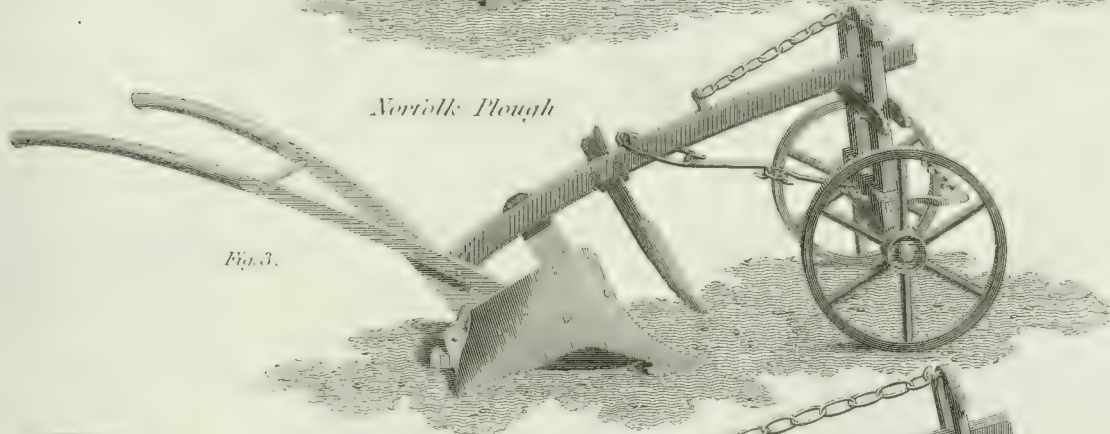
WHEEL PLOUGHS.



Beverstone Plough



*Hampshire Patent
Iron Plough*



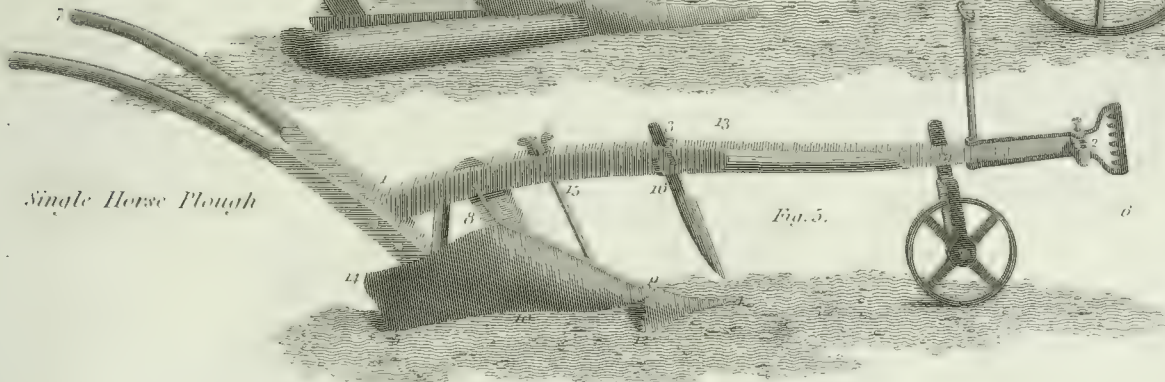
Norfolk Plough

Fig. 3.



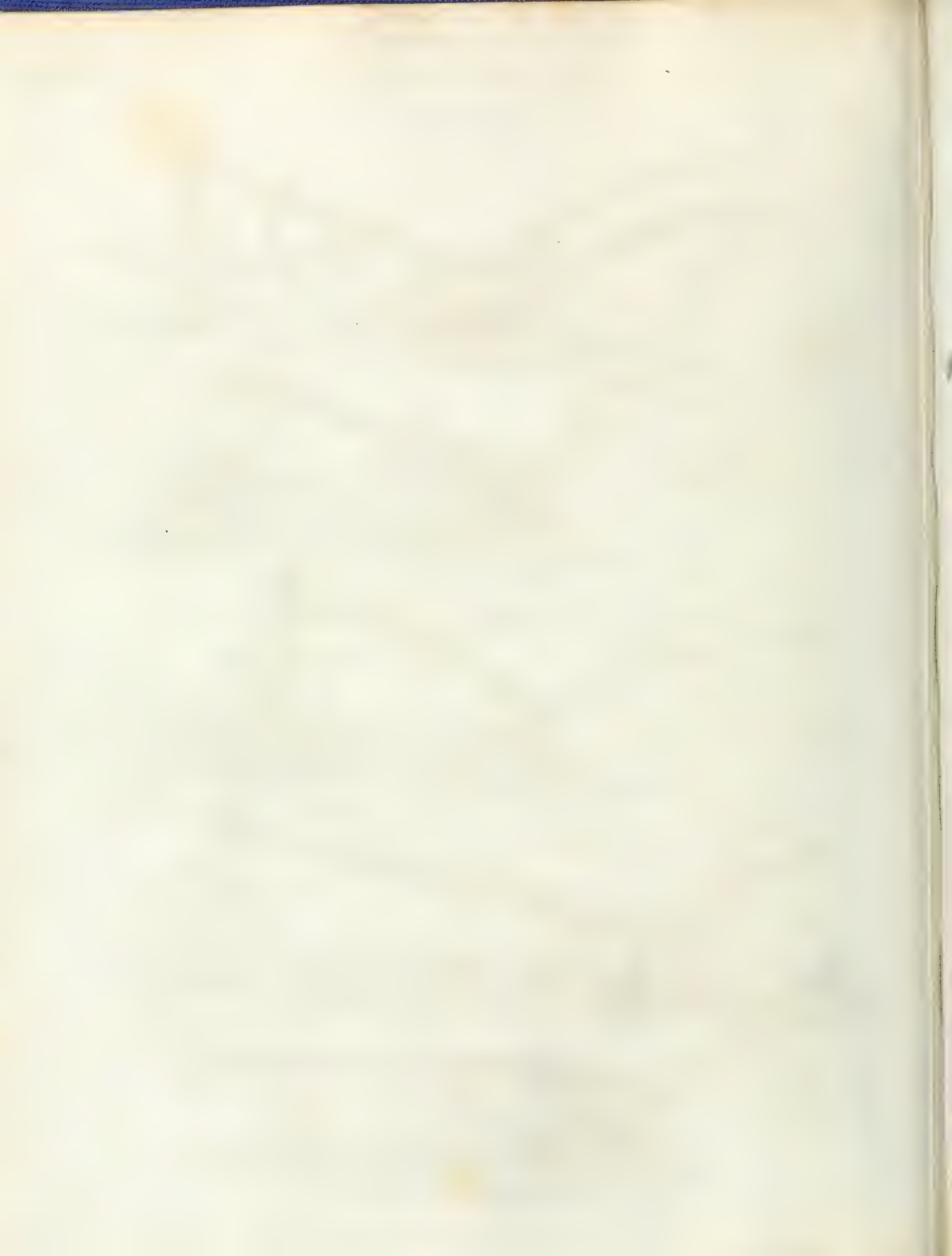
*Kentish Turnwrist
Plough*

Fig. 4.



Single Horse Plough

Fig. 5.



AGRICULTURE.
PARING PLOUGHS & TOOLS.

Cheshire Paring Plough, furrow side view.

Fig. 1.

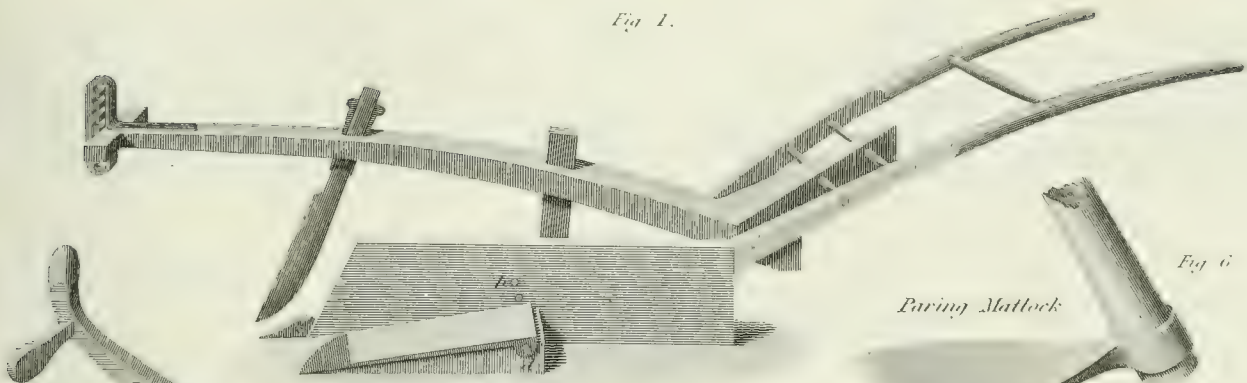
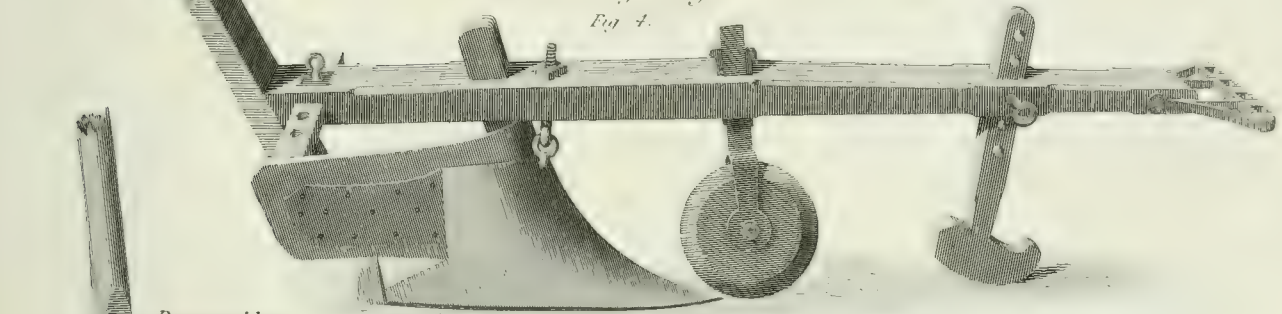


Fig. 6.

Paring Matlock

Common Paring Plough

Fig. 4.



Paring Adze

Fig. 8.

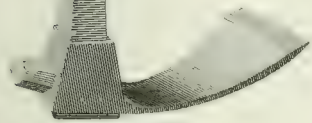


Fig. 7.

*Twobill
for Paring*

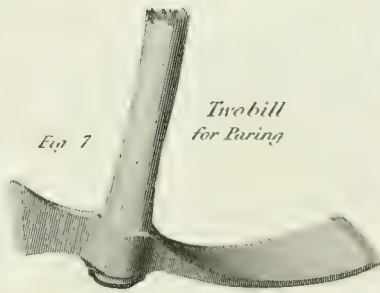


Fig. 2.

Land side view

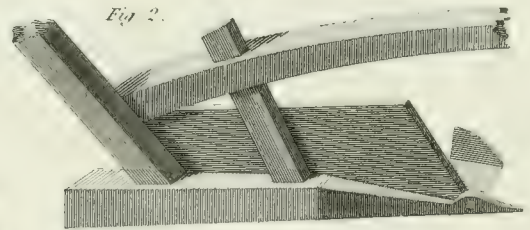
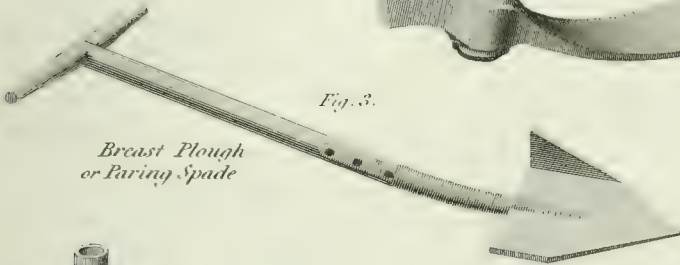


Fig. 3.

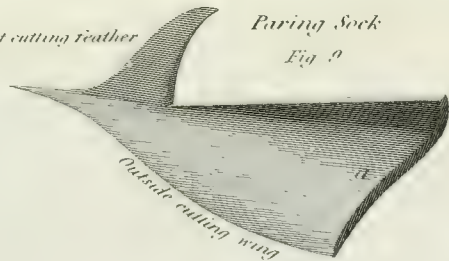
*Breast Plough
or Paring Spade*



Upright cutting leather

Paring Sock

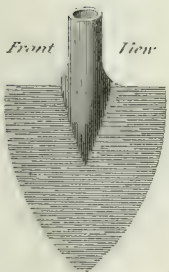
Fig. 9.

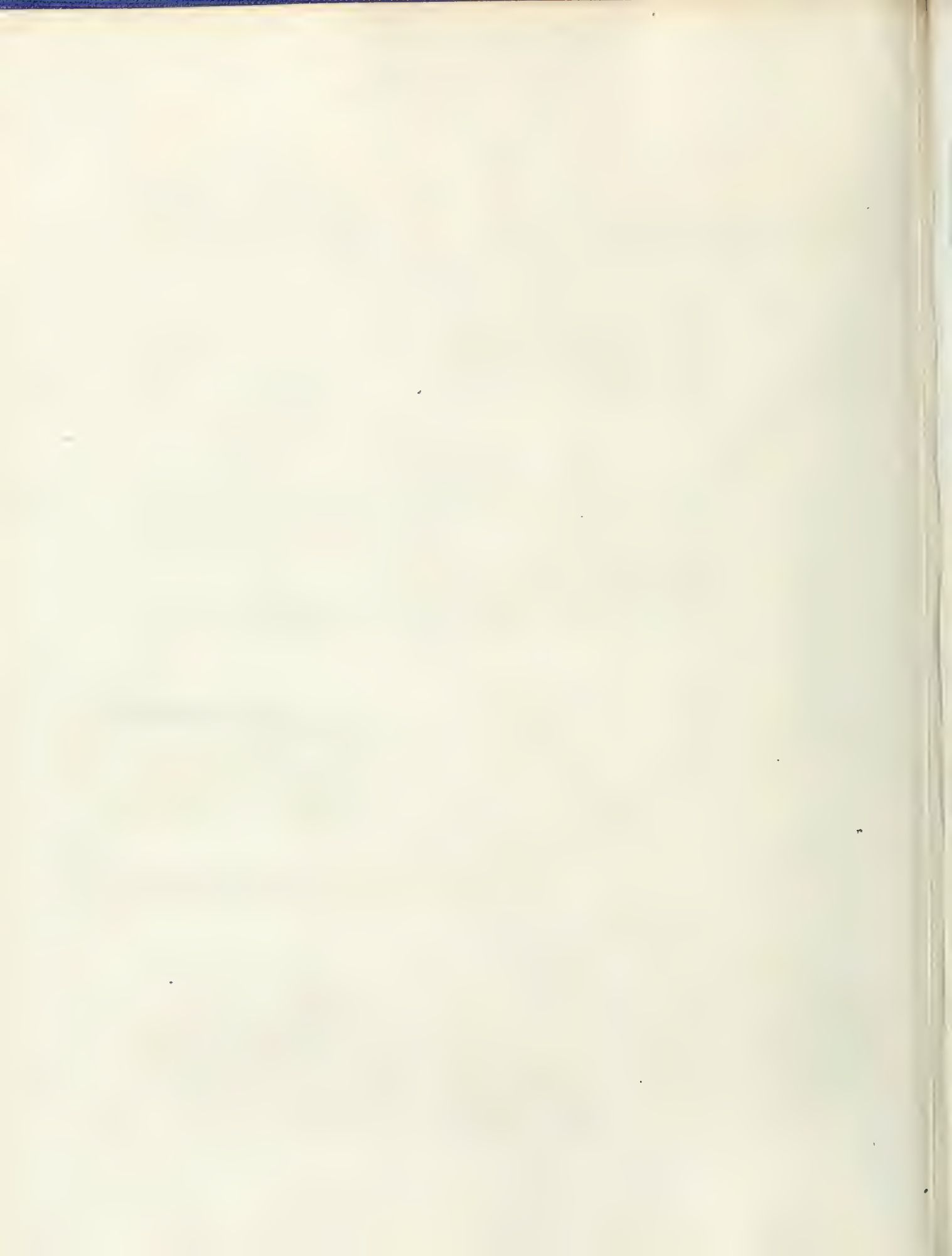


Front View

Paring Shovel

Fig. 5.





P I S É .

Implements for Pisé or Rammed Earth Buildings.

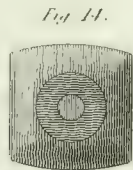
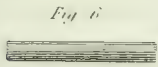
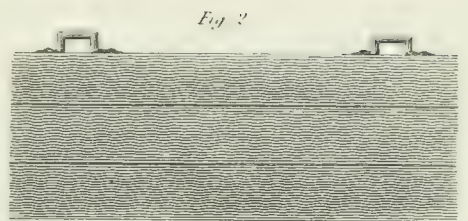
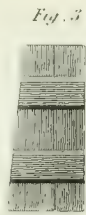
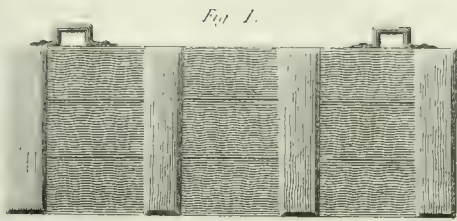


Fig. 12

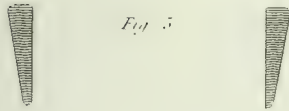
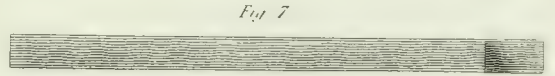


Fig. 5

Fig. 13

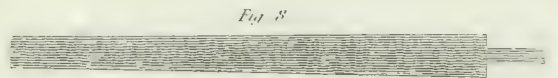


Fig. 8

Fig. 9

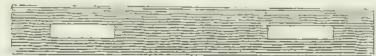


Fig. 10

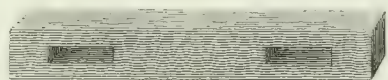


Fig. 15

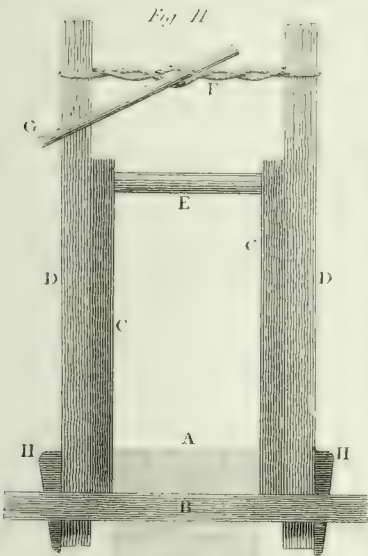
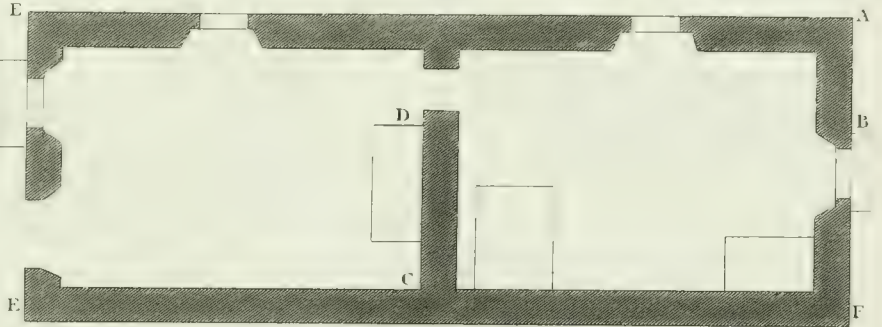


Fig. 11

Fig. 16

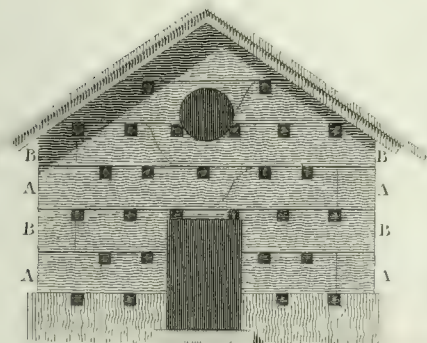
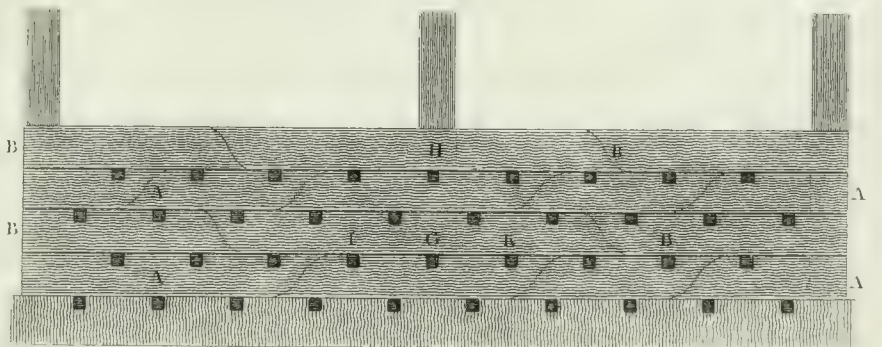


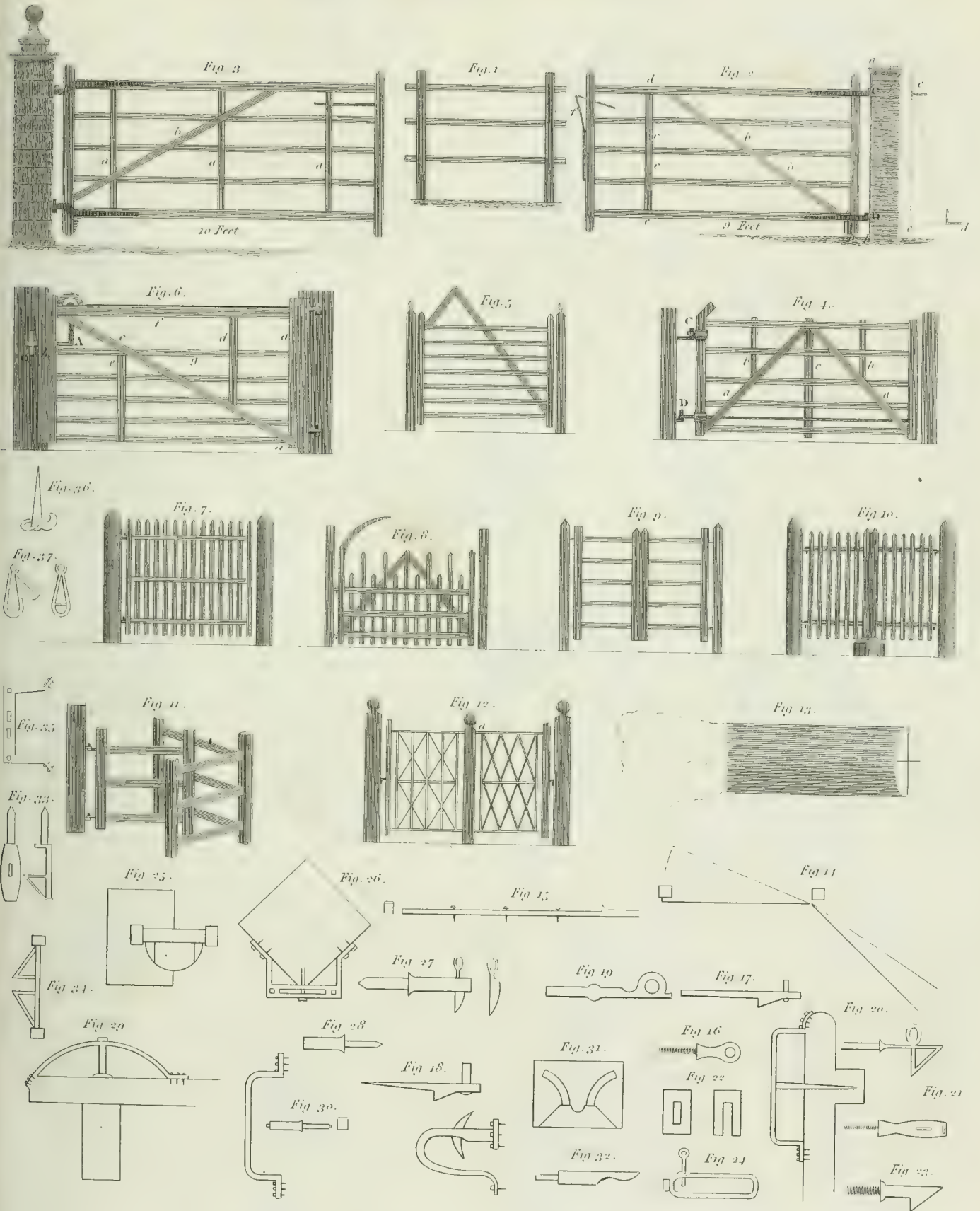
Fig. 17





AGRICULTURE.

GATES, HANGINGS AND FASTENINGS.



GRASSES.



NATURAL GRASSES

- 1 Crested Vernal G. *Lolium odoratum*
- 2 Foxtail G. *Poa pratensis*
- 3 Smooth Stalked Meadow G. *Poa pratensis*
- 4 Hard Fescue G. *Festuca duriuscula*
- 5 Common Ry G. *Lolium perenne*

- 6 Rough Stalked M.G. *Poa trivialis*
- 7 Flat Meadow G. *Poa compressa*
- 8 Meadow Fescue G. *Festuca pratensis*
- 9 Marsh Meadow G. *Poa palustris*
- 10 Crested Dogstail G. *Cynosurus cristatus*
- 11 Knot Grass *Phleum nodosum*

ARTIFICIAL GRASSES

- 12 Red or Broad Clover *Trifolium pratense*
- 13 Lucern *Medicago sativa*
- 14 Saintfoin *Hedysarum onobrychis*
- 15 Rough Cocksfoot G. *Dactylis glomerata*
- 16 White or Dutch C. *Trifolium repens*
- 17 Trefoil *Medicago lupulina*

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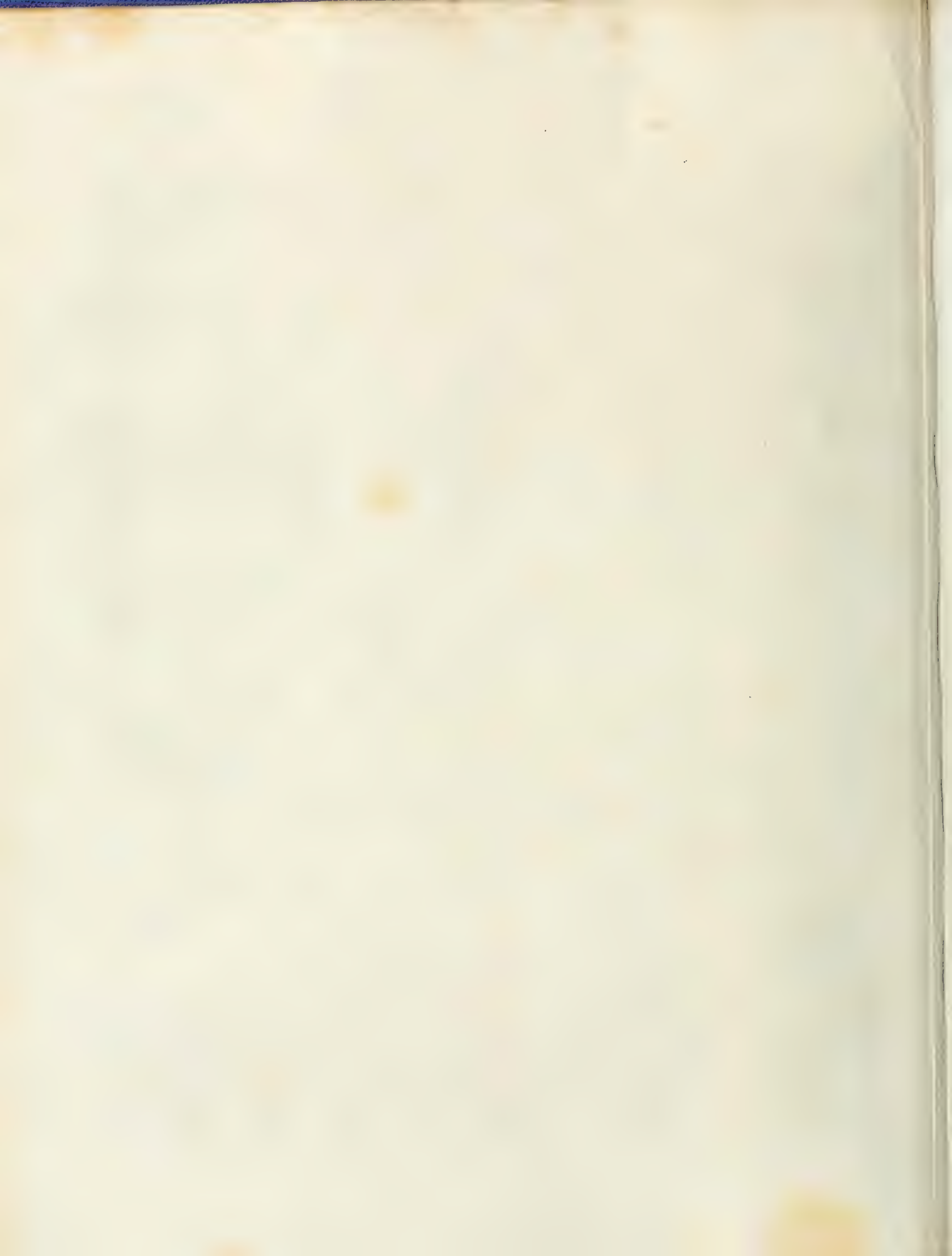


Fig. 3.
Kiln for General Use.

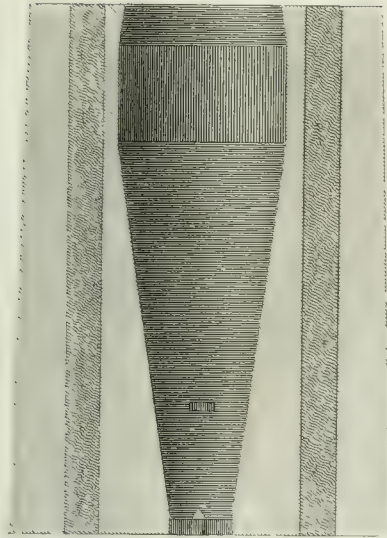


Fig. 2.
M^r Rawson's Kiln.

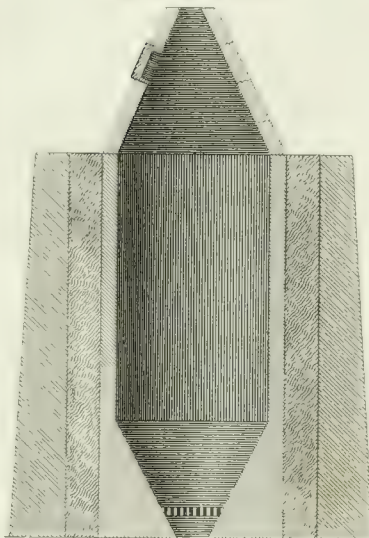
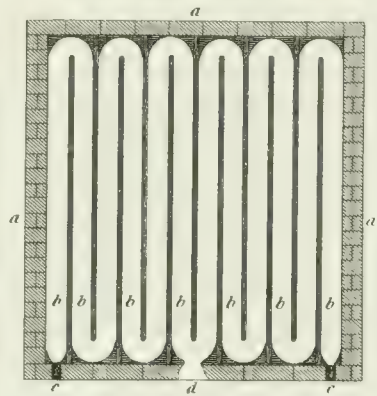


Fig. 8.
M^r Coppinger's Malt Kiln.



M^r Pepper's Malt Kiln.

Fig. 6. Plan of the Floor of the Kiln.

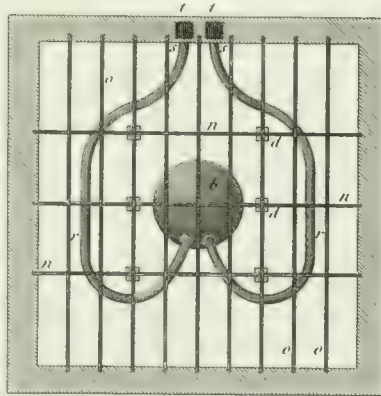
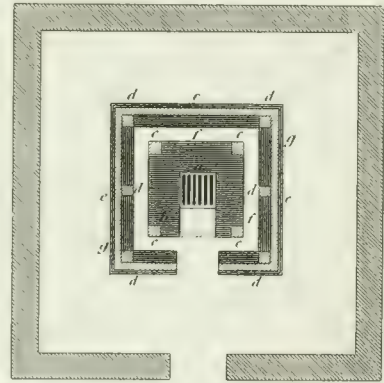


Fig. 4. Ground Plan.



Count Rumford's
Lime Kiln.

Fig. 1.



Section of the Chimney.

Fig. 7.

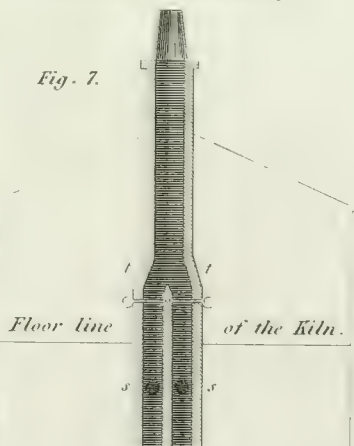
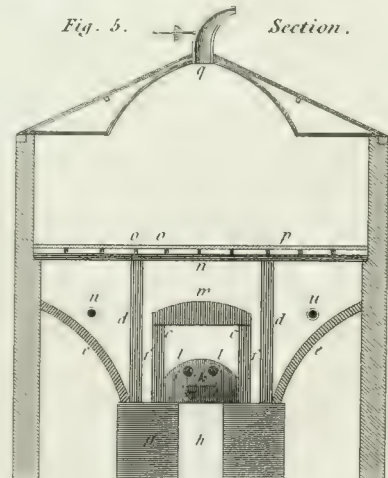
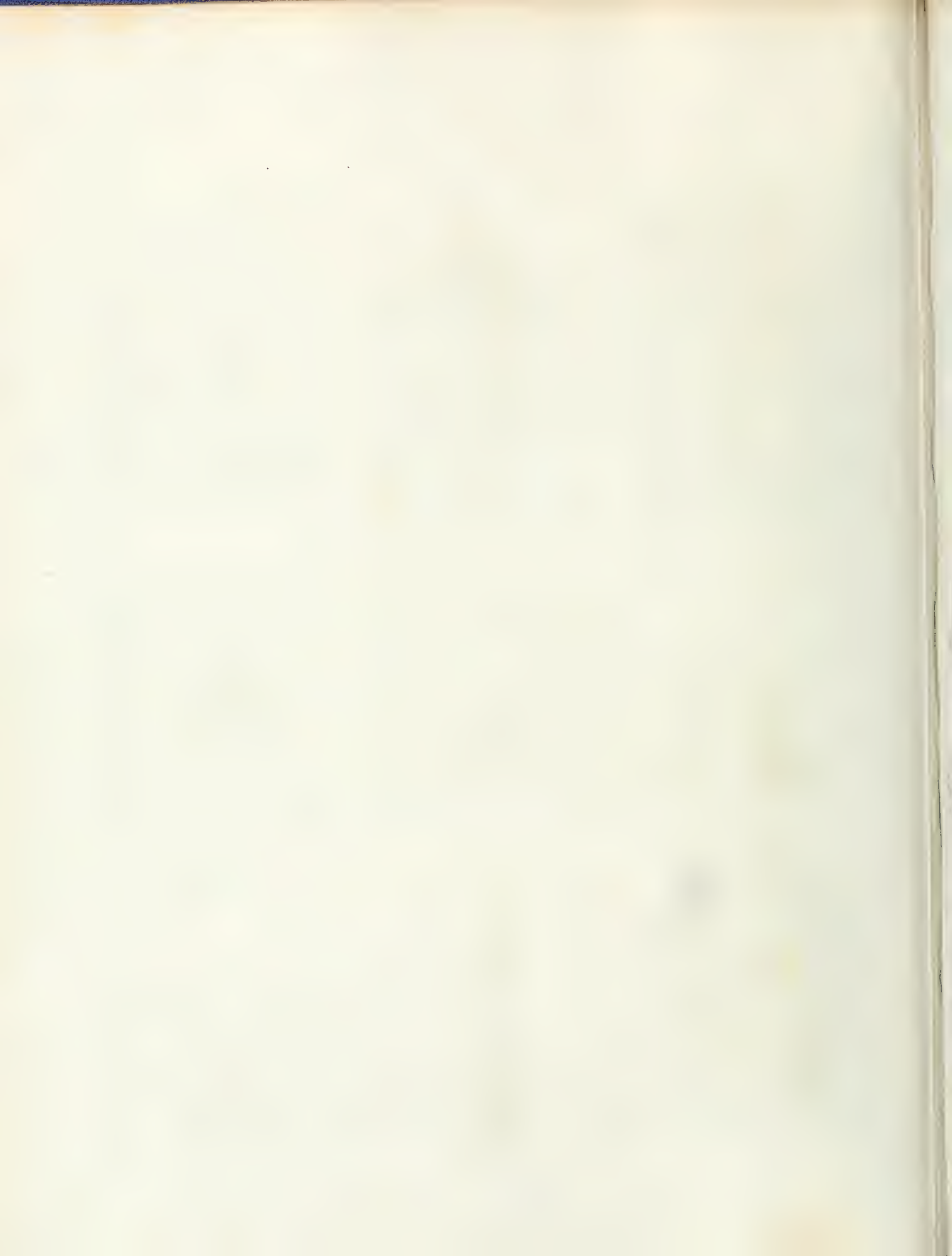


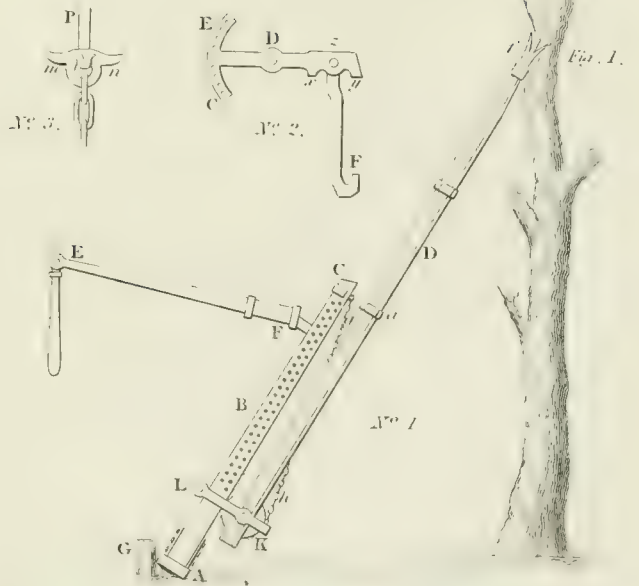
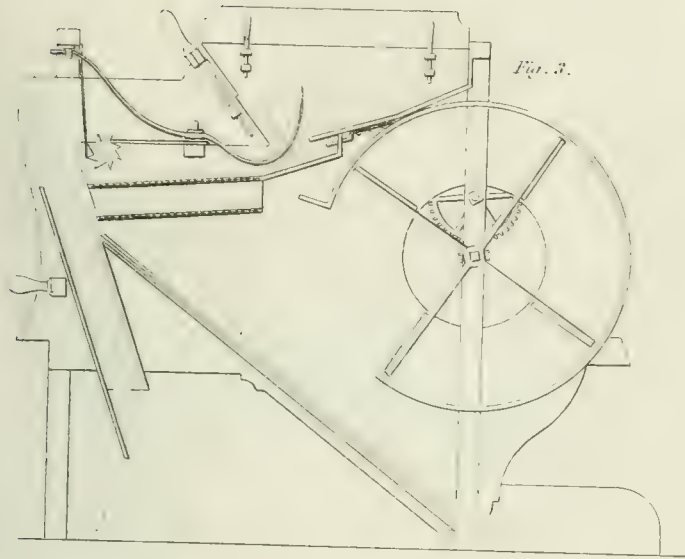
Fig. 5. Section.





Fan Machine.

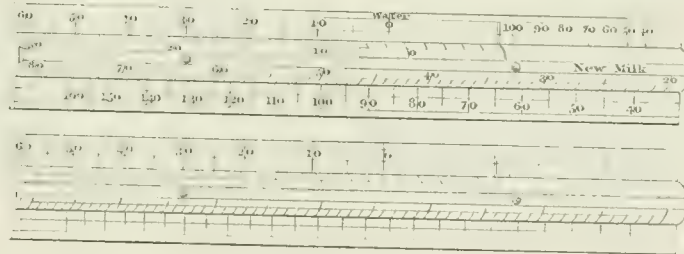
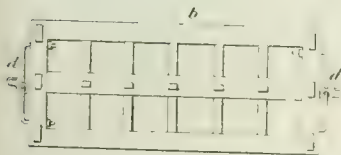
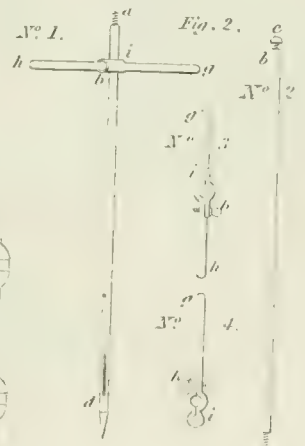
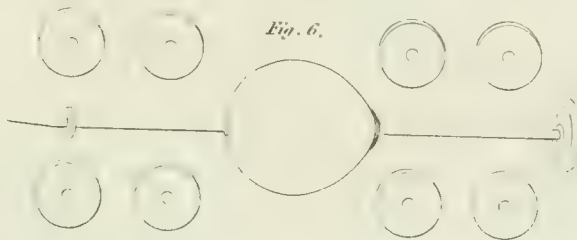
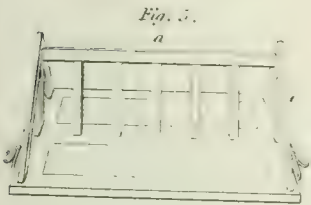
Berne Machine.



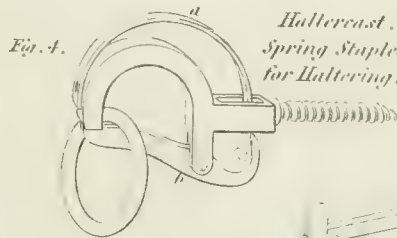
Yorkshire Hay Sweep.

Lactometer.

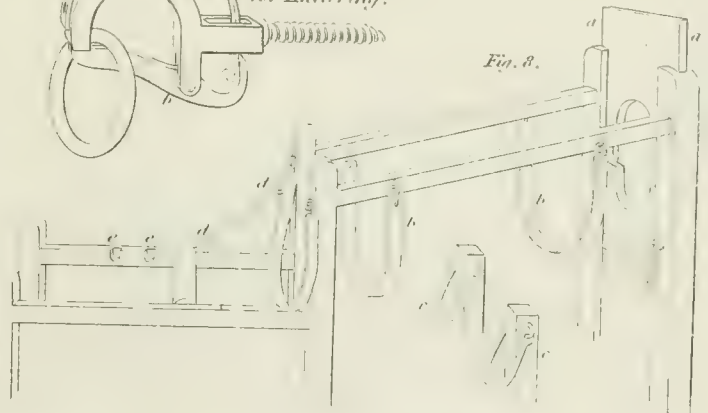
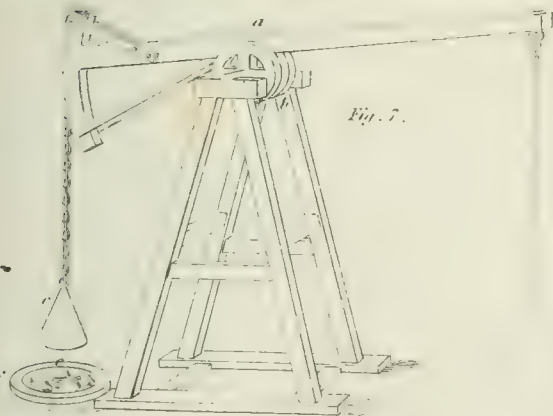
Borers.

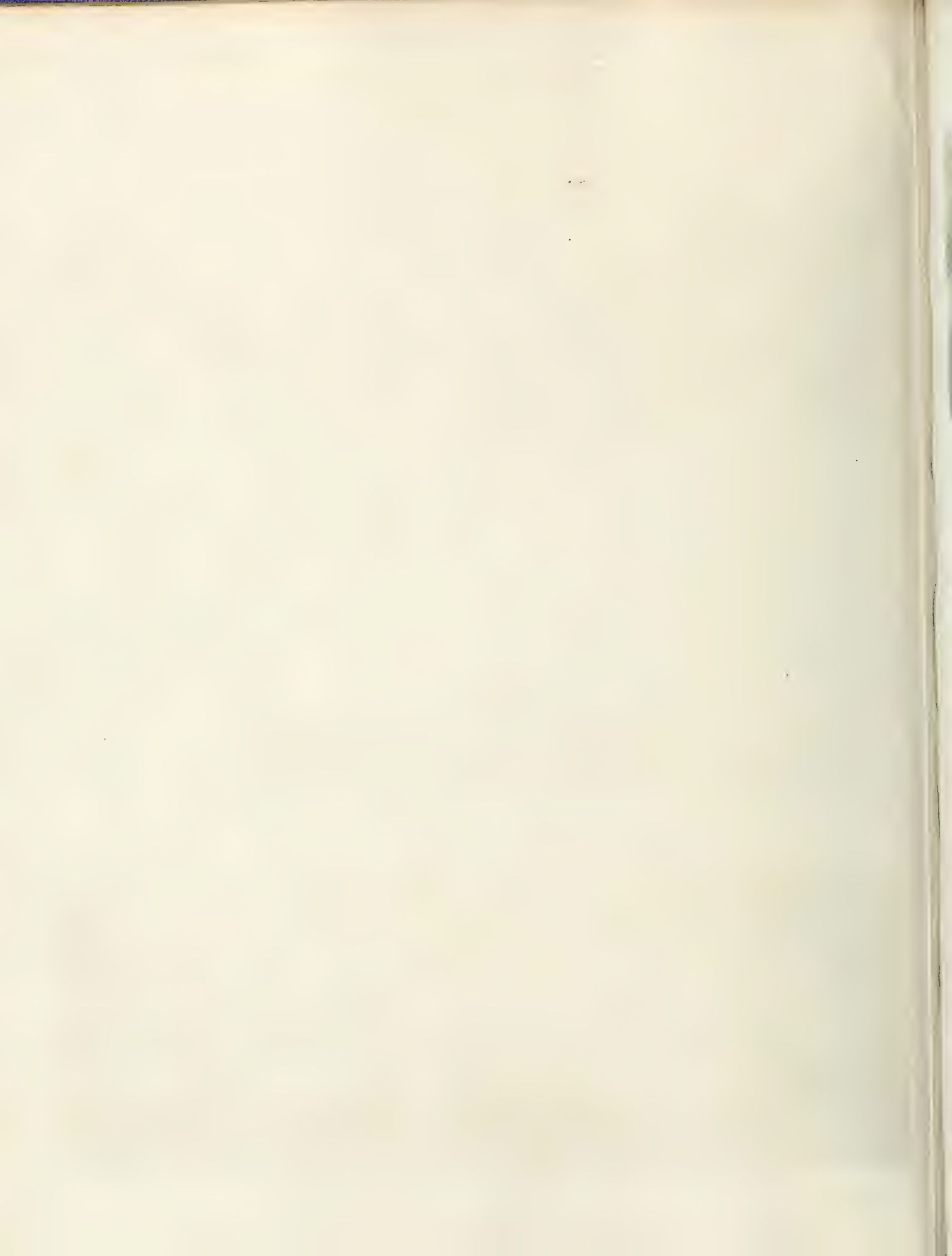


Lime Stone Pounding Machine.

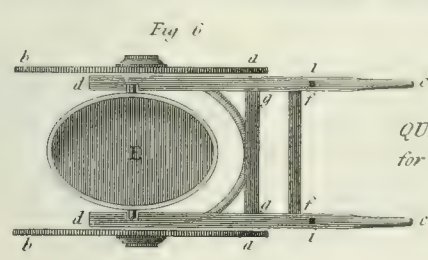
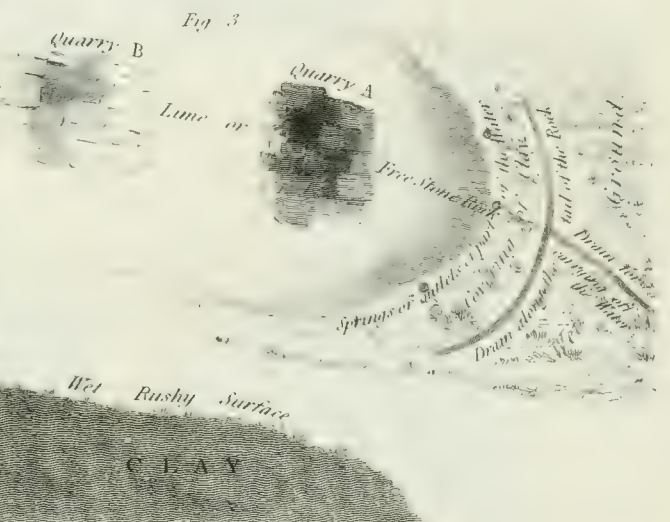
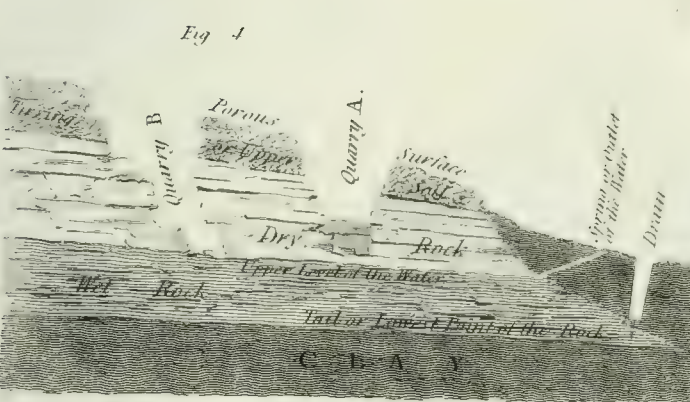
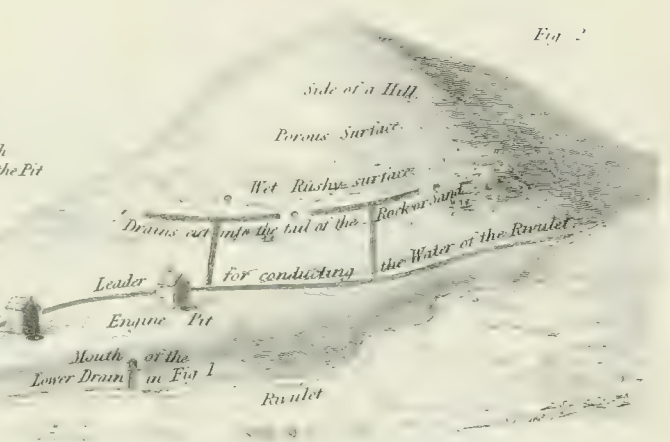
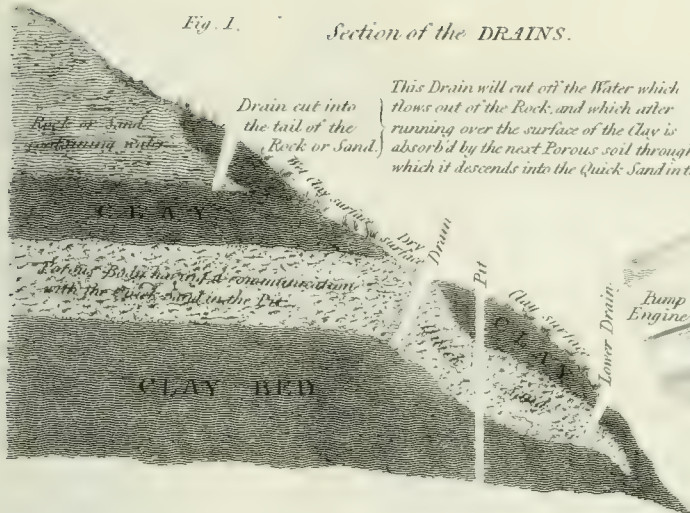


Ox Shoeing Machine.





QUARRIES, PITS, MINES & Draining them.



QUENDON BARROW for carrying water.

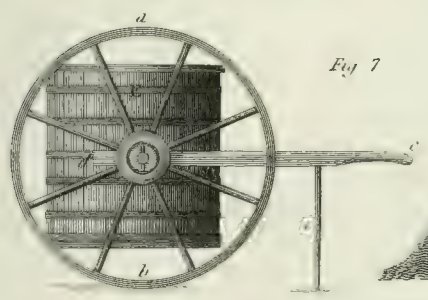


Fig 7

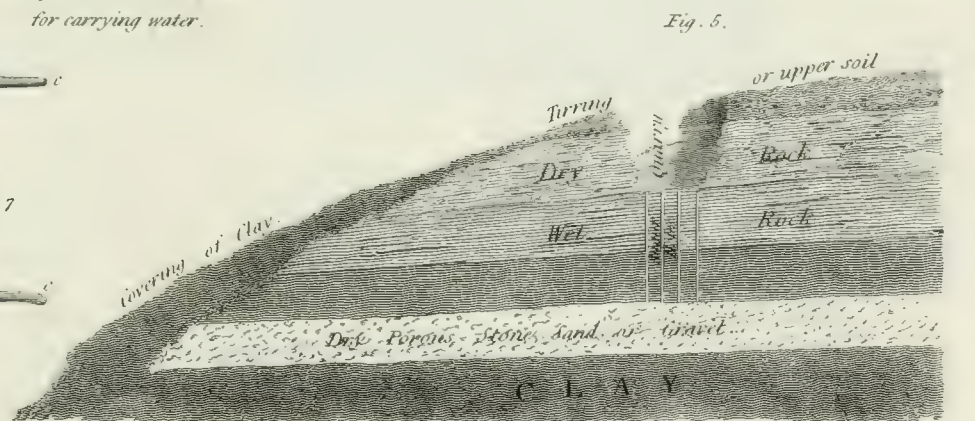
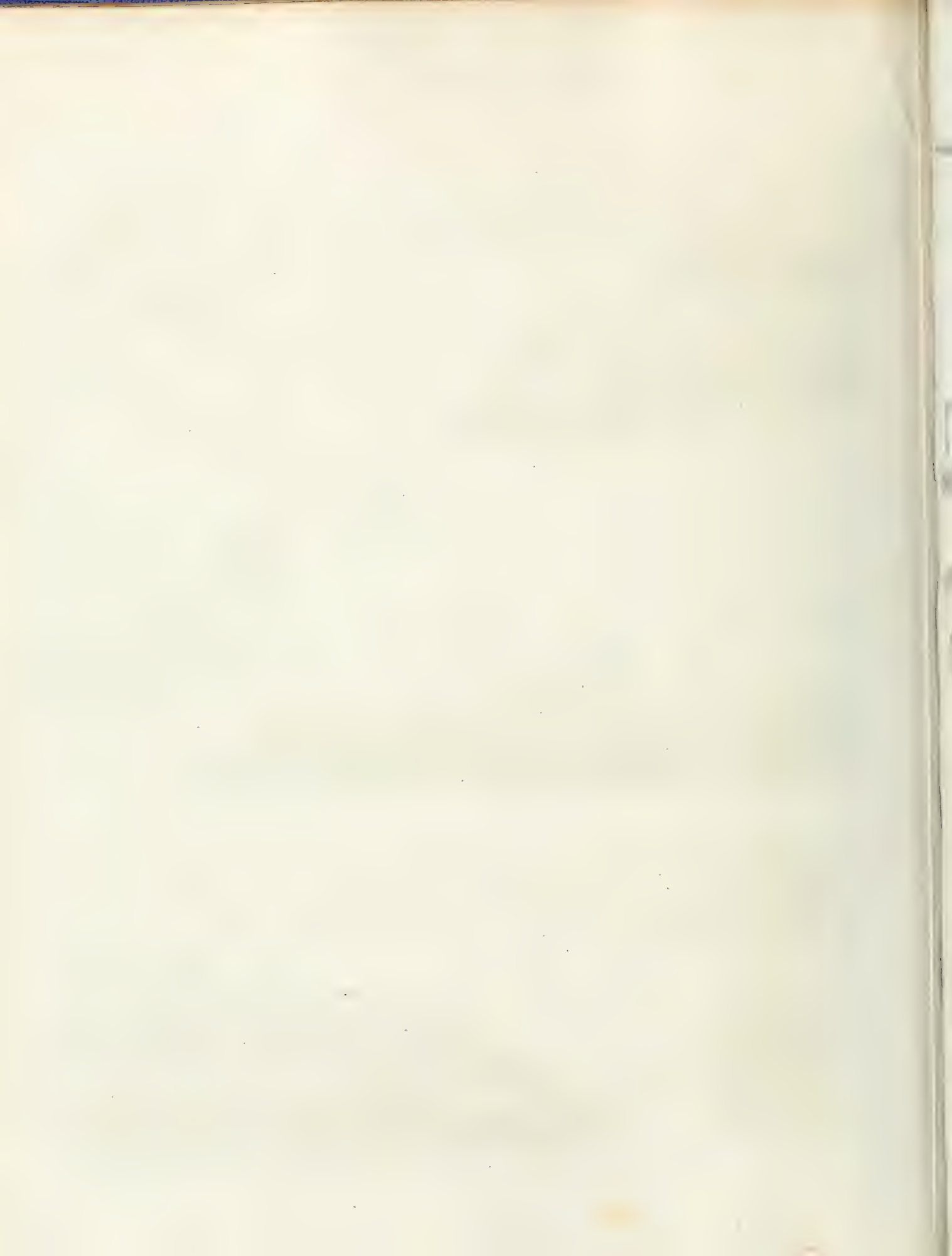


Fig. 5.

Perhaps under this Clay Bed there may be another dry porous Stratum into which the water may be let down and reduced to a still lower level, and this may be ascertained by boring an auger hole through the Clay.



AGRICULTURE.
 POTATOE HARROW and SET SCOOPS.

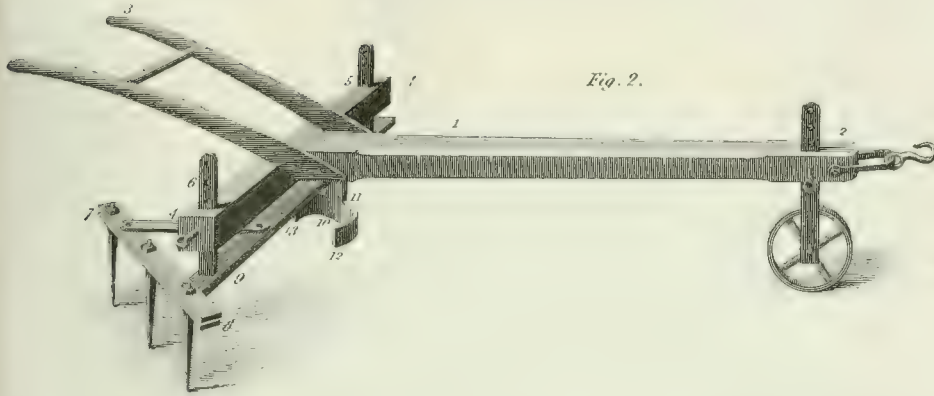
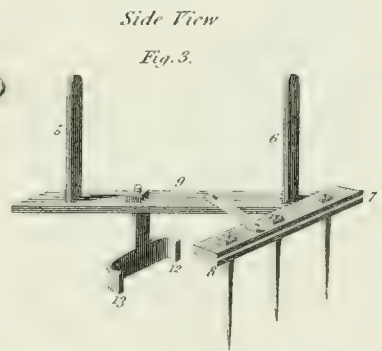


Fig. 2.



Side View

Fig. 3.

Construction of Ponds.

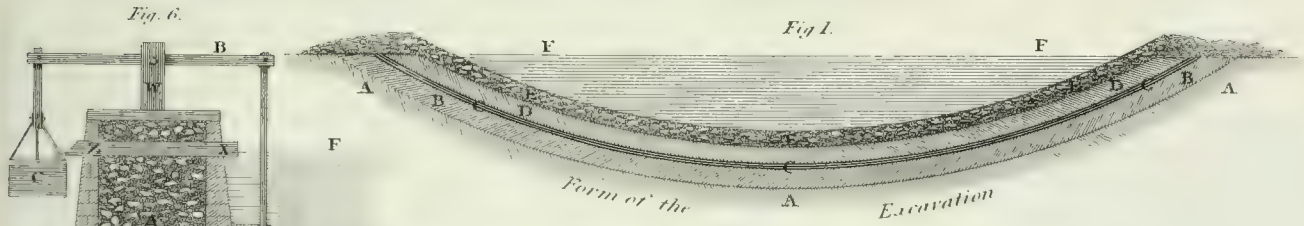


Fig. 1.

Form of the Excavation

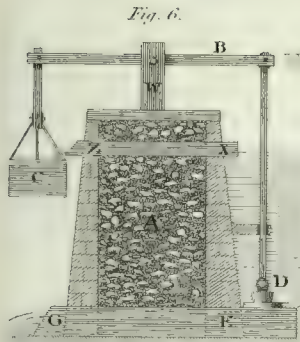


Fig. 6.

Moveable Pig, or Swine Case.



Fig. 8.

Dublin
 Potatoe Set Scoop.

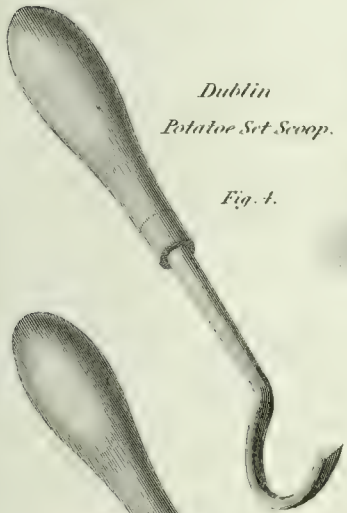


Fig. 4.

Slarks Potatoe
 Set Scoop.

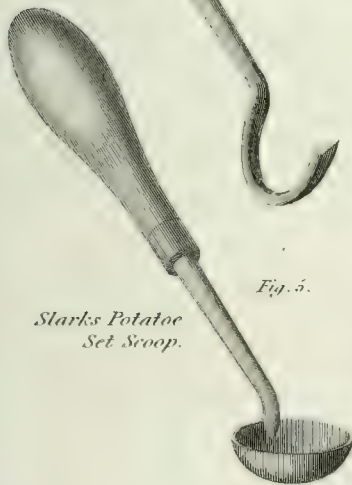


Fig. 5.

Fixed Pig or Swine Case.

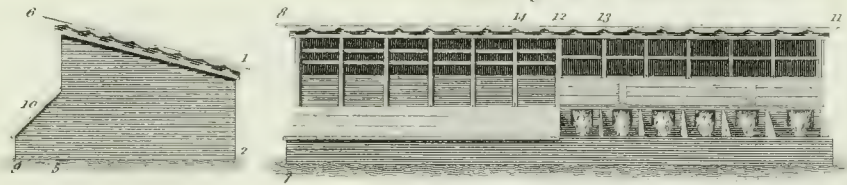
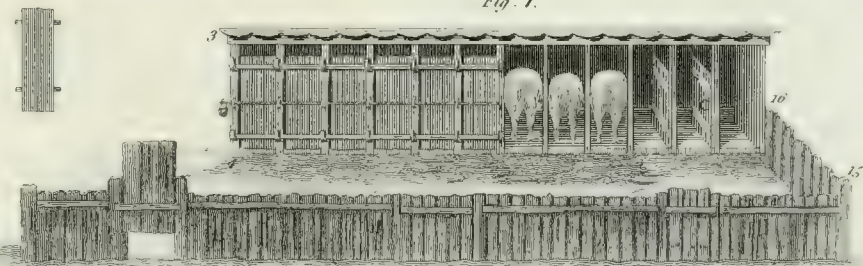
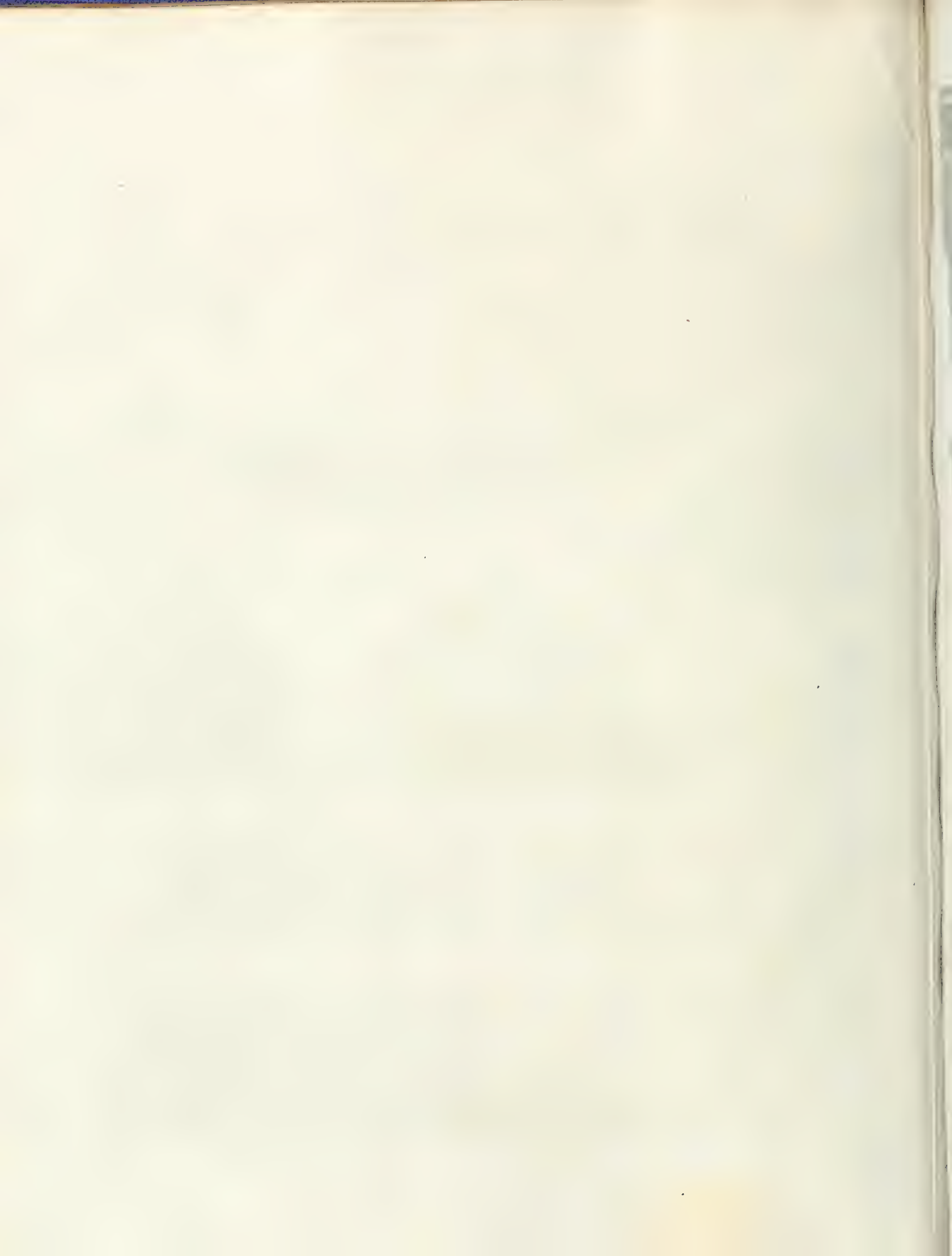
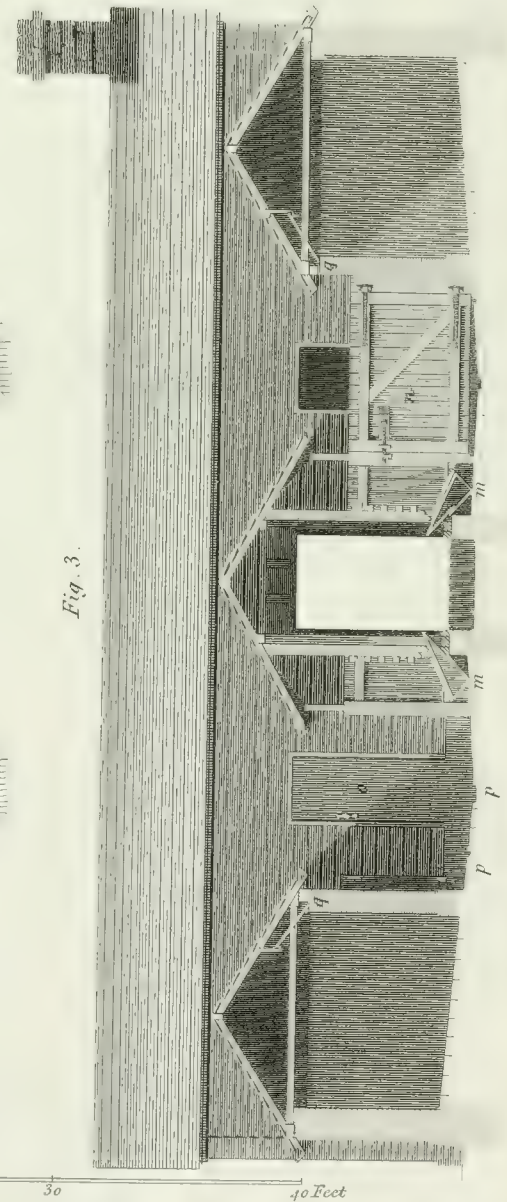
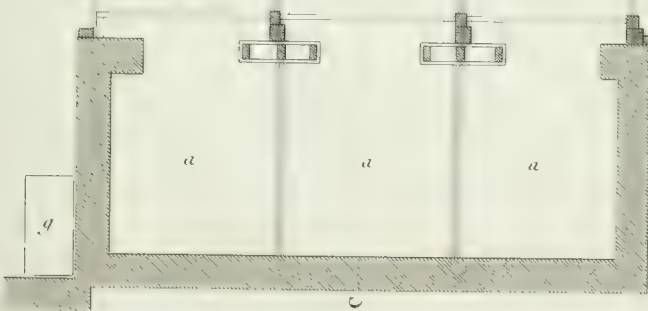
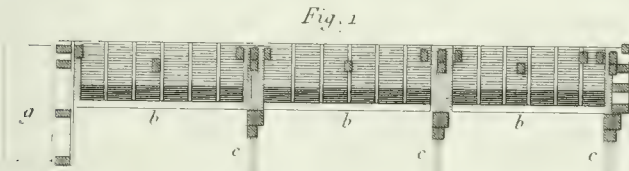
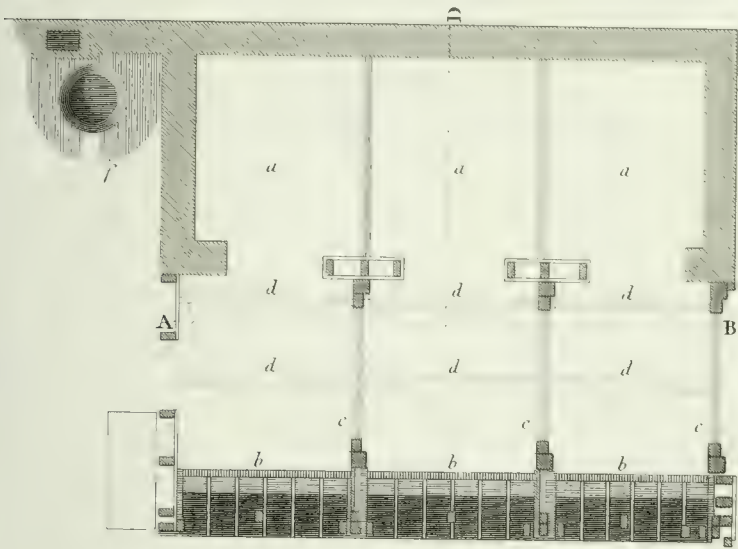
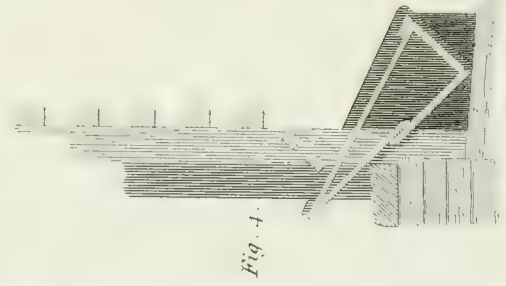
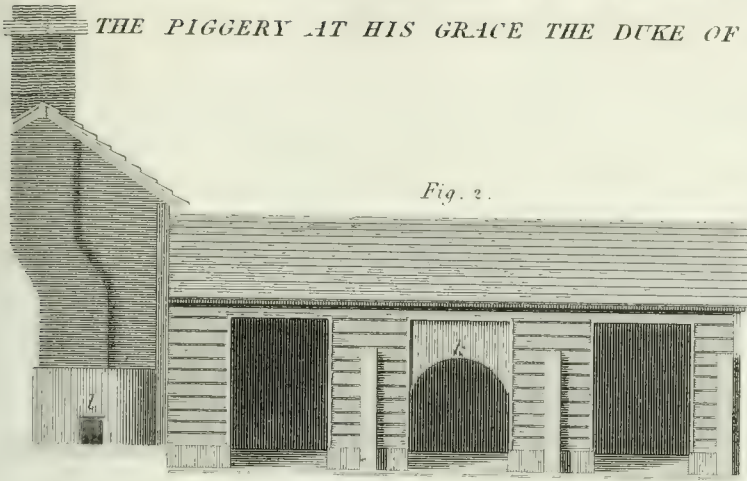


Fig. 7.

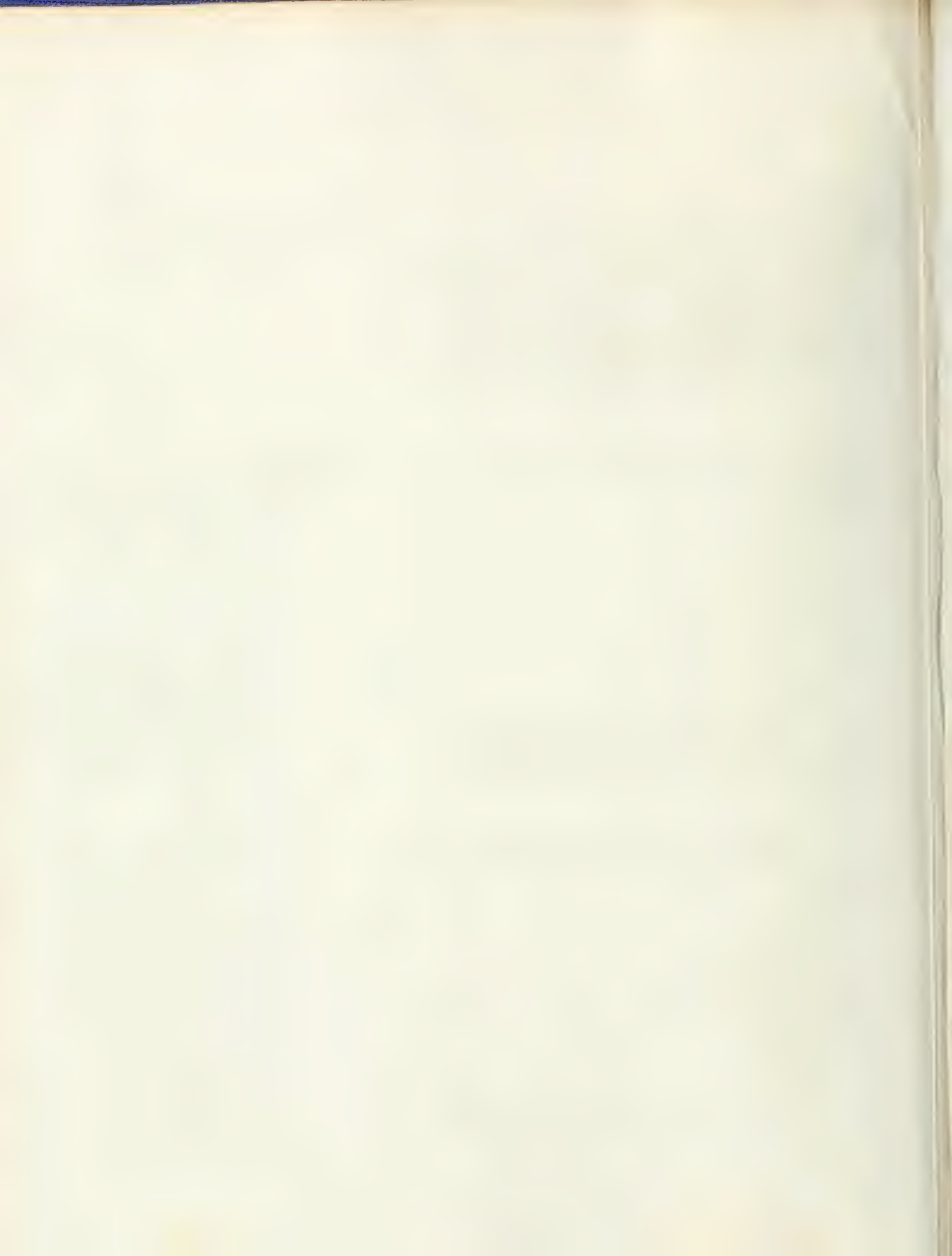




THE PIGGERY AT HIS GRACE THE DUKE OF BEDFORD'S FARM AT WOBURN ABBEY.



5 10 20 30 40 Feet



PALPABLE ARITHMETIC AND WRITING.

Fig. 1.



Fig. 2.

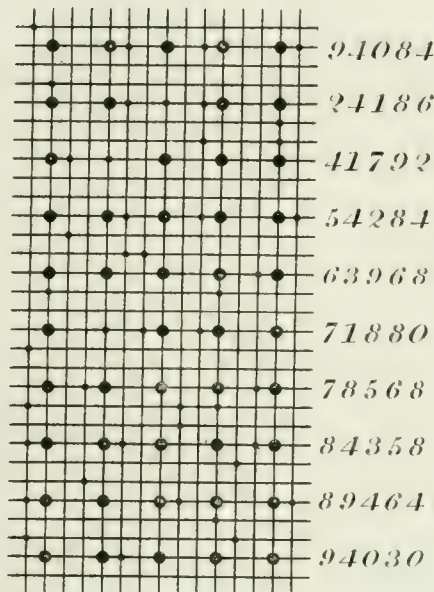
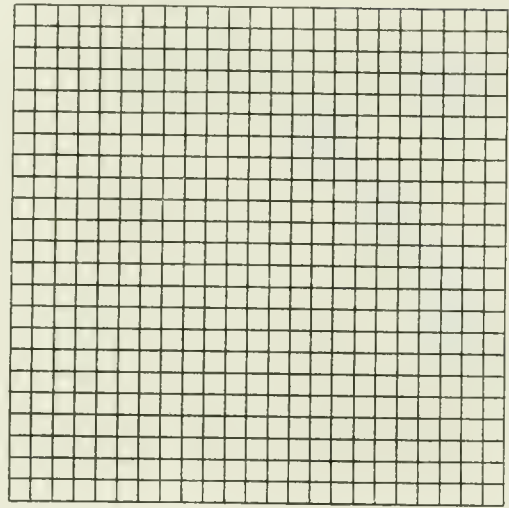


Fig. 3.



ART OF WRITING IN THE DARK.

Fig. 7.

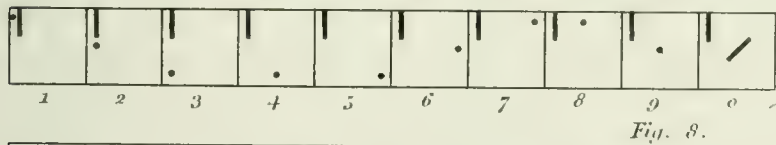
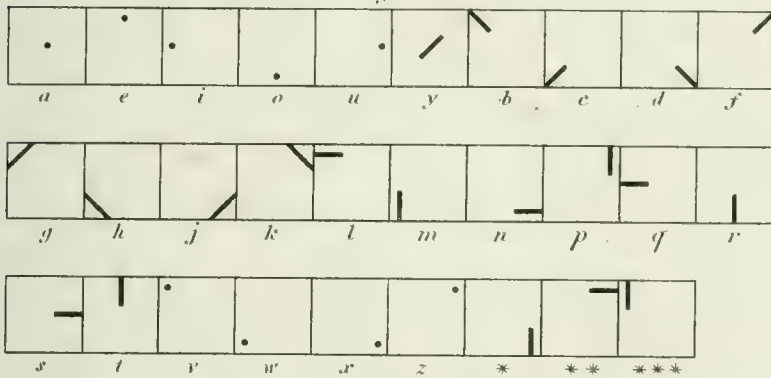
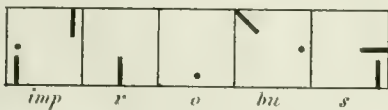


Fig. 8.



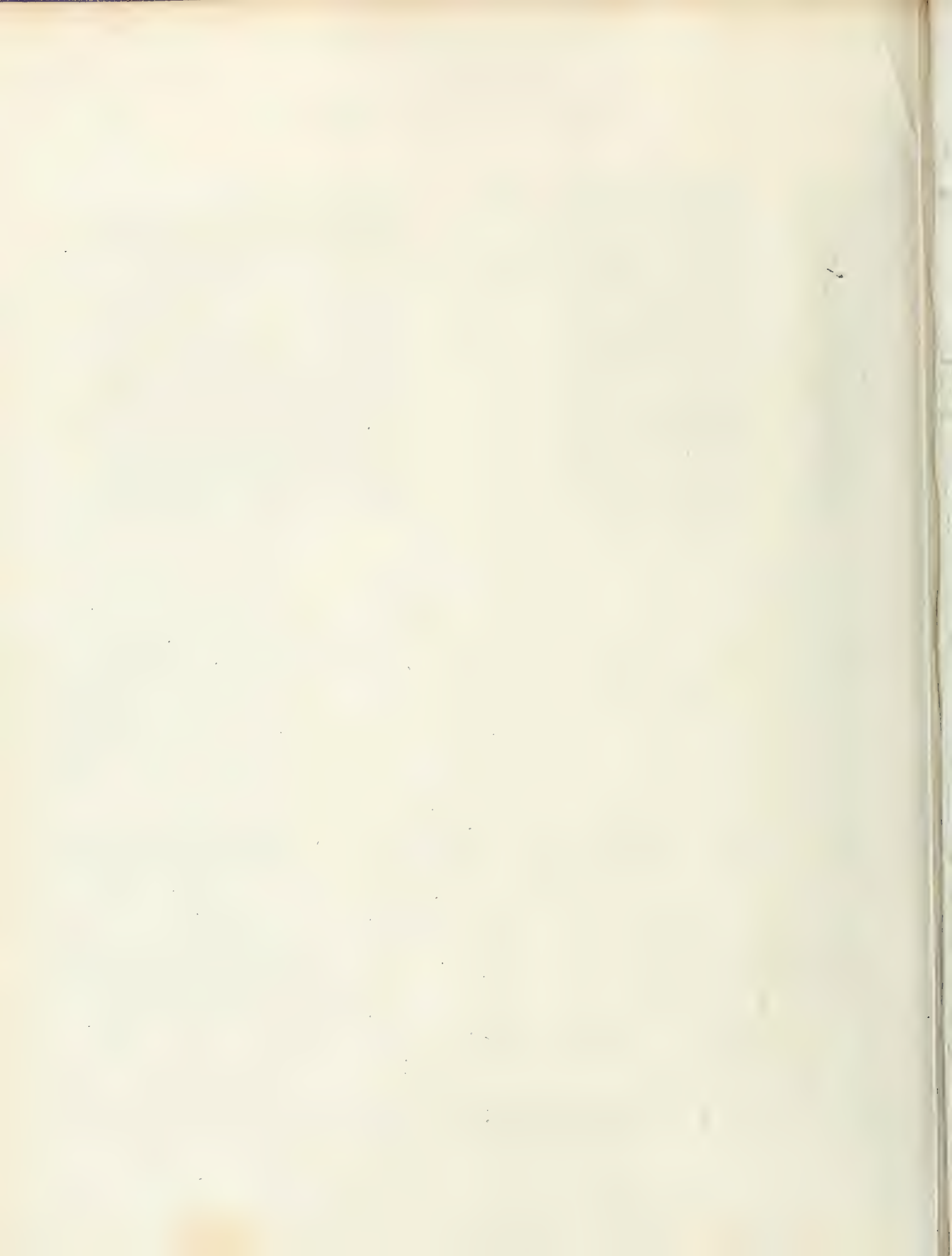
Denominations of the Letters.

1	2	3	4	5	6	7	8	9	10	11	12	13
b	l	i	c	m	o	d	n	u	f	p	e	a
g	q	h	r	j	s	k	y					
v	w	x	z									

* The square distinguished by one star underneath contains the mark to denote the end of a word.

** The square so distinguished contains the mark denoting a capital letter.

*** The square so distinguished contains the mark signifying a numeral character or number.



CISSOID.

CONCHOID.

Fig. 1.

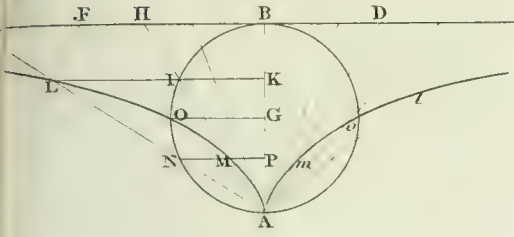


Fig. 2.

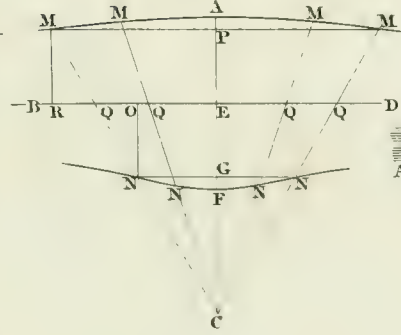


Fig. 3.

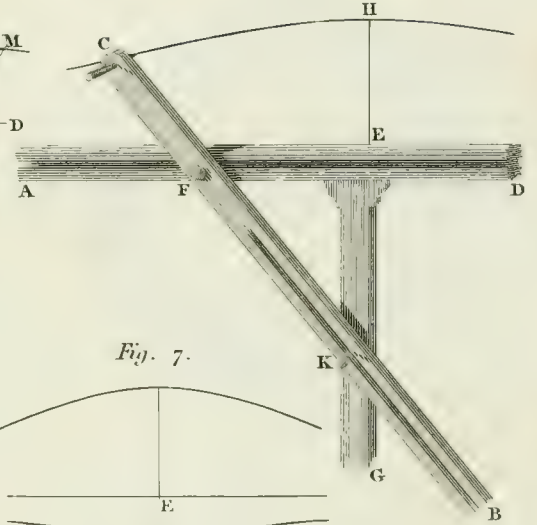


Fig. 4.

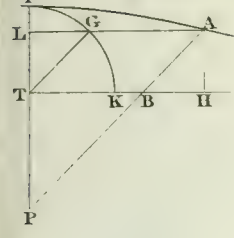


Fig. 5.

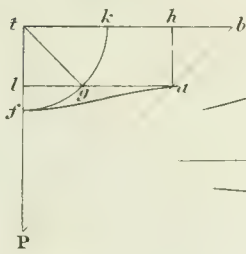


Fig. 6.

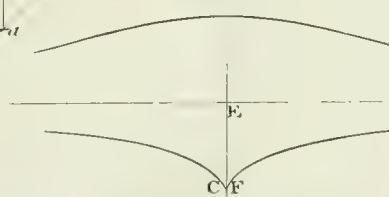
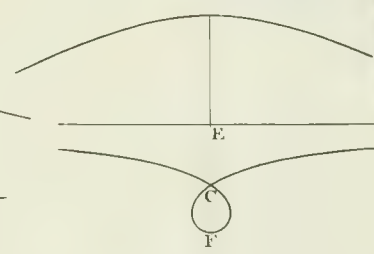


Fig. 7.



CONSTRUCTION.

Fig. 8.

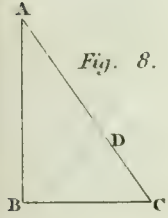


Fig. 9.

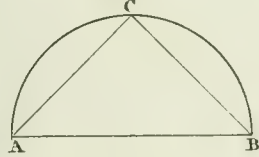


Fig. 10.

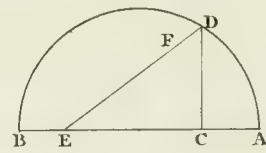


Fig. 11.

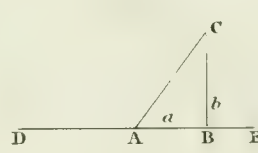


Fig. 12.

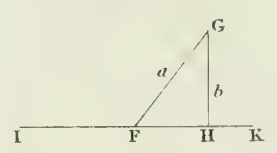


Fig. 13.

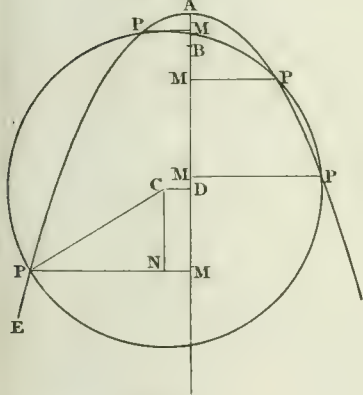


Fig. 14.

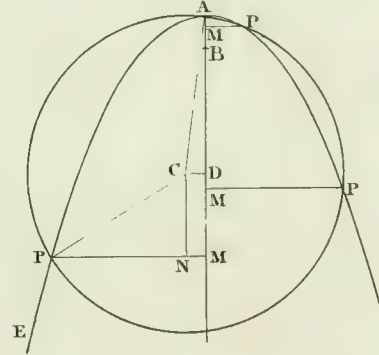


Fig. 15.

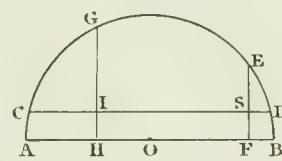


Fig. 16.

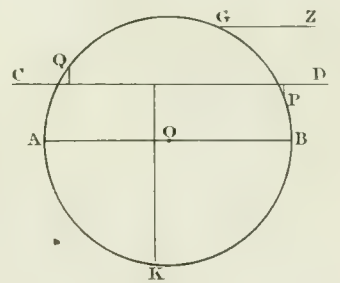


Fig. 17.

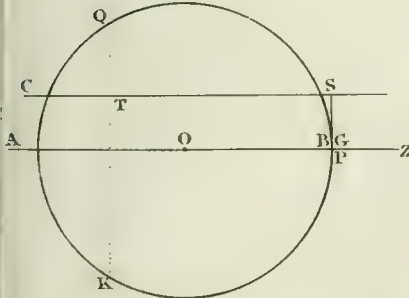


Fig. 18.

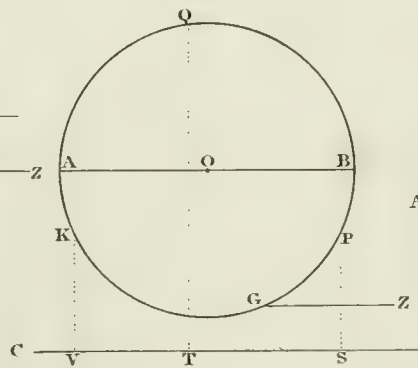


Fig. 19.

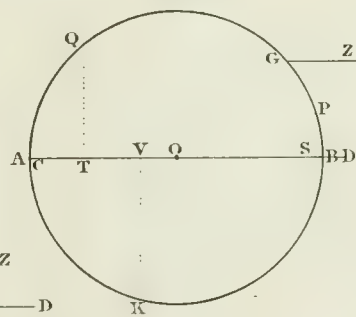
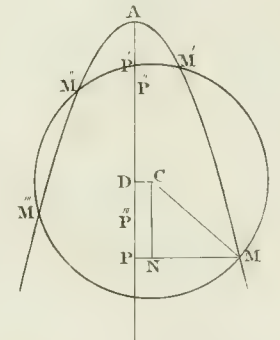
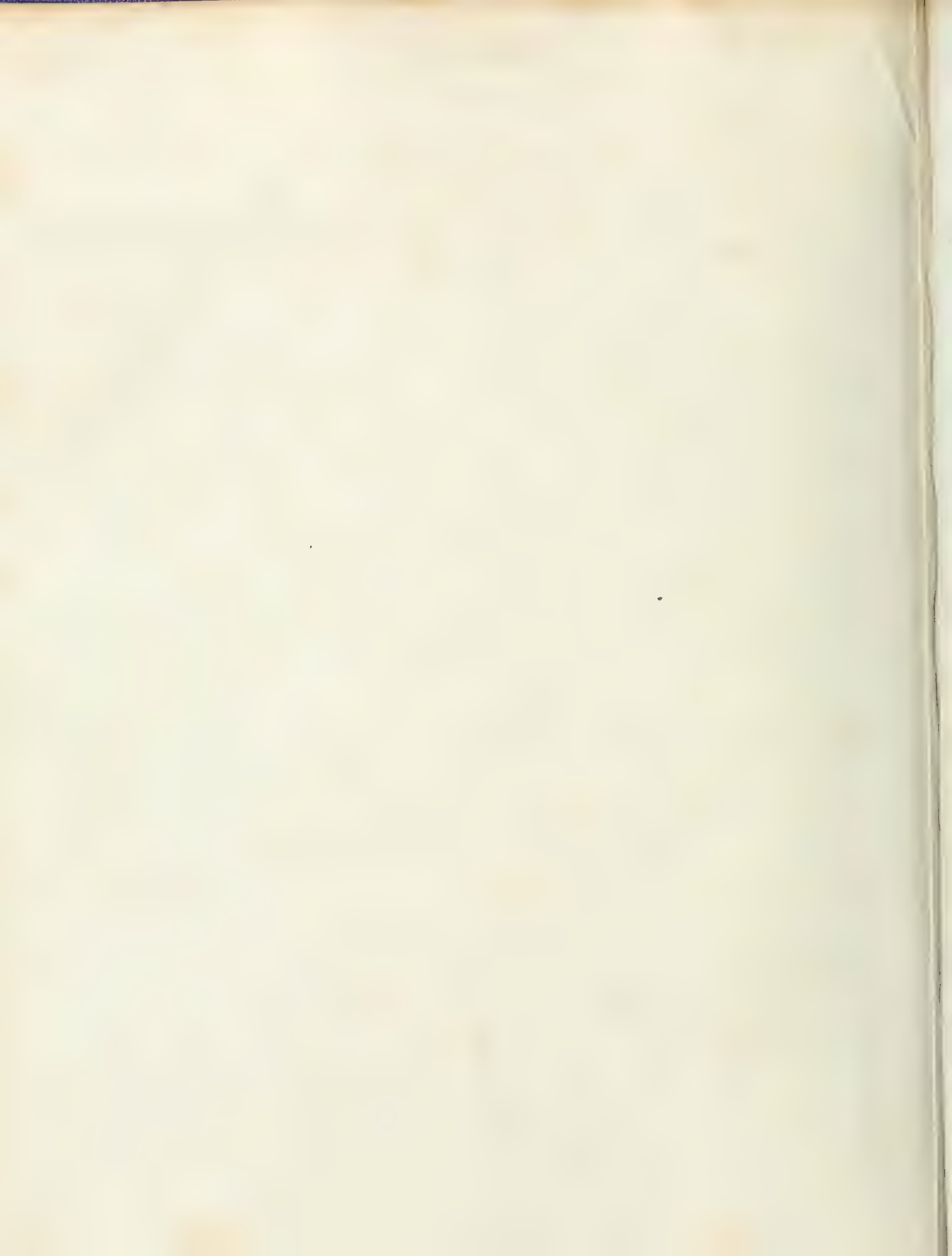


Fig. 20.

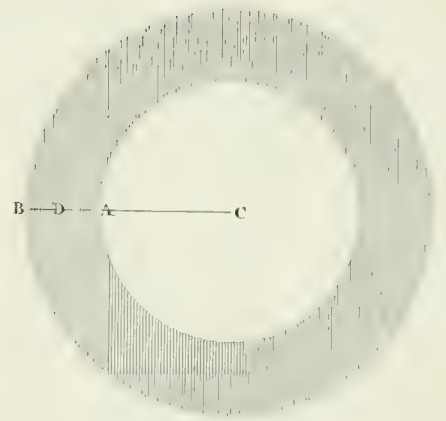
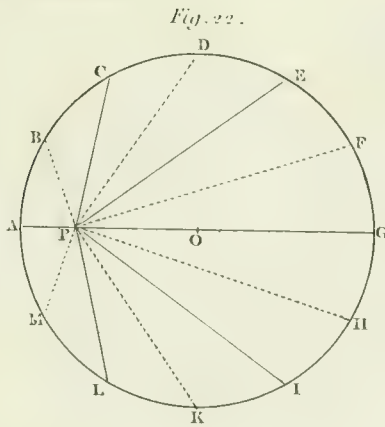
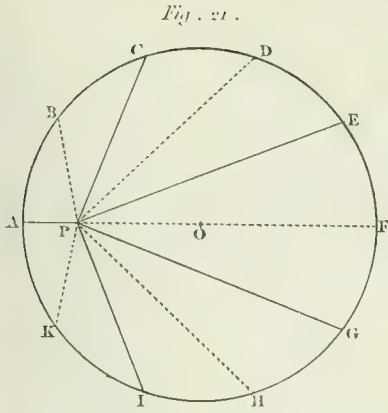




COTESLIAN Theorem.

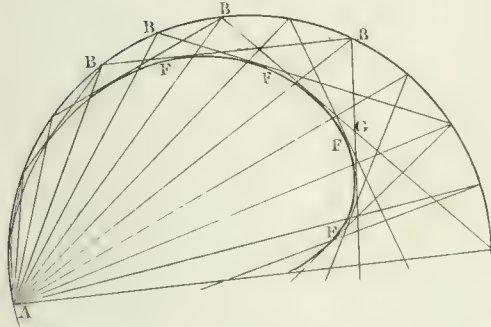
CROWN

Fig. 23.



CAUSTIC

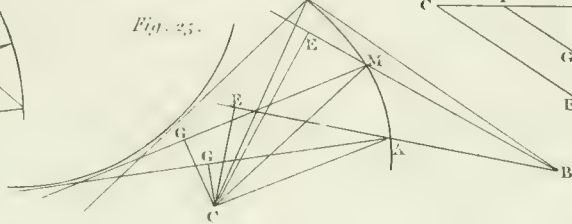
Fig. 24.



CURVE

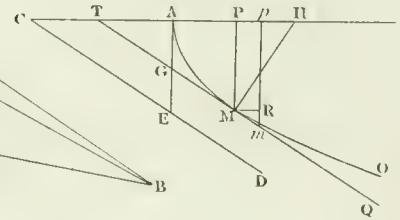
DIACAUSTIC

Fig. 25.



ELEMENT

Fig. 18.



CYLINDER.

See the Article referred to us in Geometry Plate IV.

Fig. 1.

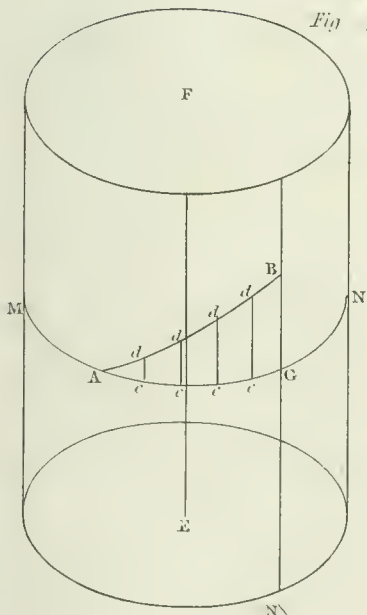
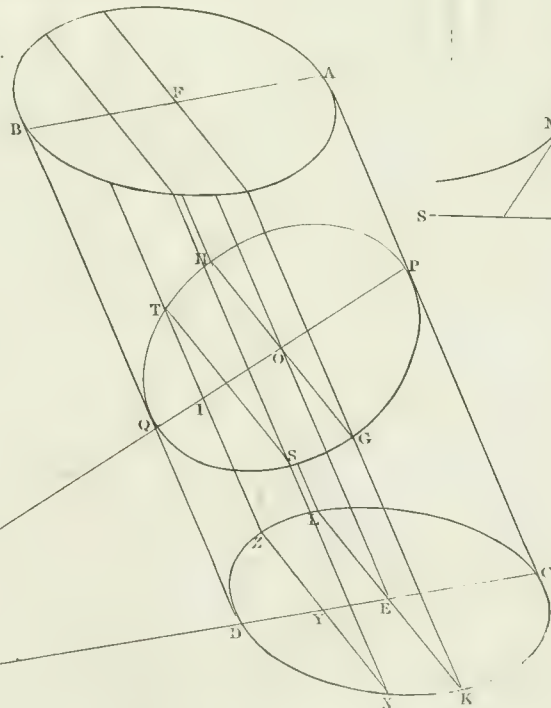
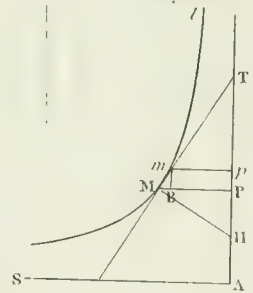


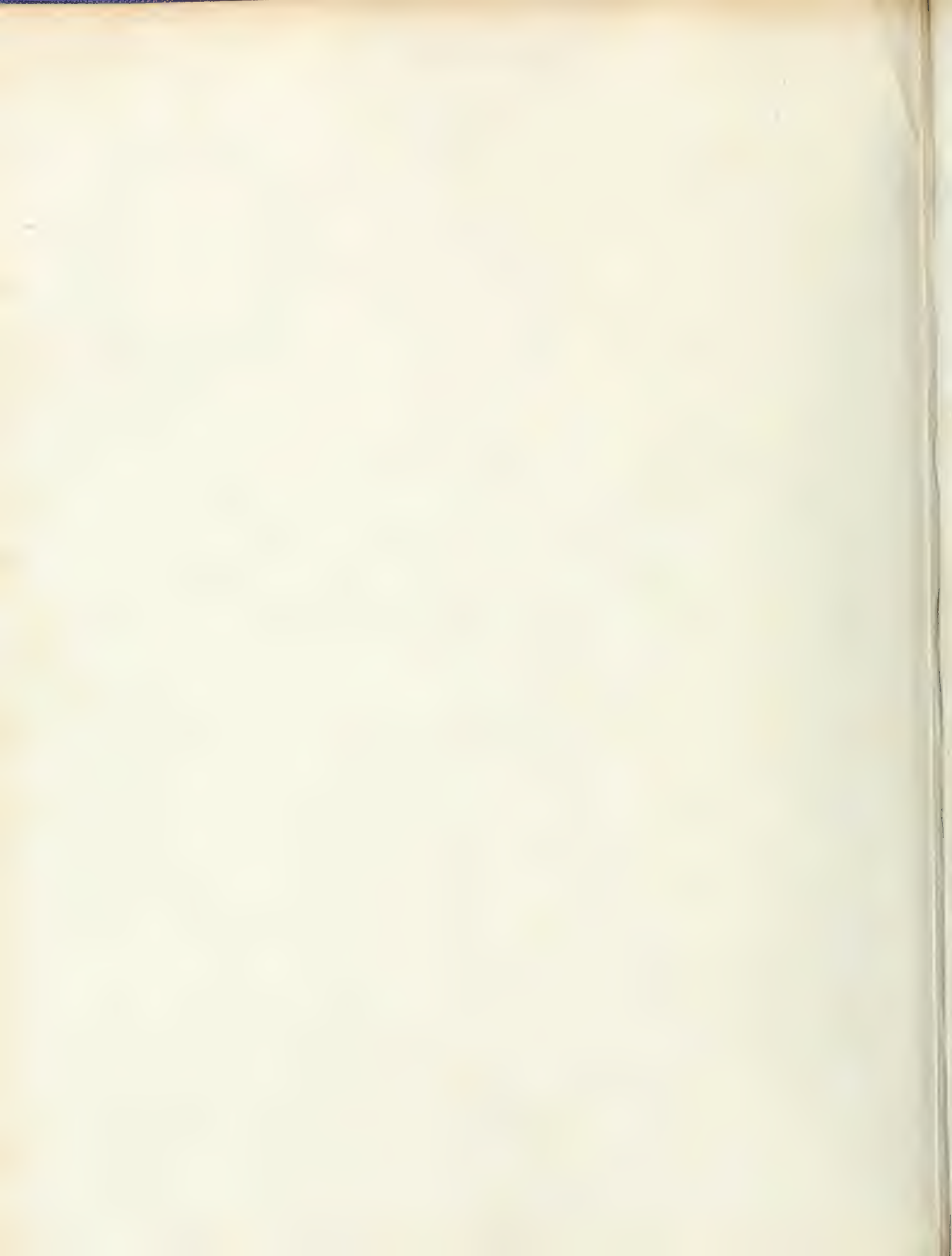
Fig. 3.



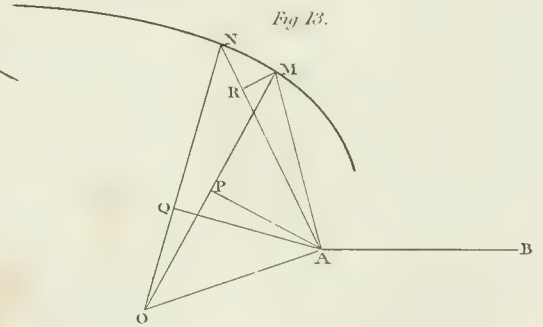
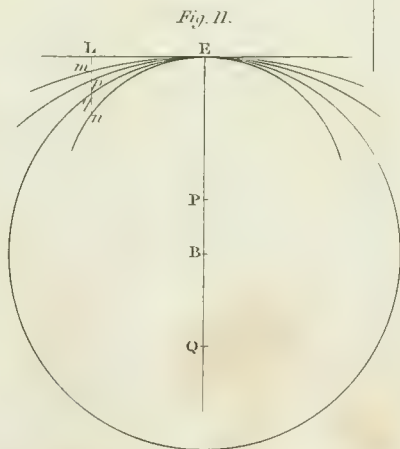
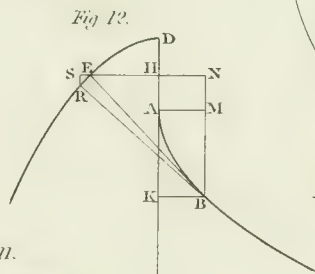
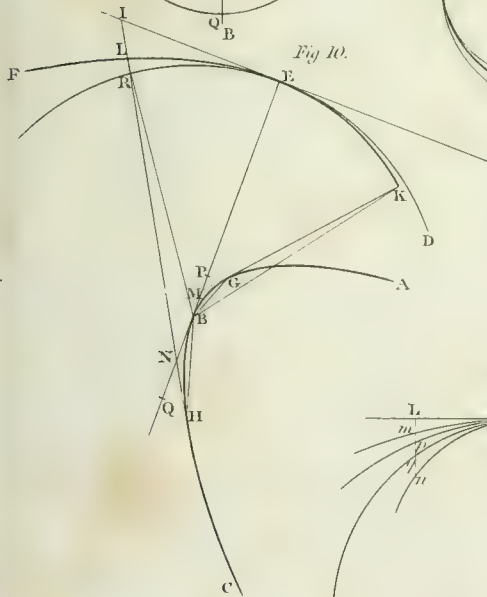
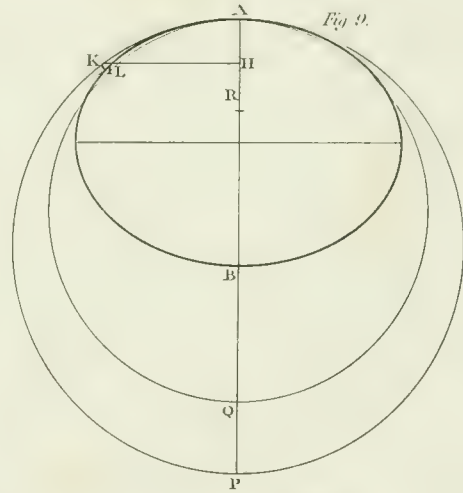
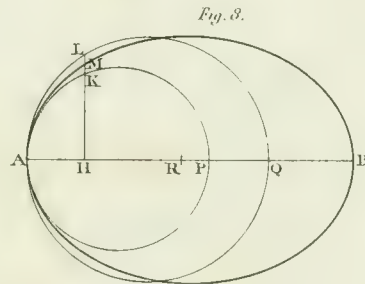
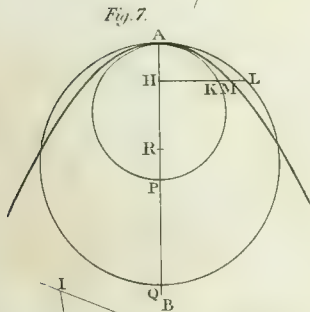
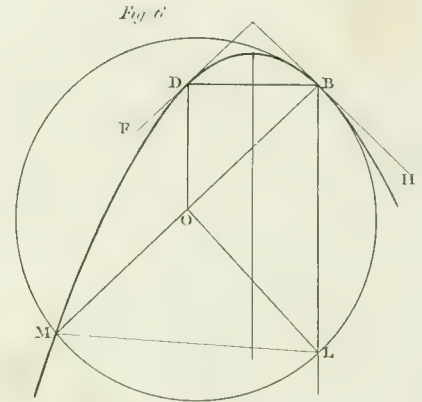
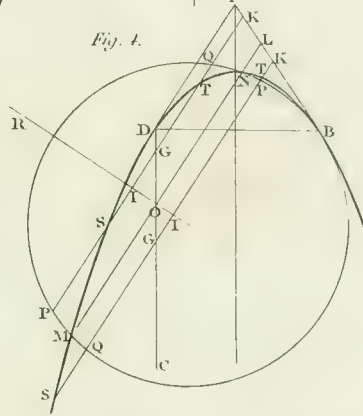
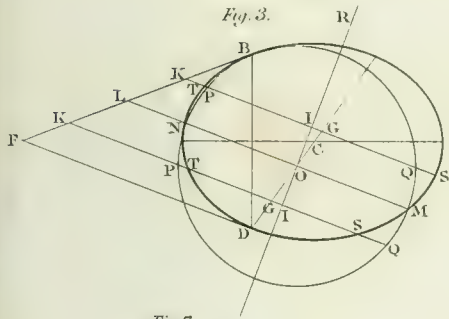
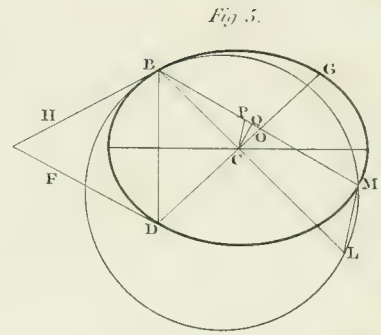
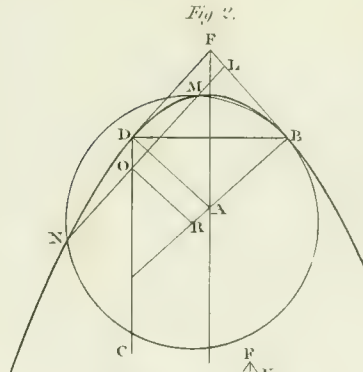
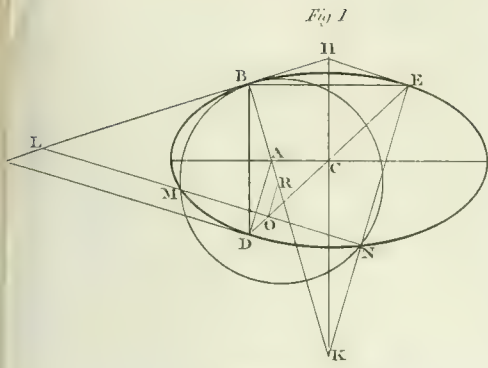
CURVE

Fig. 26.

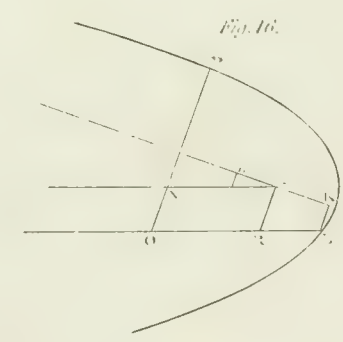
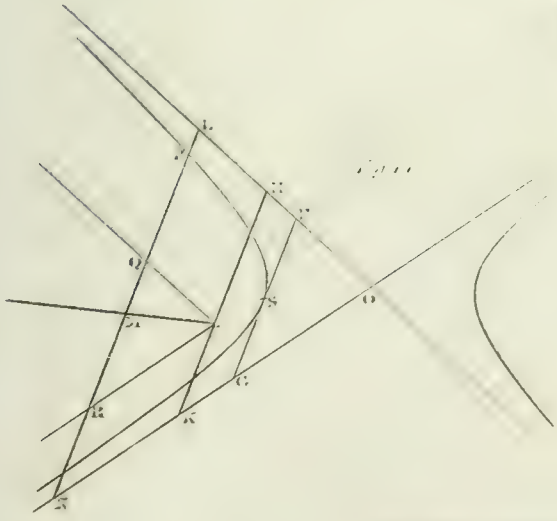
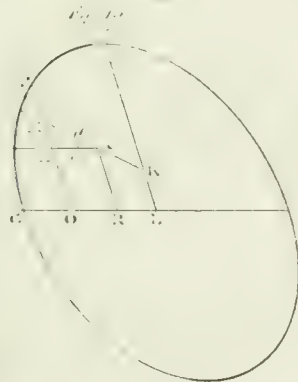
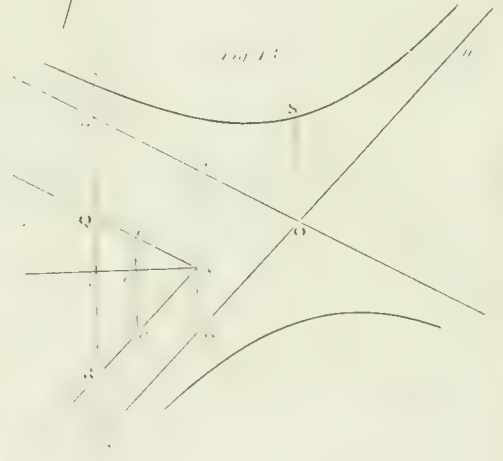
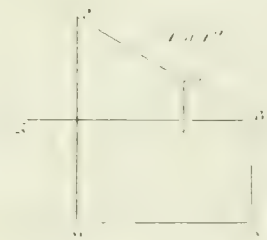
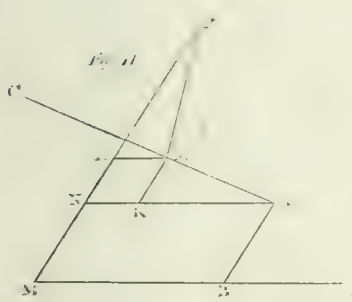
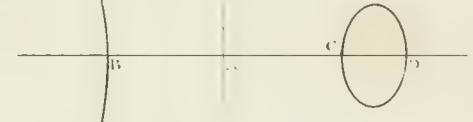
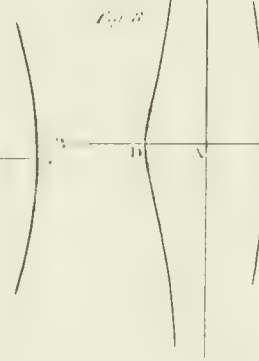
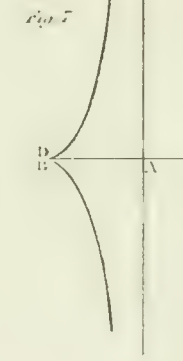
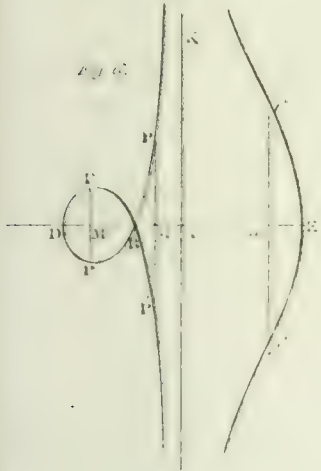
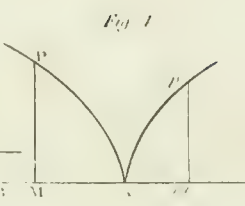
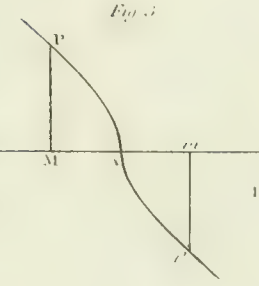
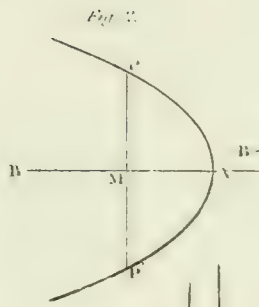
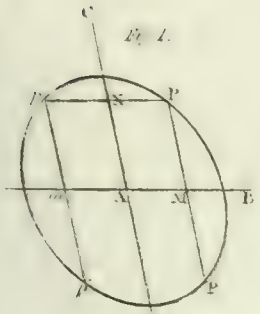


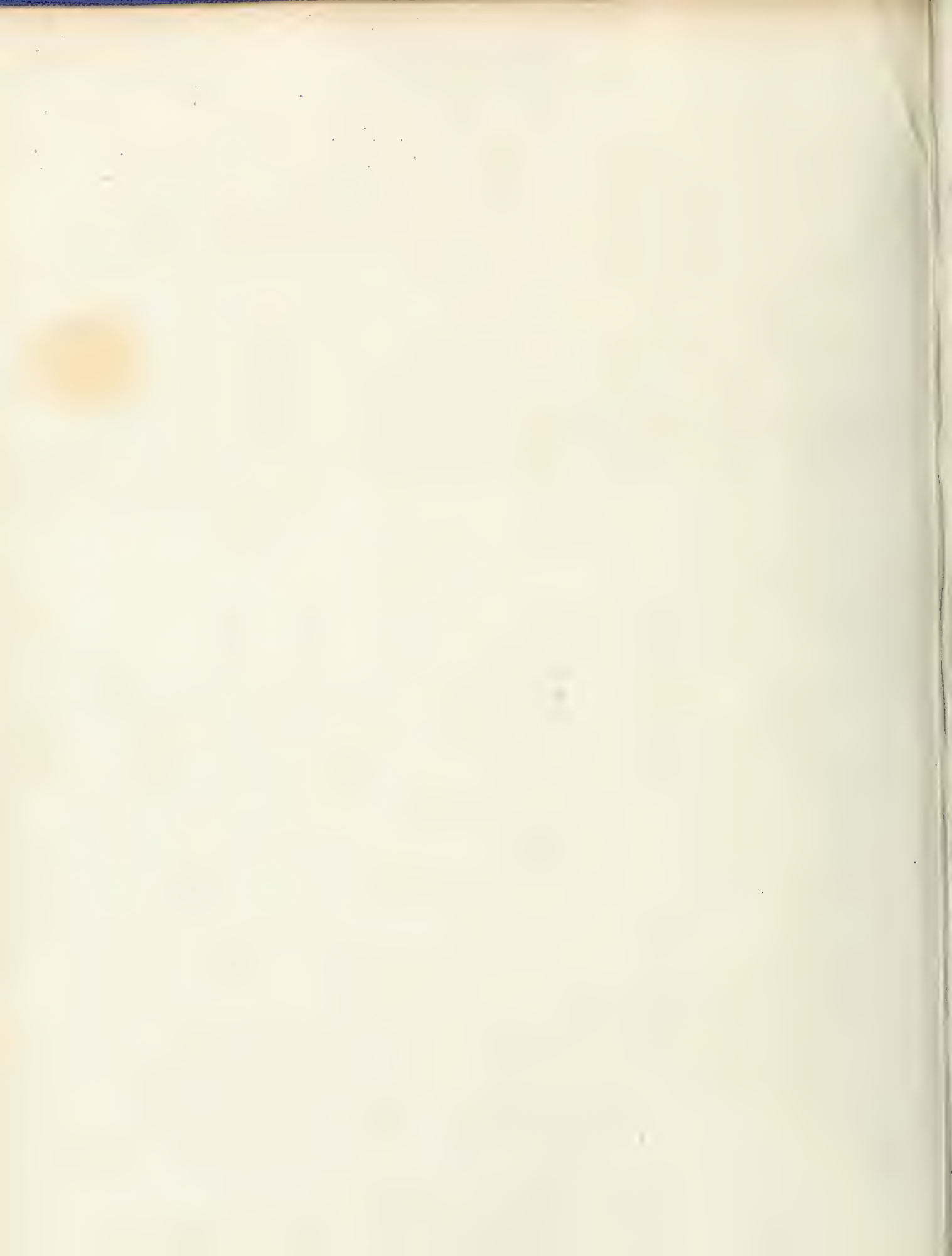


ANALYSIS. CURVATURE.

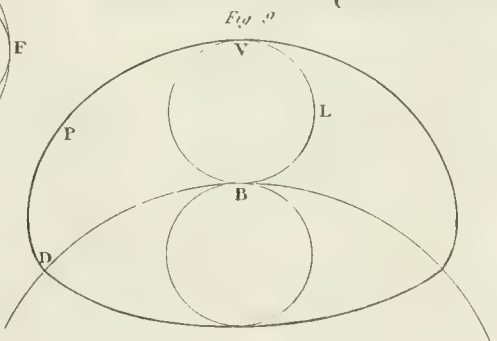
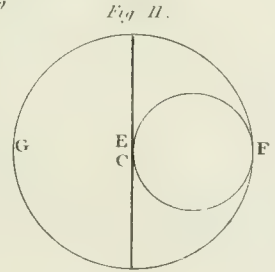
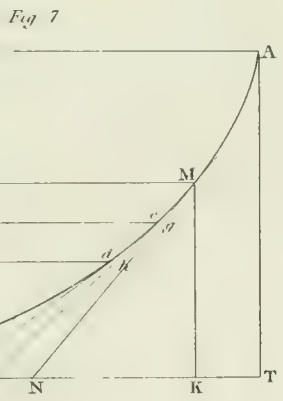
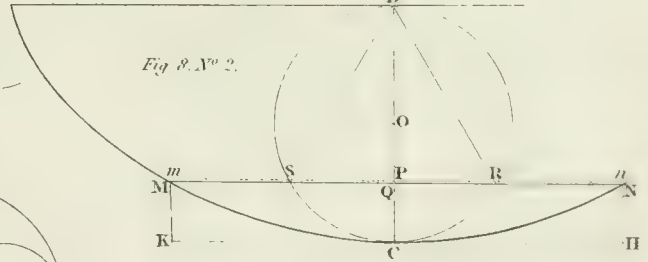
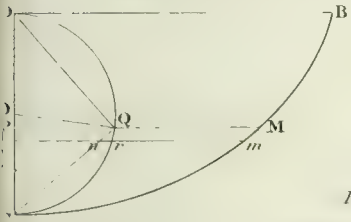
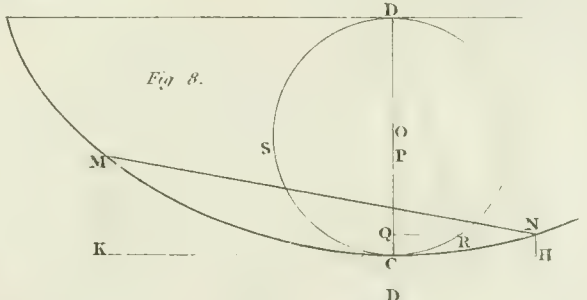
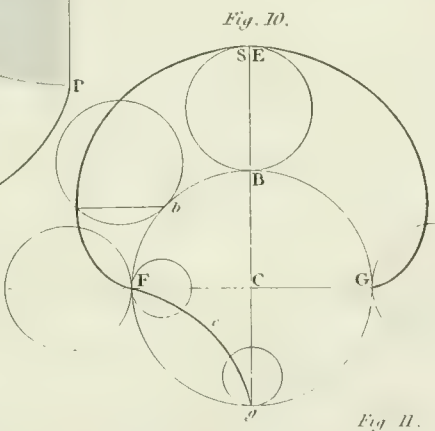
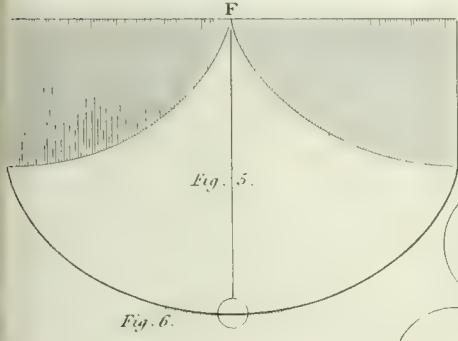
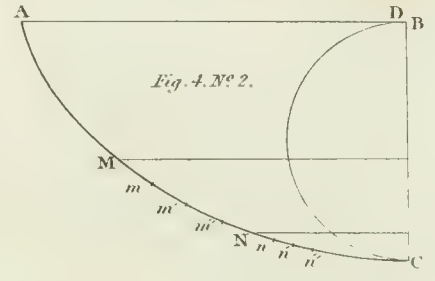
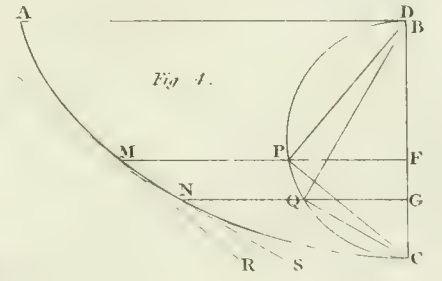
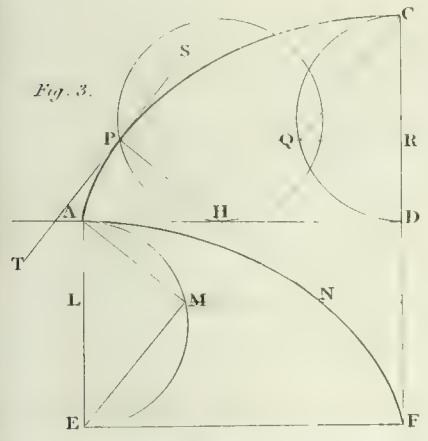
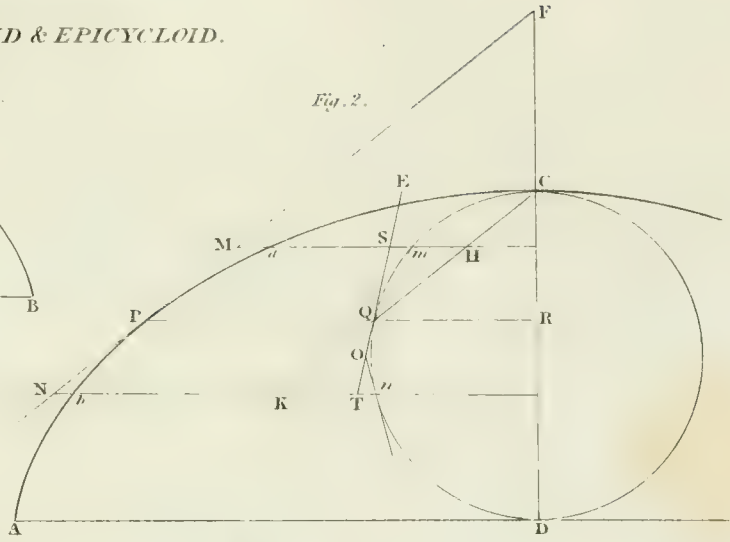
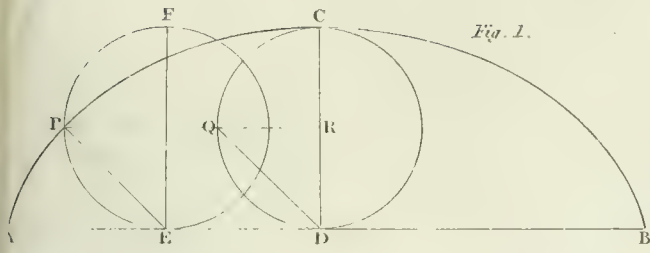


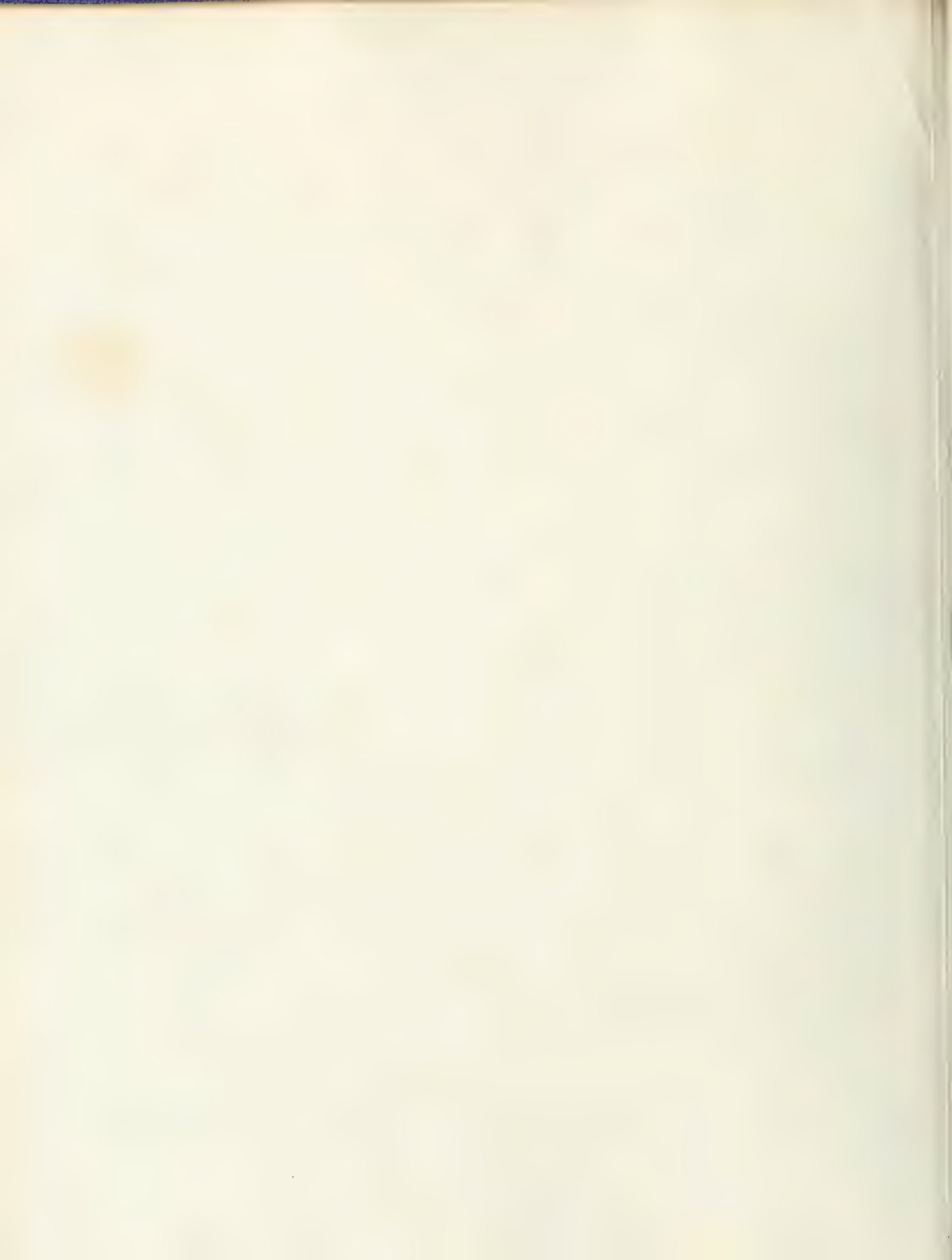






CYCLOID & EPICYCLOID.





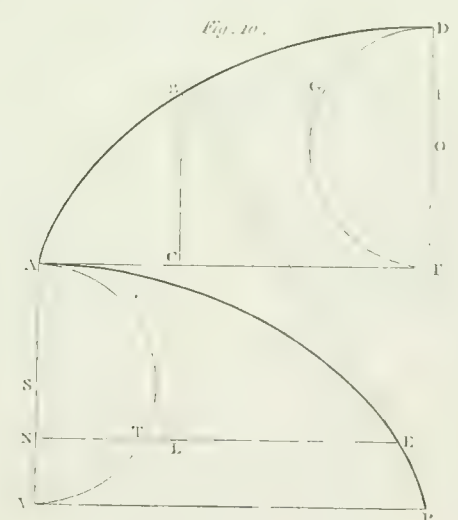
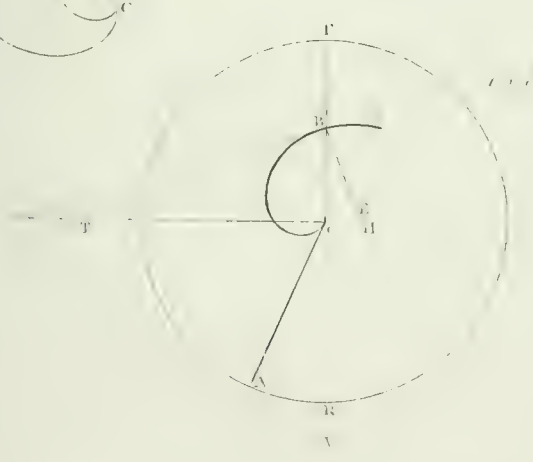
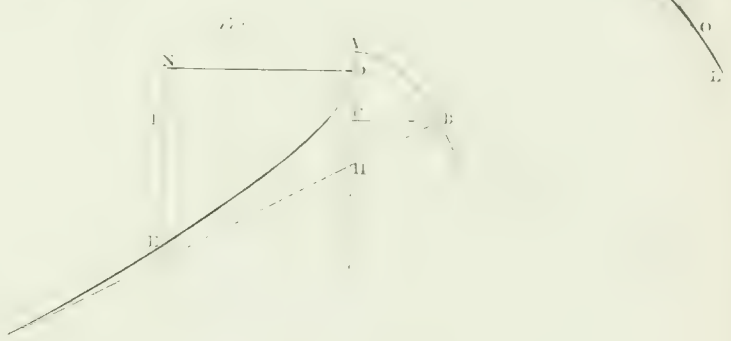
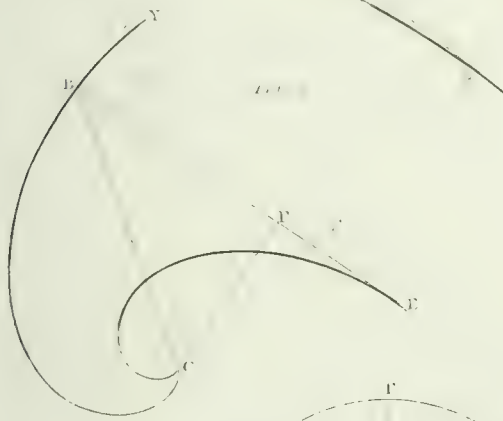
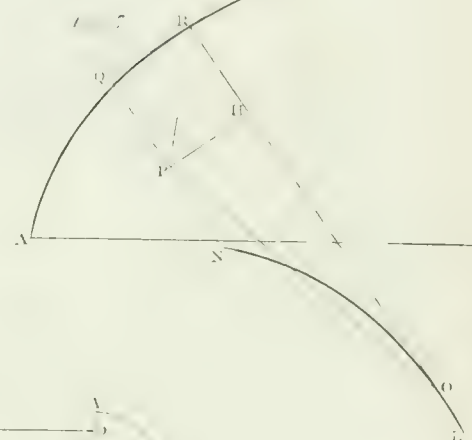
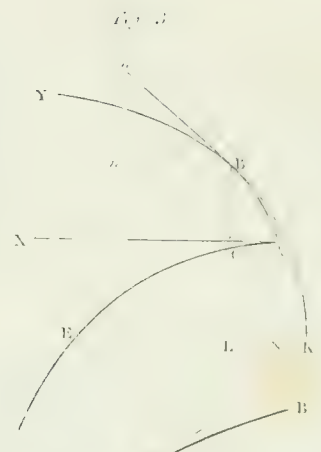
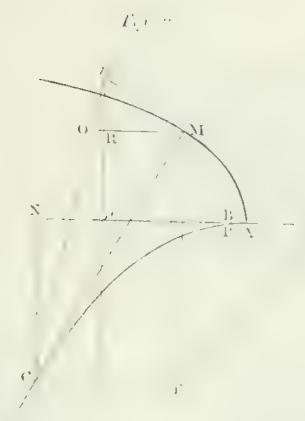
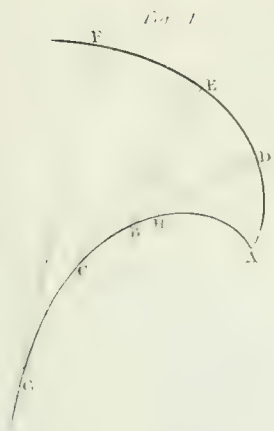




Fig. 1.



Fig. 2.

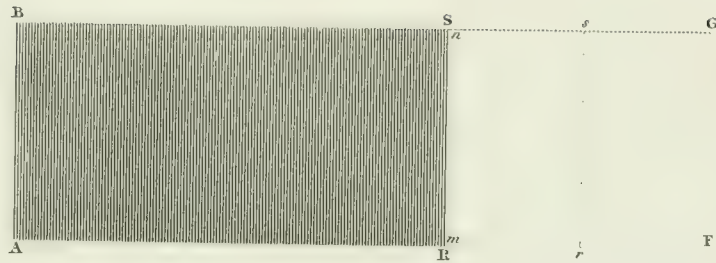


Fig. 3.

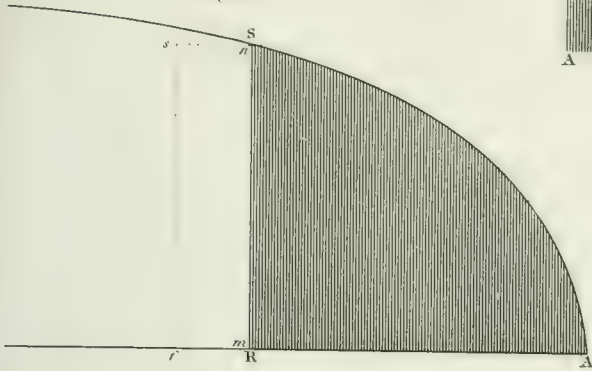
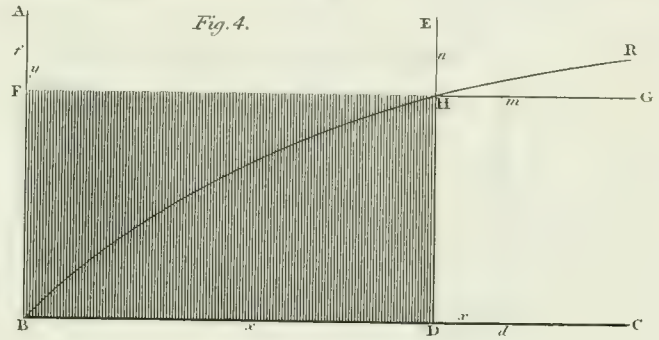


Fig. 4.



ANALYTIC FUNCTION.

Fig. 5.

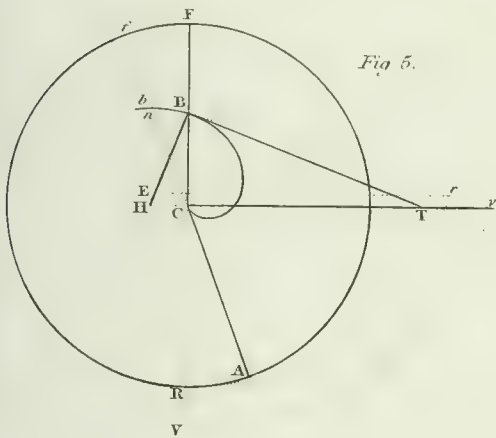


Fig. 6.

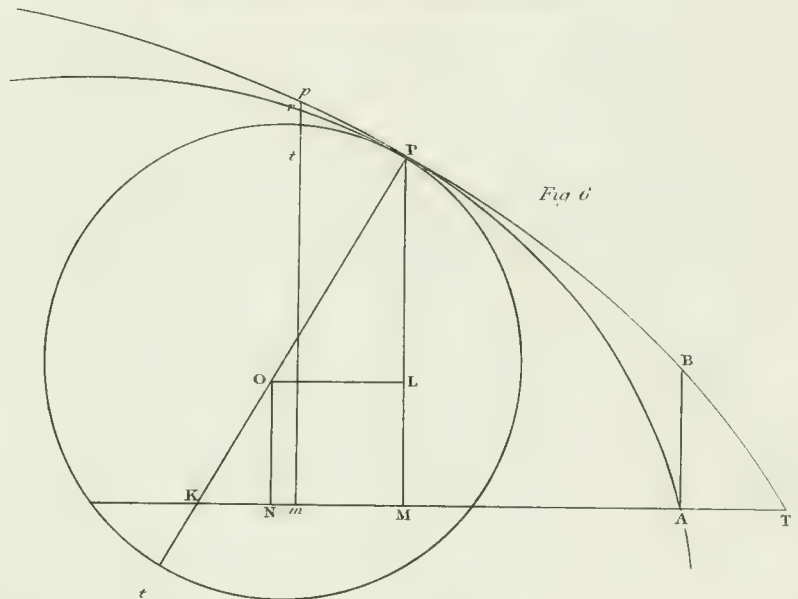


Fig. 7. N^o 1.

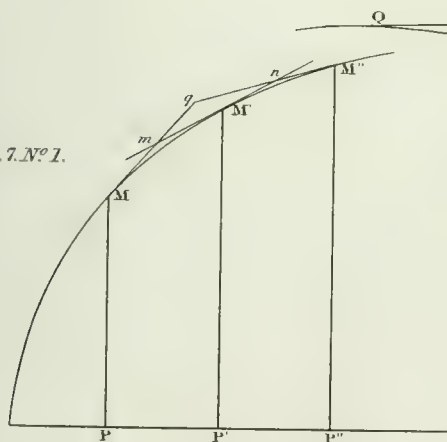


Fig. 7. N^o 2.

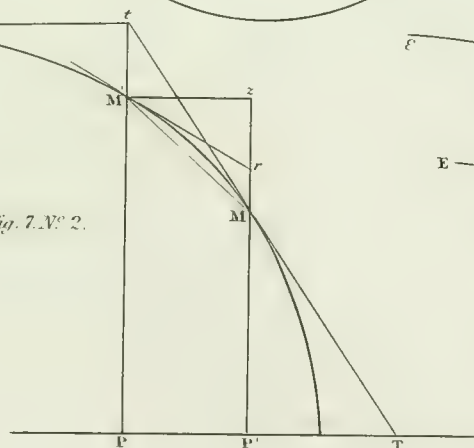
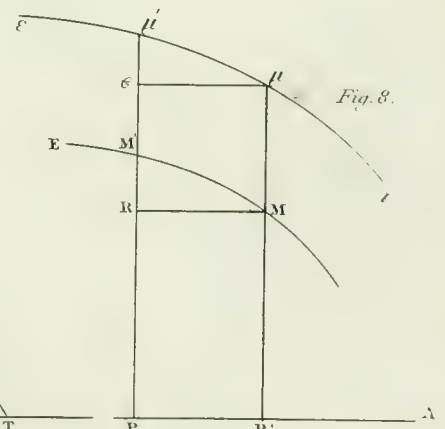
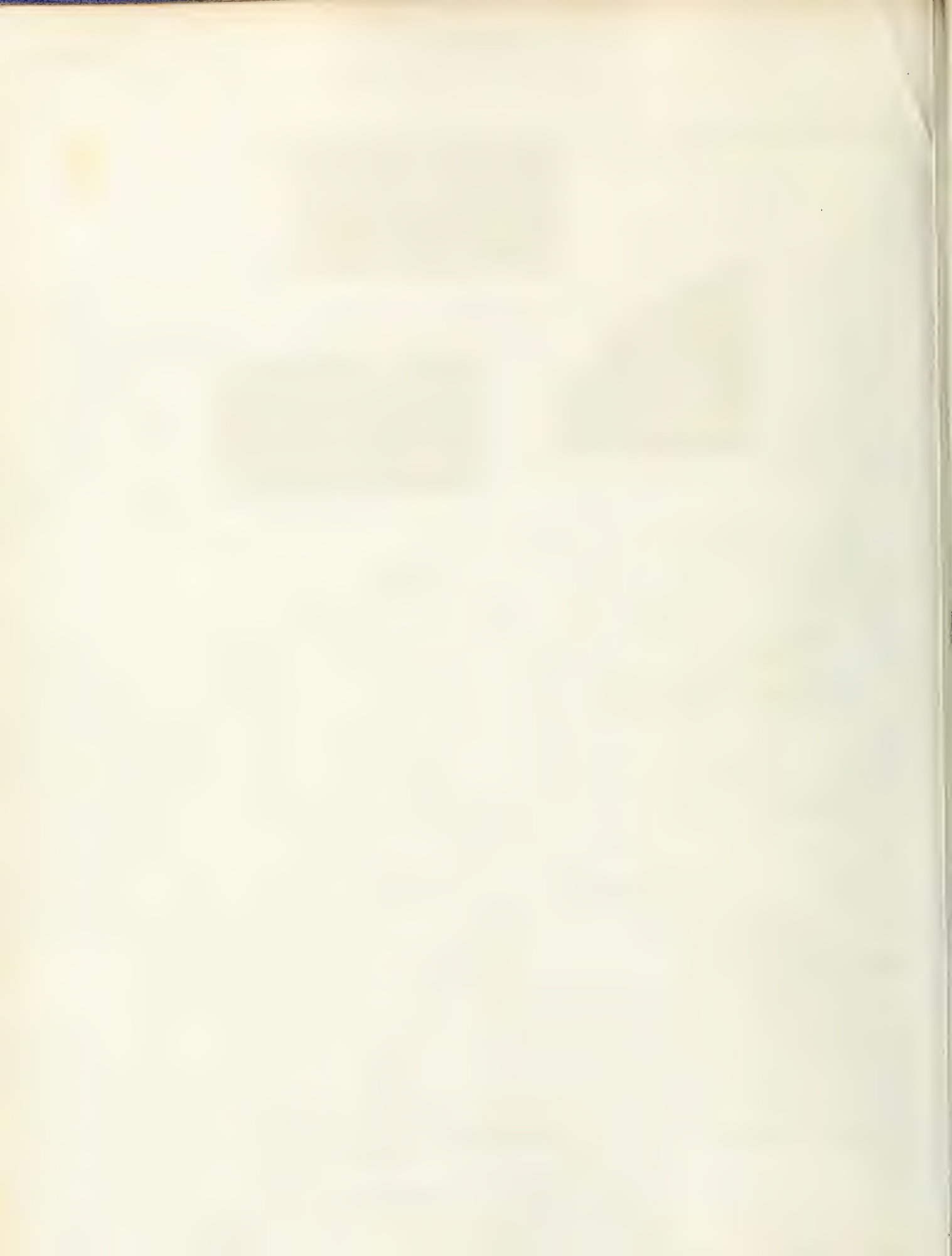
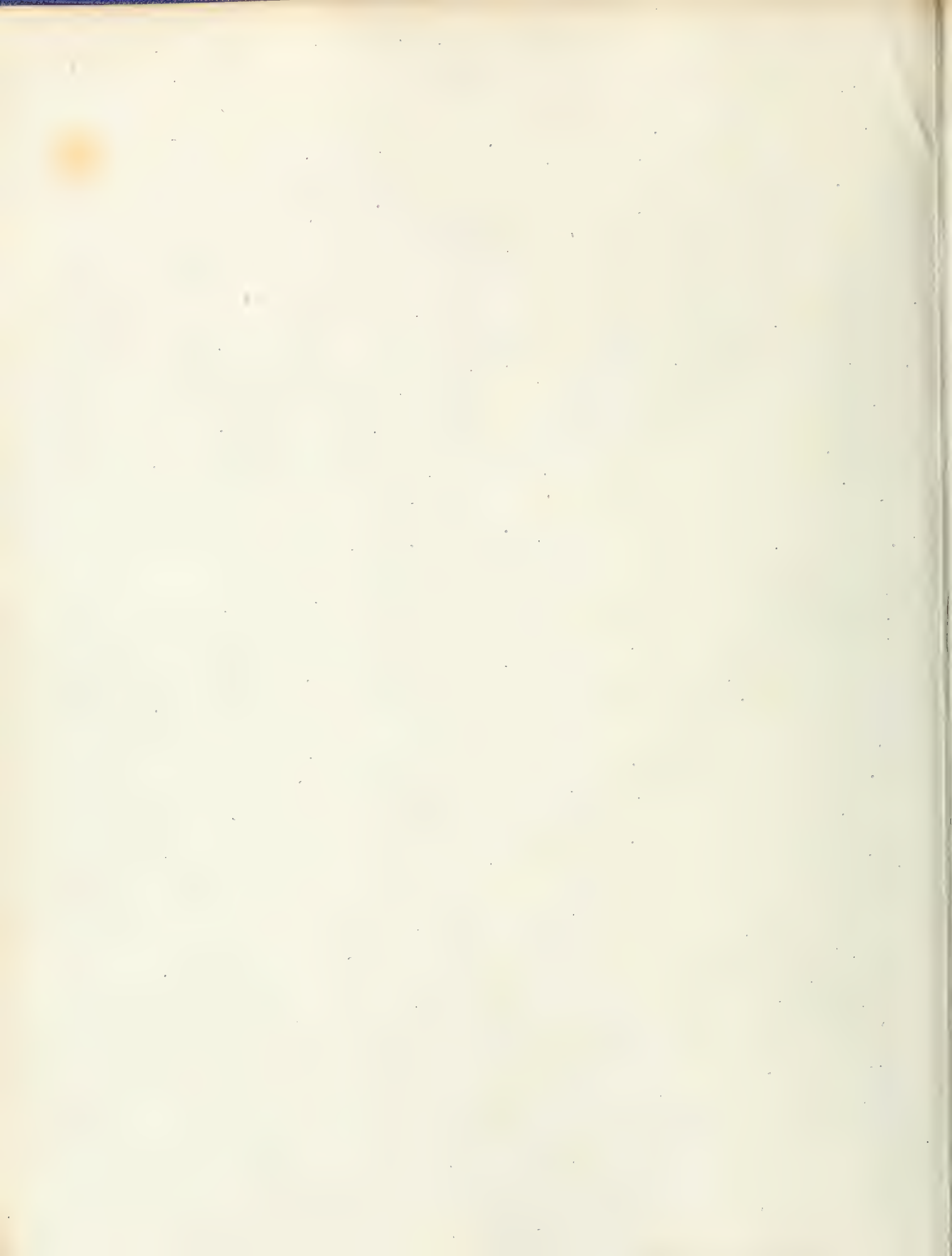


Fig. 8.







GYRATION.

Fig. 1.

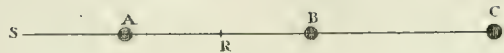


Fig. 4.

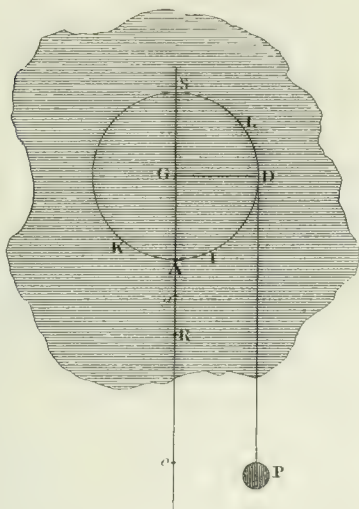


Fig. 2.

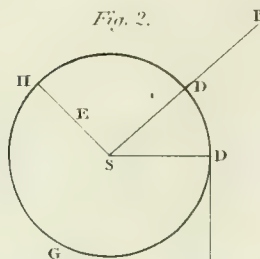


Fig. 3. N° 1.

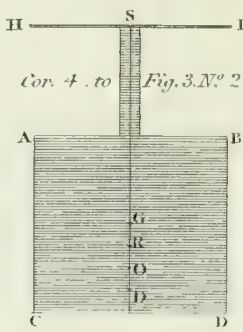
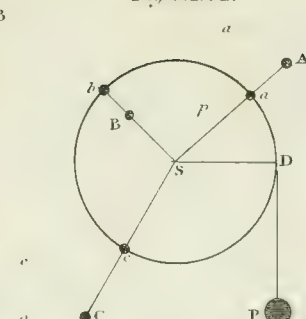


Fig. 3. N° 2.

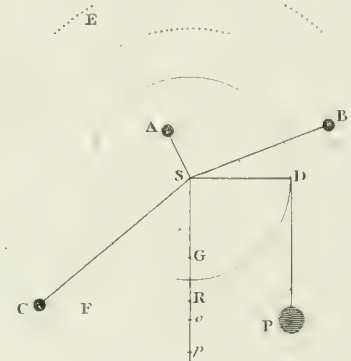
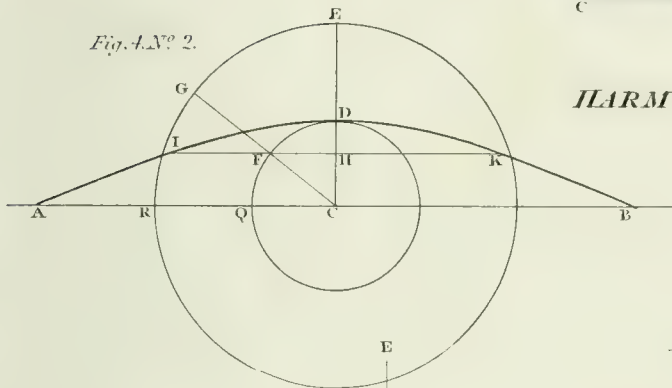


Fig. 4. N° 2.



HARMONIC CURVE.

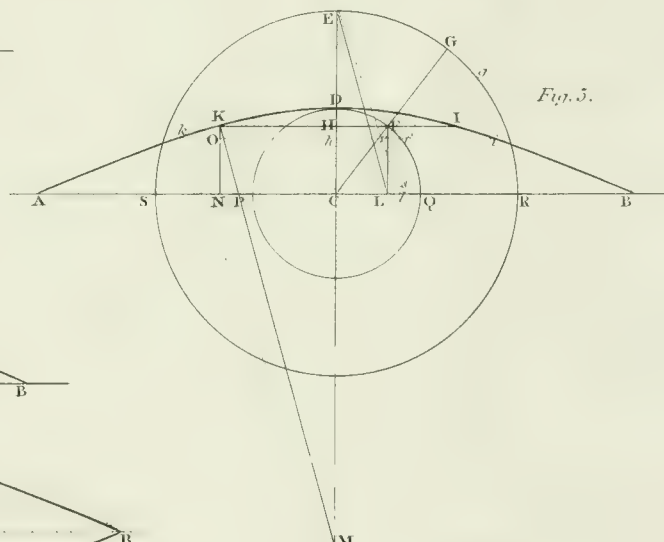


Fig. 6.

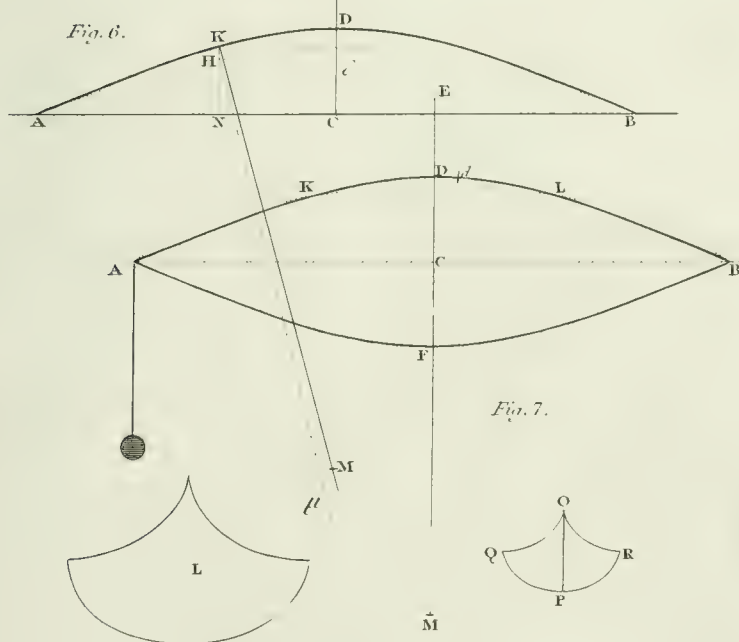


Fig. 7.

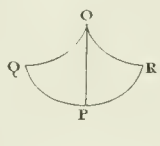
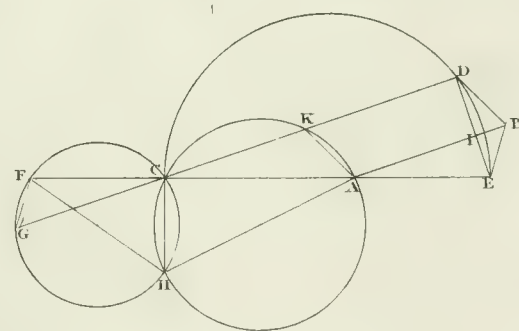
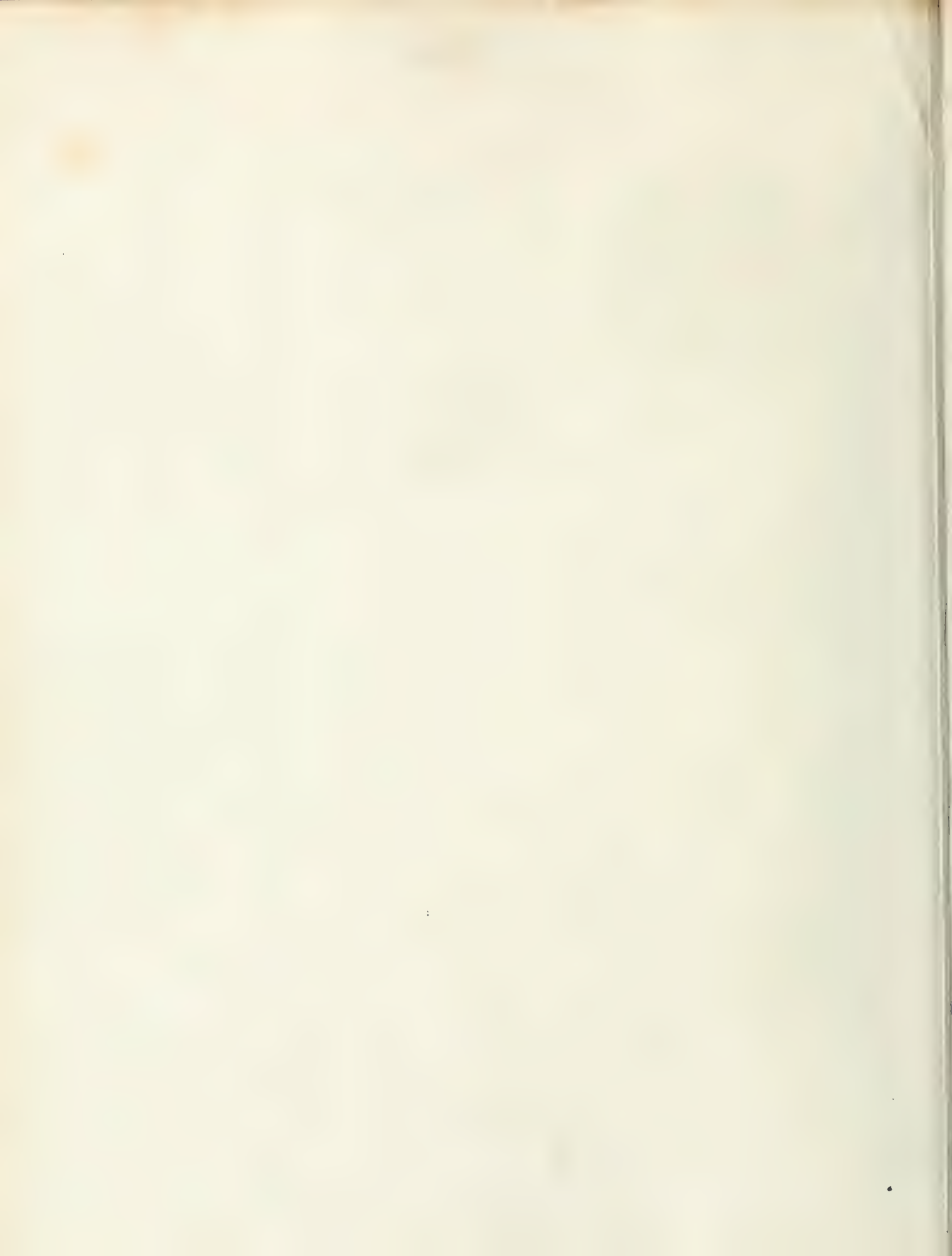
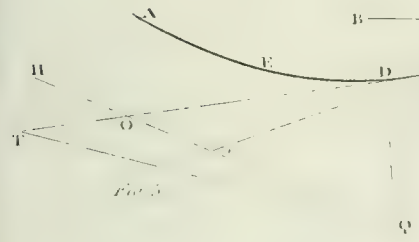
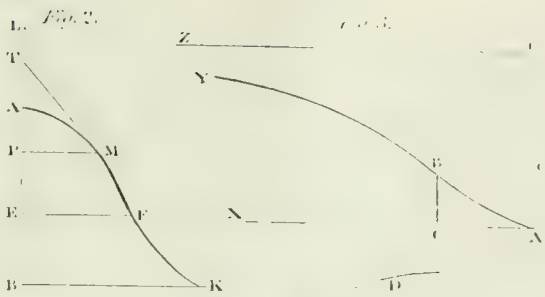
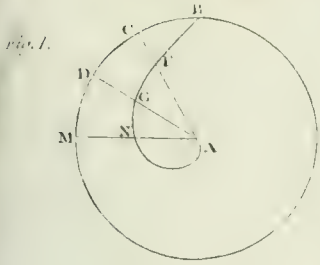


Fig. 8.

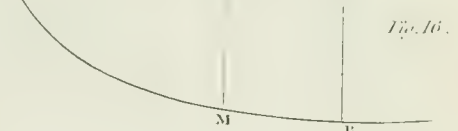
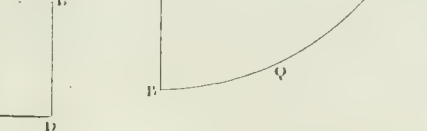
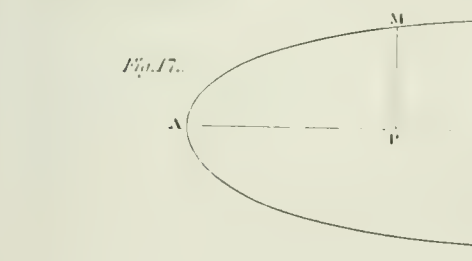
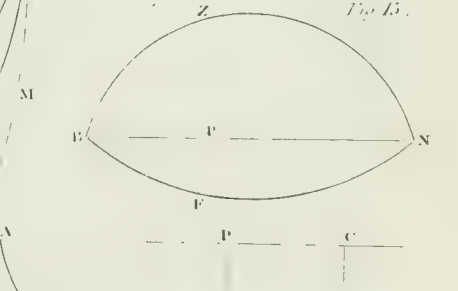
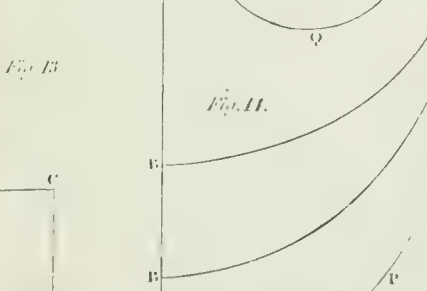
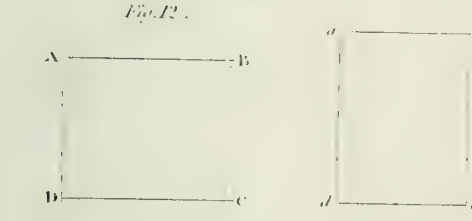
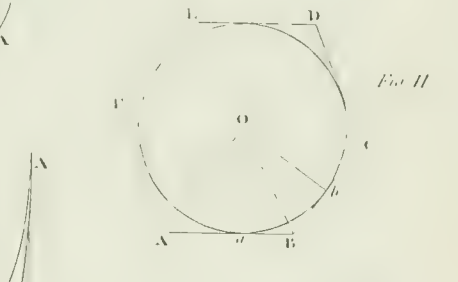
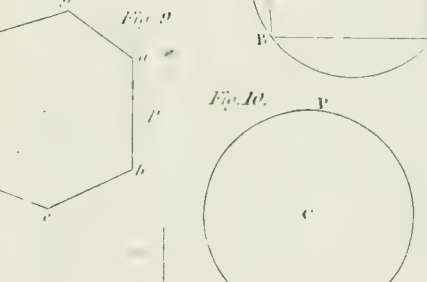
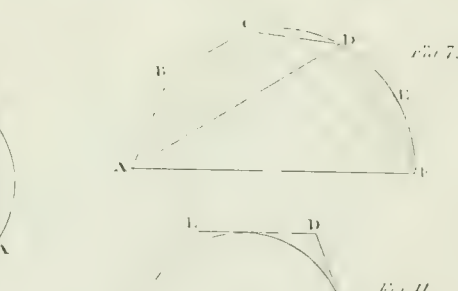
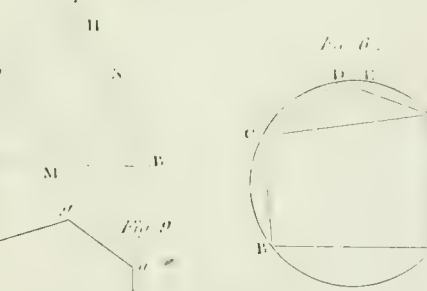
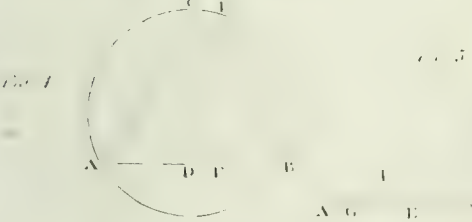
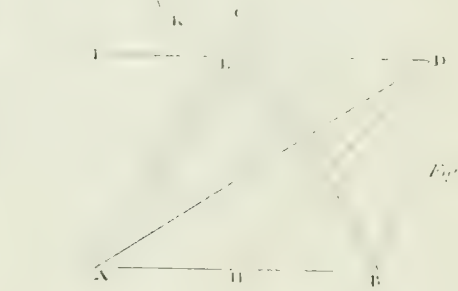
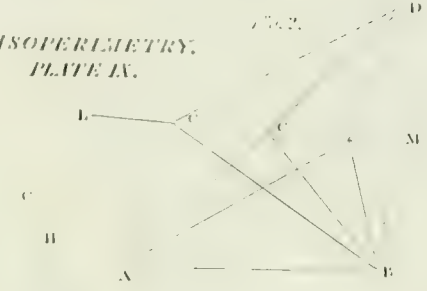
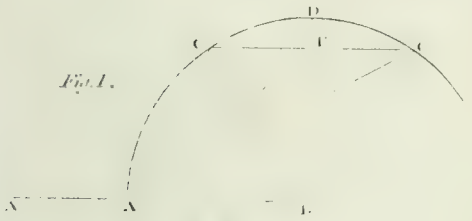


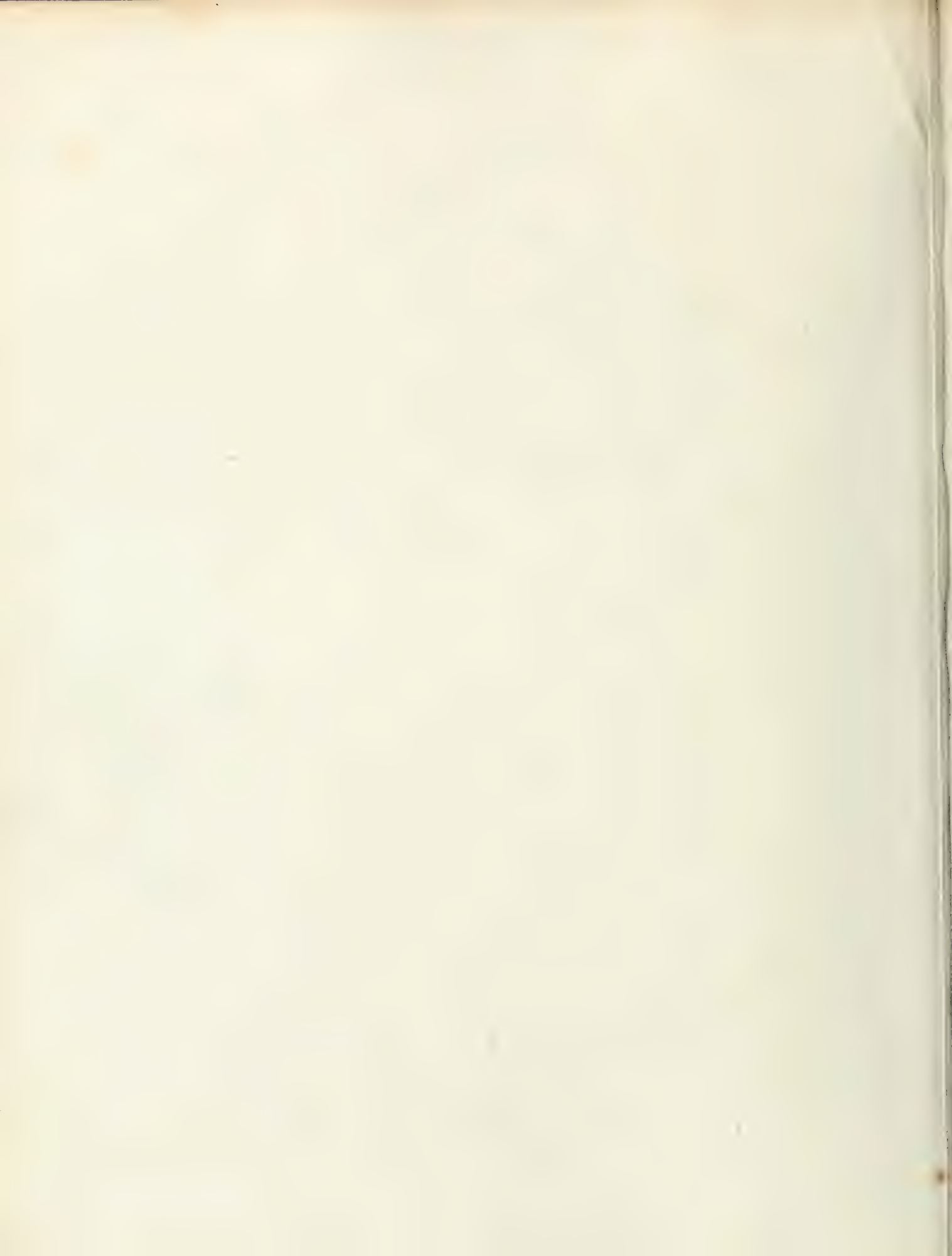


HELICOID.



ISOPERIMETRY.
PLATE IX.





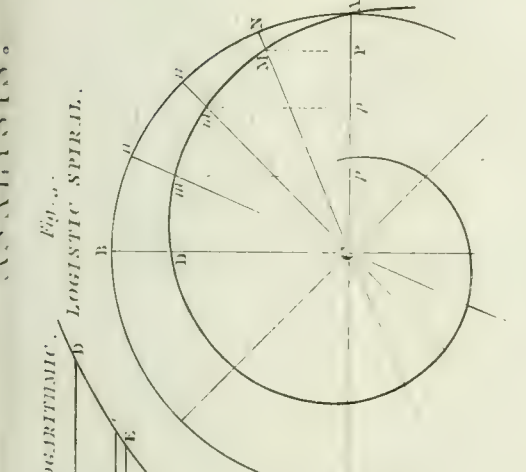
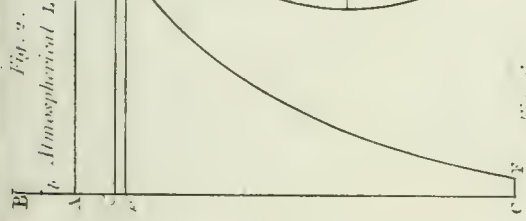
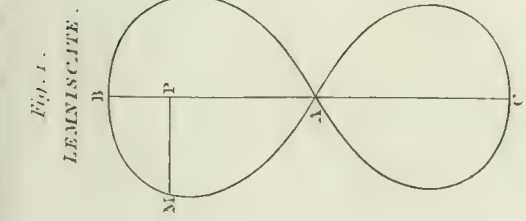


Fig. 1.

LEMNISCATE.

Fig. 2.

Atmospheric LOGARITHMIC.

Fig. 3.

LOGISTIC SPIRAL.

Fig. 4.

LOGISTIC CURVE.

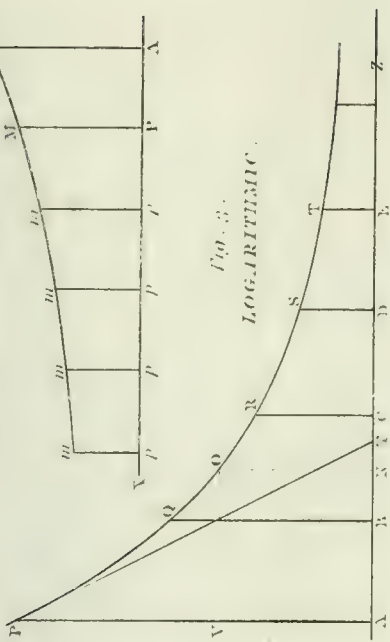


Fig. 5.

LOGARITHMIC.

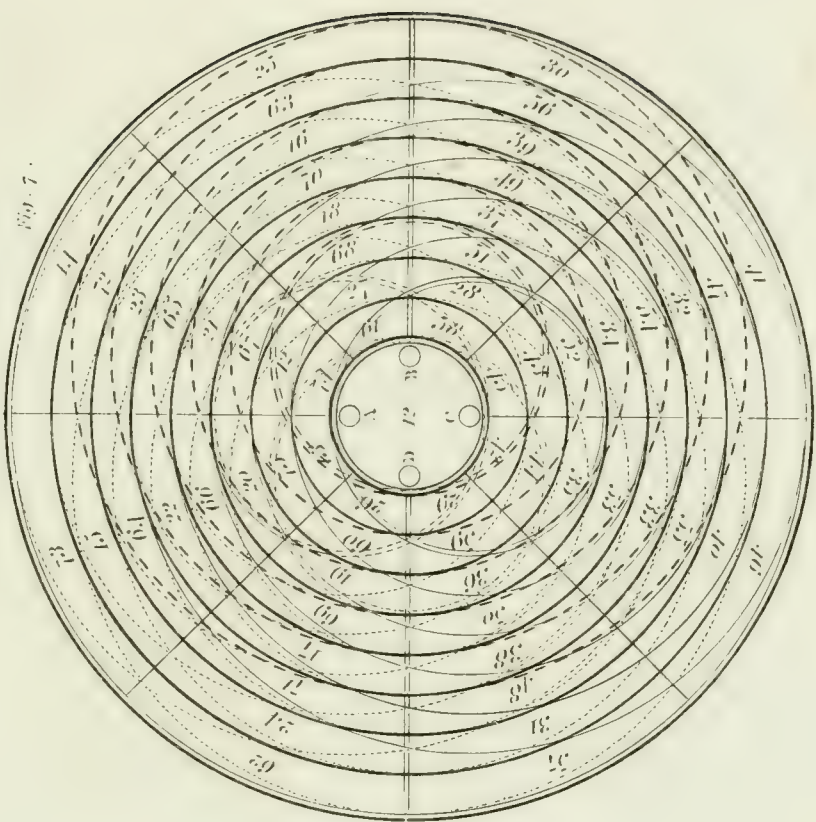
Fig. 6.

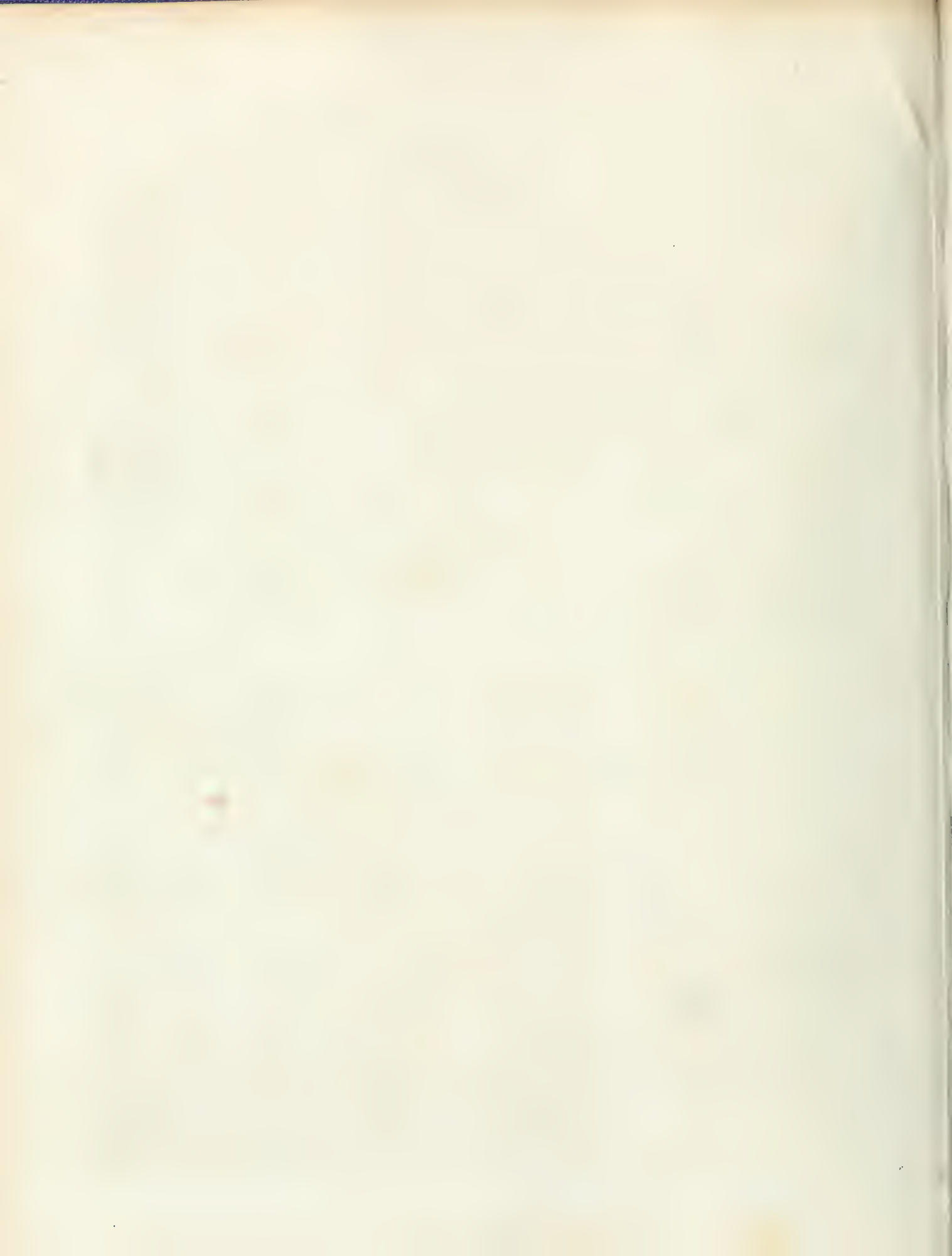
MAGIC Square of Squares.

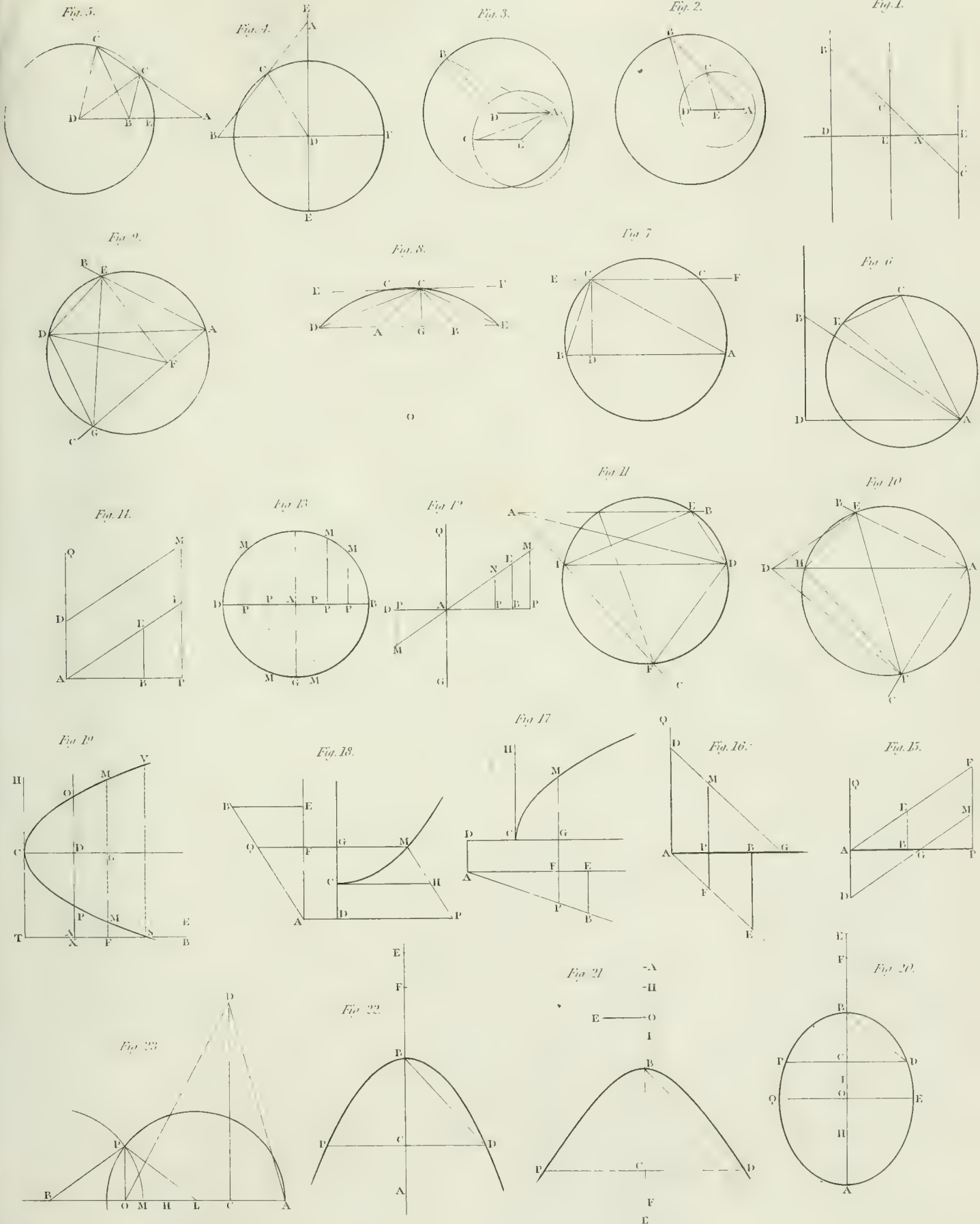
200	217	232	249	8	25	40	57	74	89	104	121	136	153	168	184
58	39	26	7	250	234	248	469	186	187	154	135	122	103	90	74
198	219	230	231	6	27	38	59	79	94	109	123	134	155	166	187
60	37	28	5	252	240	250	477	188	183	156	138	124	104	92	69
201	216	233	246	9	24	41	56	73	88	105	120	137	152	160	181
55	12	23	40	247	234	245	492	189	170	151	135	119	106	87	71
203	214	235	246	11	22	33	54	72	86	107	118	130	150	171	182
53	14	21	42	243	236	243	494	190	172	149	140	117	108	85	76
205	212	237	244	13	20	35	52	77	84	103	116	114	118	123	130
51	16	19	44	245	238	241	496	179	171	147	142	125	120	83	78
207	210	239	242	15	18	47	50	79	82	104	111	123	146	143	148
49	18	17	46	241	240	248	477	177	176	145	144	122	122	84	82
196	221	228	233	4	29	36	64	63	93	100	125	132	157	164	180
62	35	29	3	254	227	222	495	195	163	158	134	126	99	94	67
194	223	226	235	2	31	34	63	66	95	98	127	130	159	162	184
64	33	32	1	256	225	224	493	192	164	164	129	128	97	96	65

MAGIC Circle of Circles.

Fig. 7.







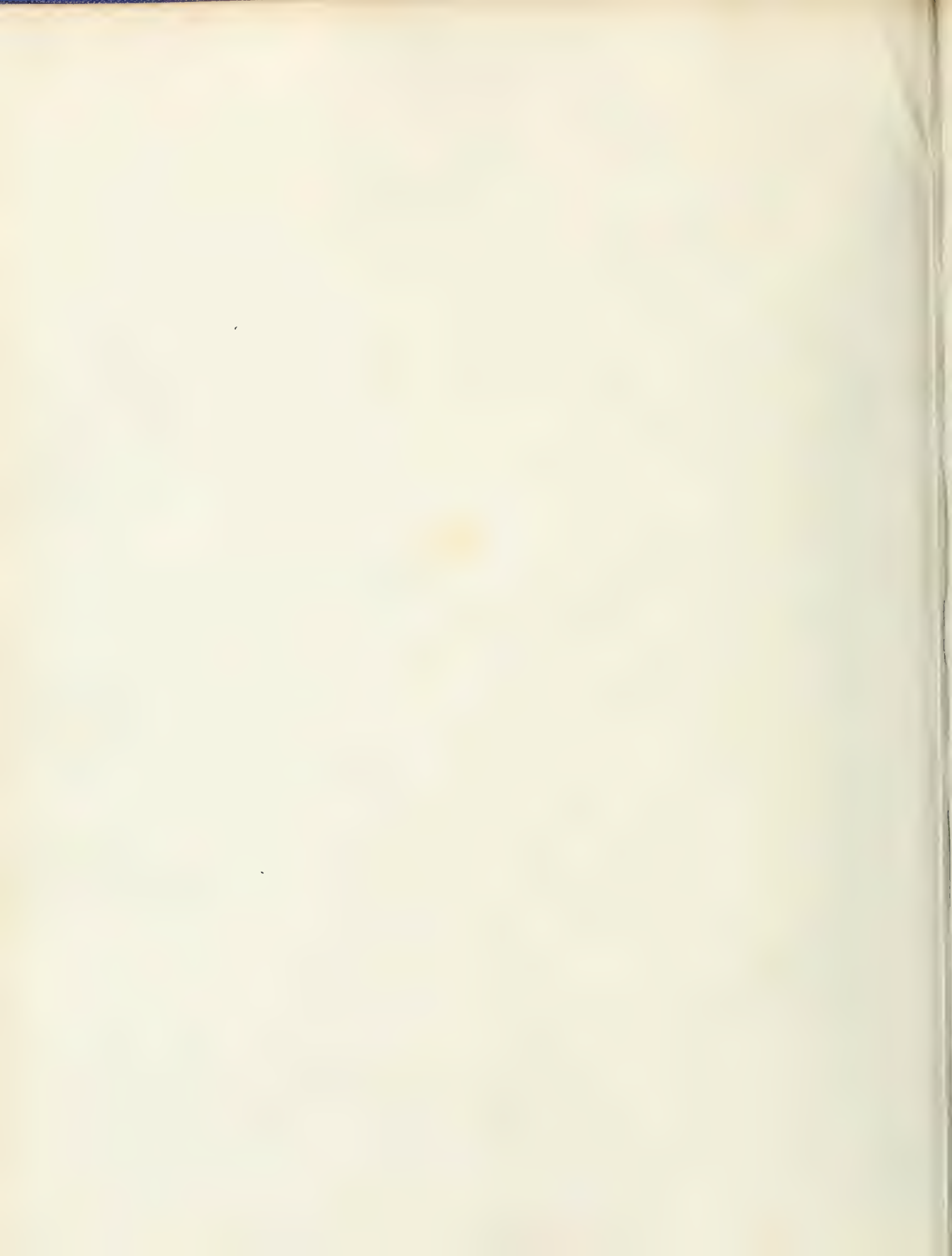


Fig. 1. MAXIMA and MINIMA.

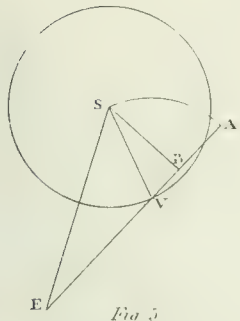
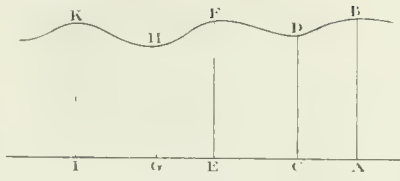


Fig. 2.



PARABOLIC Concus.

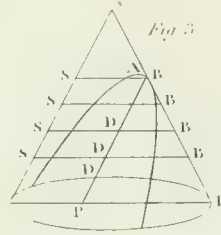
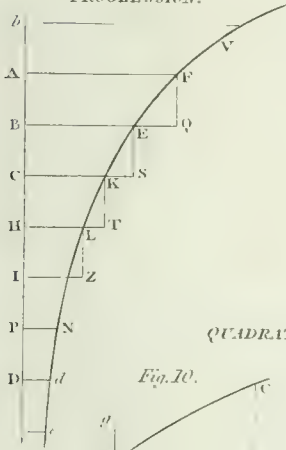


Fig. 4.

Analytic PARALLELOGRAM.

A	x^1	$x^2 y$	$x^3 y^2$	$x^4 y^3$	$x^5 y^4$	D
	x^1	$x^2 y$	$x^3 y^2$	$x^4 y^3$	$x^5 y^4$	
	x^1	$x^2 y$	$x^3 y^2$	$x^4 y^3$	$x^5 y^4$	
	x^1	$x^2 y$	$x^3 y^2$	$x^4 y^3$	$x^5 y^4$	
	x^1	$x^2 y$	$x^3 y^2$	$x^4 y^3$	$x^5 y^4$	
E	y^1	y^2	y^3	y^4	y^5	C

Fig. 5. PROGRESSION.



QUADRATIC Equation.

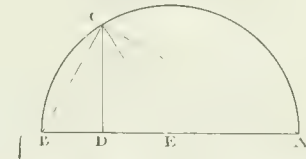


Fig. 6.

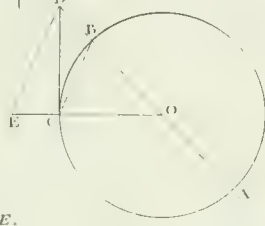
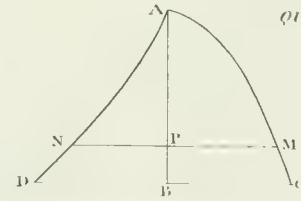
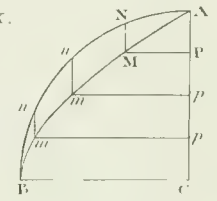


Fig. 7.



QUADRATRIX.

Fig. 9.



QUADRATURE.

Fig. 10.

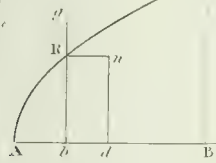


Fig. 11.

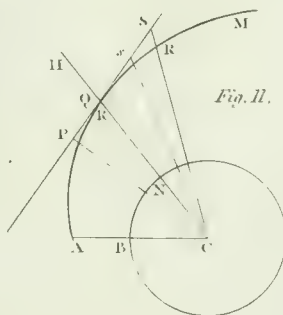


Fig. 8.

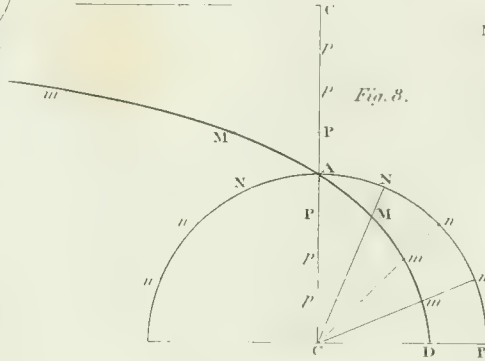


Fig. 12.

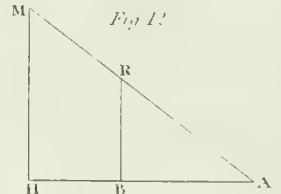


Fig. 13.

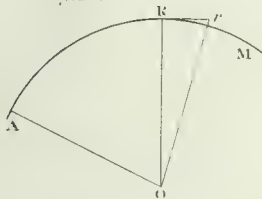


Fig. 14.

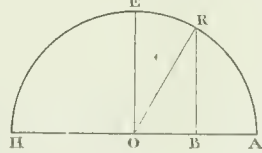


Fig. 15.

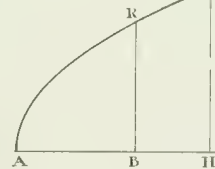


Fig. 16.

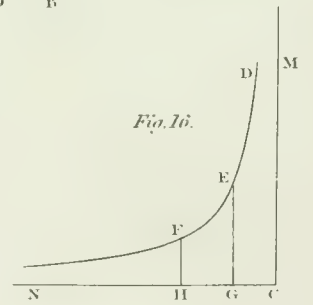


Fig. 18.

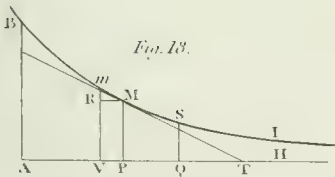


Fig. 19.

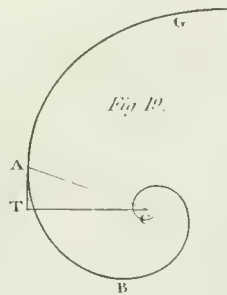


Fig. 17.

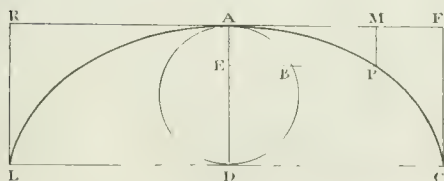
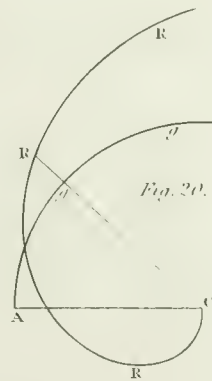
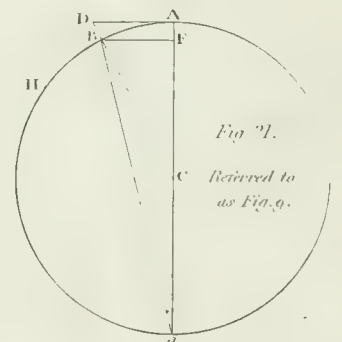


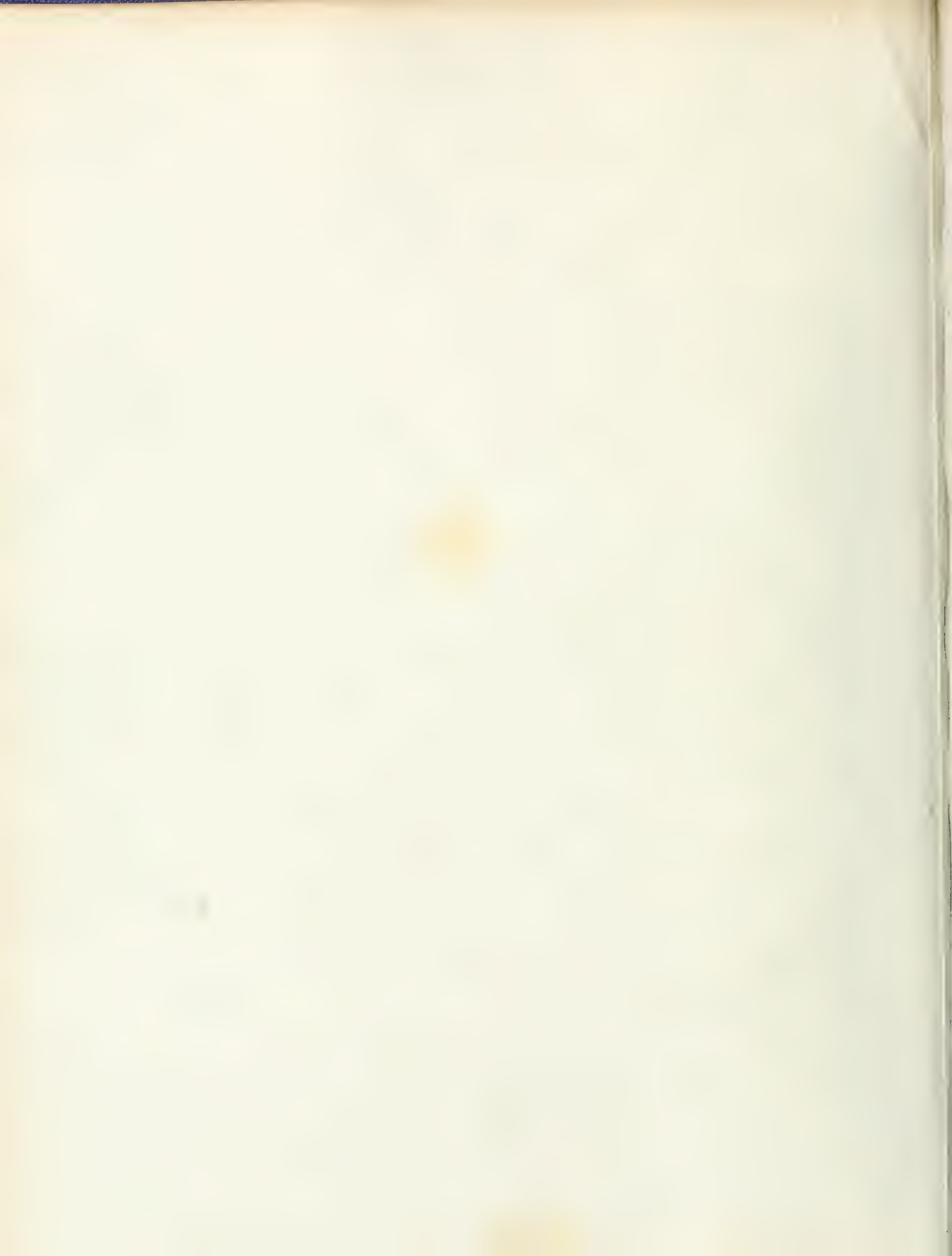
Fig. 20.



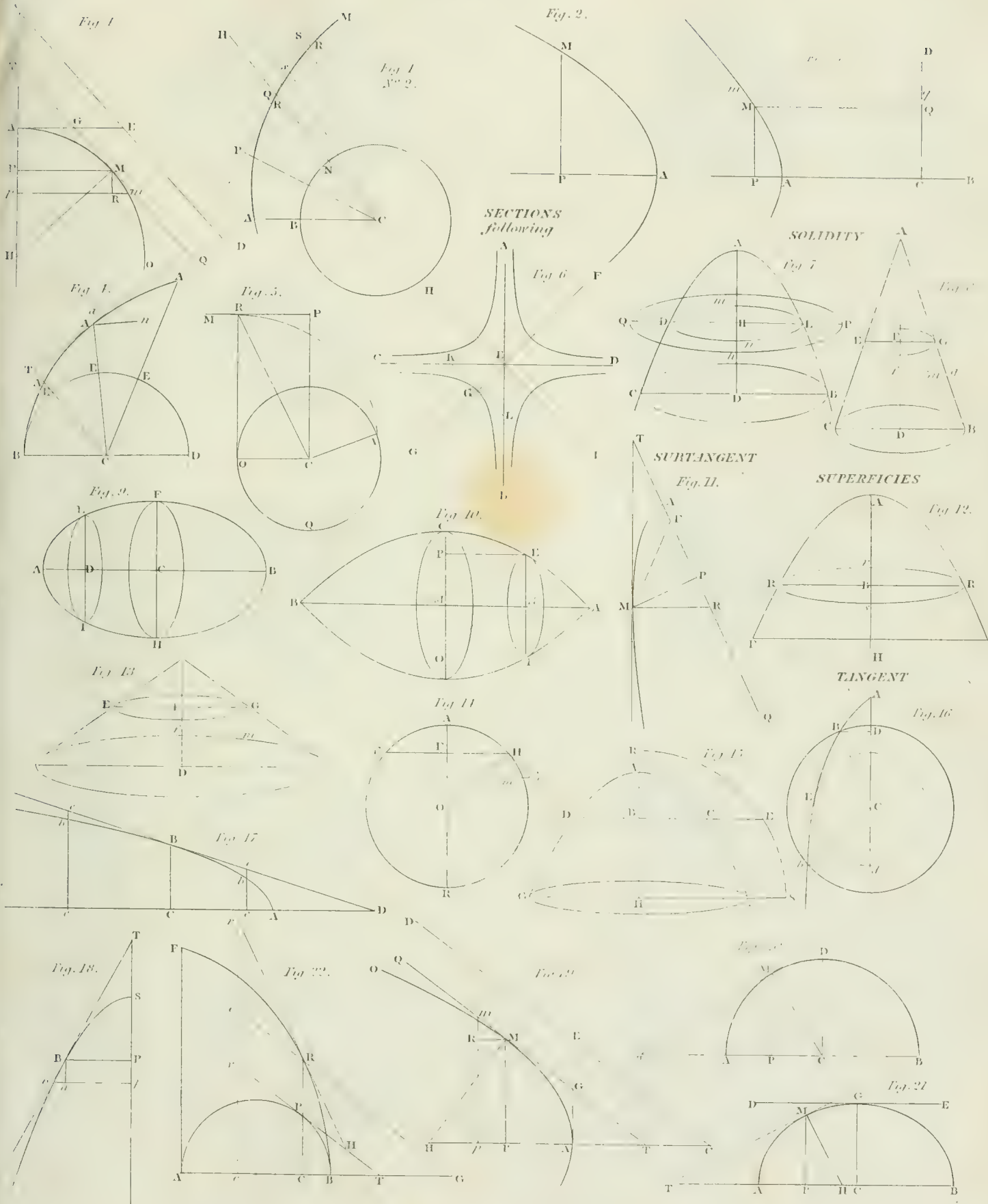
RATIO.

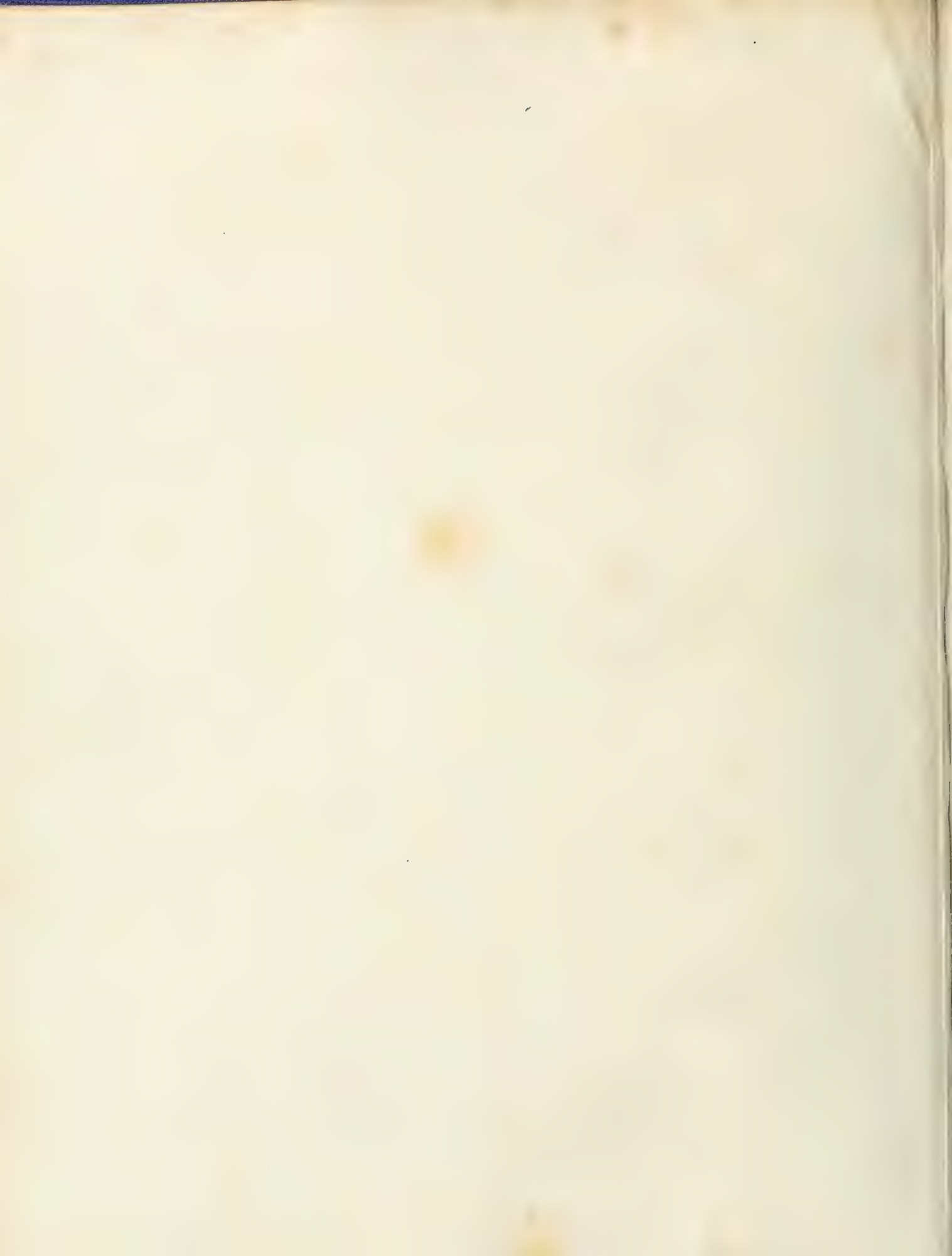
Fig. 21. Retrieved to as Fig. 9.





RECTIFICATION.





ANATOMY.

Organs of Sense.
Eye.

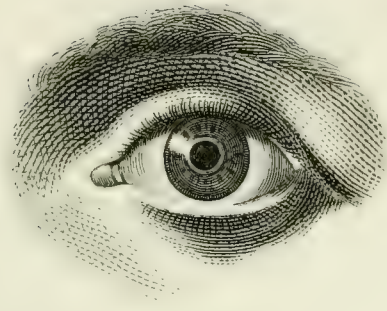


FIG. I.



II



III



IV



V





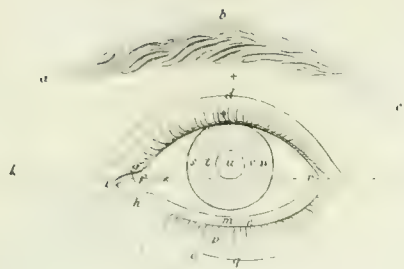
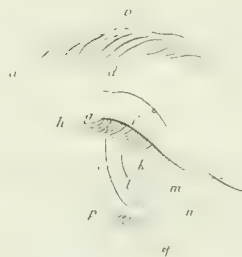


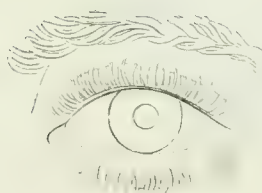
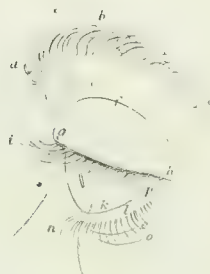
FIG. 1.



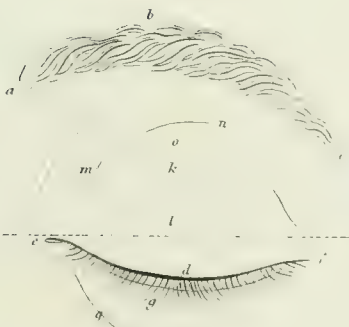
II.



III.

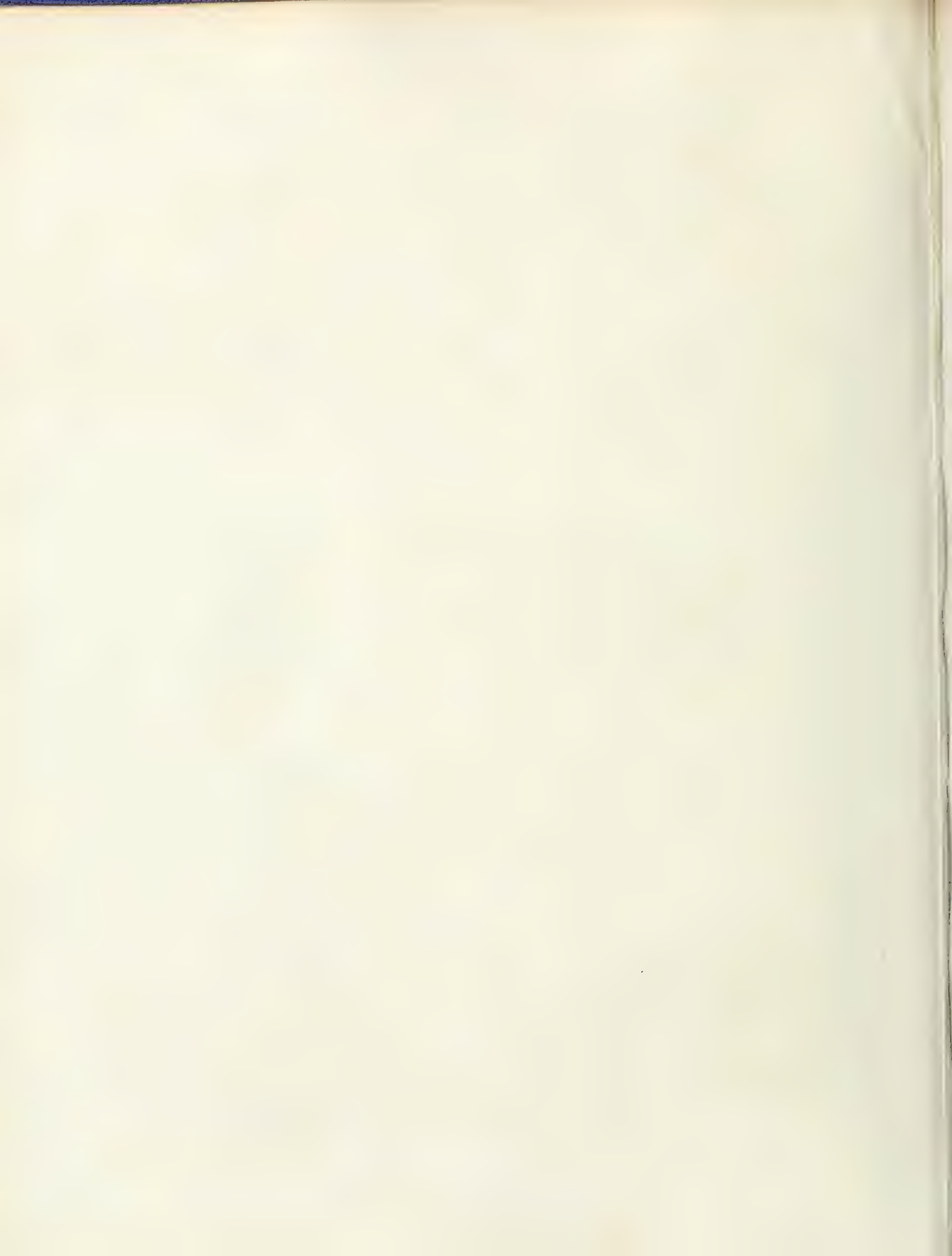


IV.



V.





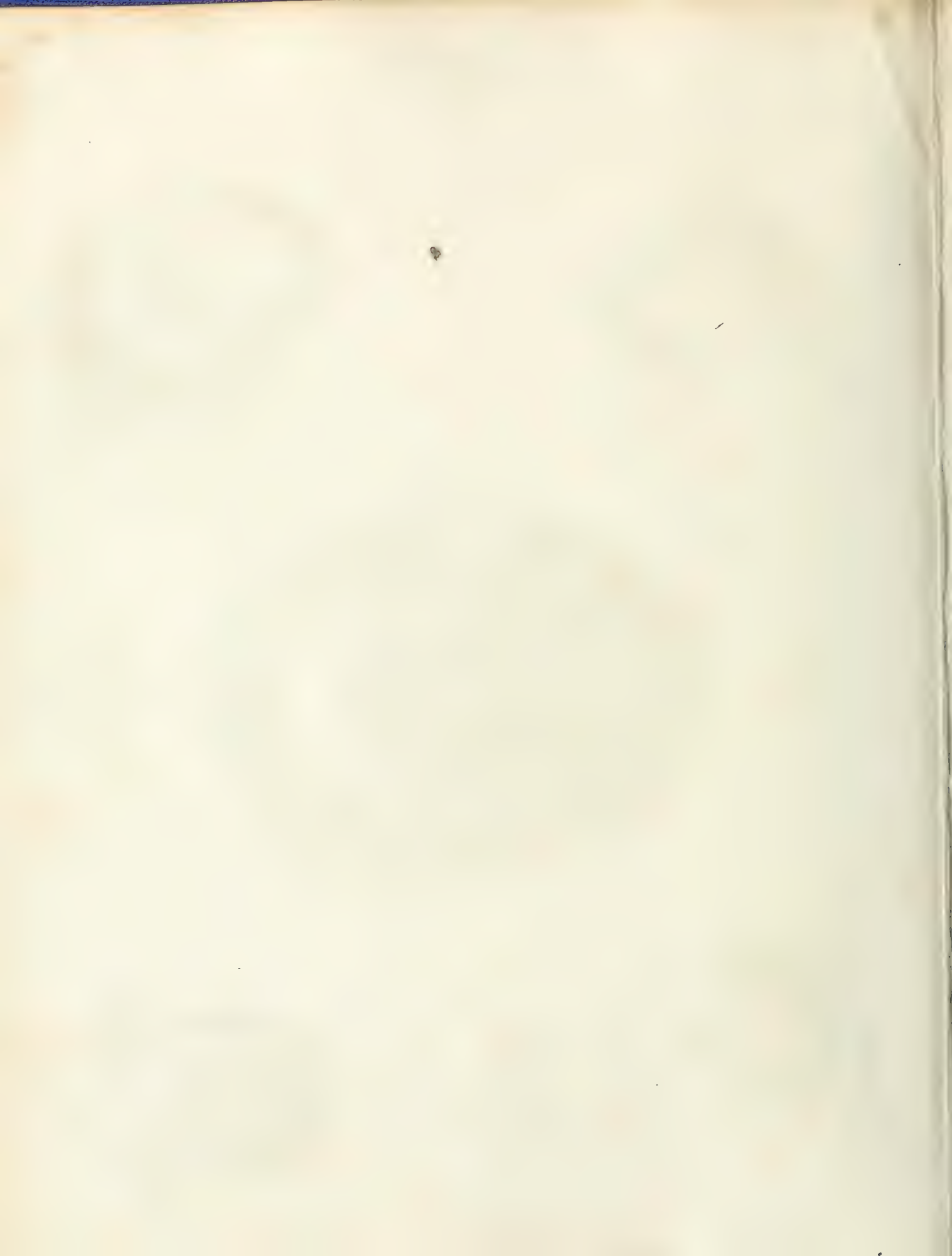
ANATOMY.

Organs of Sense.

Eye.

FIG. 1.





Organs of Sense.
Eye.

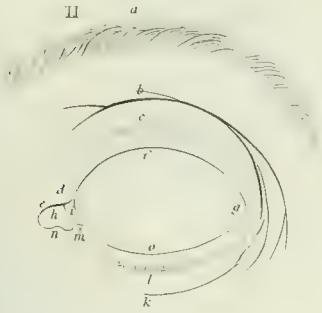
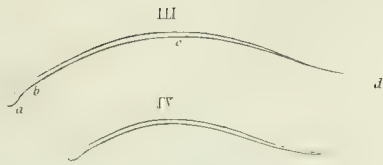
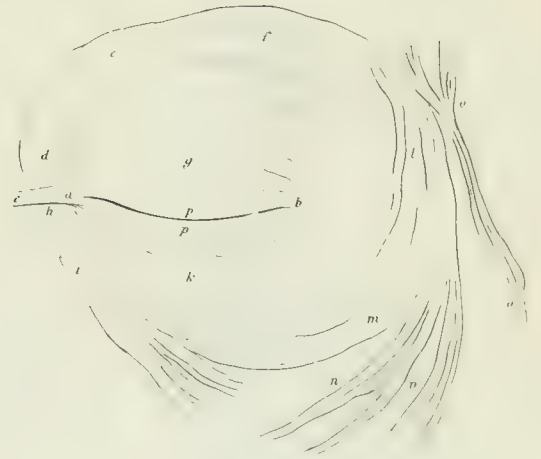
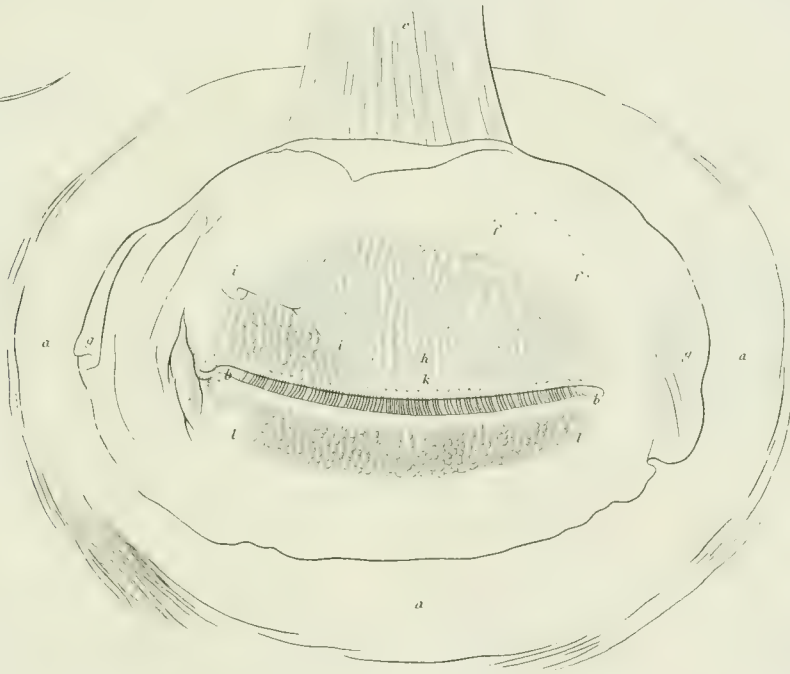


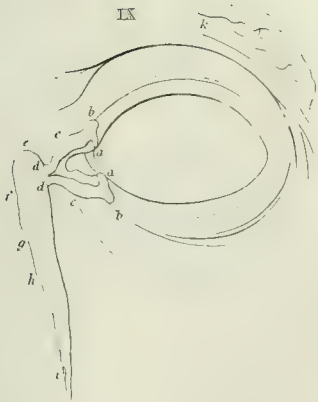
FIG. I.



VIII



IX



X



XI



VII

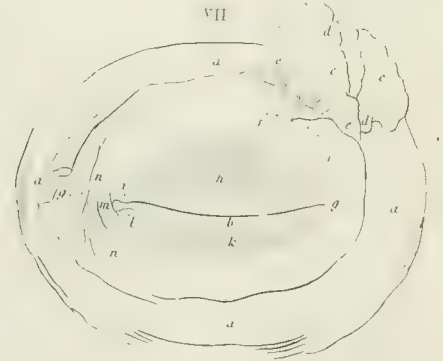
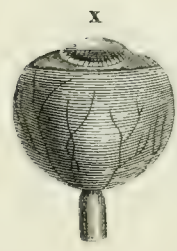
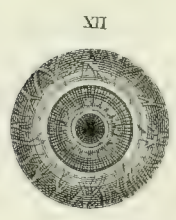
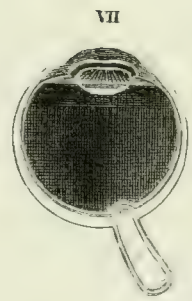
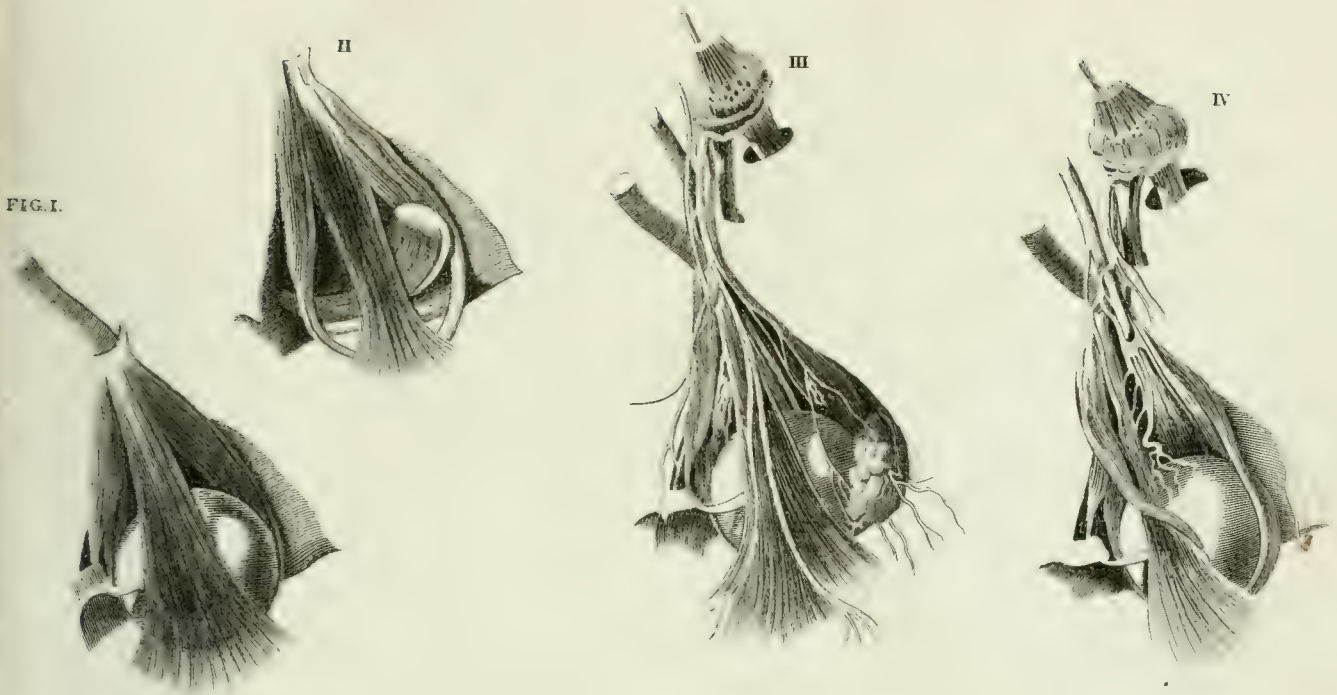
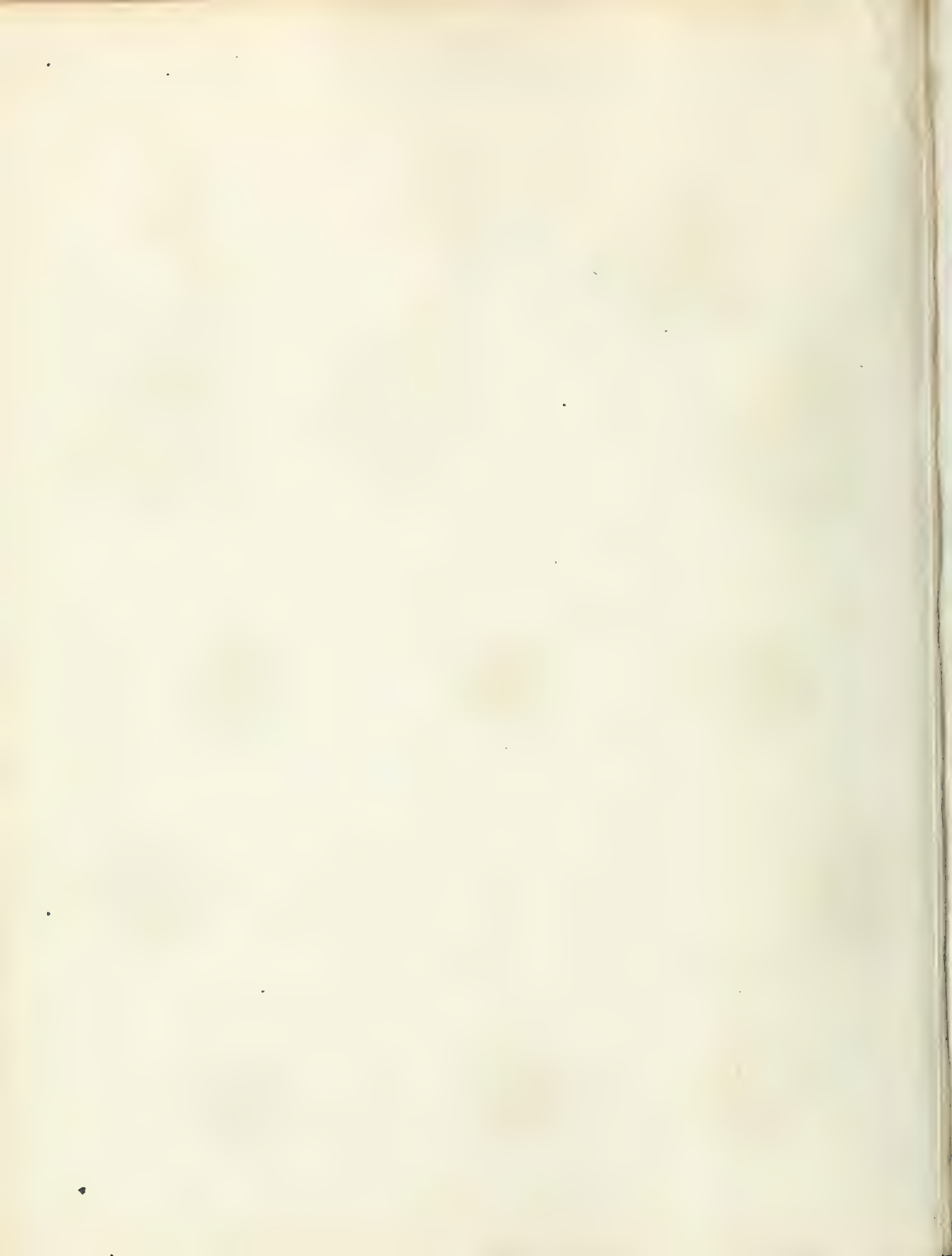


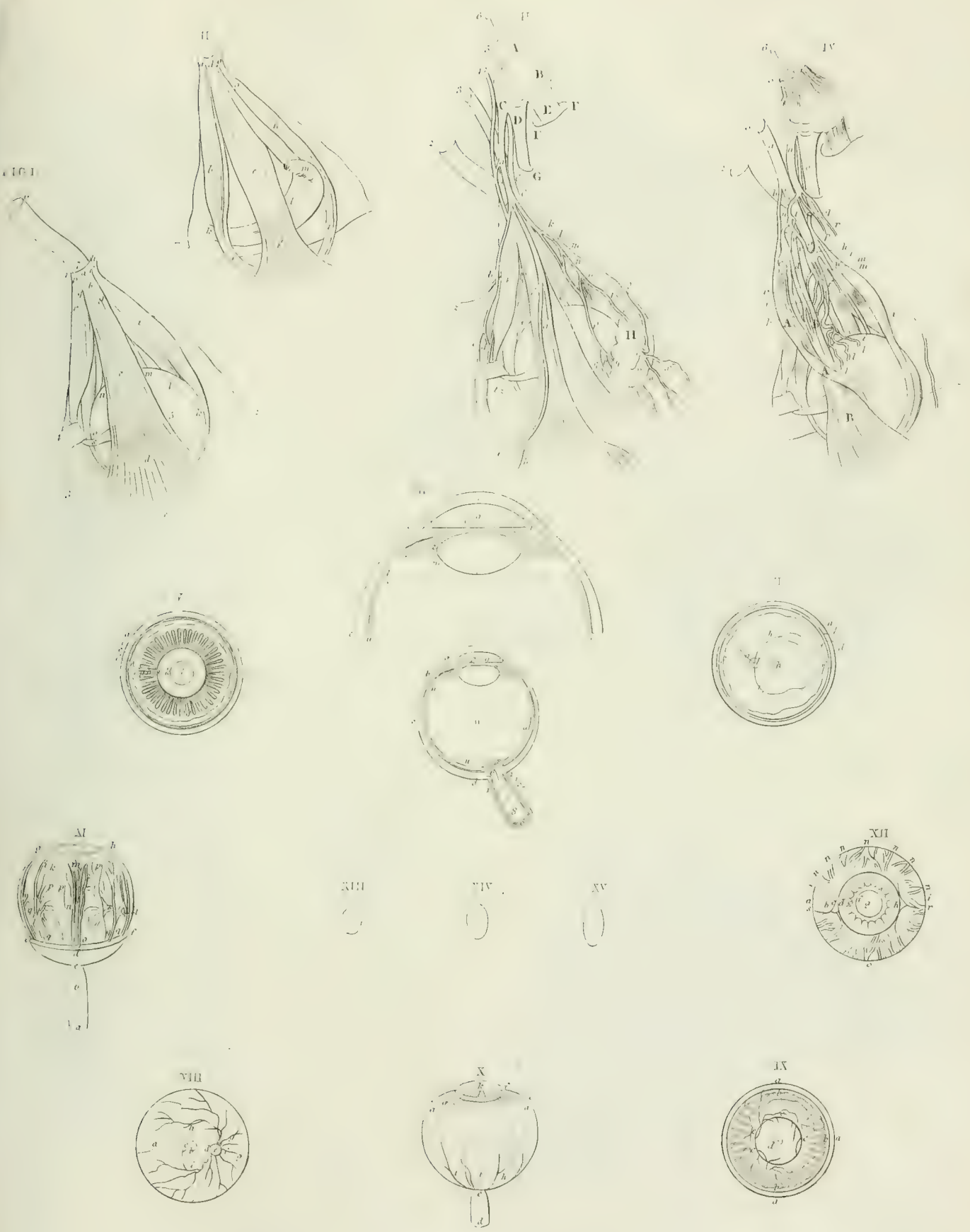


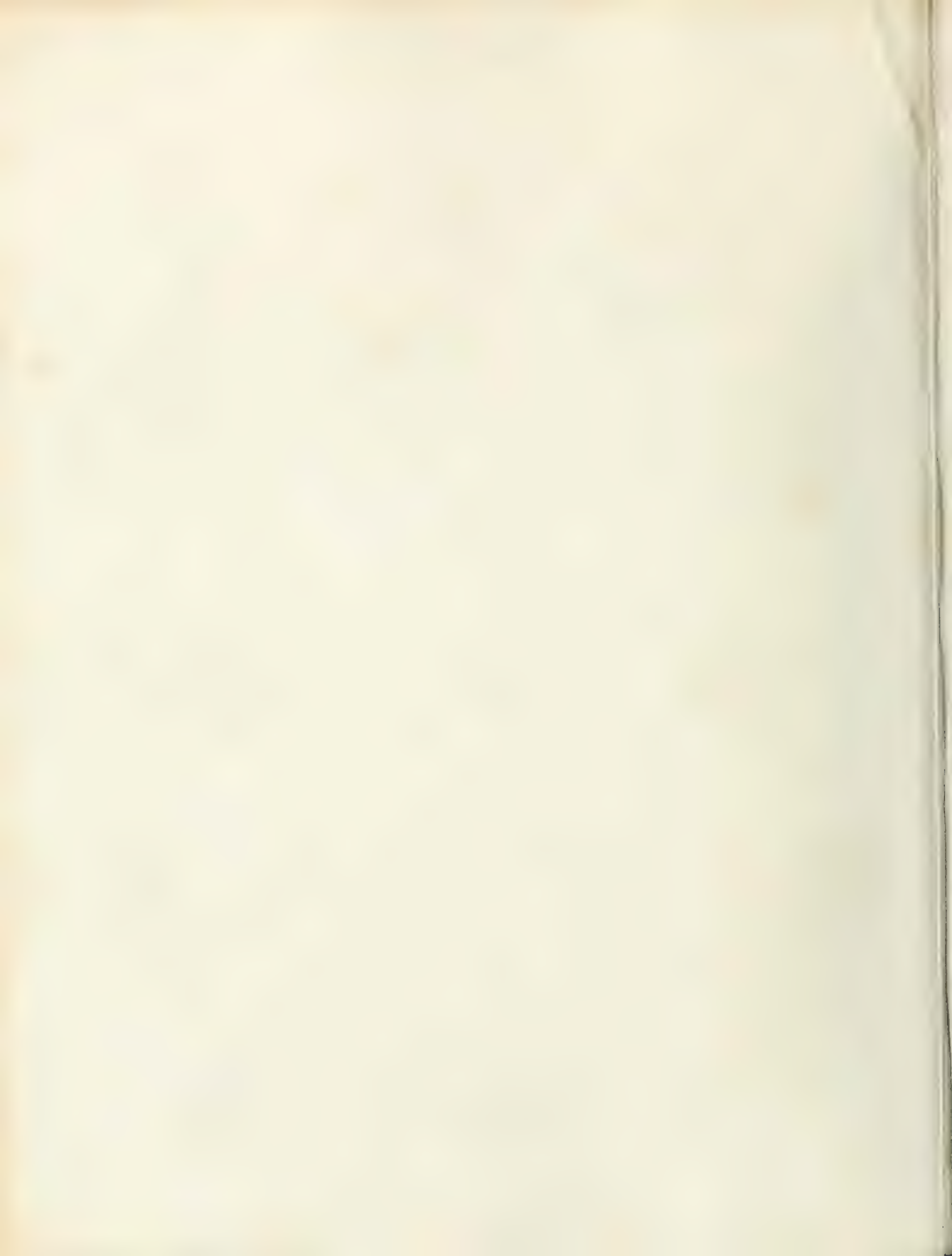
FIG. I.





161



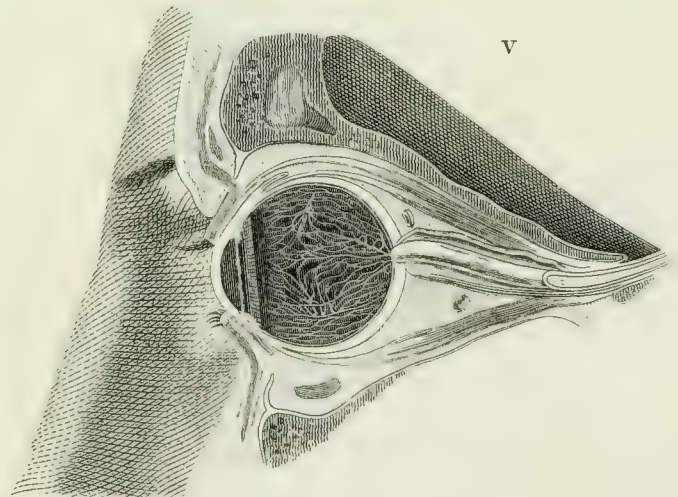
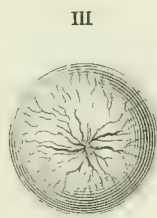
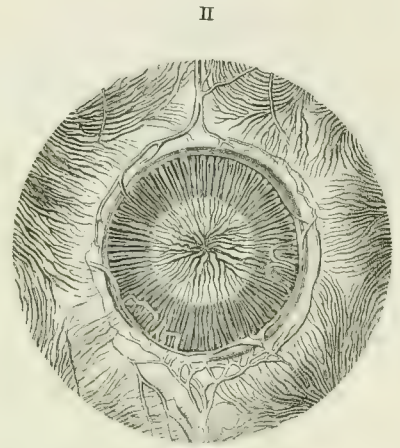
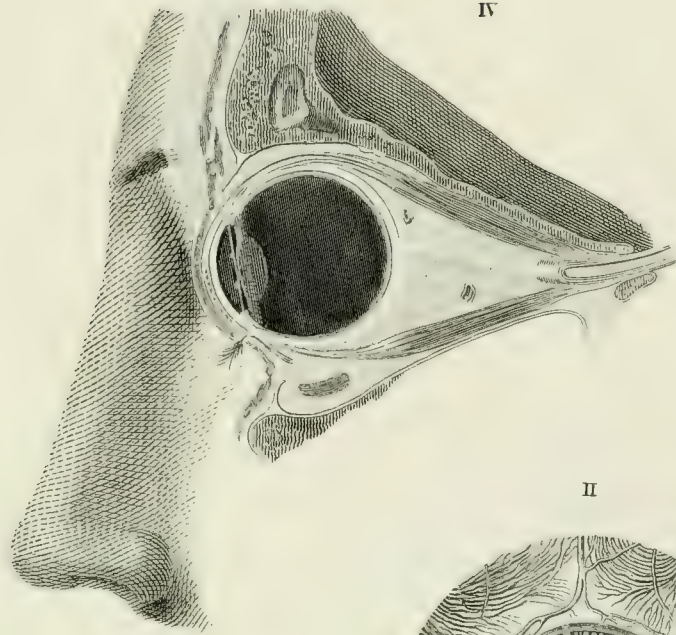


ANATOMY.

Organs of Sense.

Eye

FIG. I.

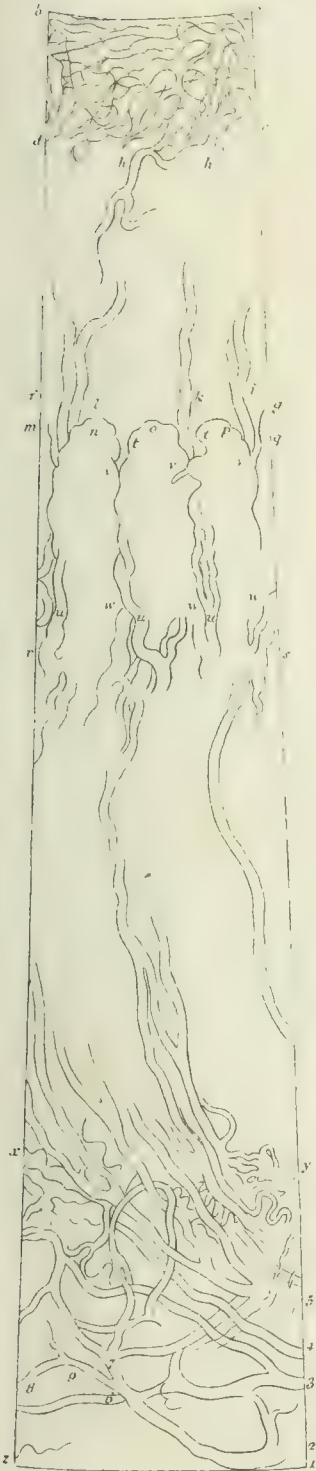




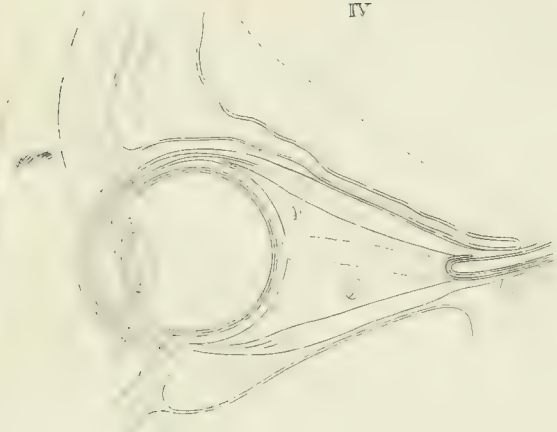
Organs of Sense.

Eye.

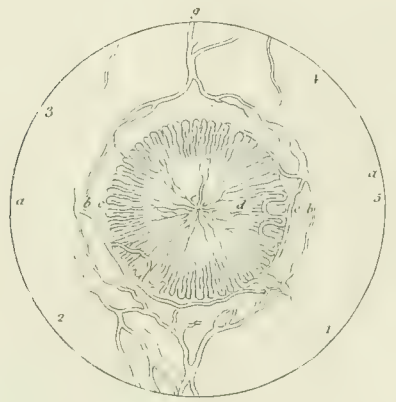
FIG. 1.



IV



II



V



VI



III



V



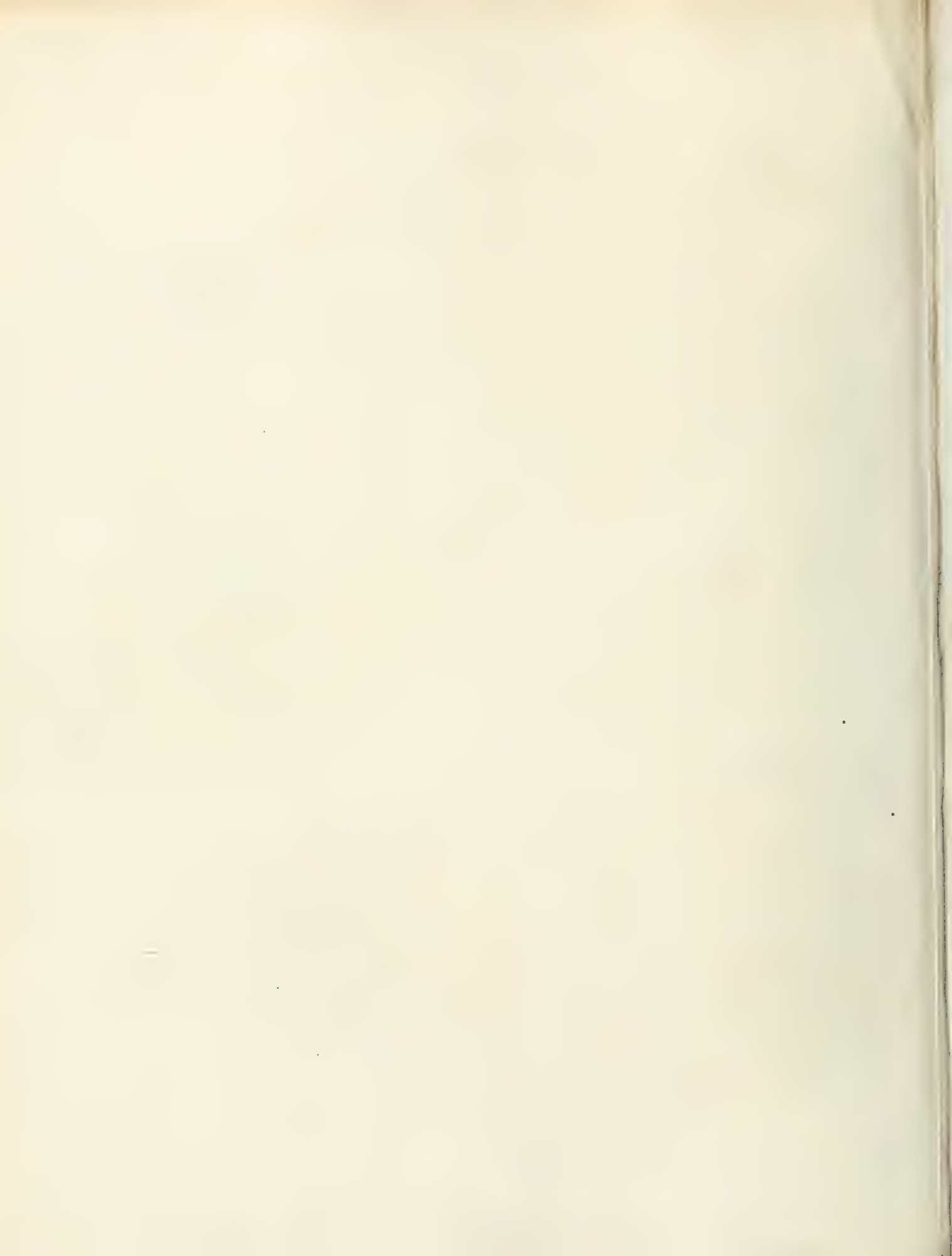
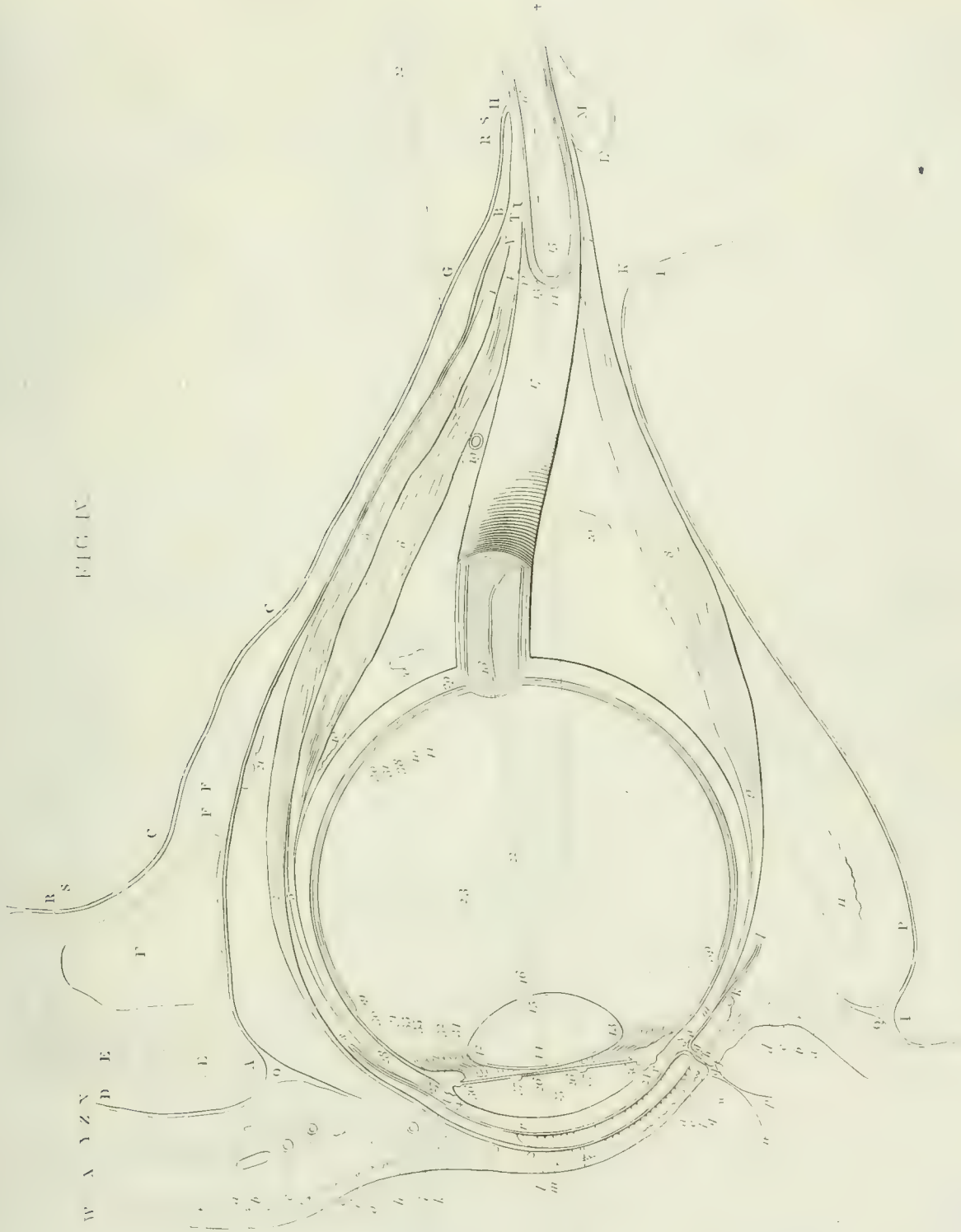
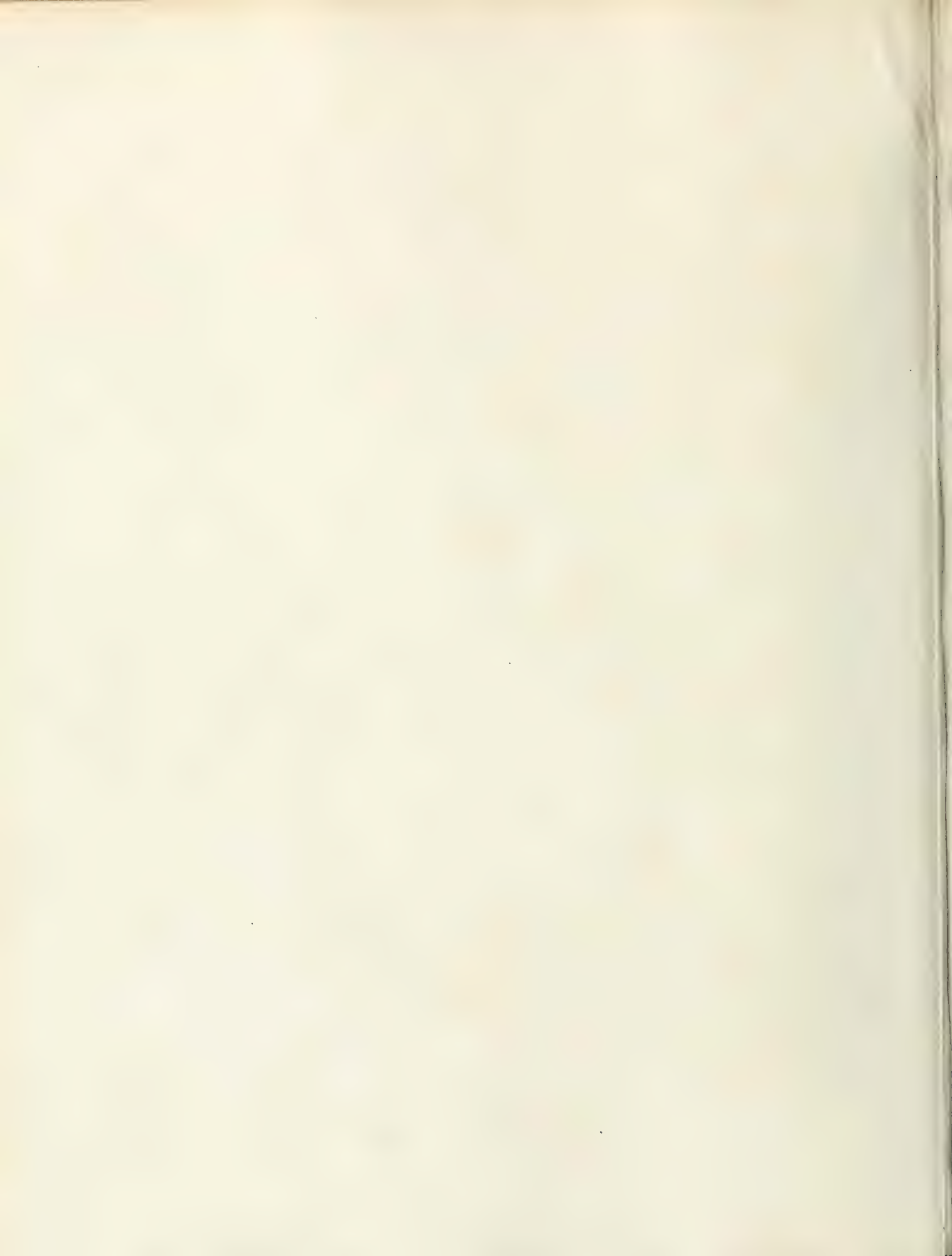


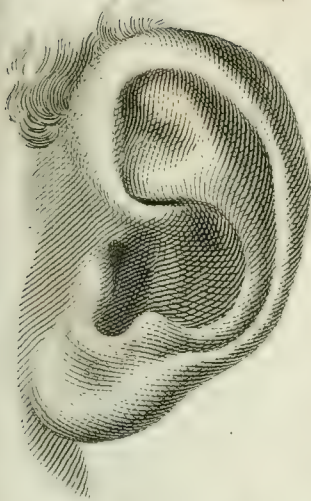
FIG IV



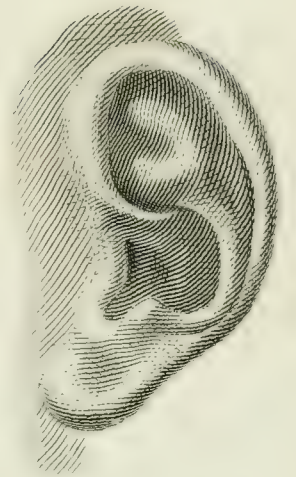


ANATOMY.
Organs of Sense.
Ear.

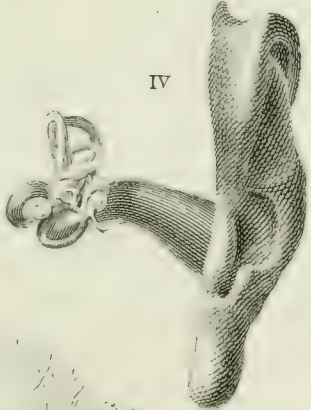
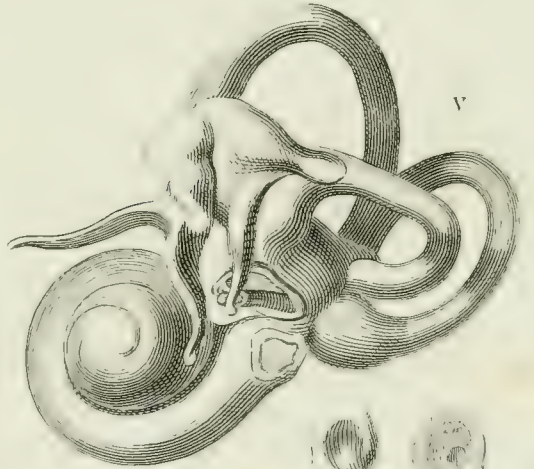
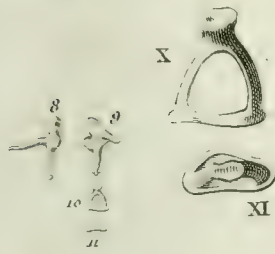
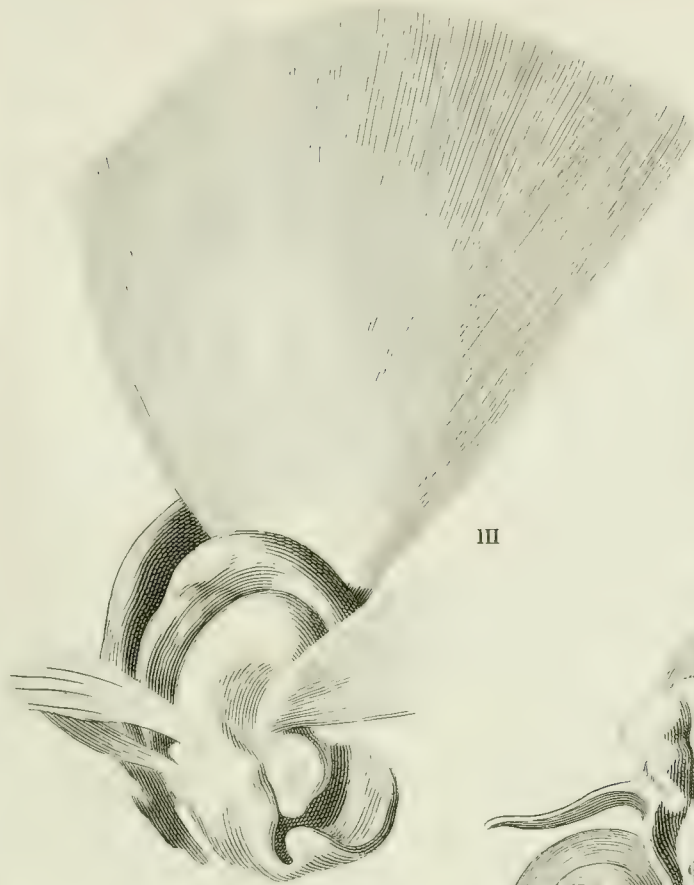
FIG. 1



II



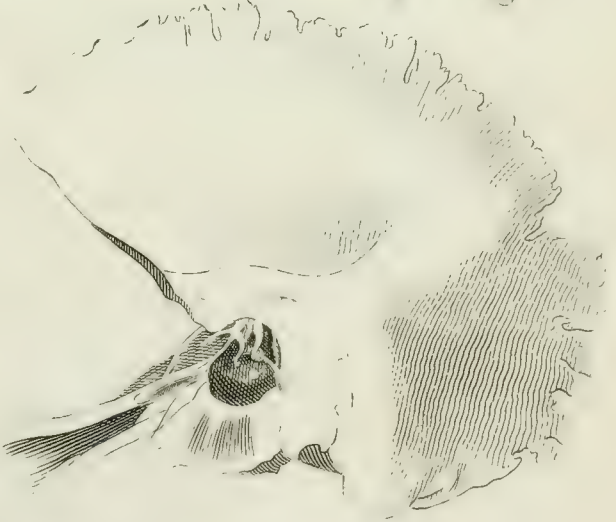
III

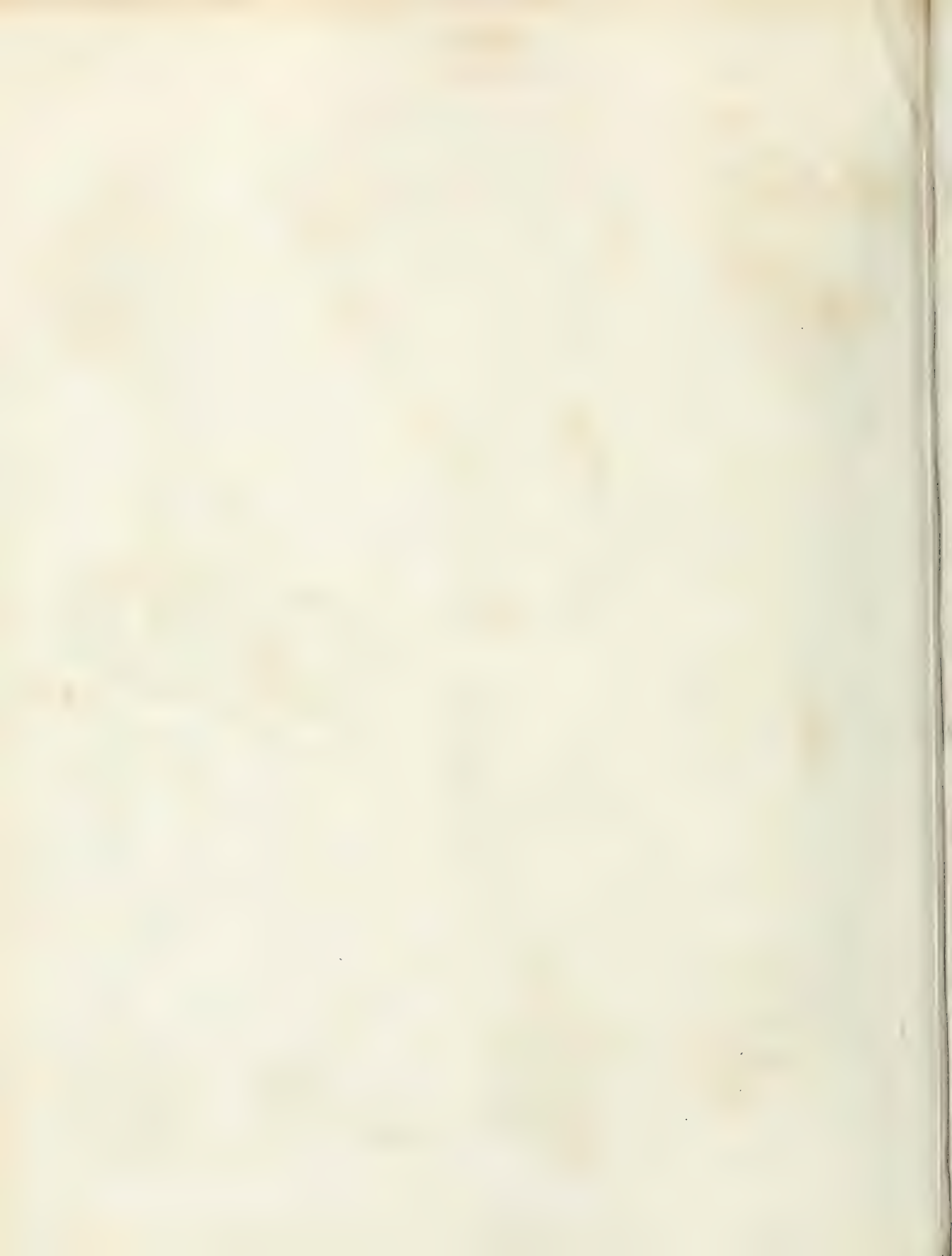


XII



XIII

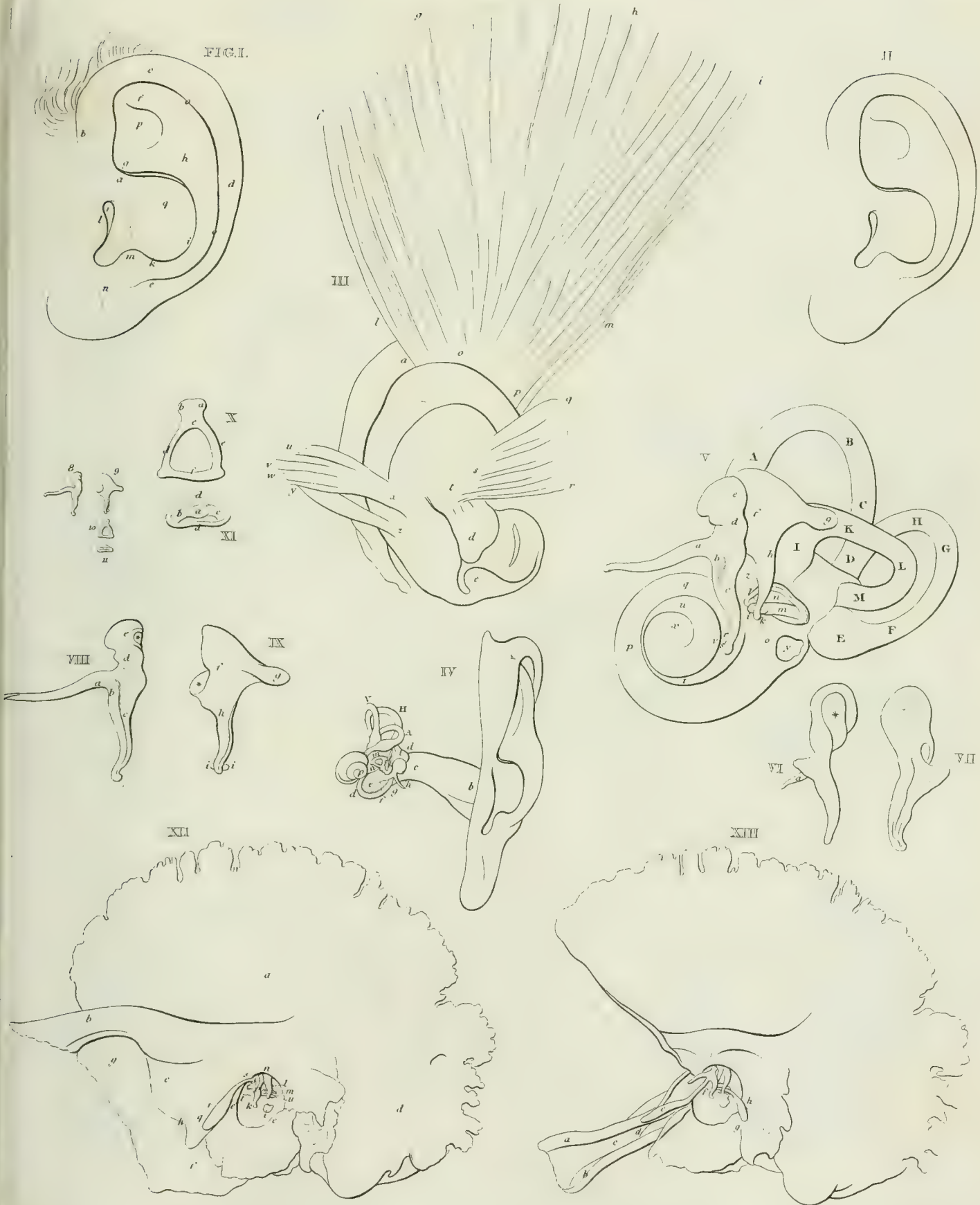


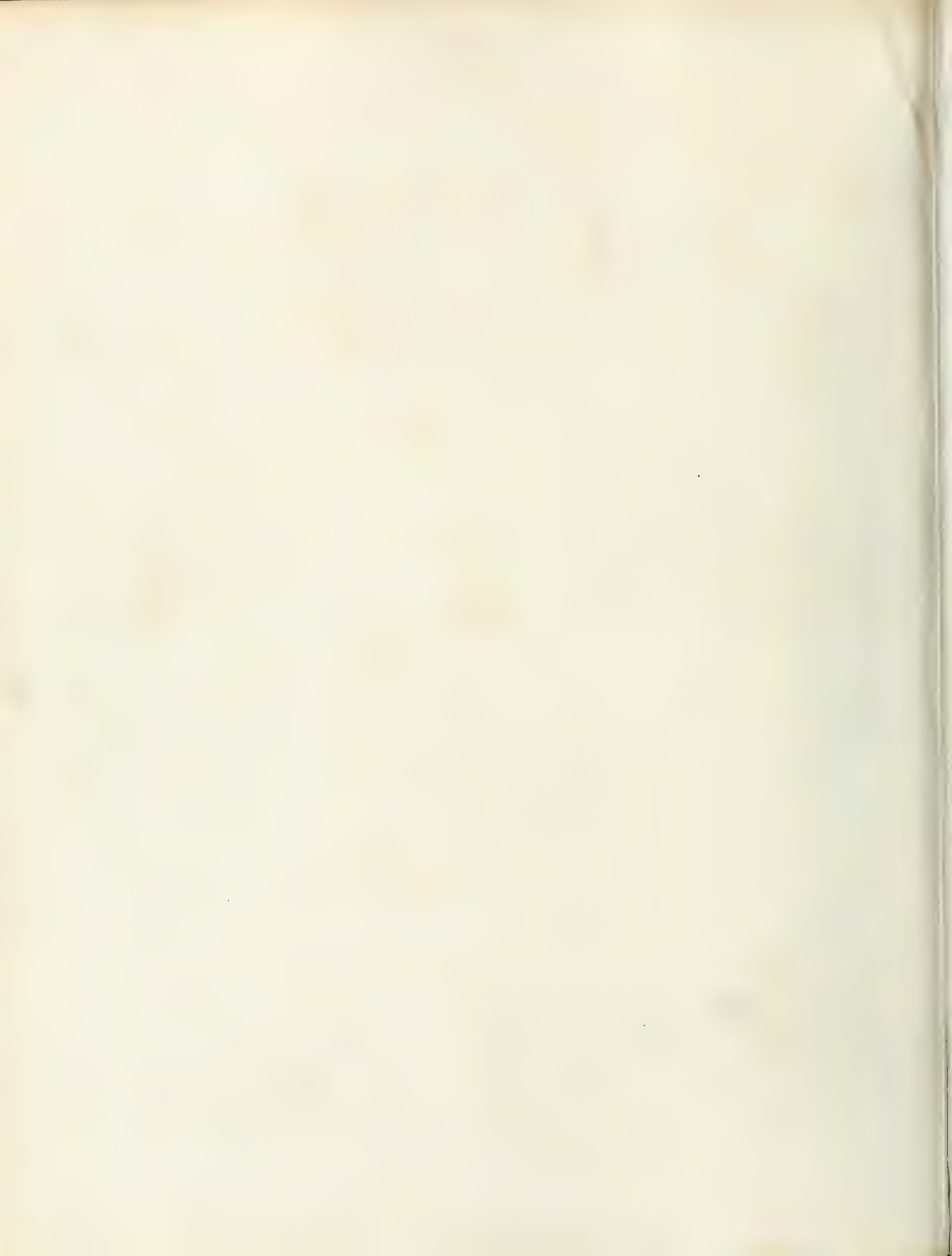


ANATOMY.

Organs of Sense.

Ear.



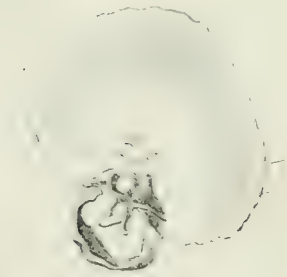
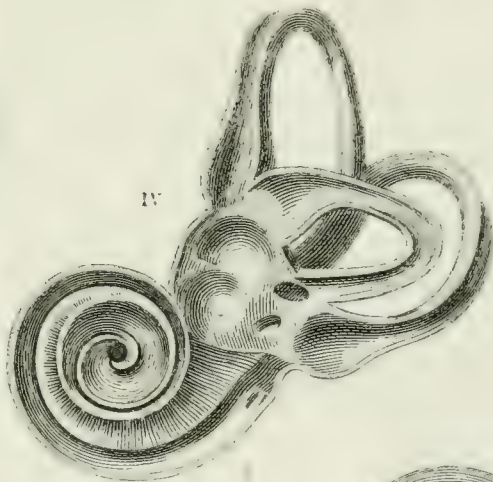


Organs of Sense.
Ear.

II



IV



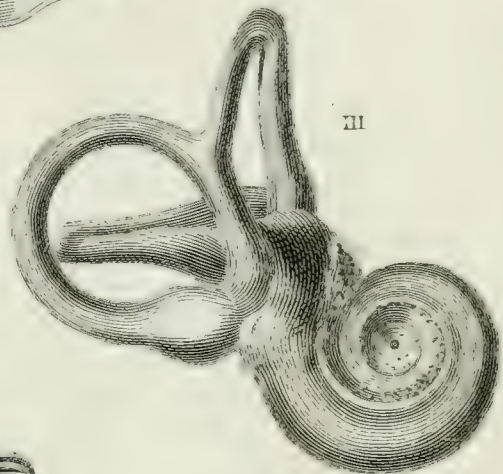
VI



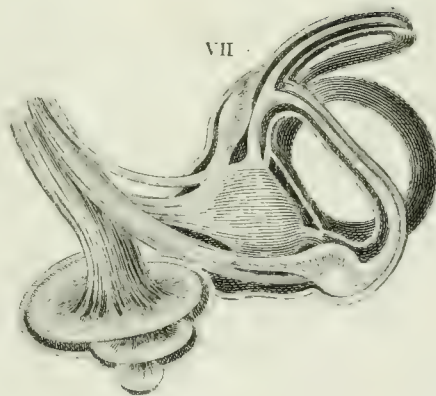
V



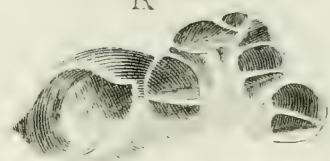
III



VII



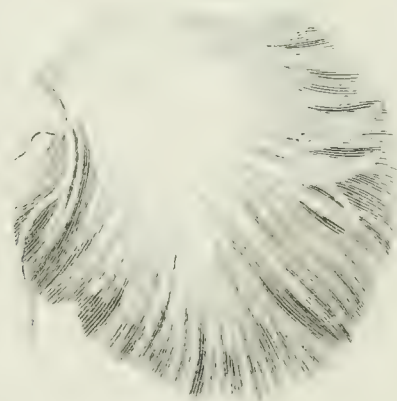
IX



VIII



XIII



XII

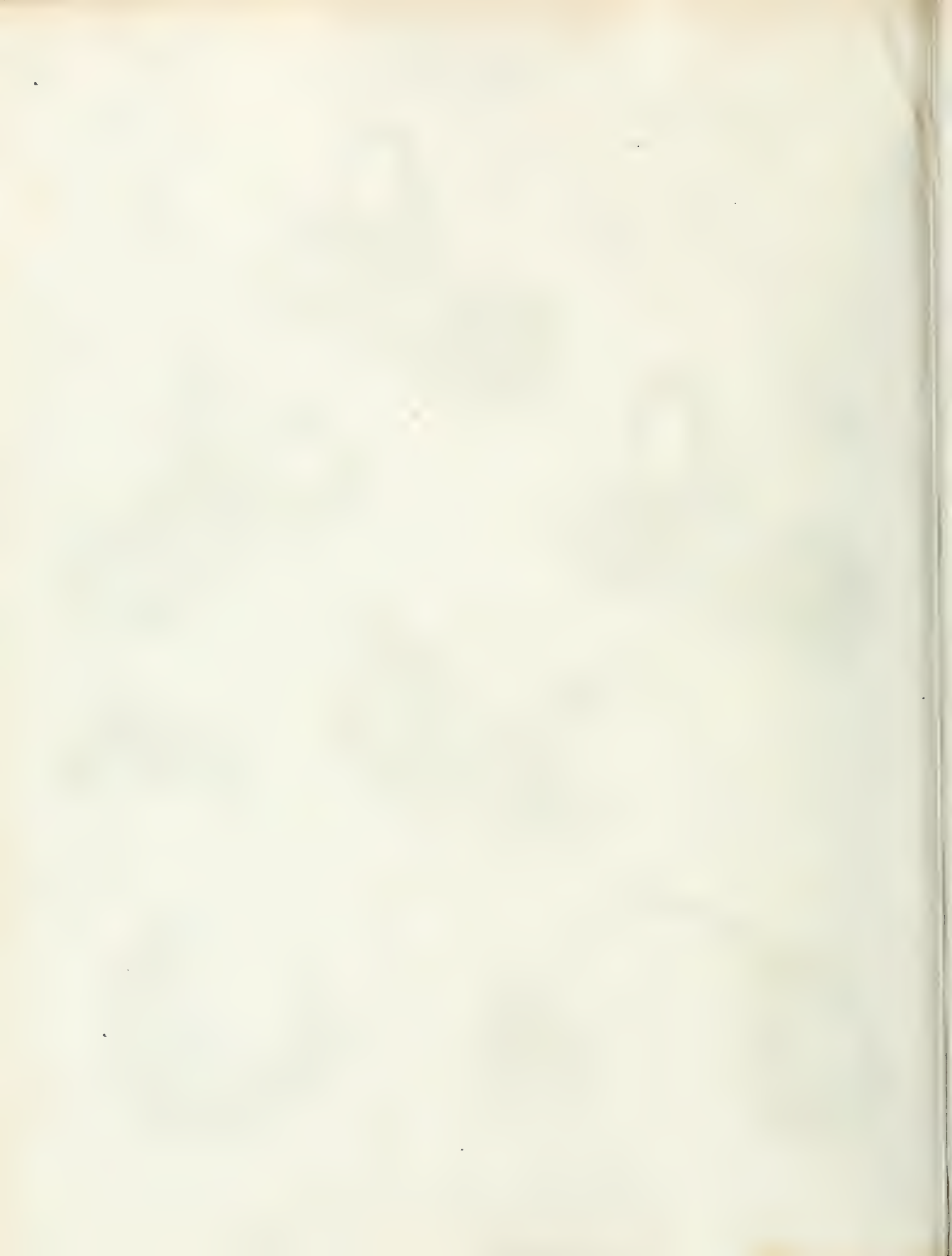


XI



X





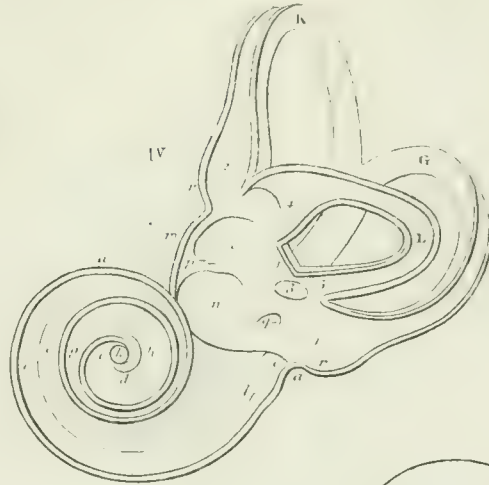
Organs of Sense.

Ear

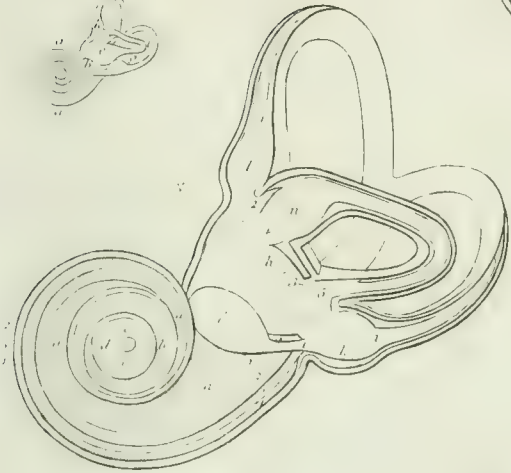
FIG. II.



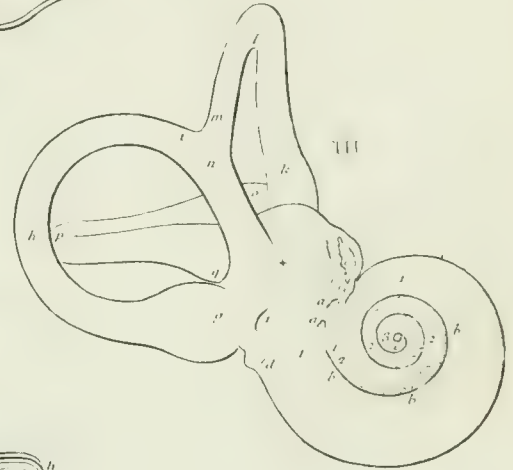
IV



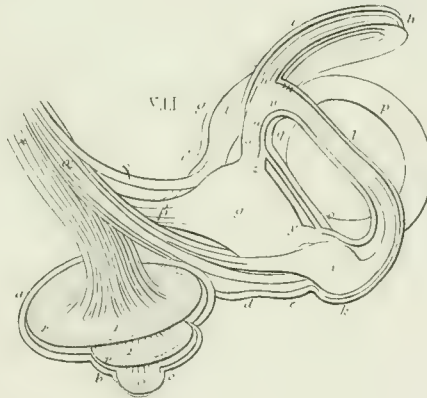
VI



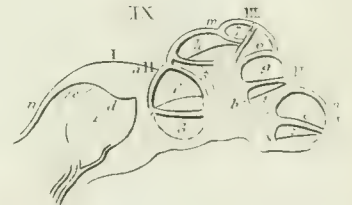
III



VII



IX



VIII



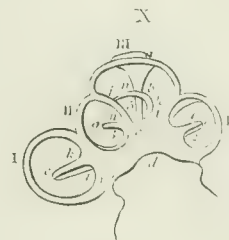
XIII



XII



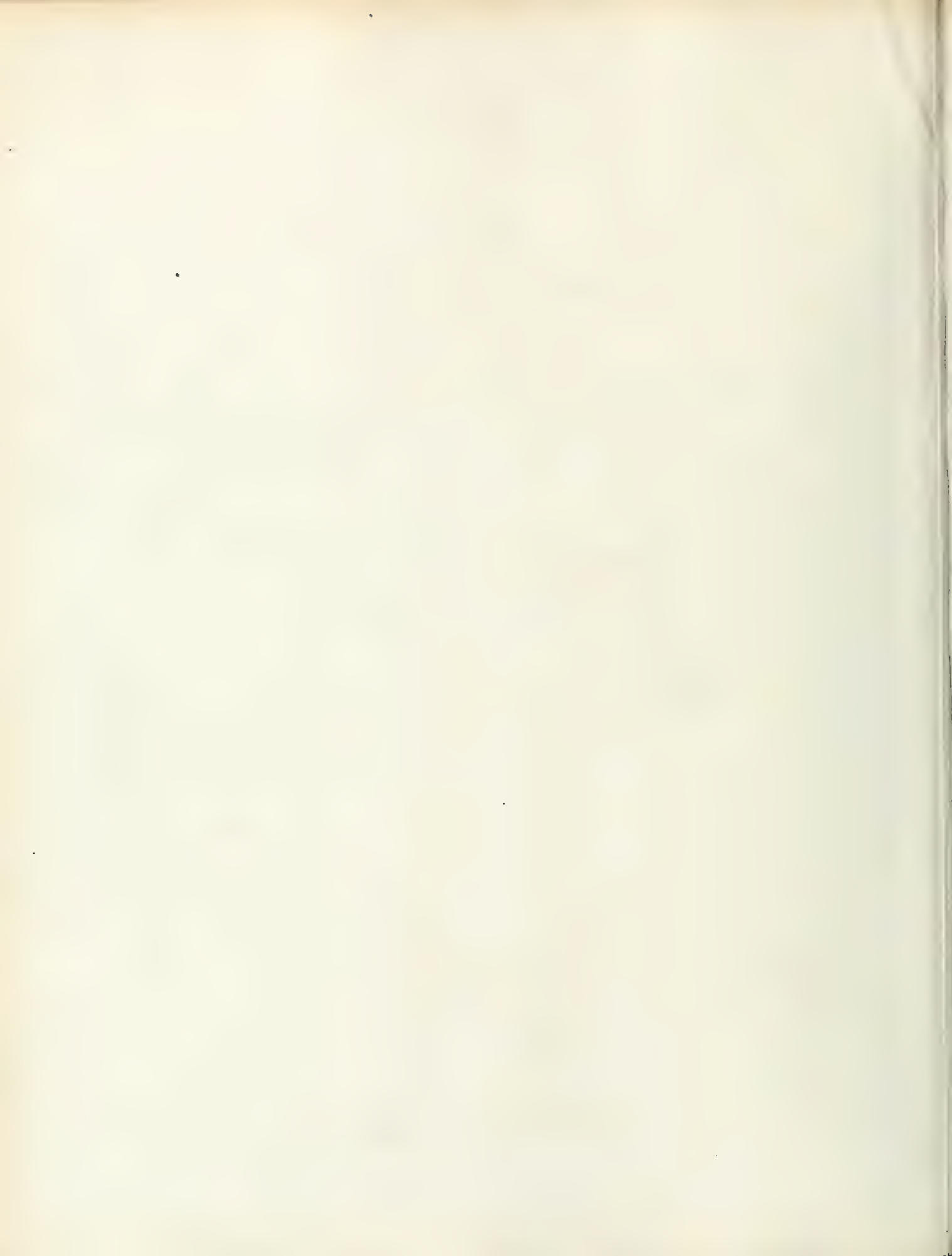
X

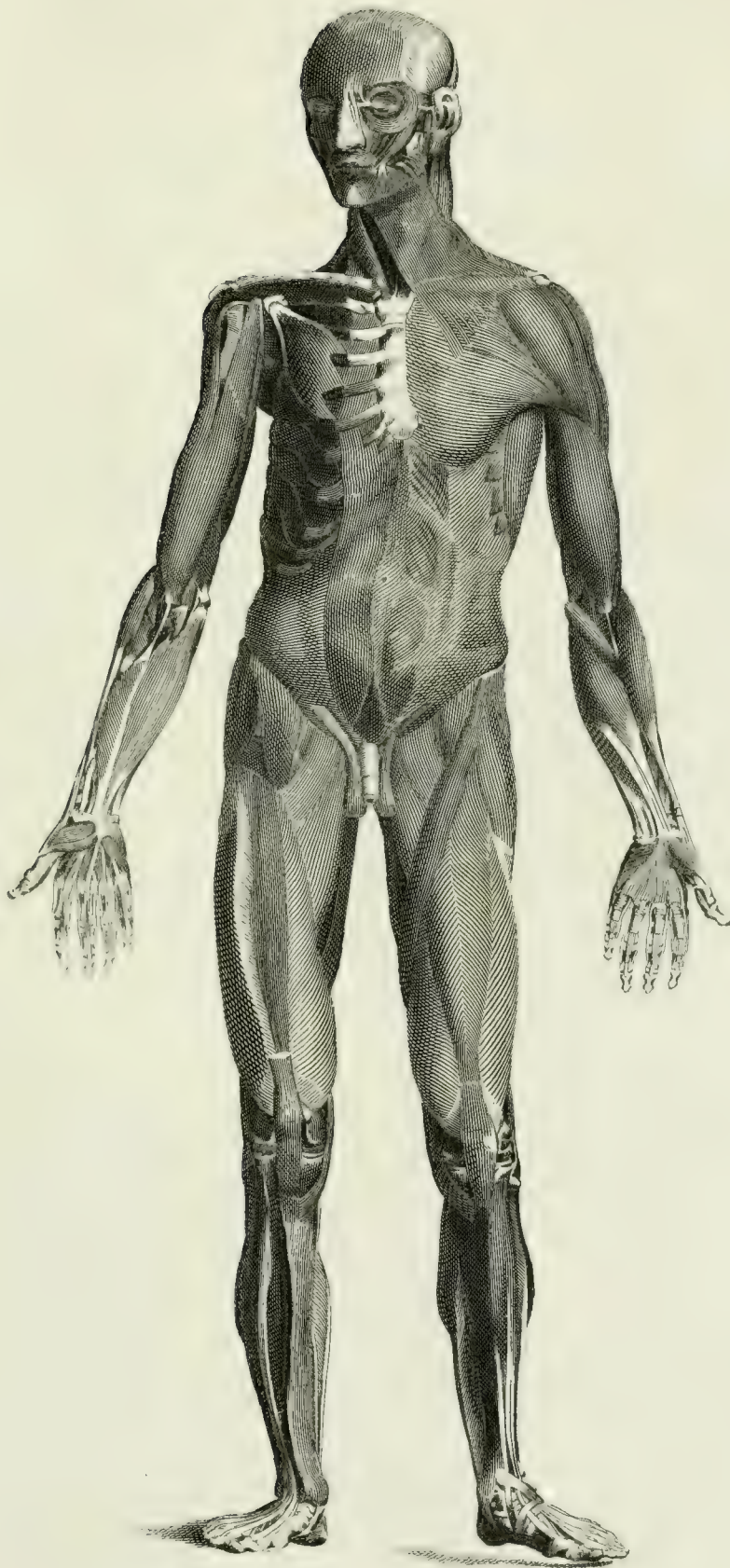


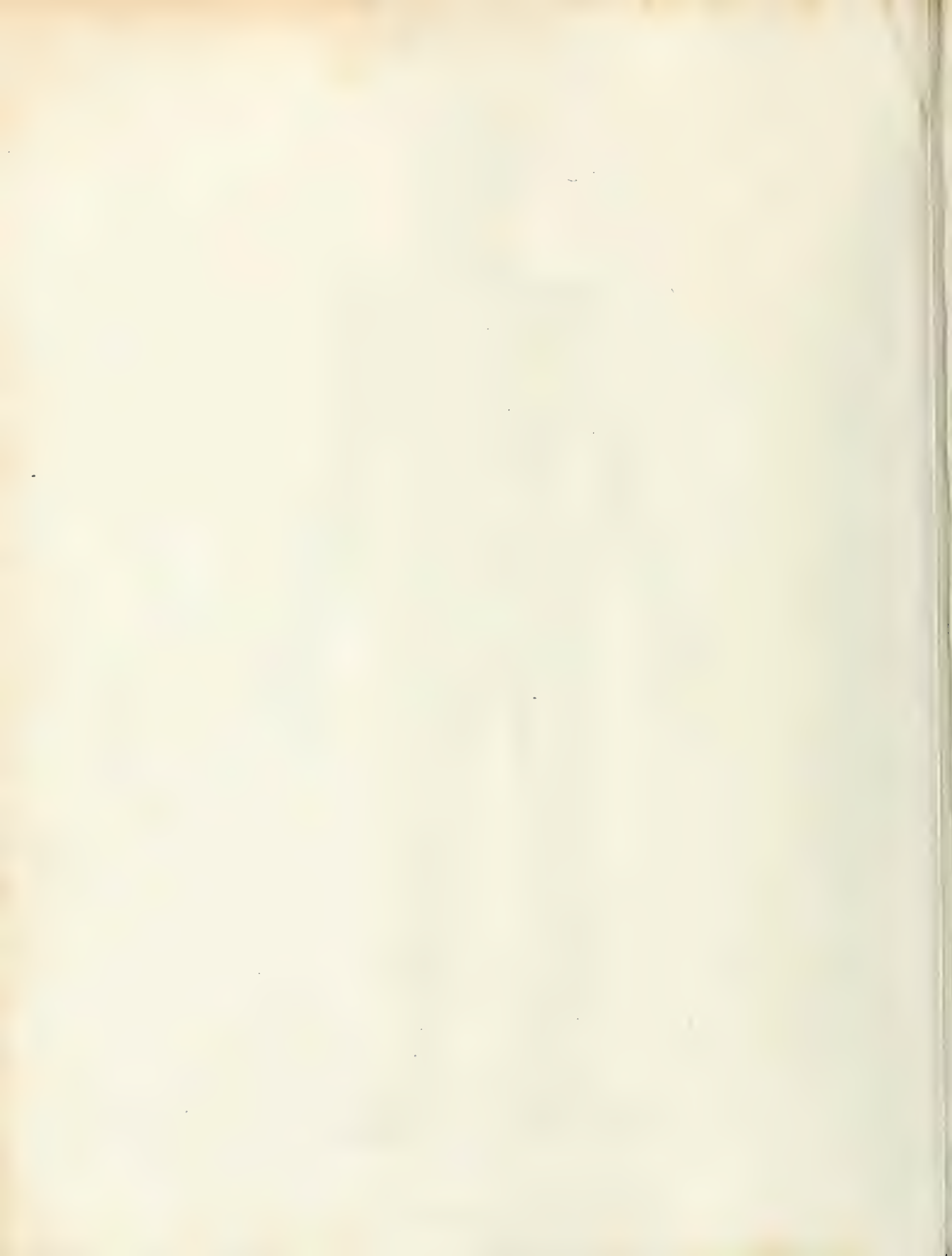
Organs of Sense.

Fig. 1.



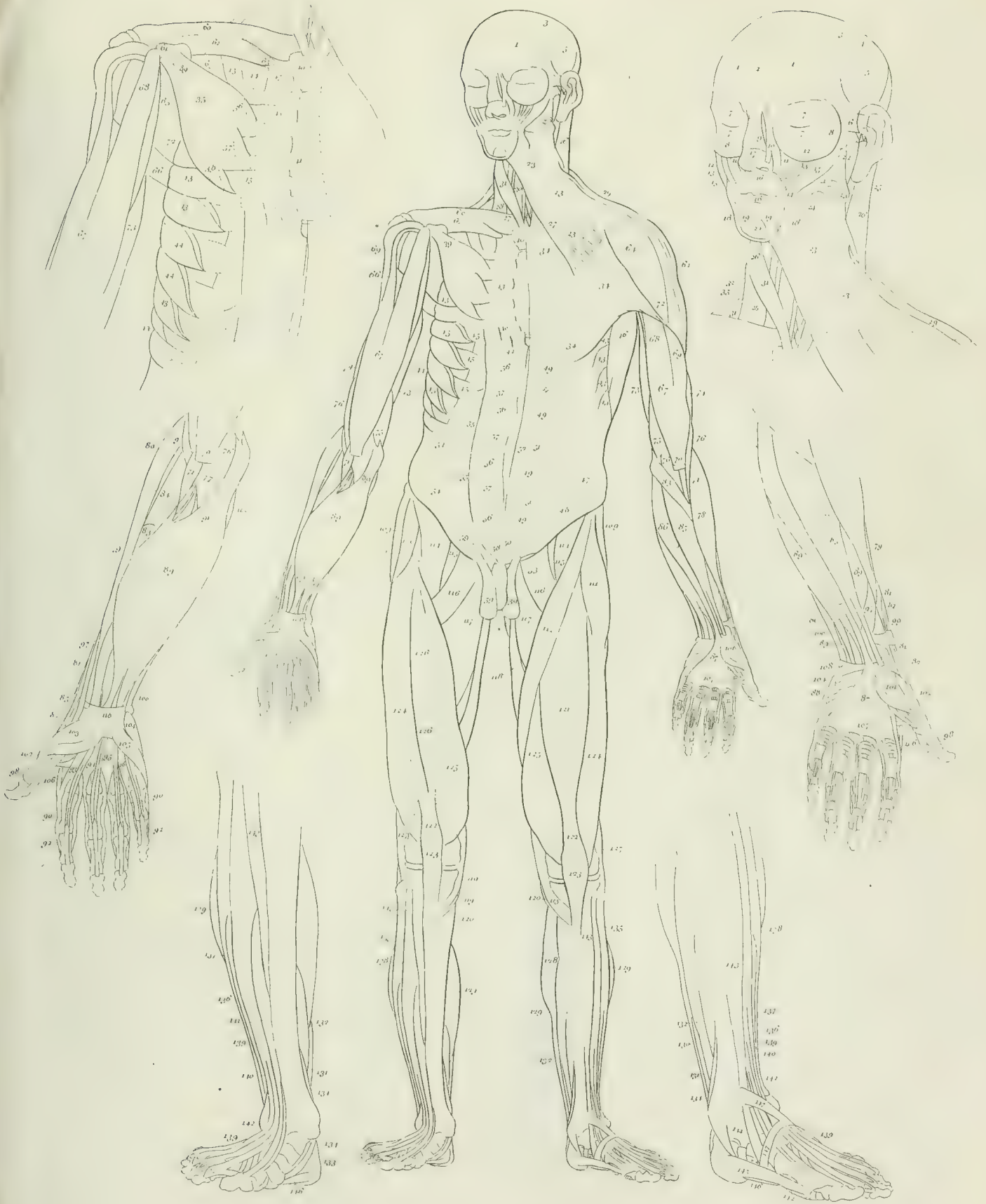


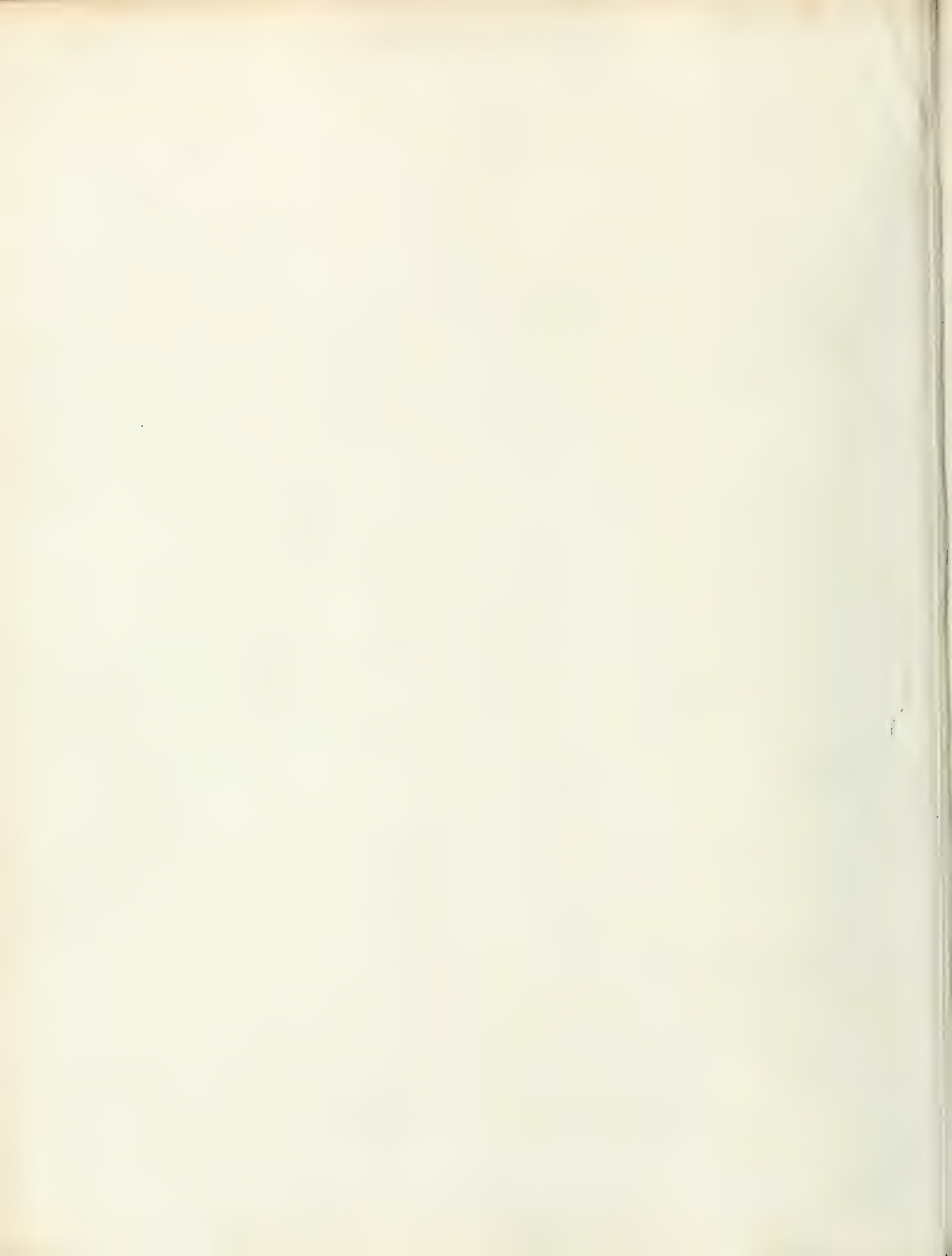




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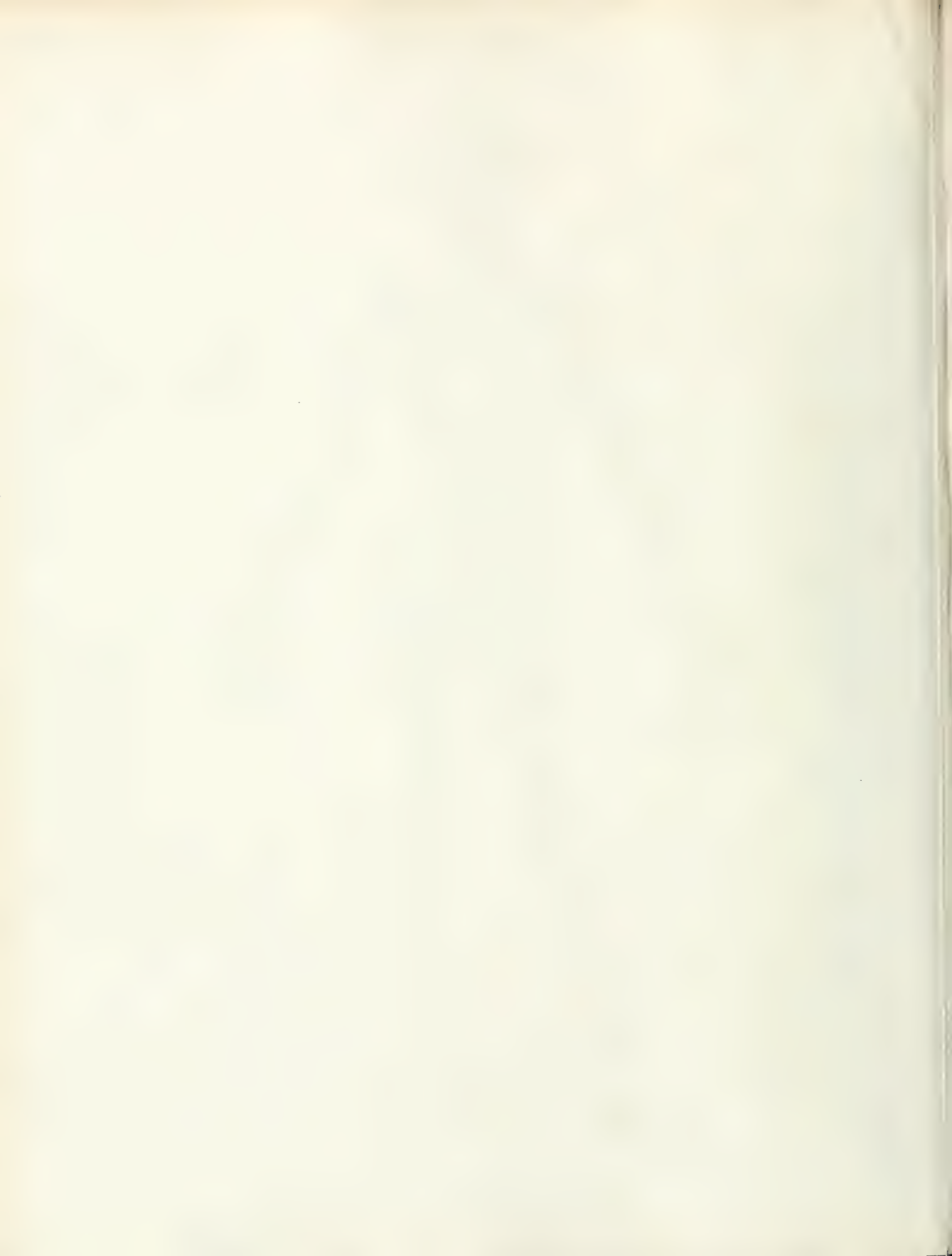
Myology.



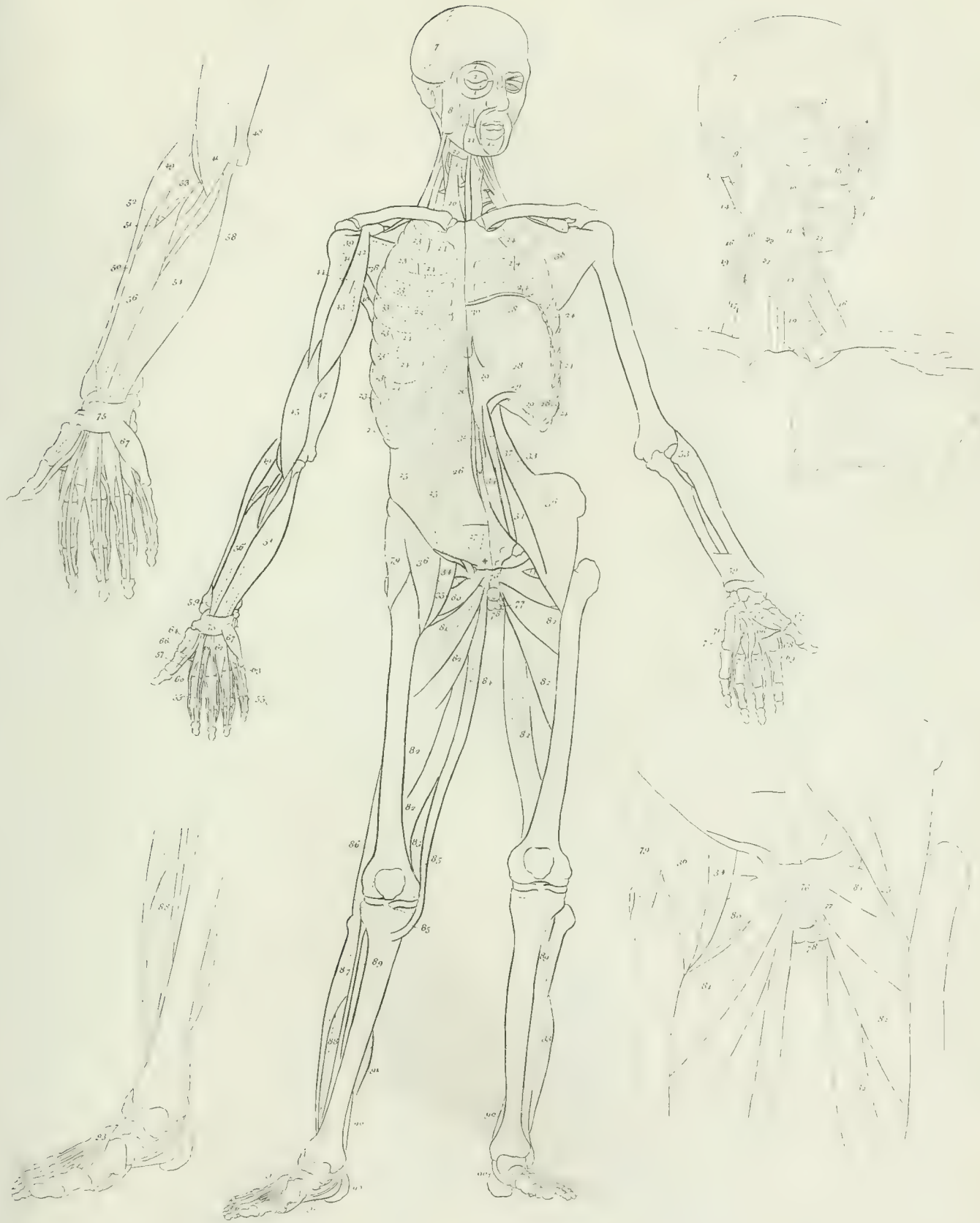


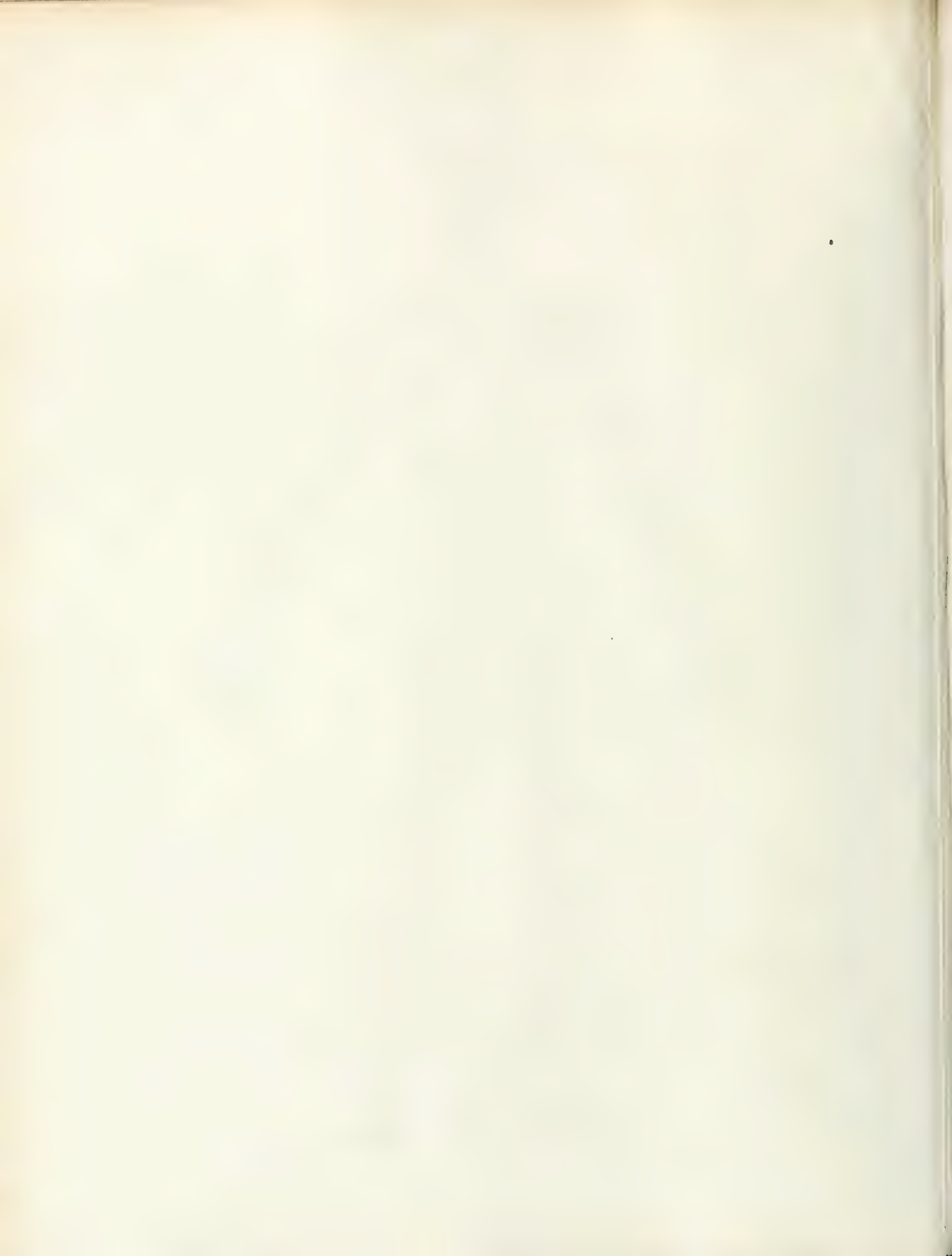
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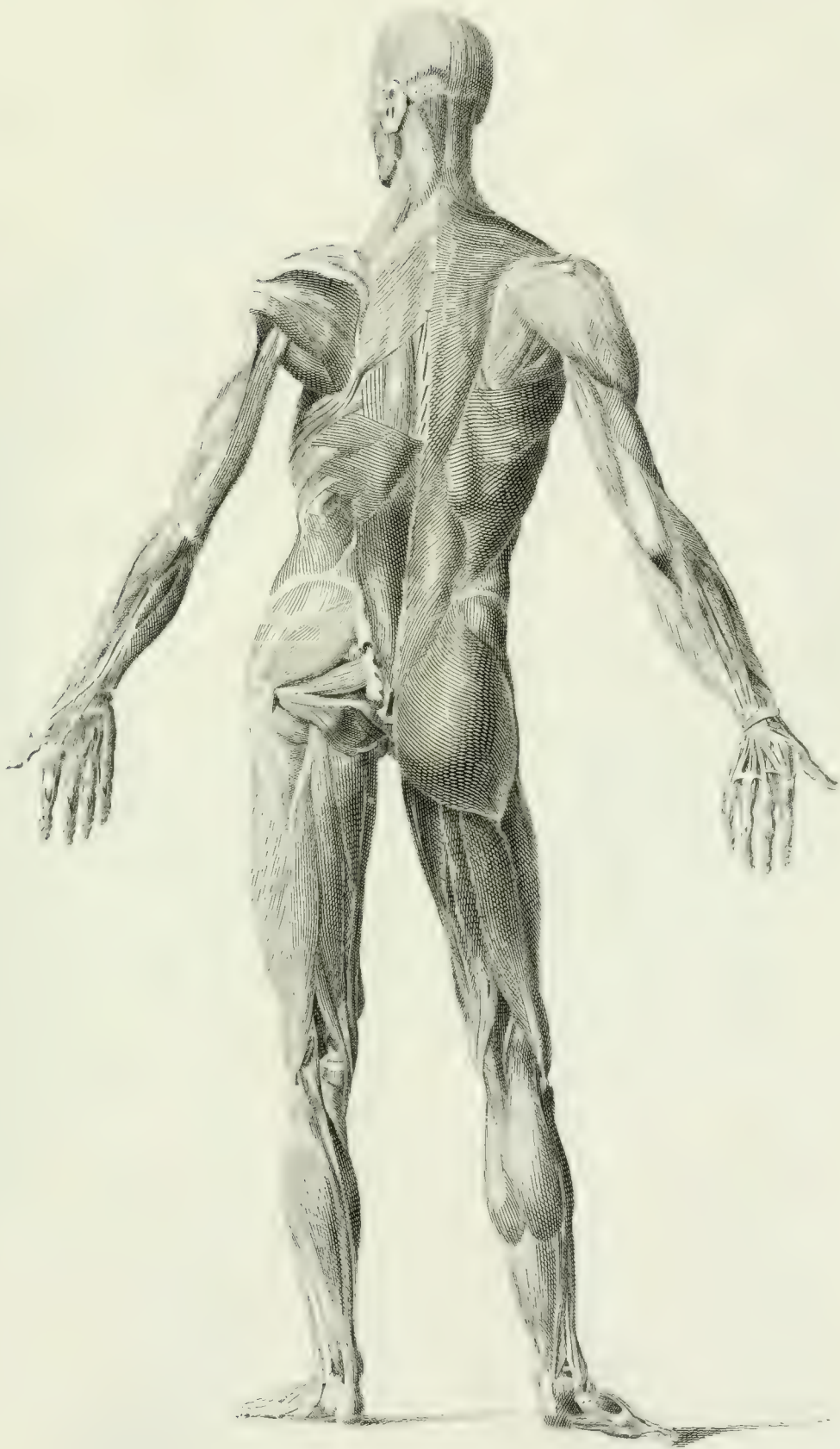


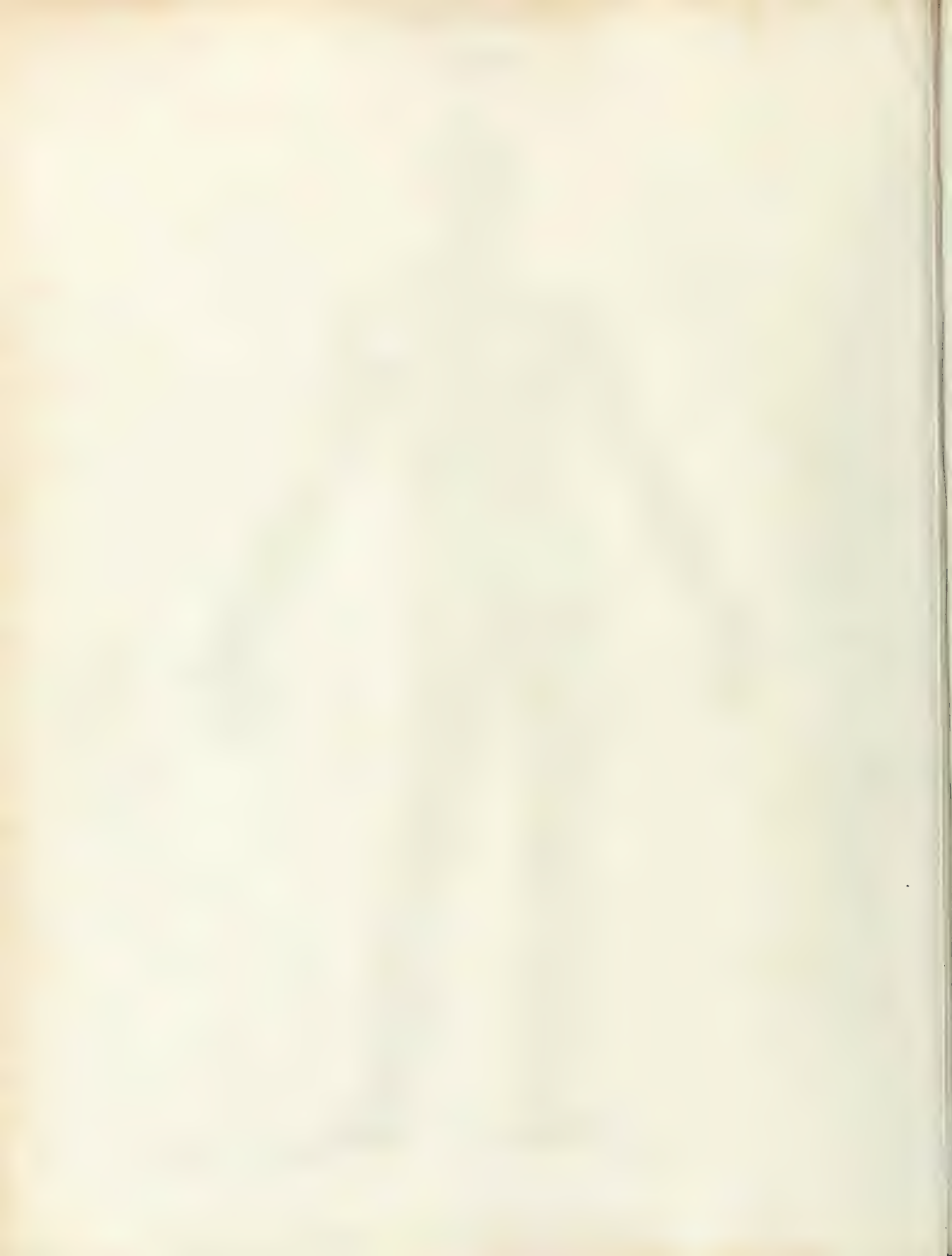
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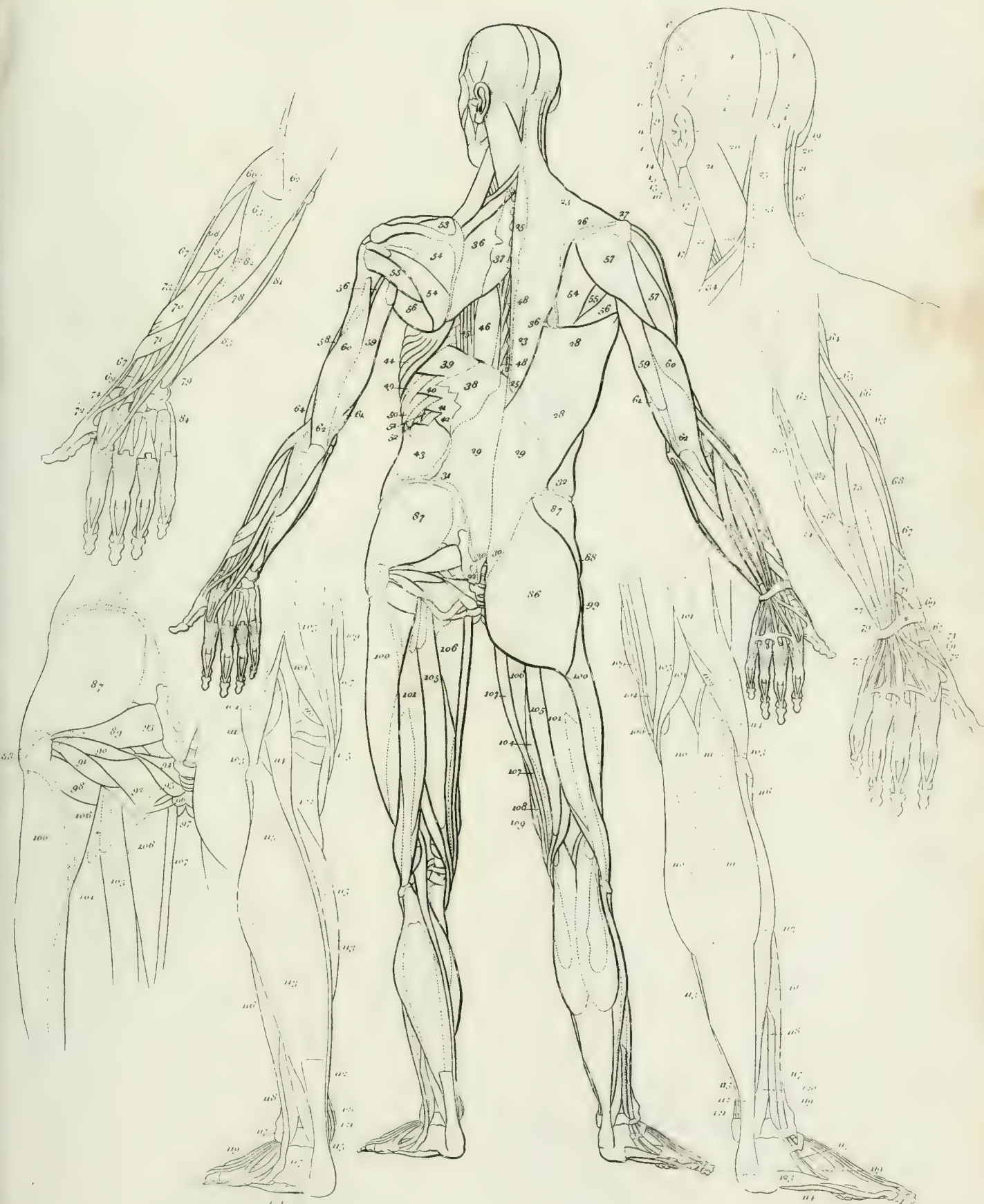


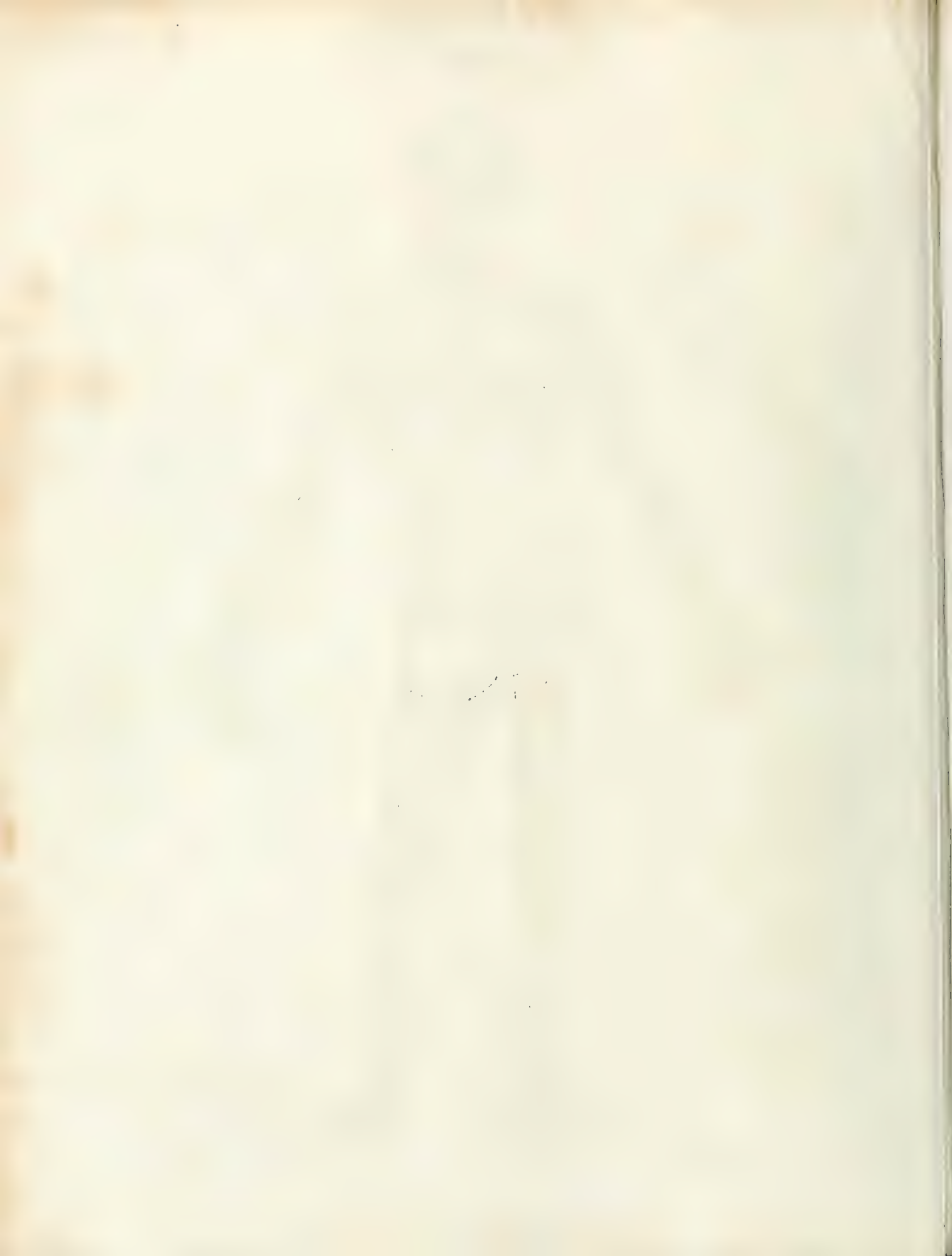
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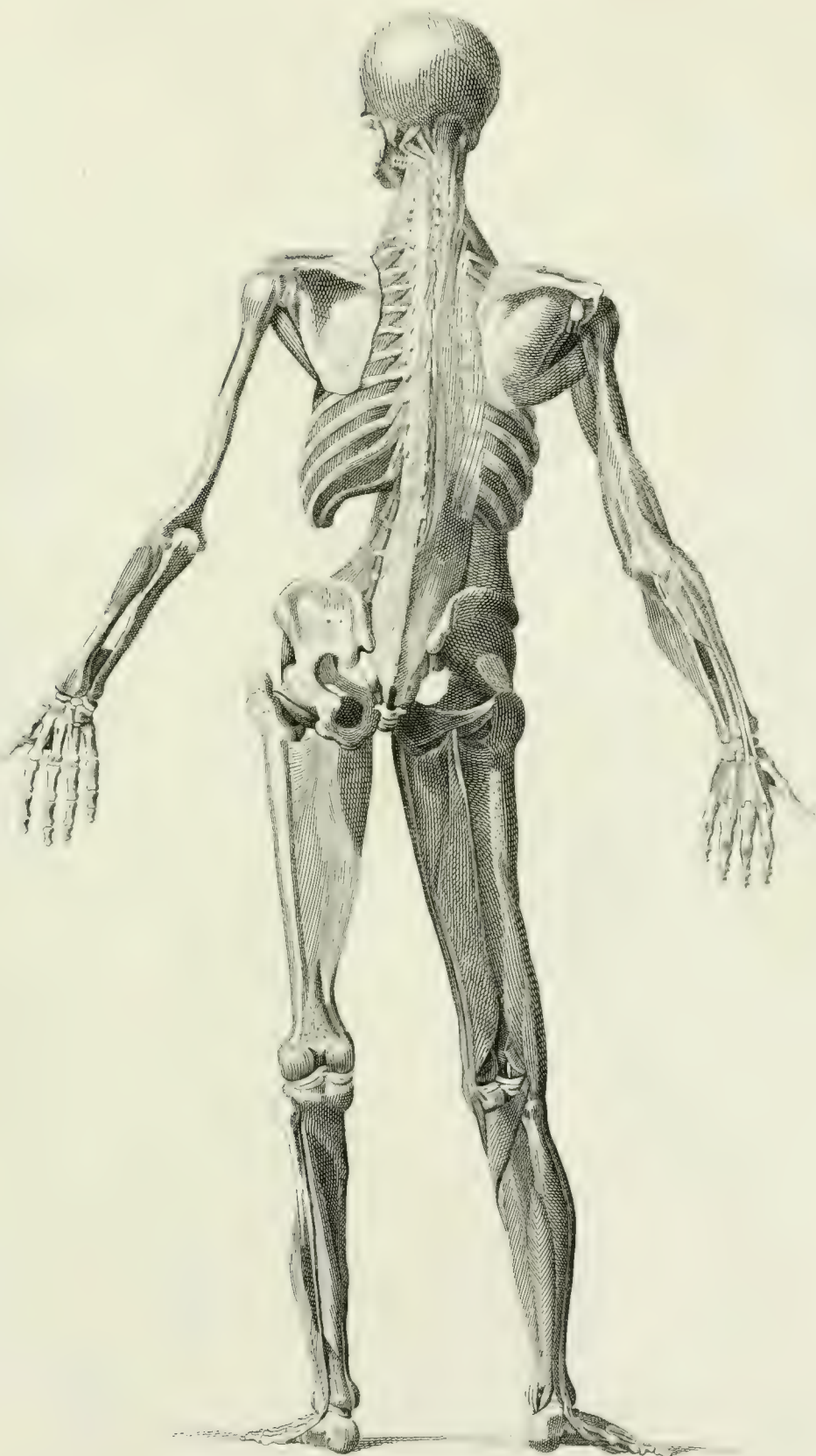


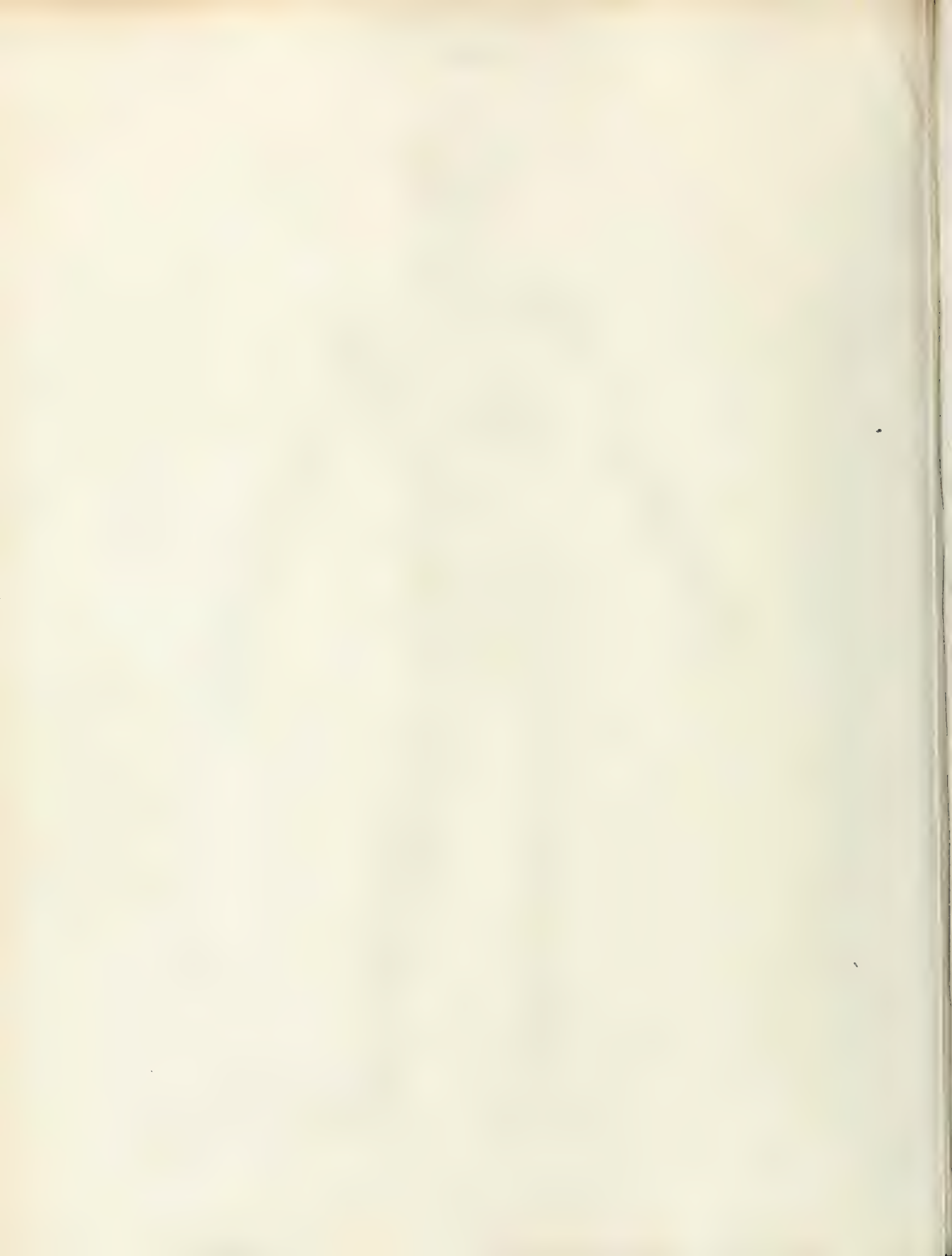
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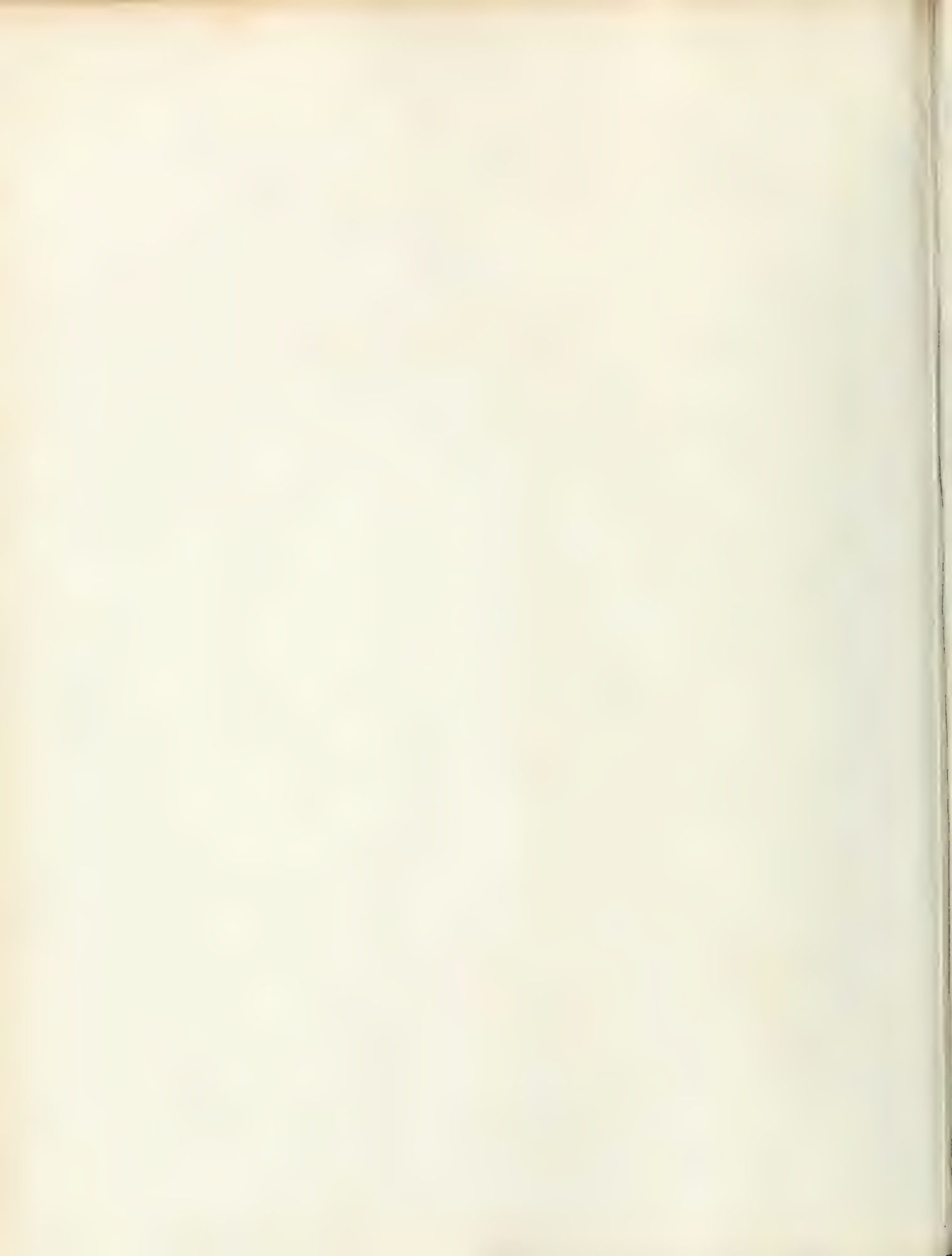
Myology.





Myology.



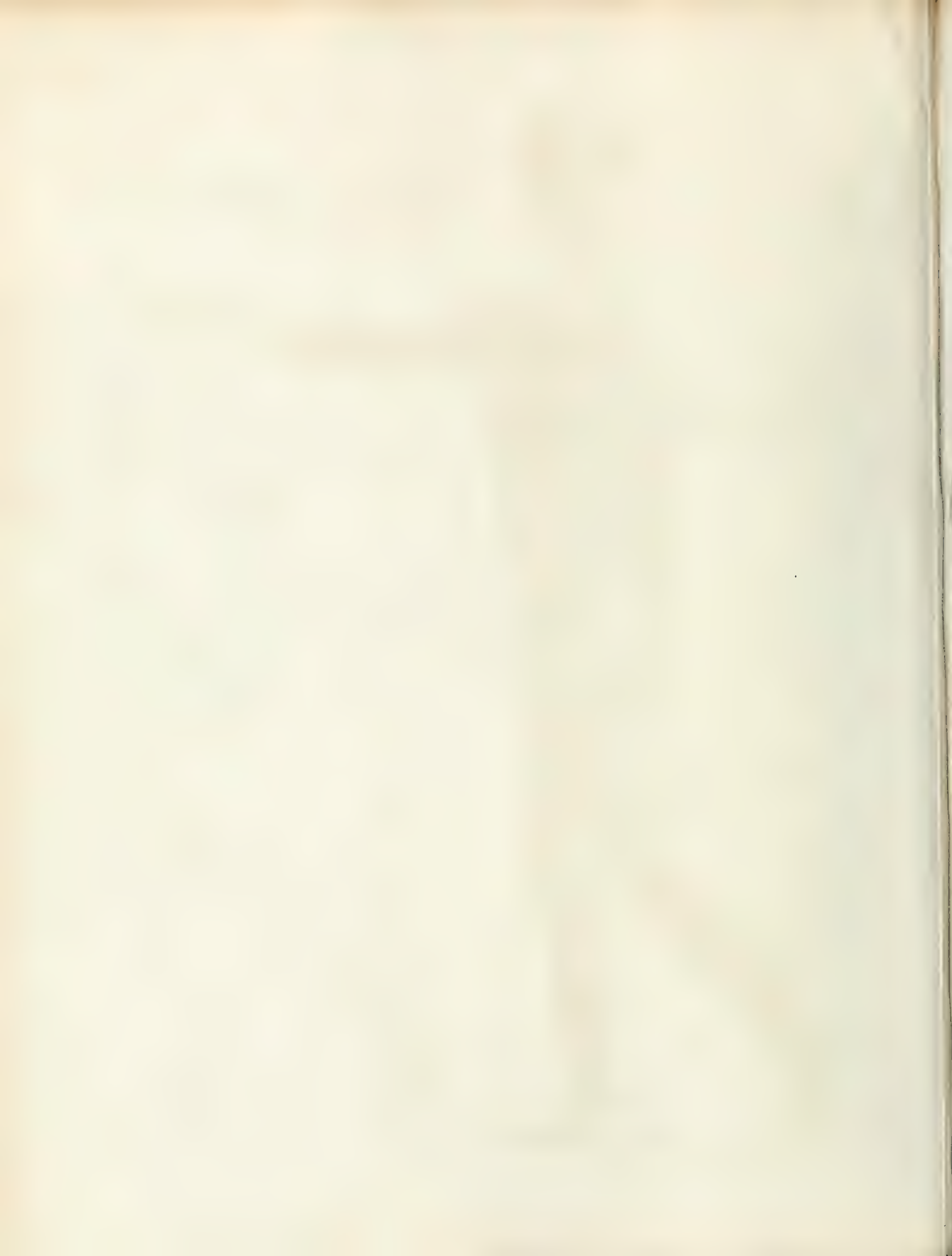


ANATOMY

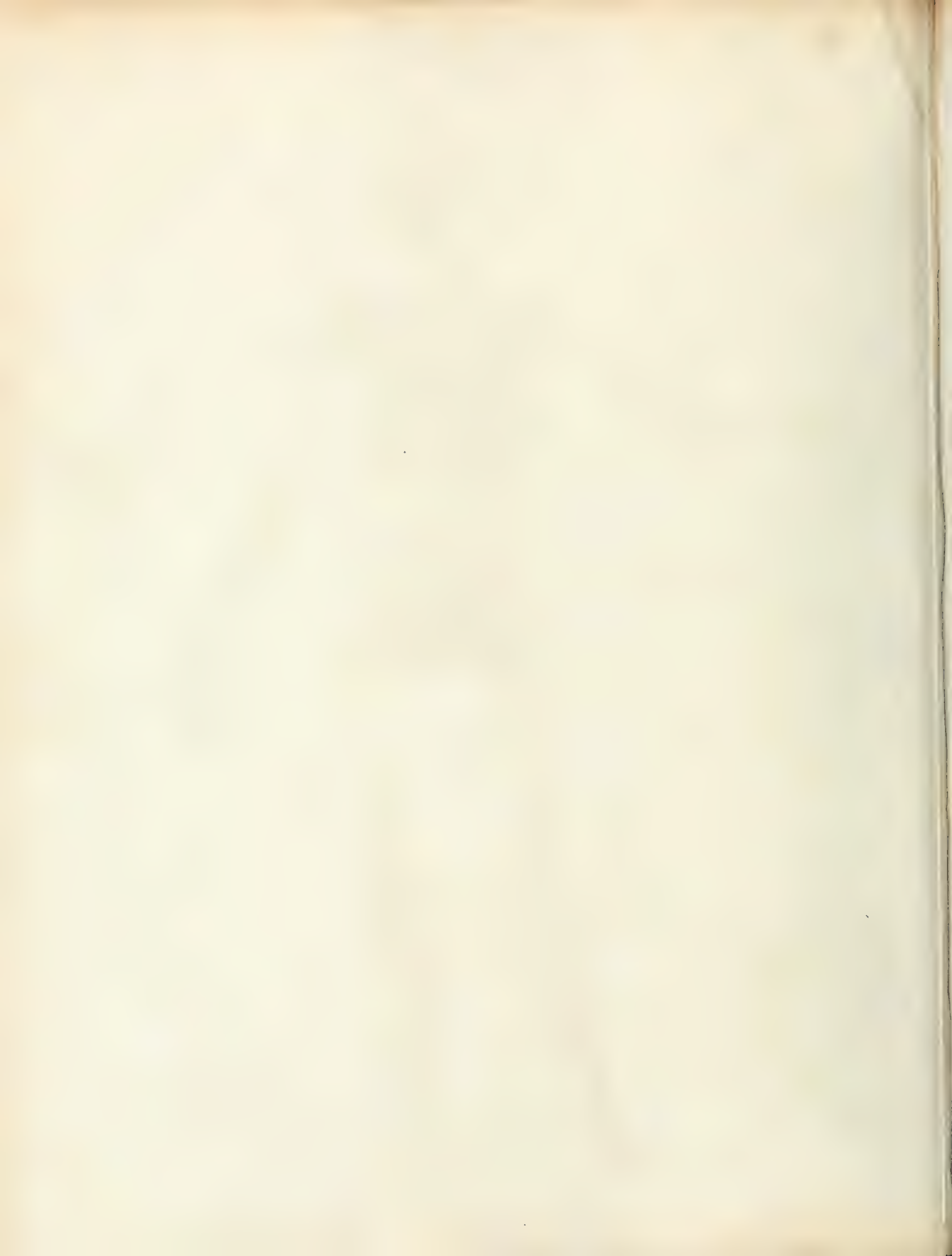
Myology.

PLATE XVI







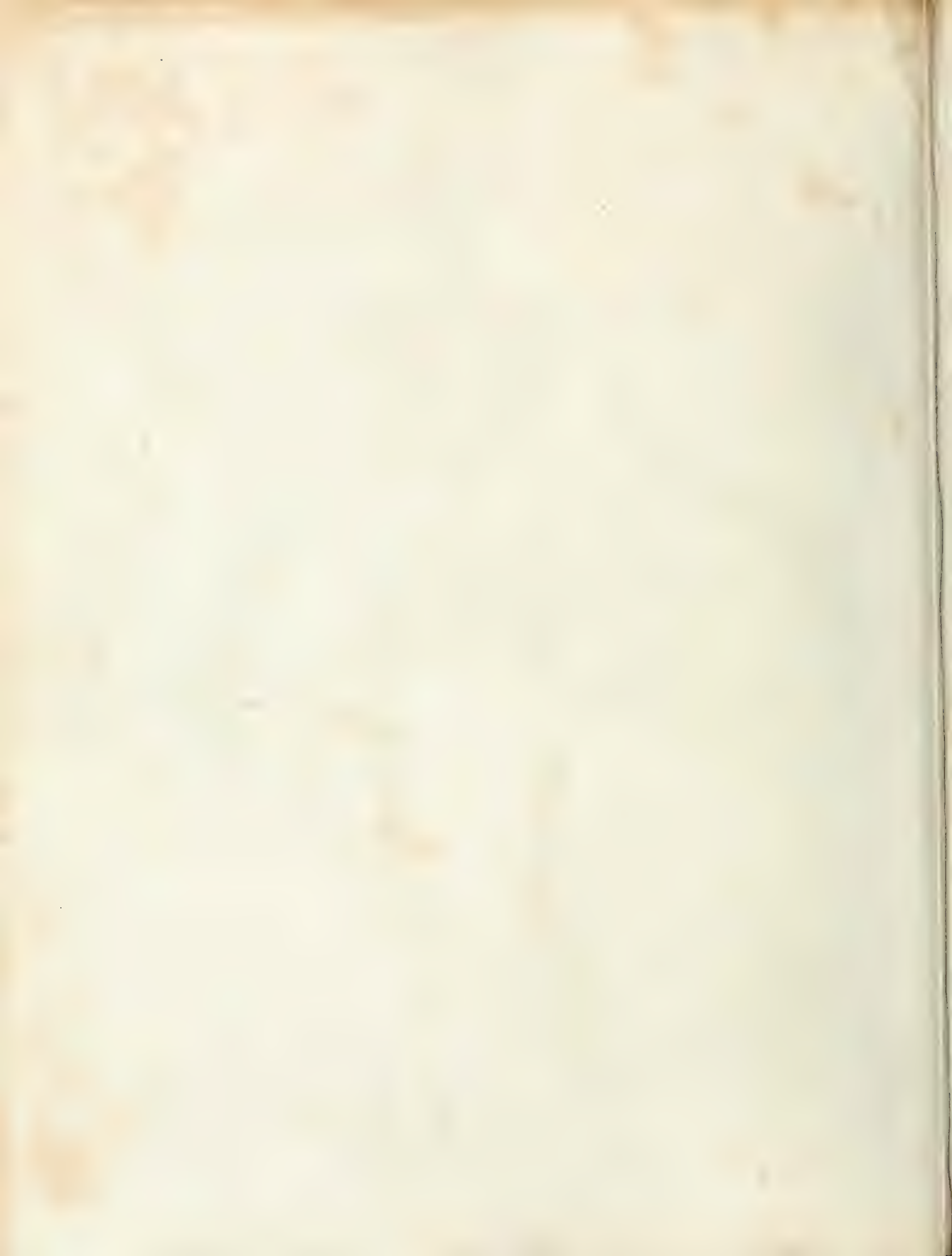


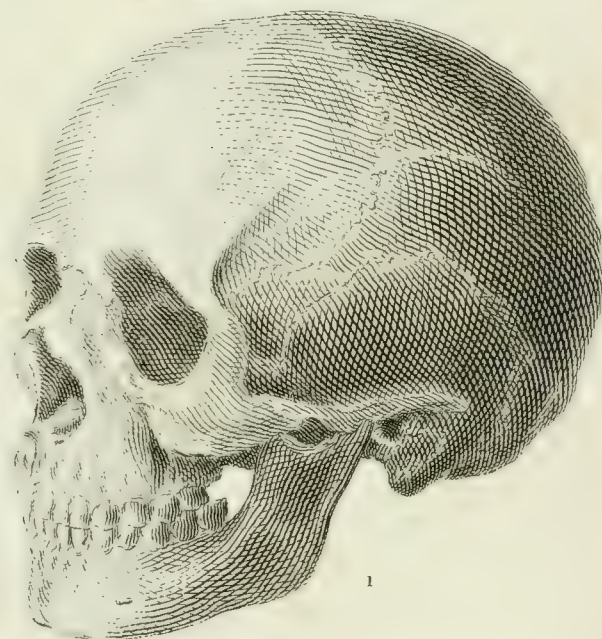
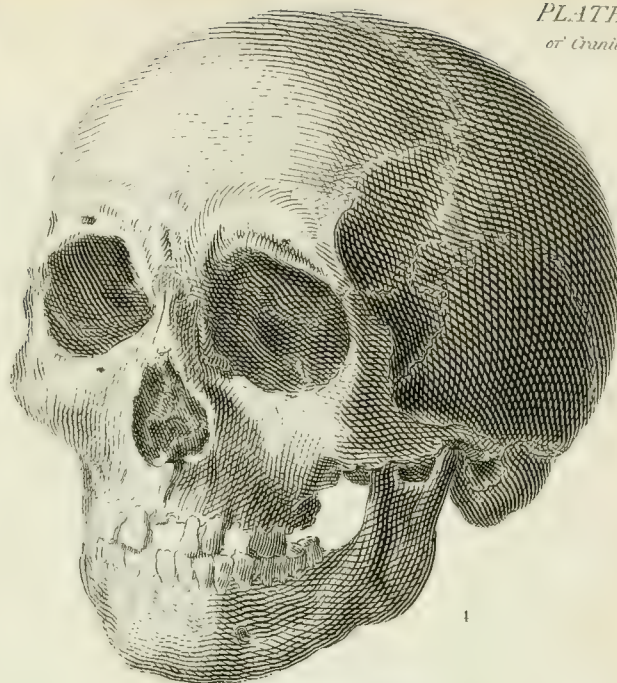
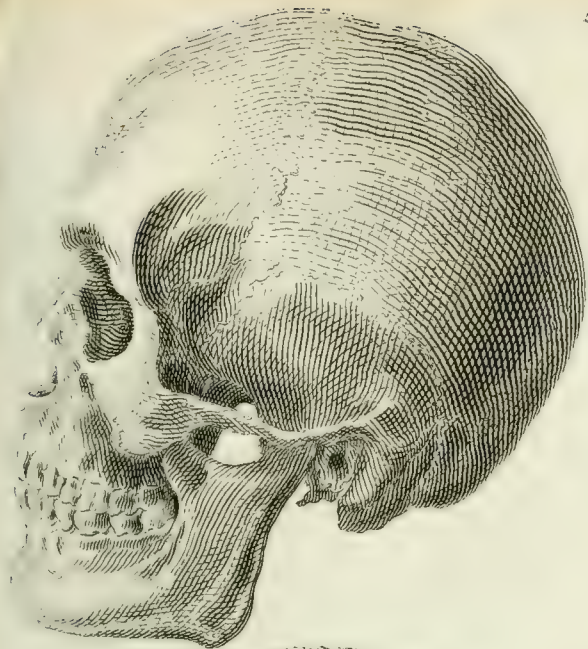
ANATOMY.

Skeleton.
Osteology.

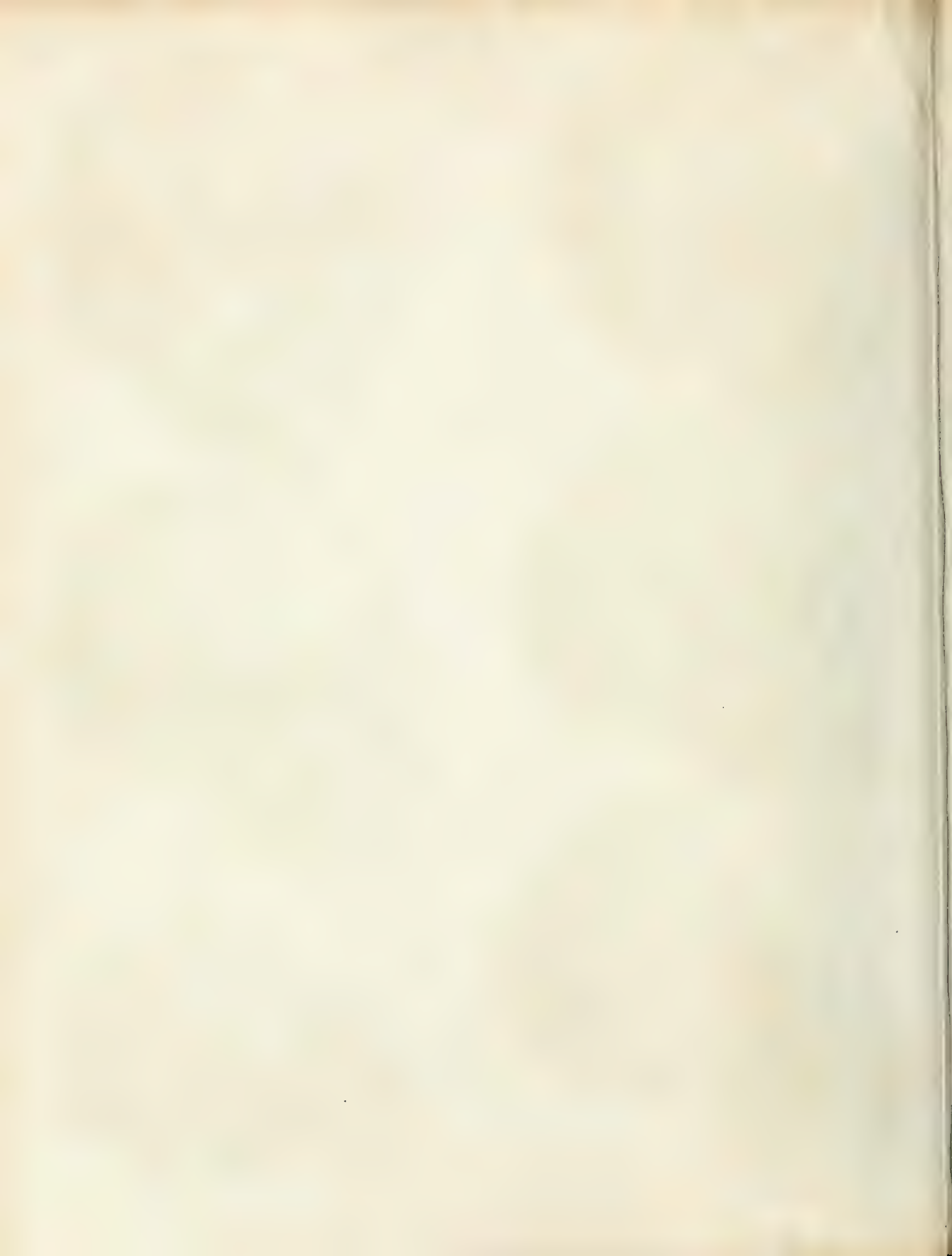
PLATE XVIII.

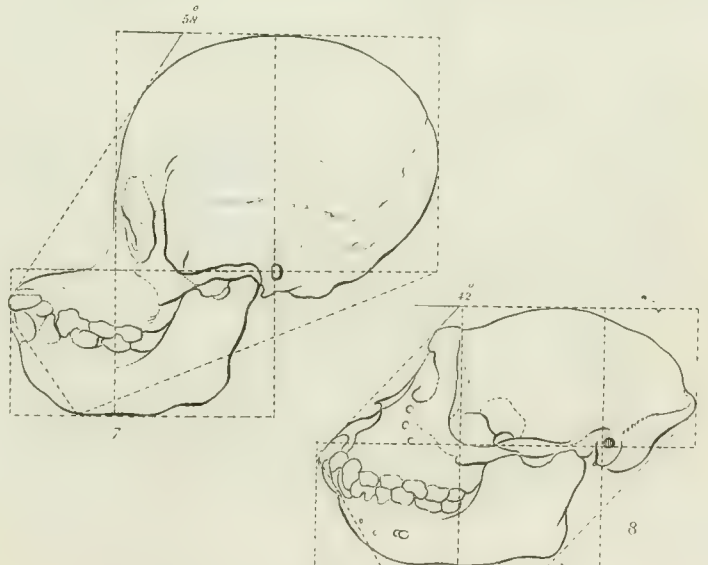
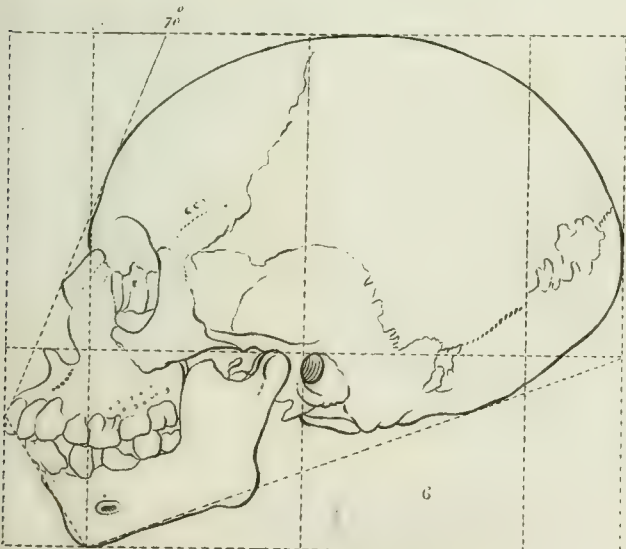
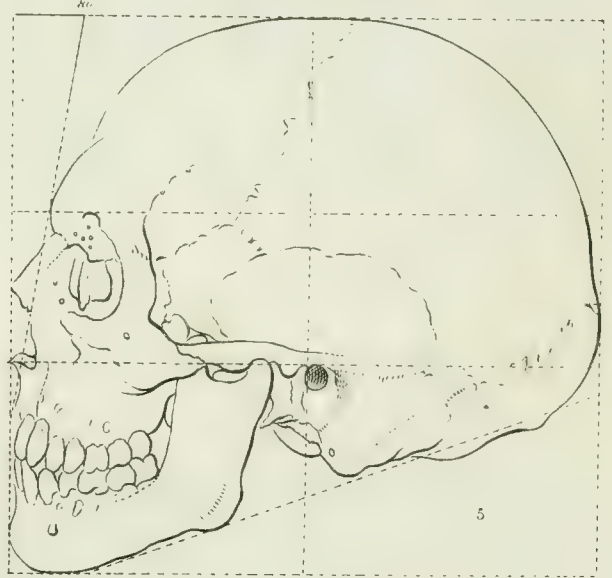
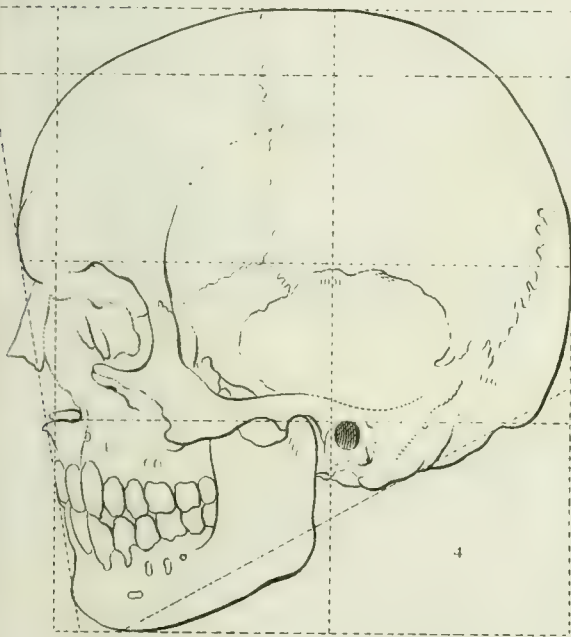
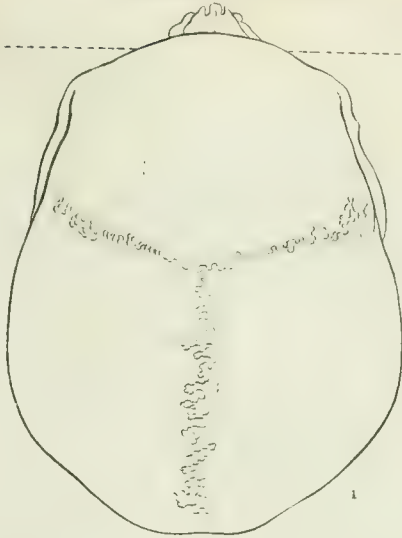




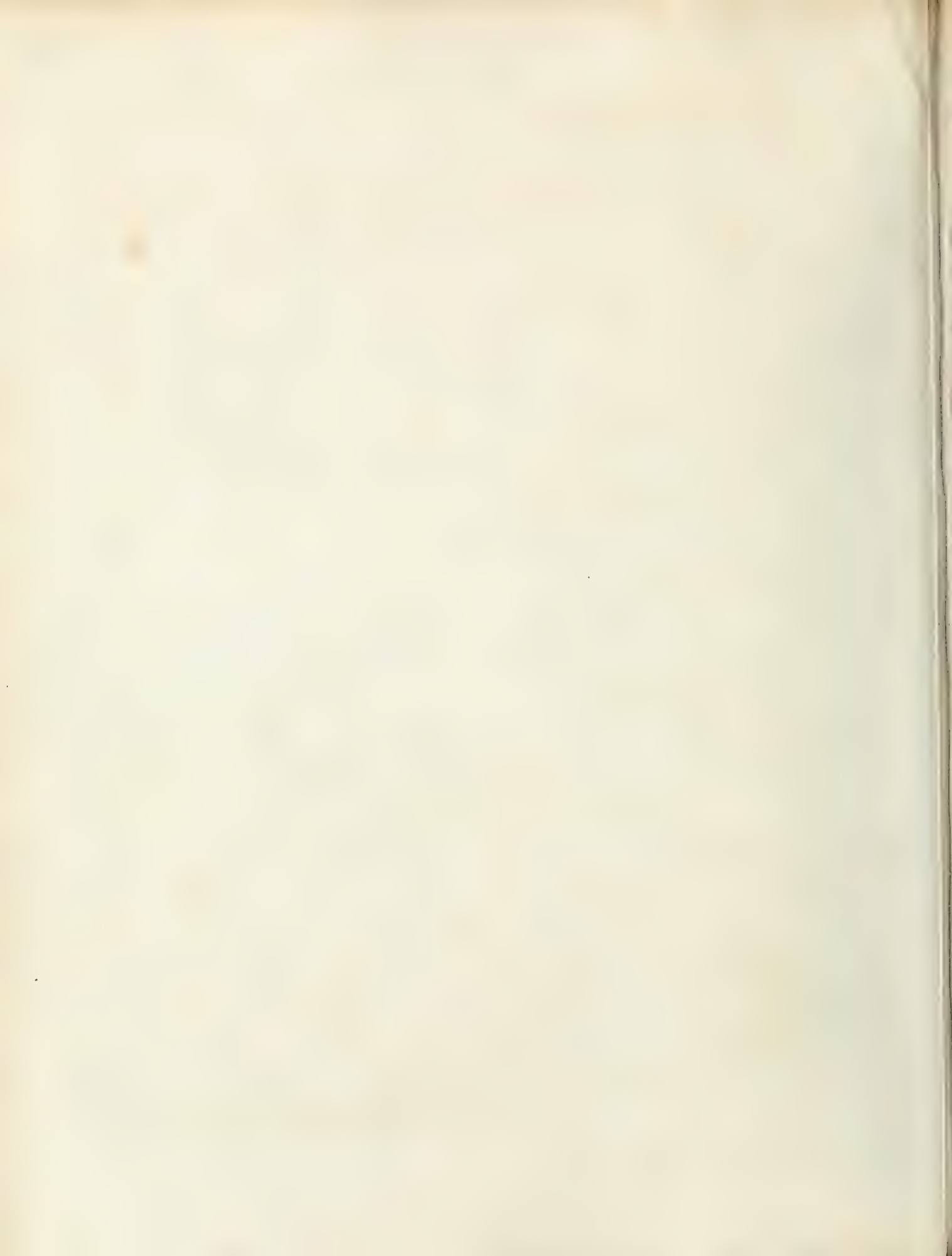


Georgian Female : Turk 3 Negro 4.Calmuck 5.6.Caribs





1. Georgian — 2. Negro — 3. Calmuck — 4. Antique — 5. European — 6. Negro — 7. Orang Outang — 8. Monkey.



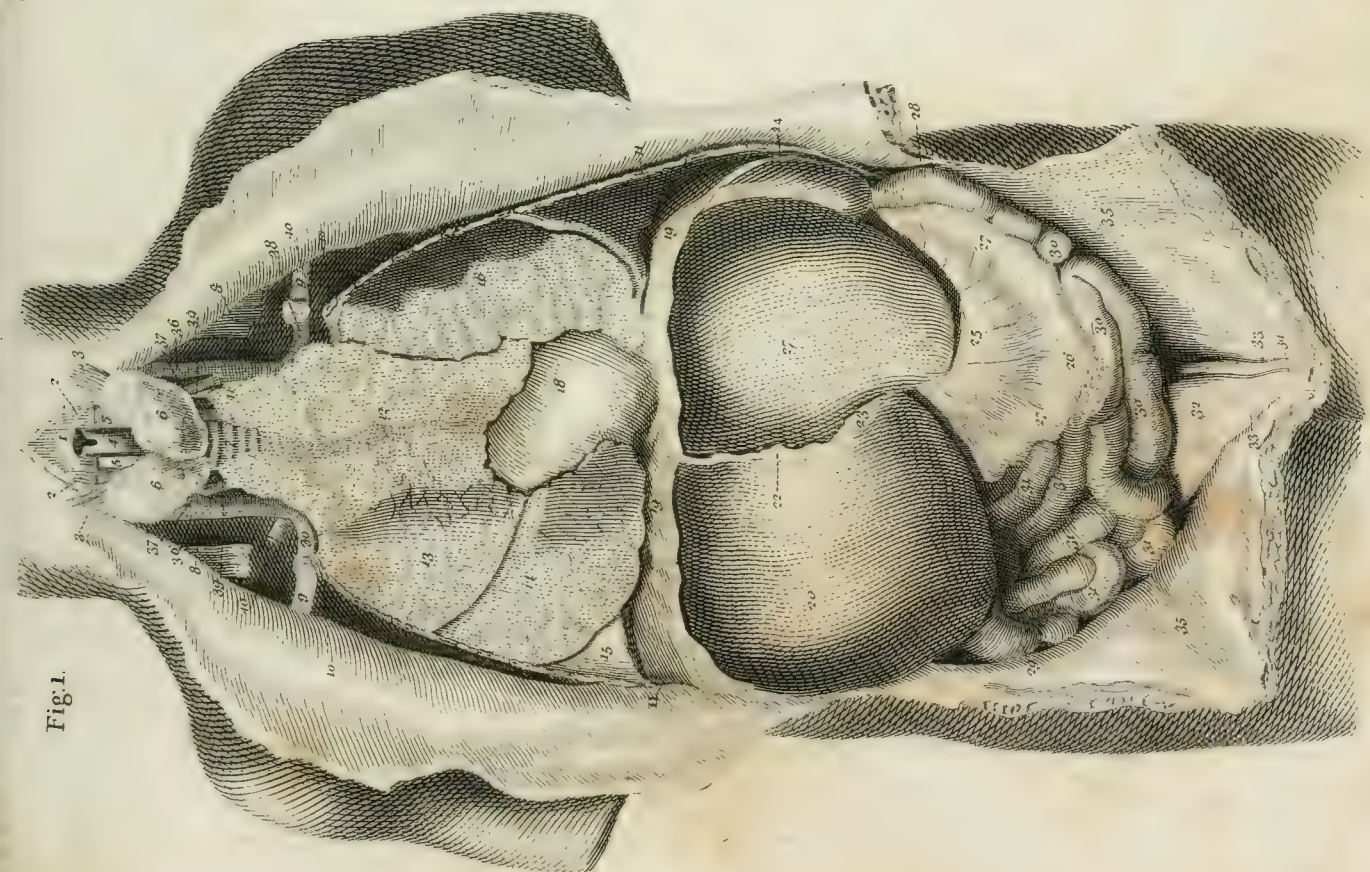


Fig. 1.

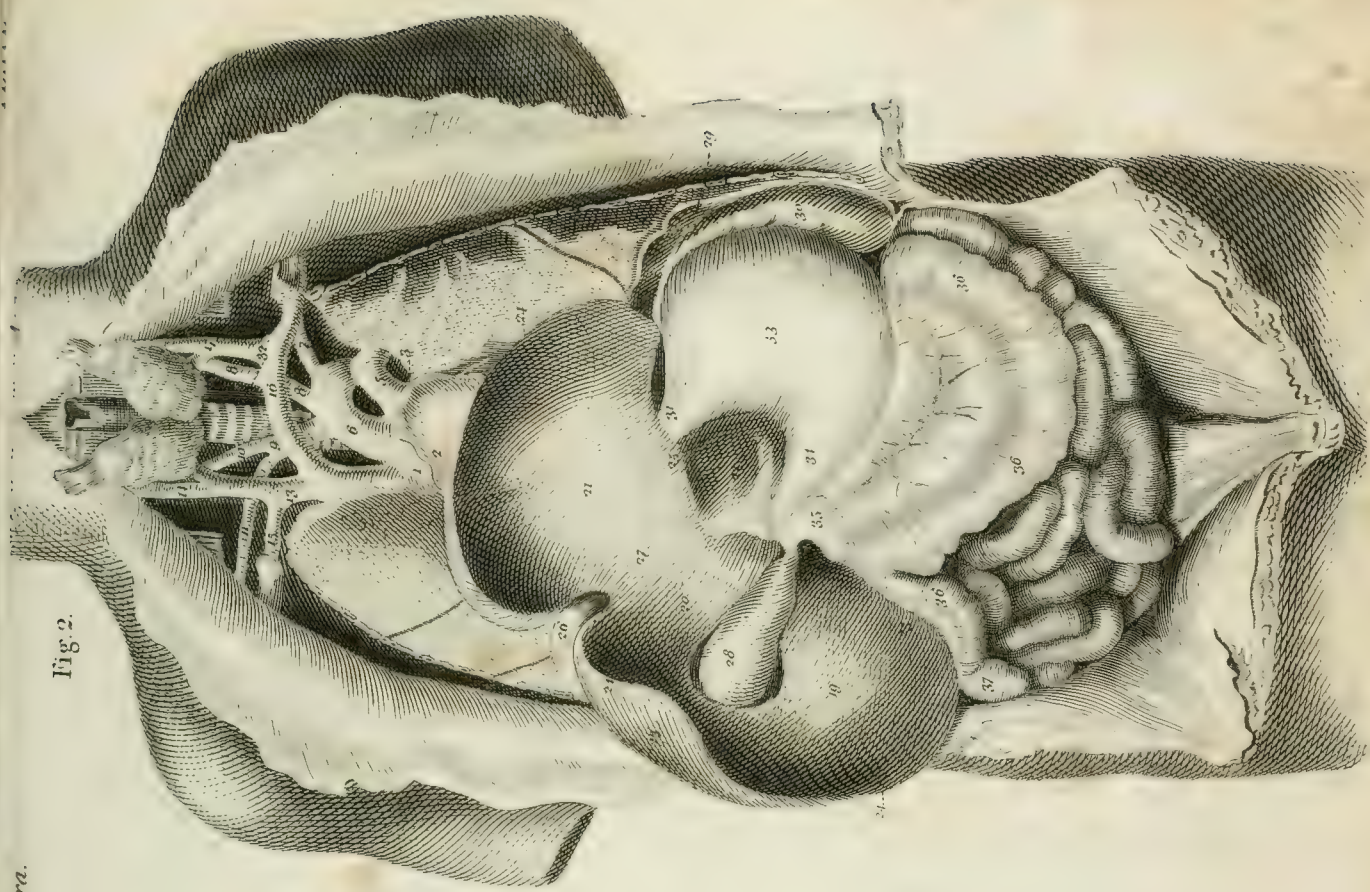


Fig. 2.

Viscera.



Fig 1

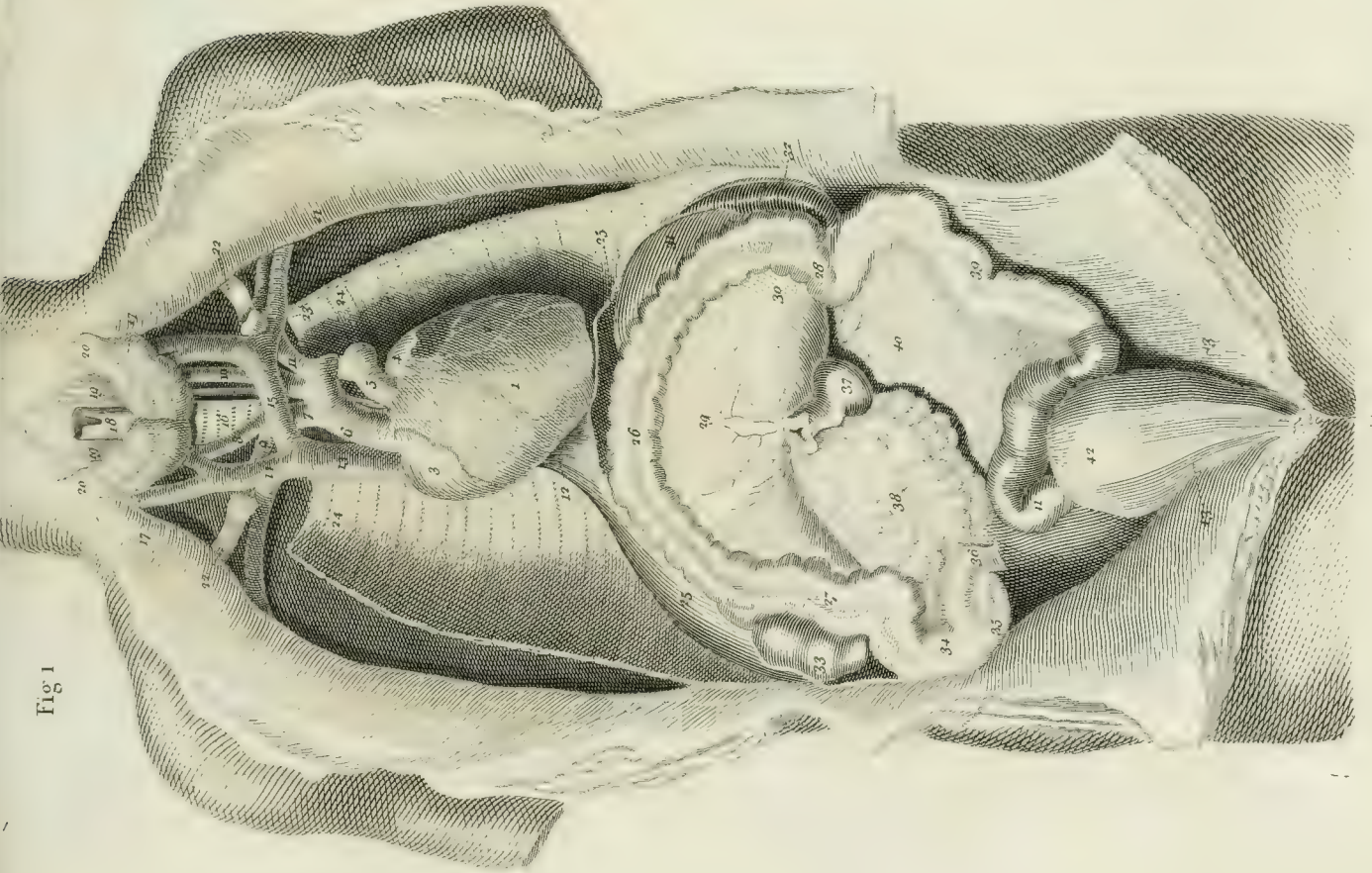


Fig. 2.

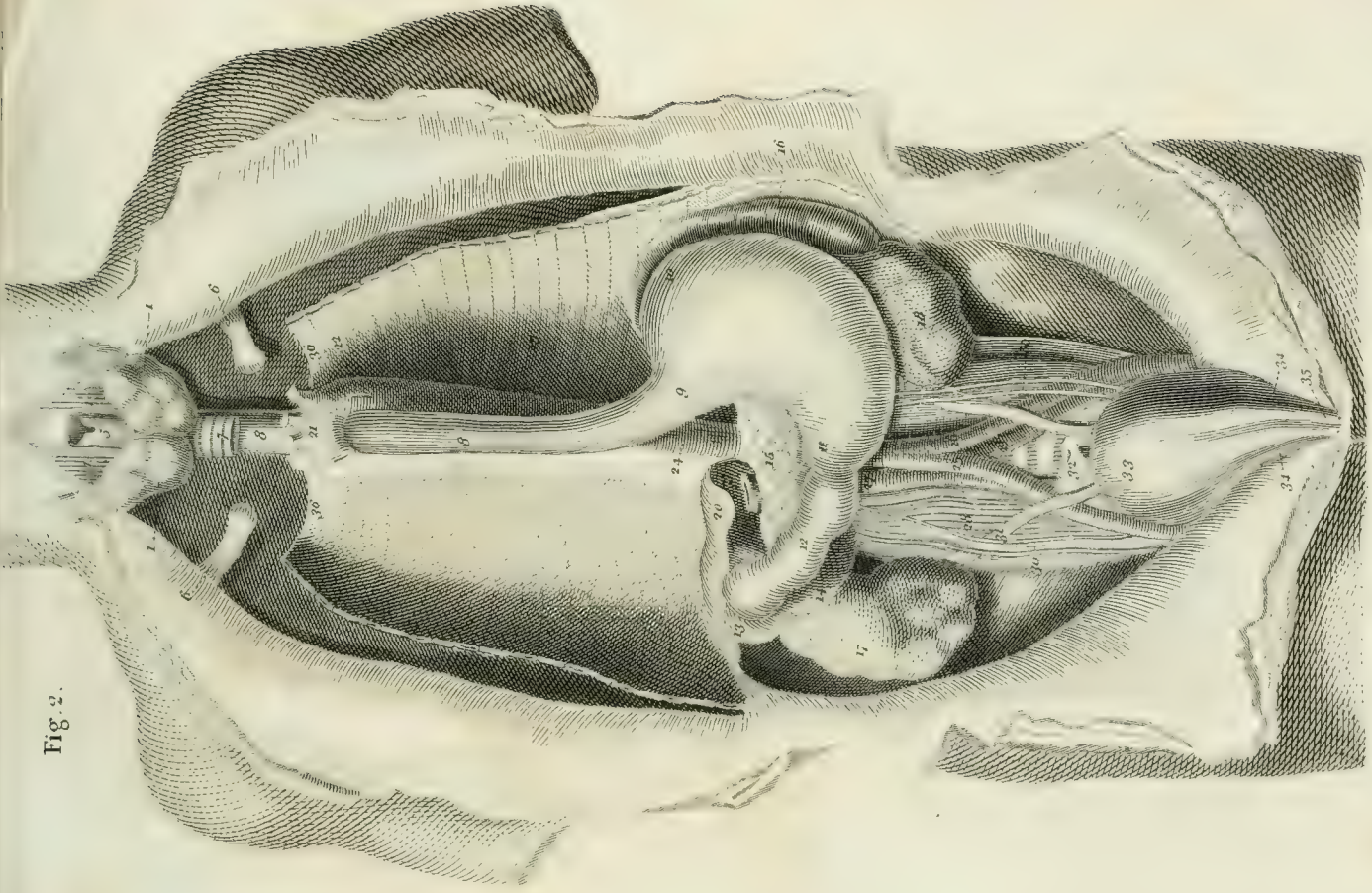




Fig. 1

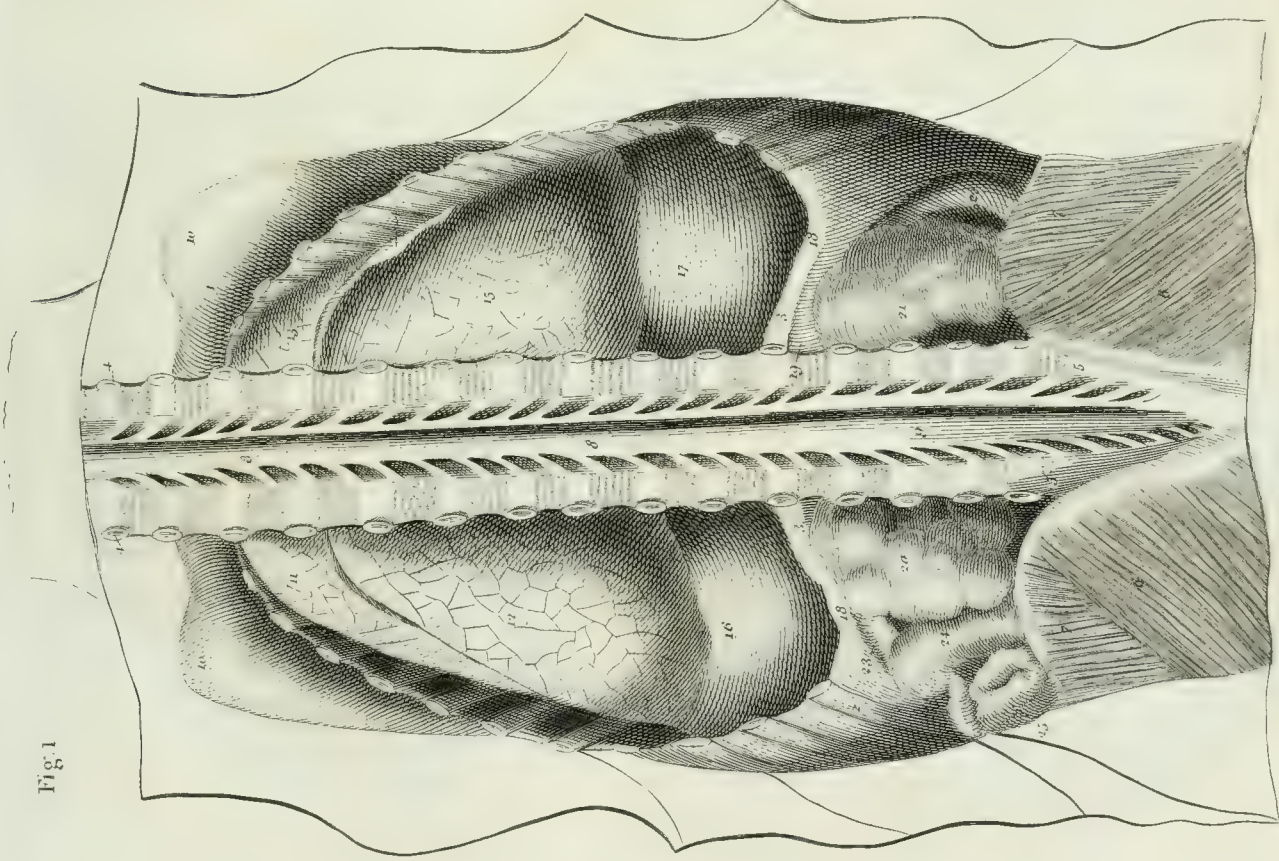
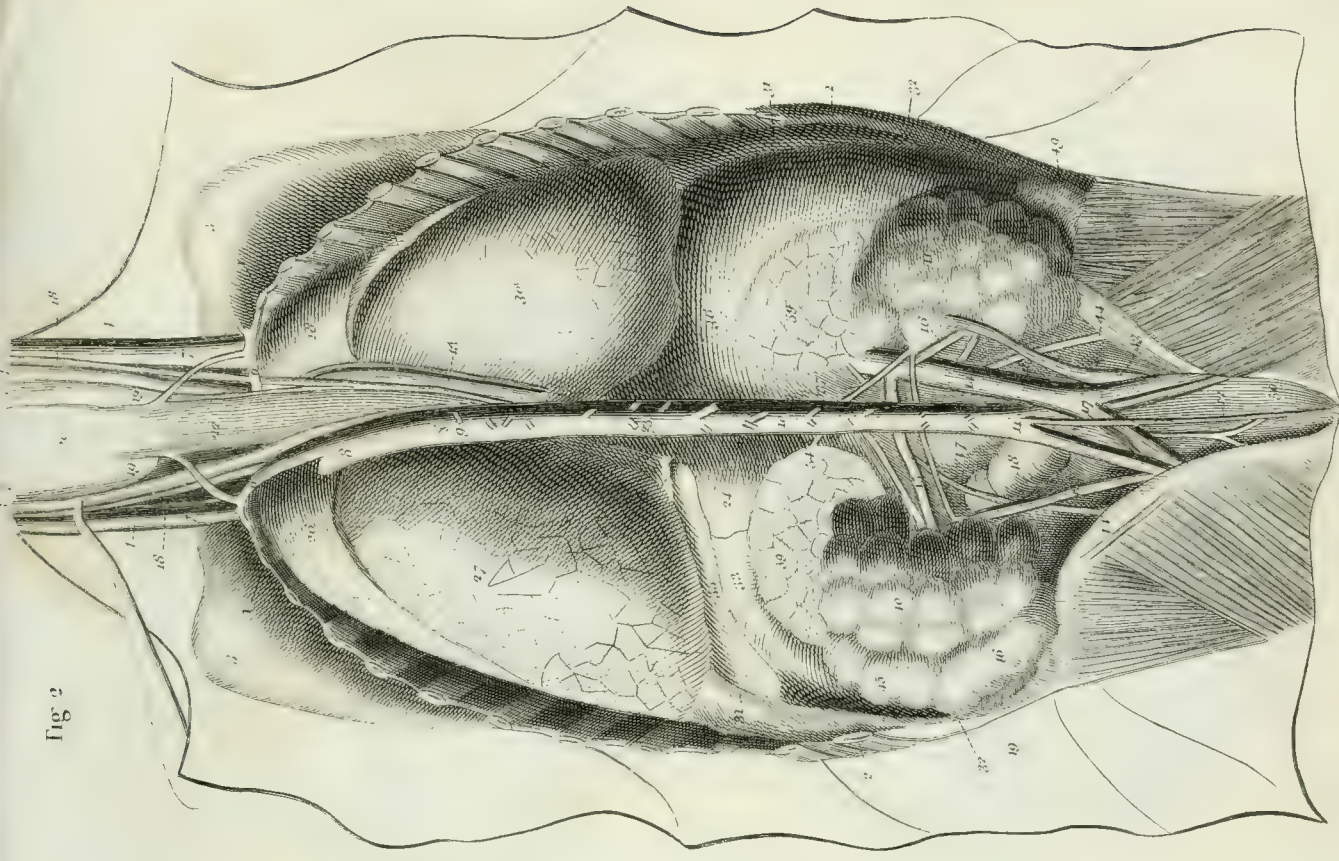


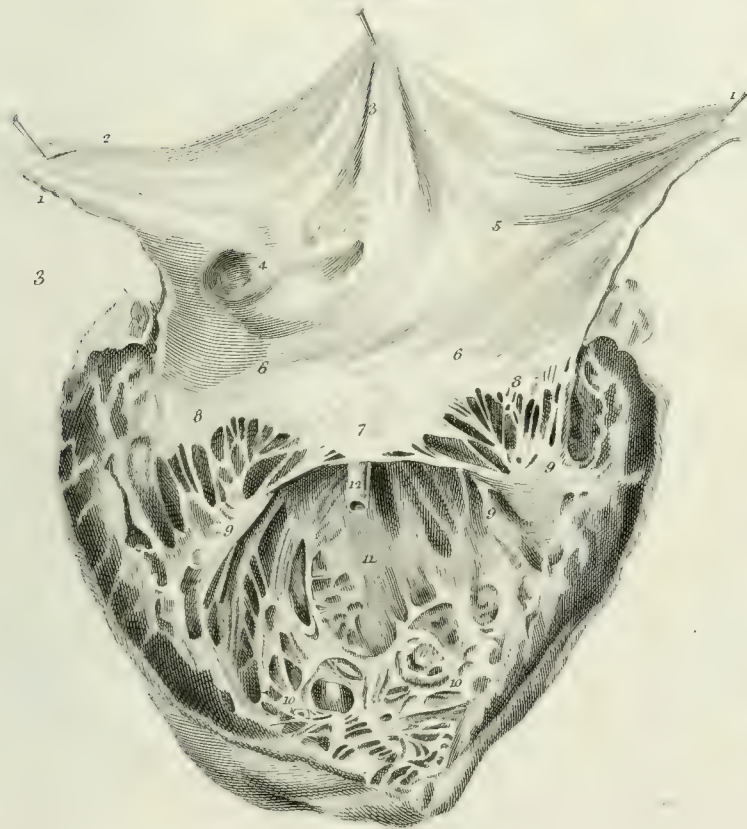
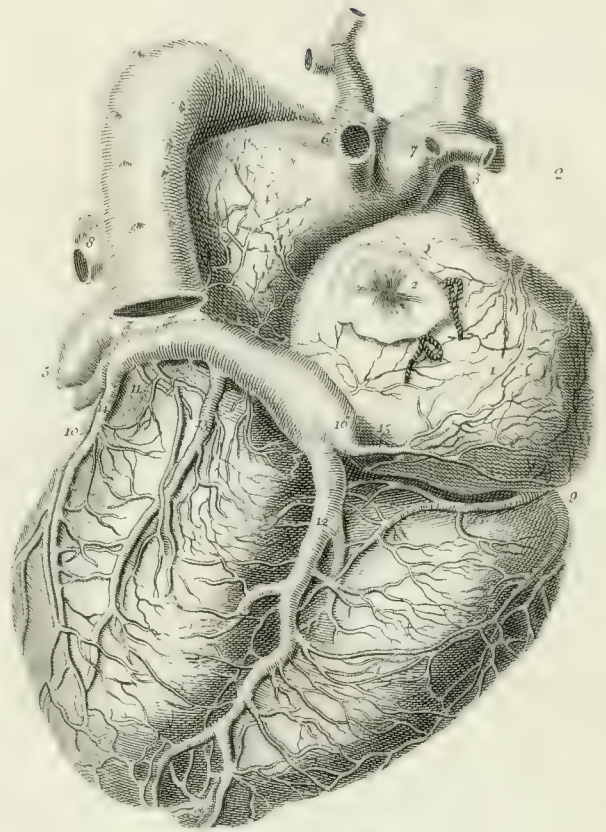
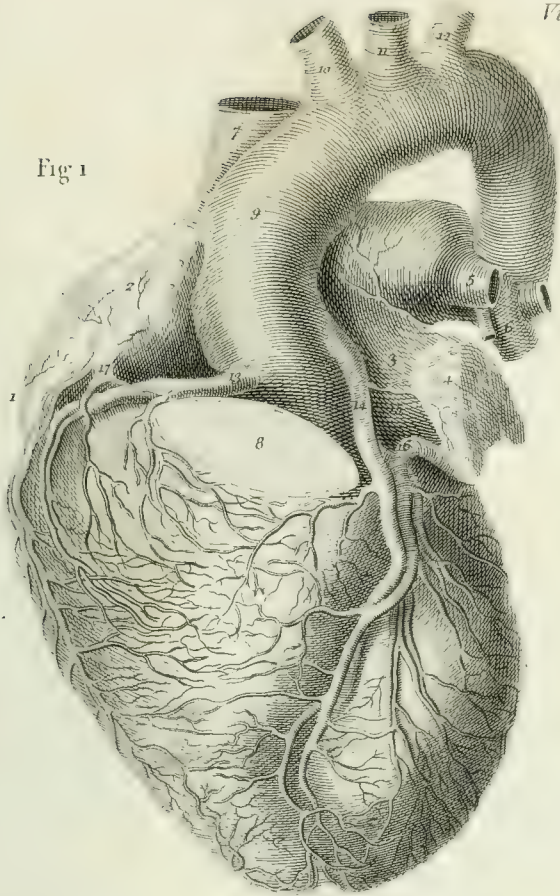
Fig. 2





Viscera.

Fig 1





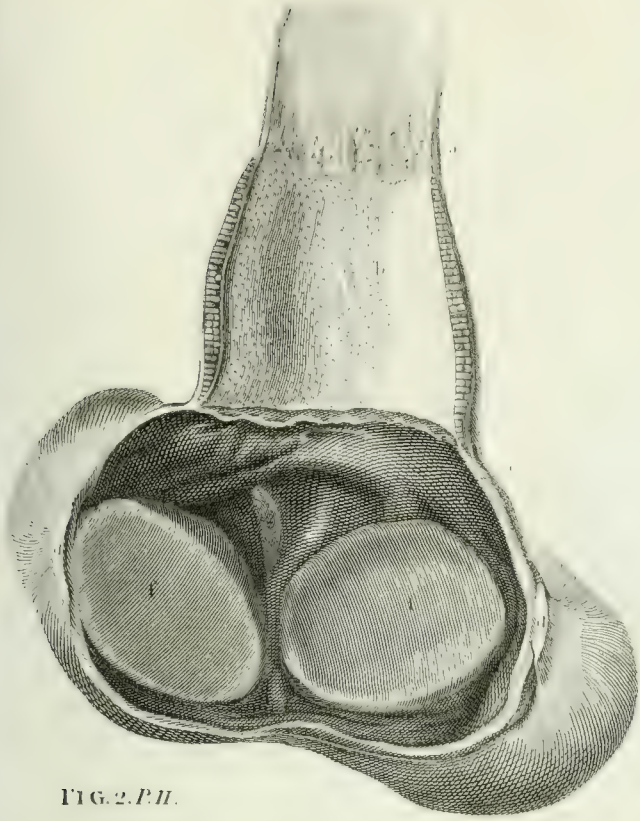


FIG. 2. *PII.*

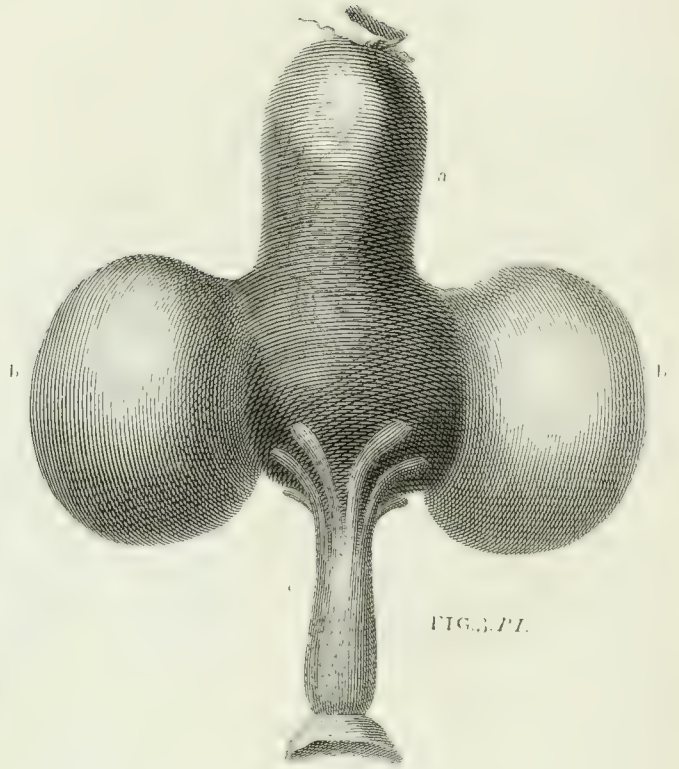


FIG. 3. *PI.*



FIG. 2. *PI.*



FIG. 1. *PI.*

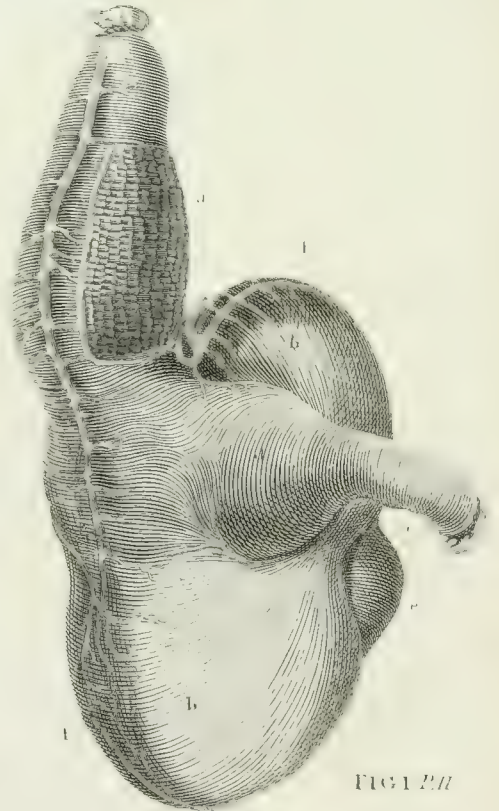


FIG. 1. *PII.*

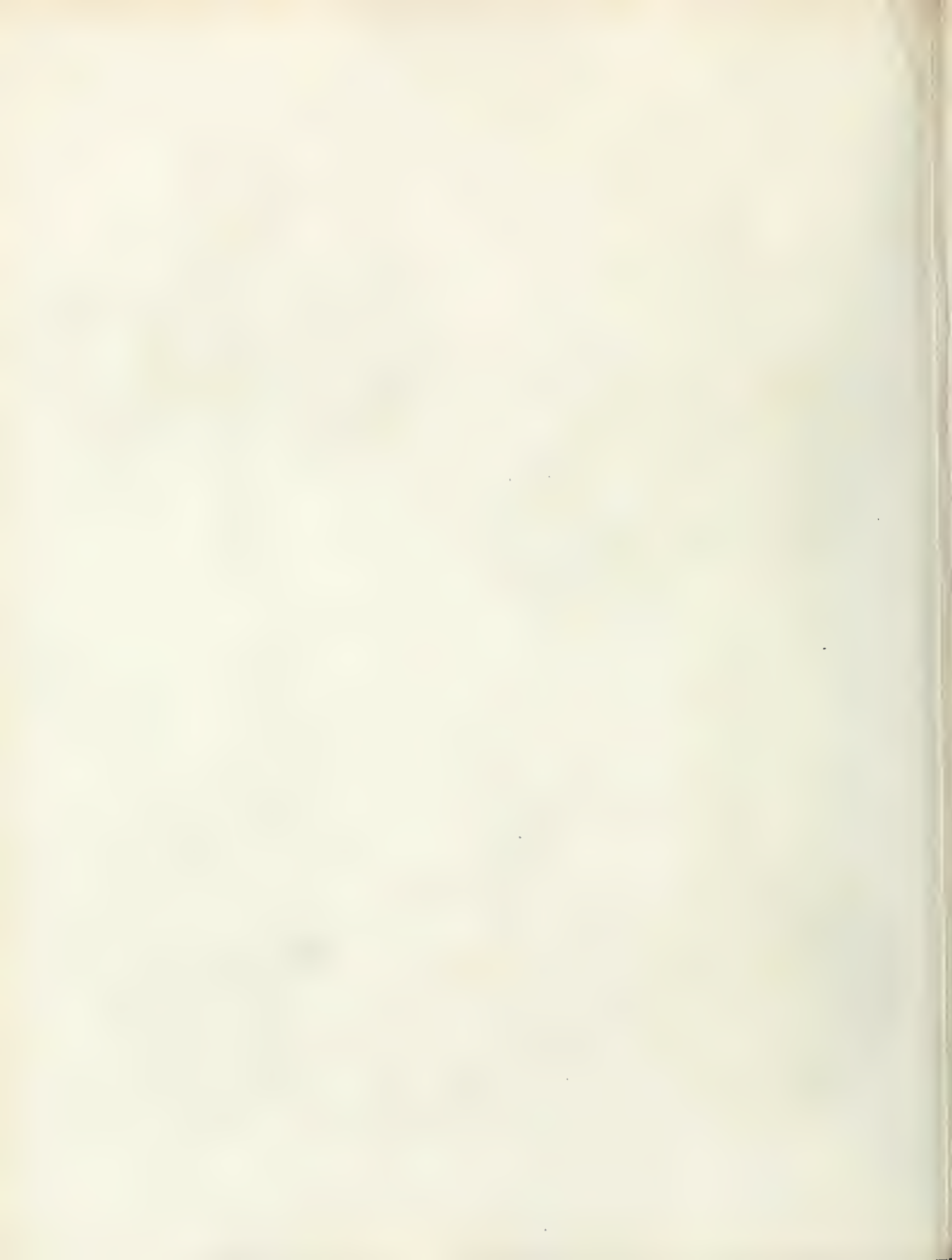


FIG. I.

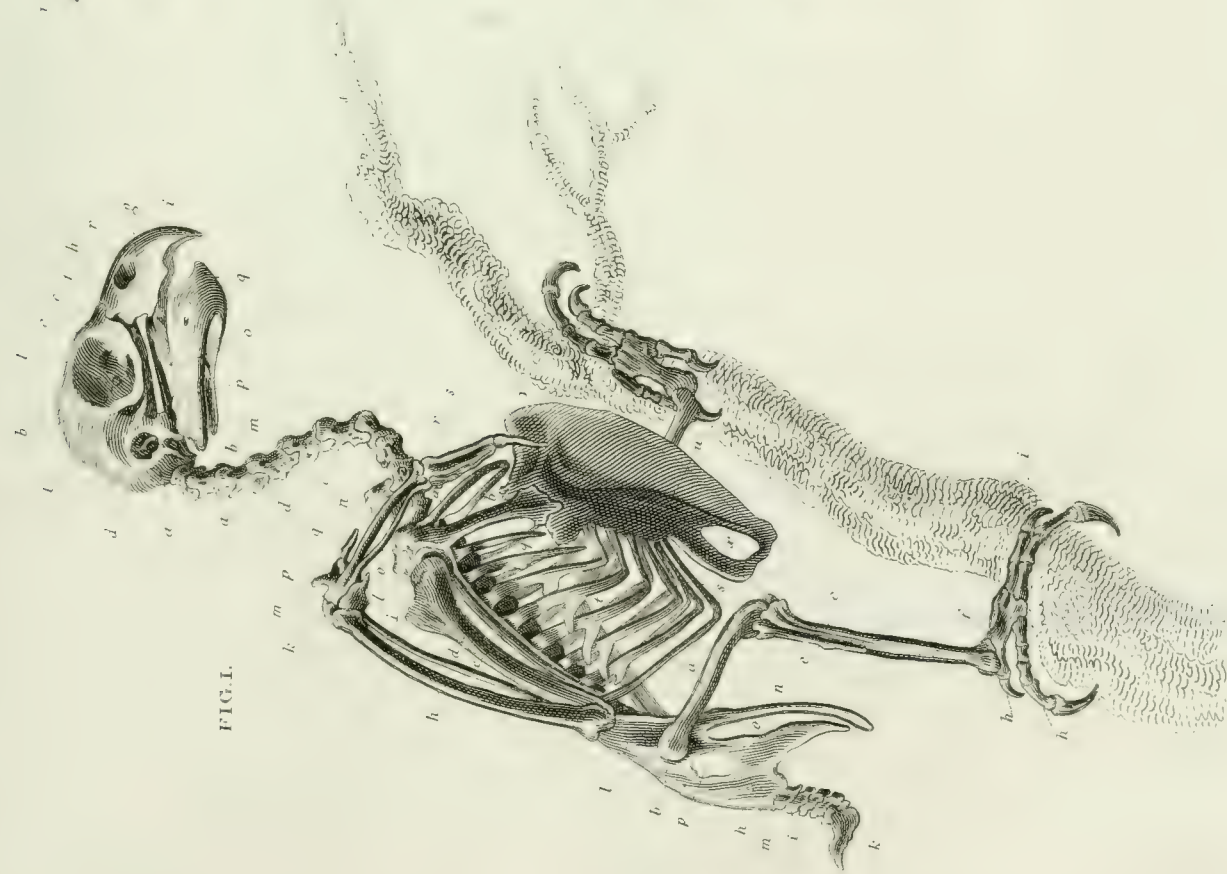
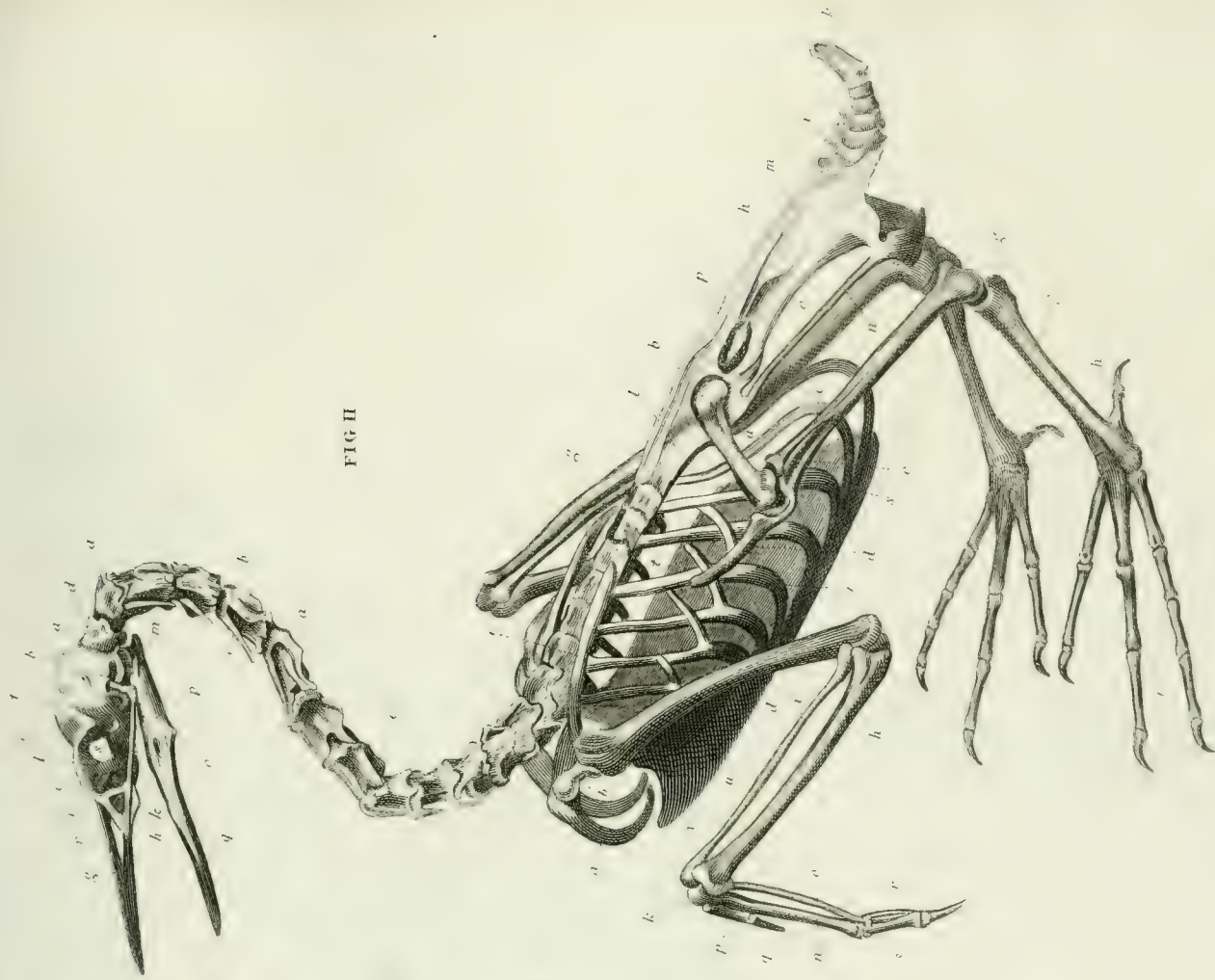
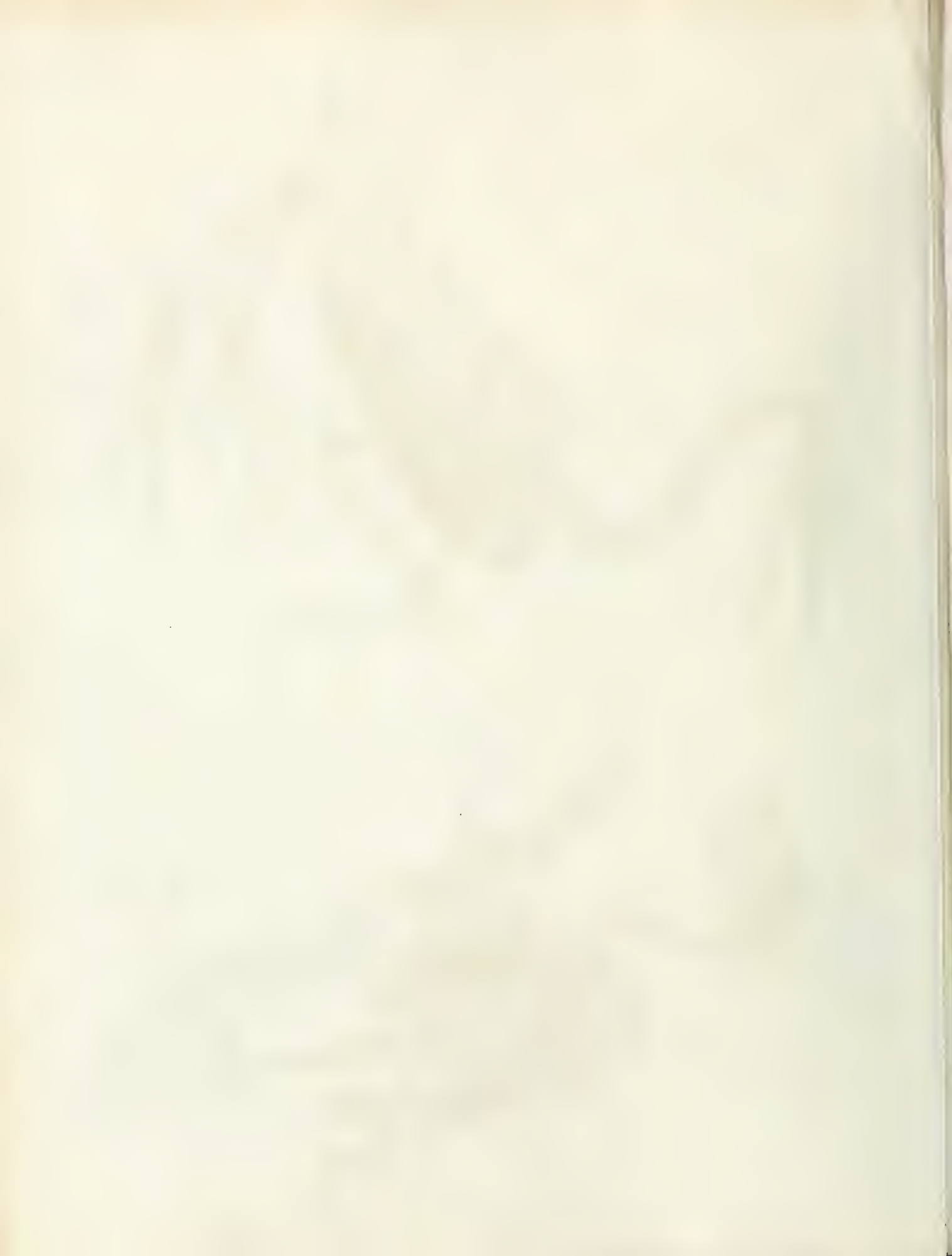
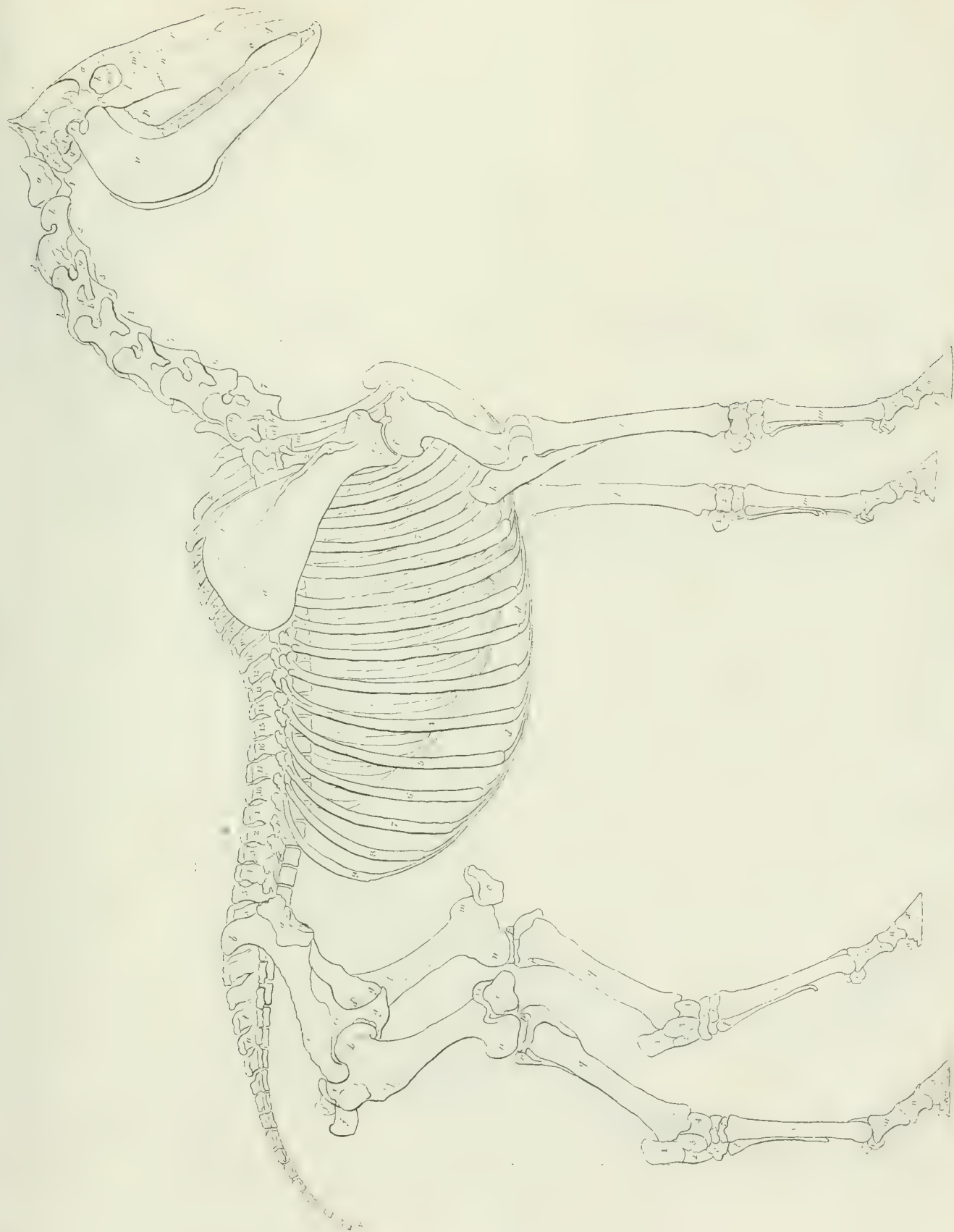


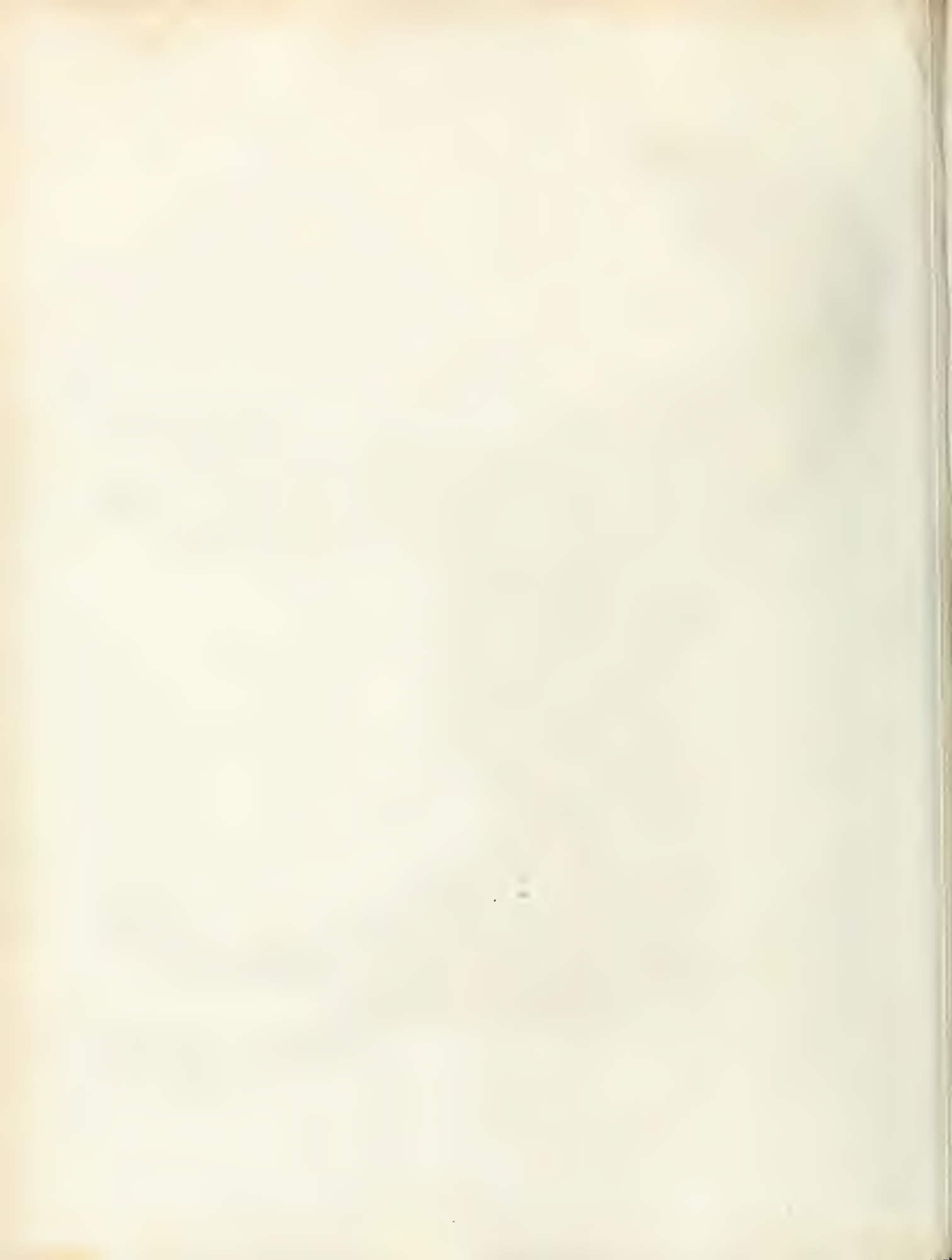
FIG. II.





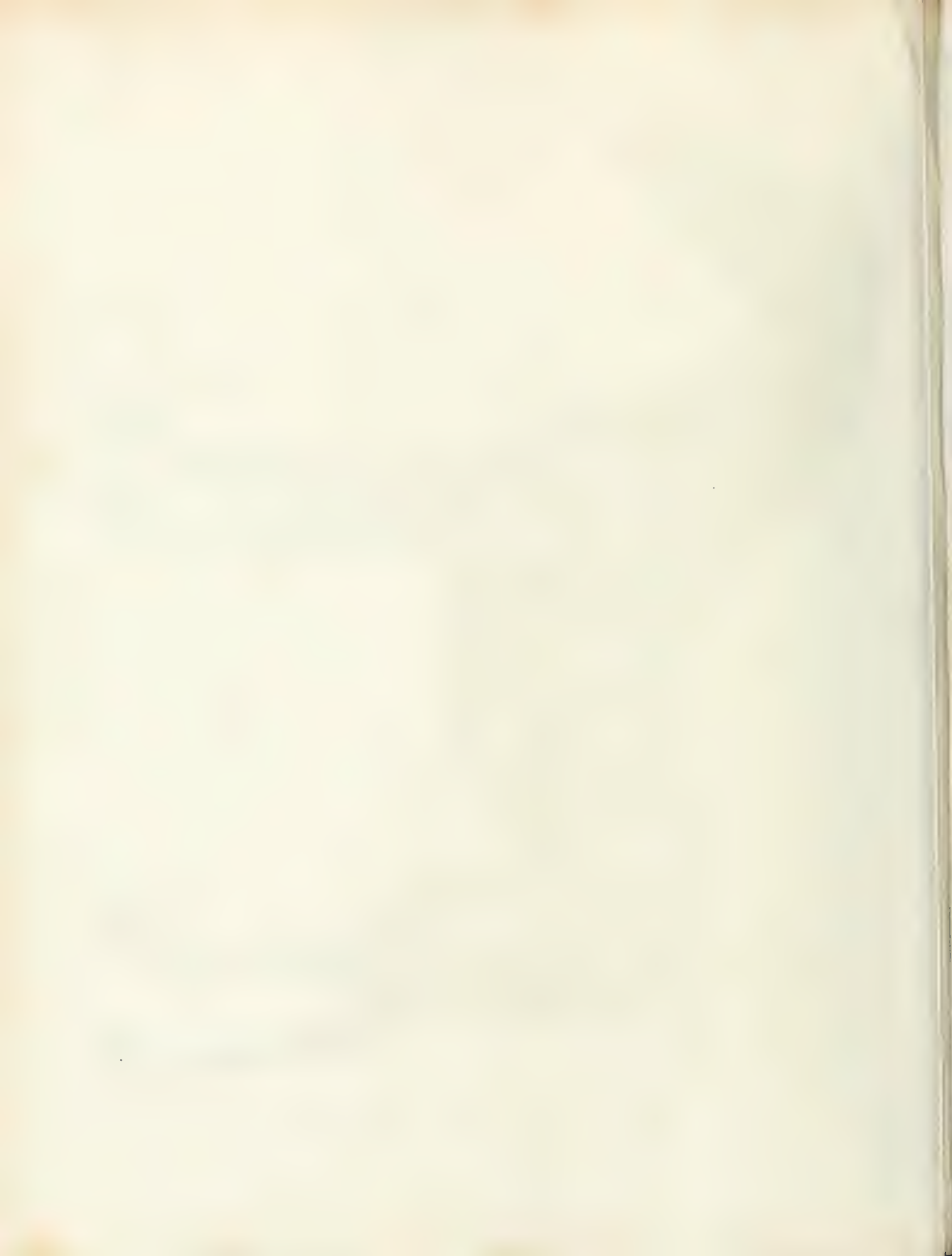


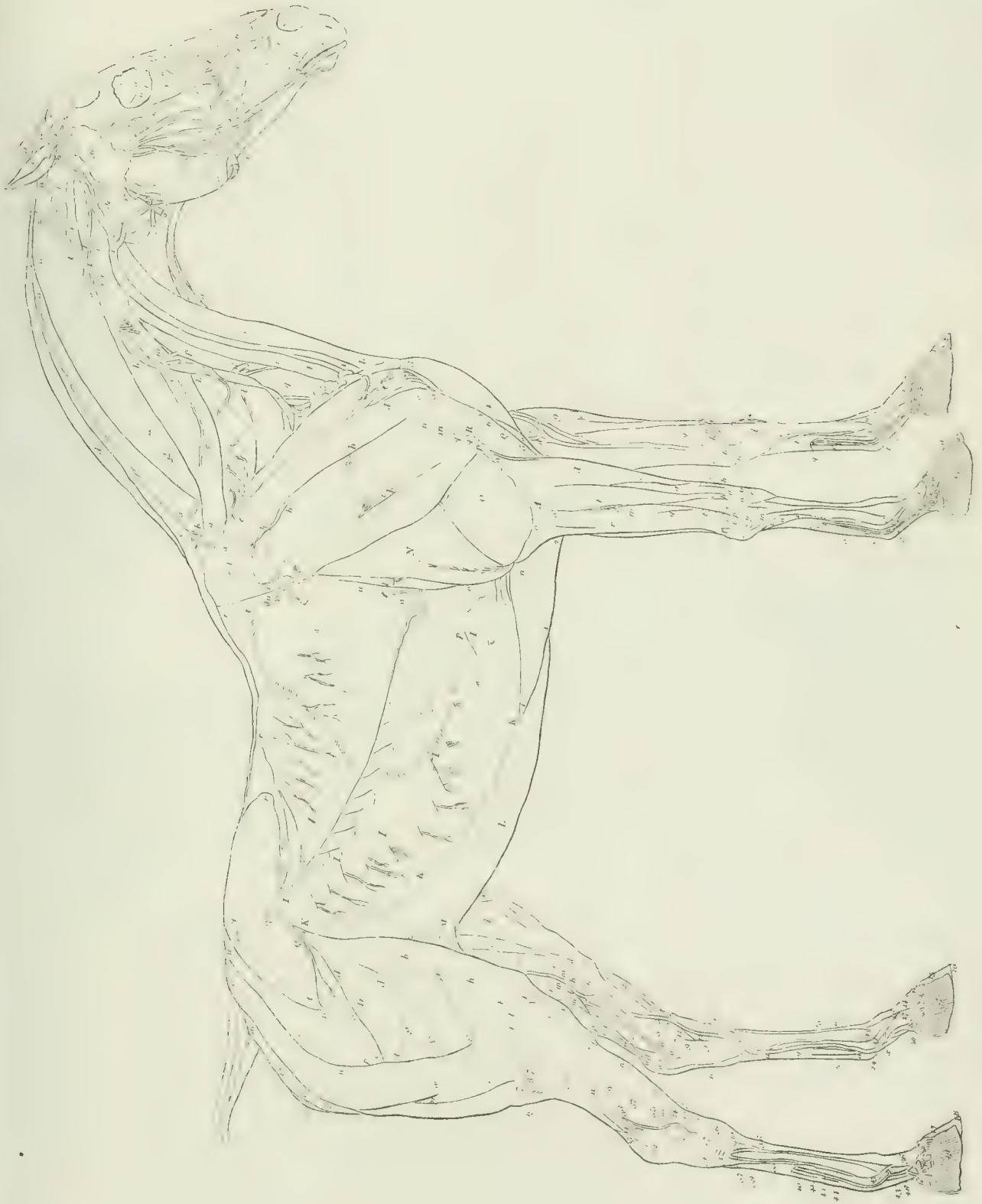
Tab. I. as the skeleton of a horse, by Linnæus & Rees. Anatom. Tab.

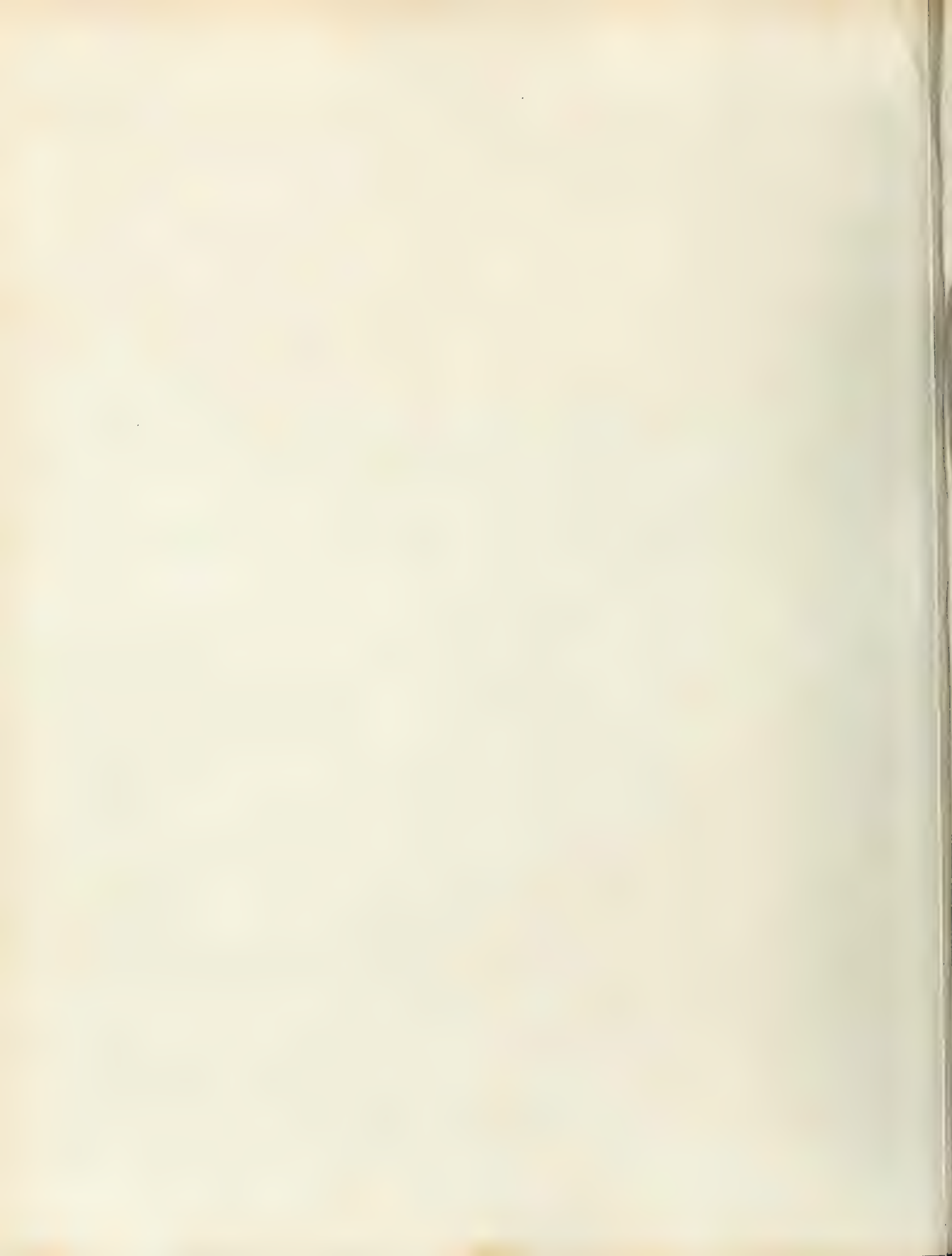


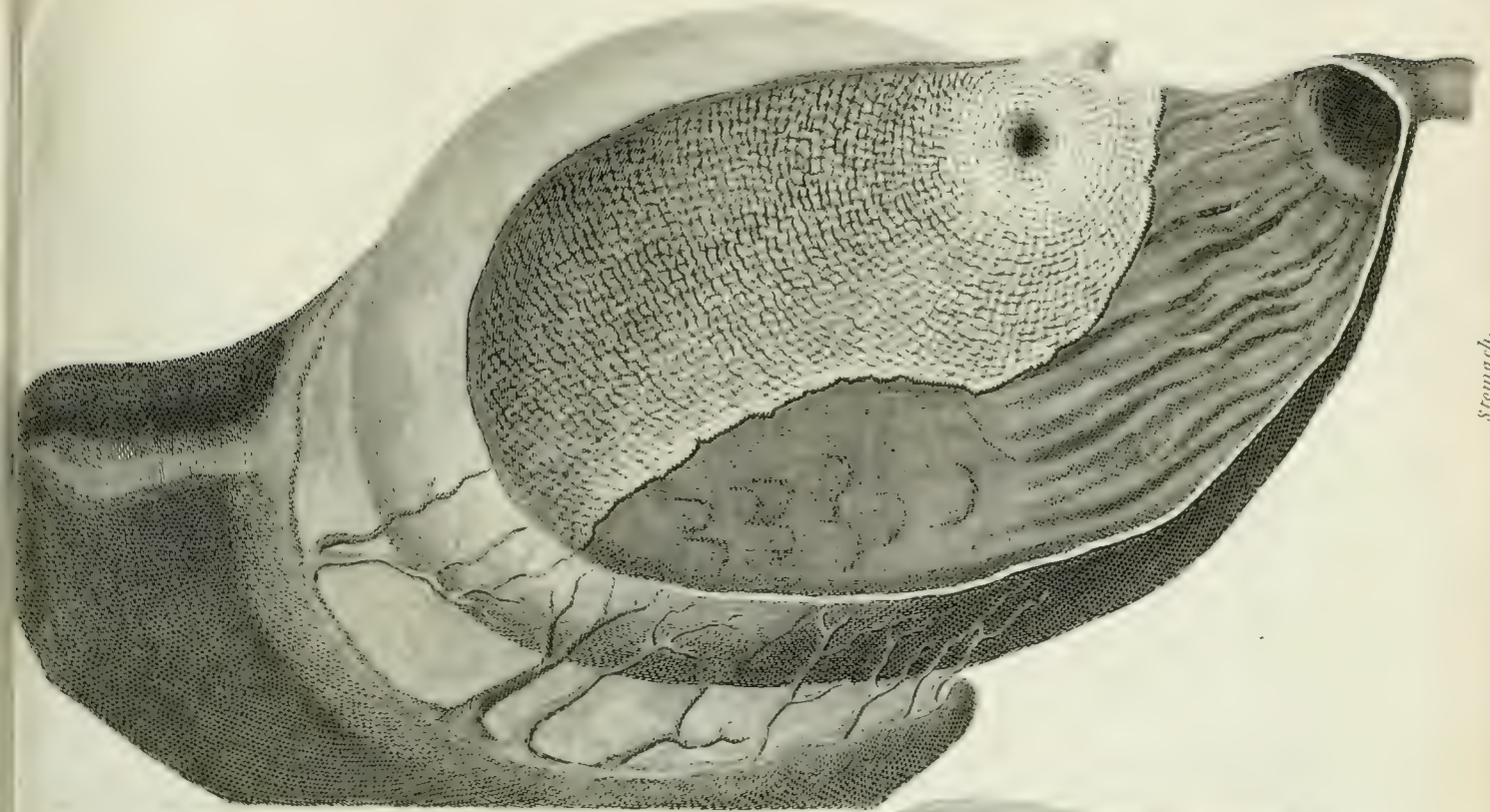
of the Horse.



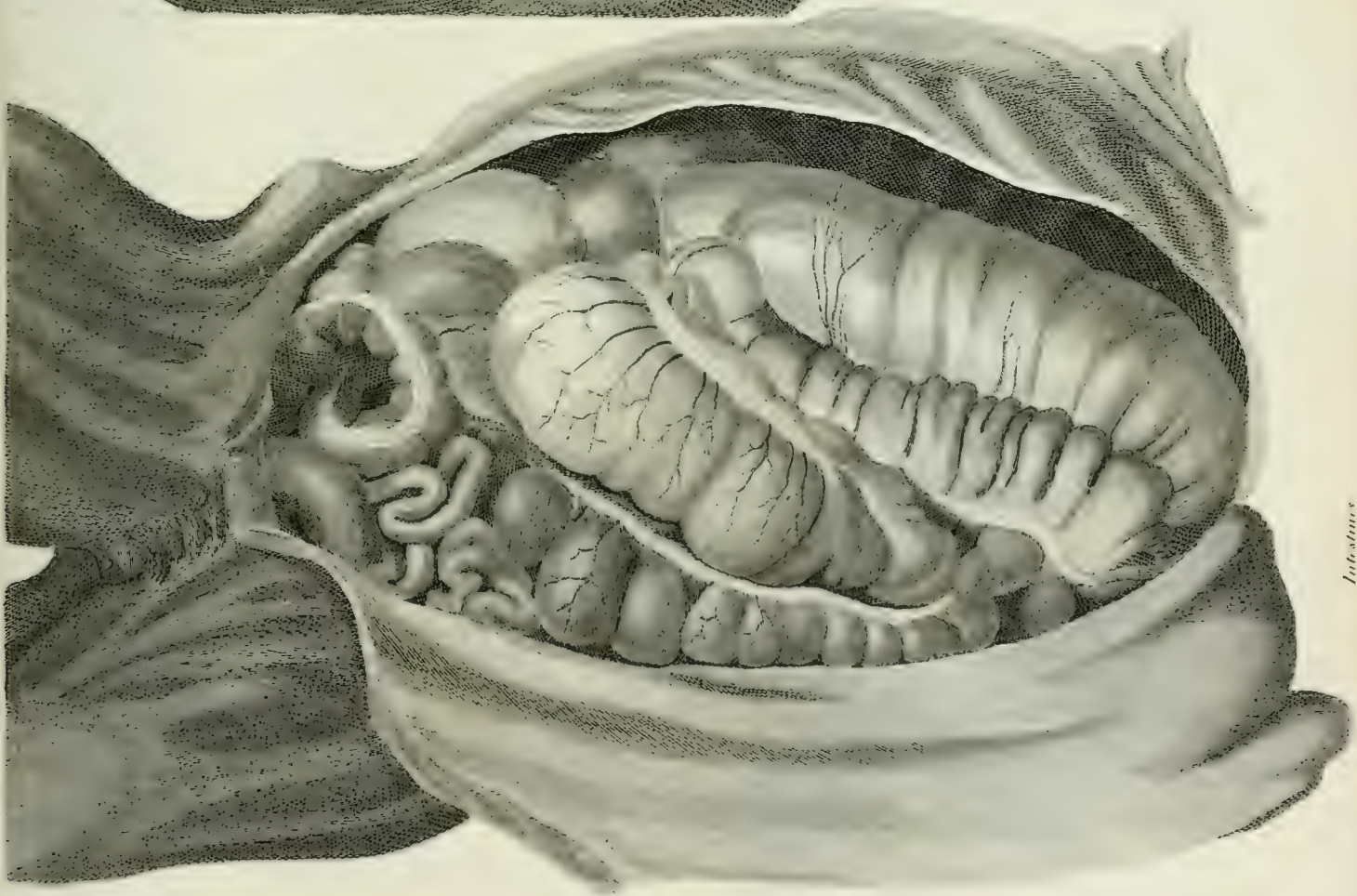




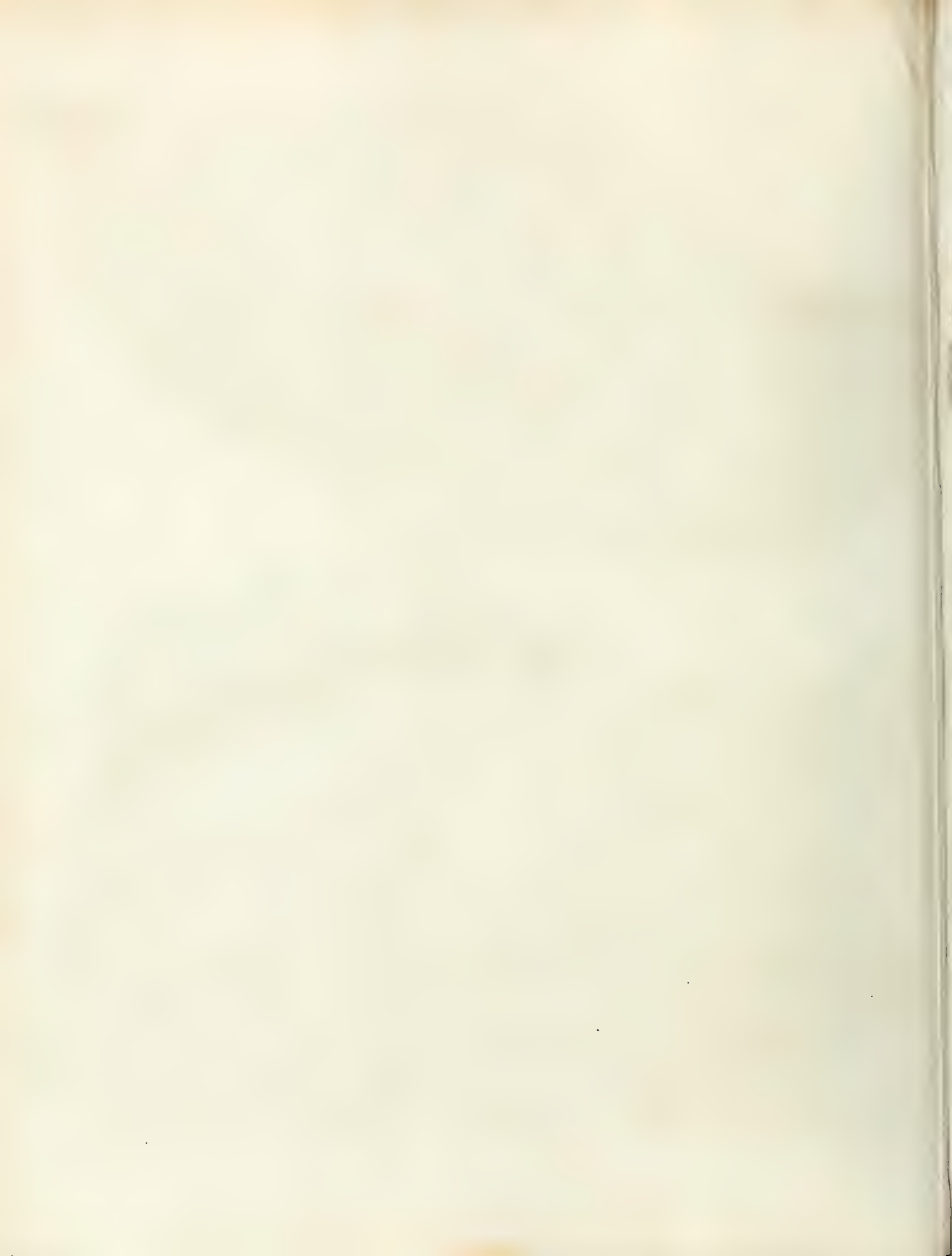




Stomach.



Intestines.



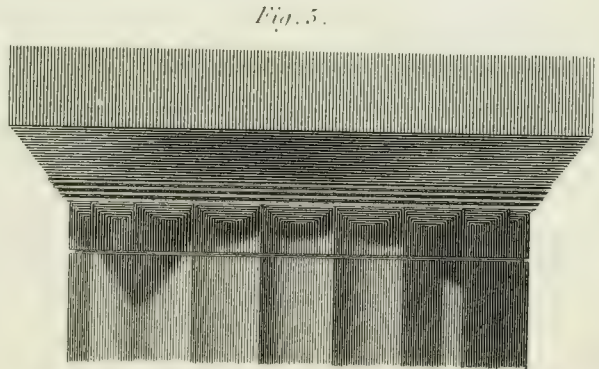
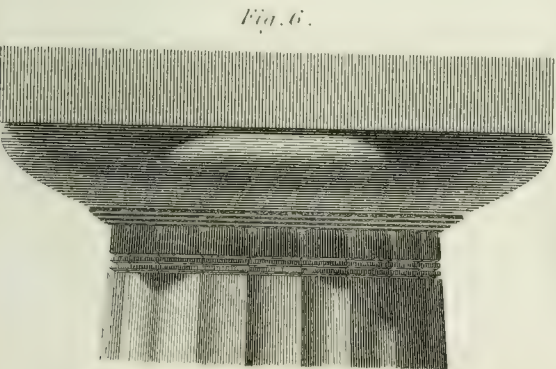
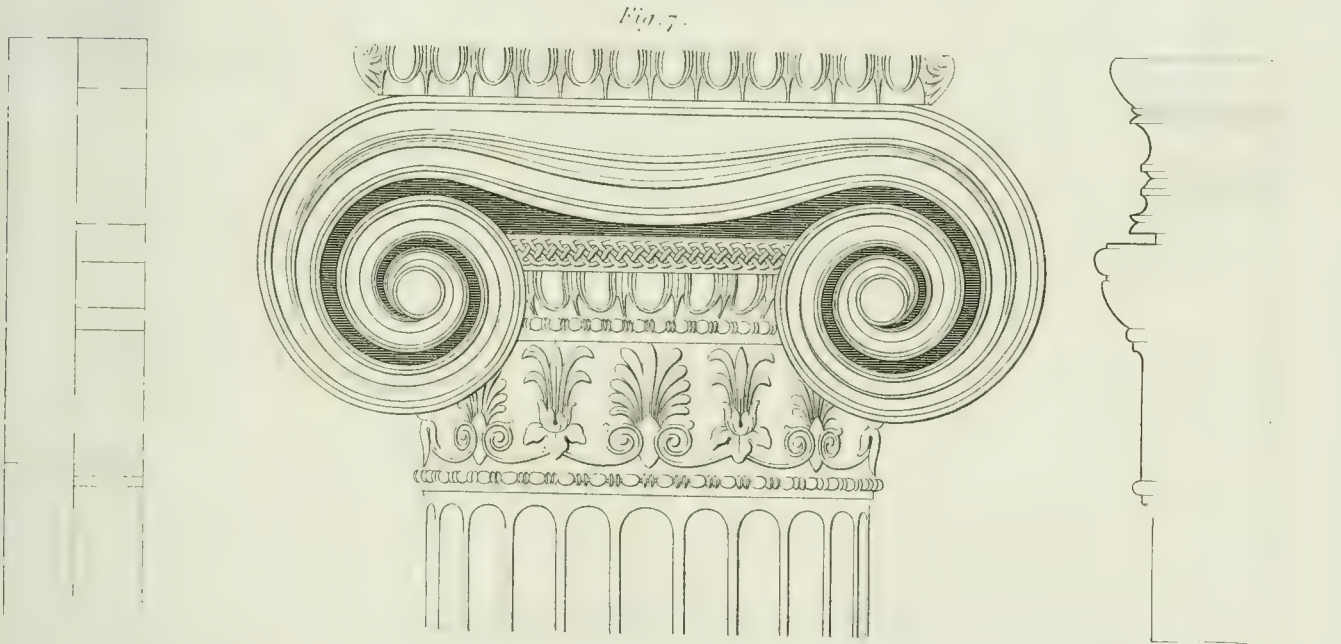
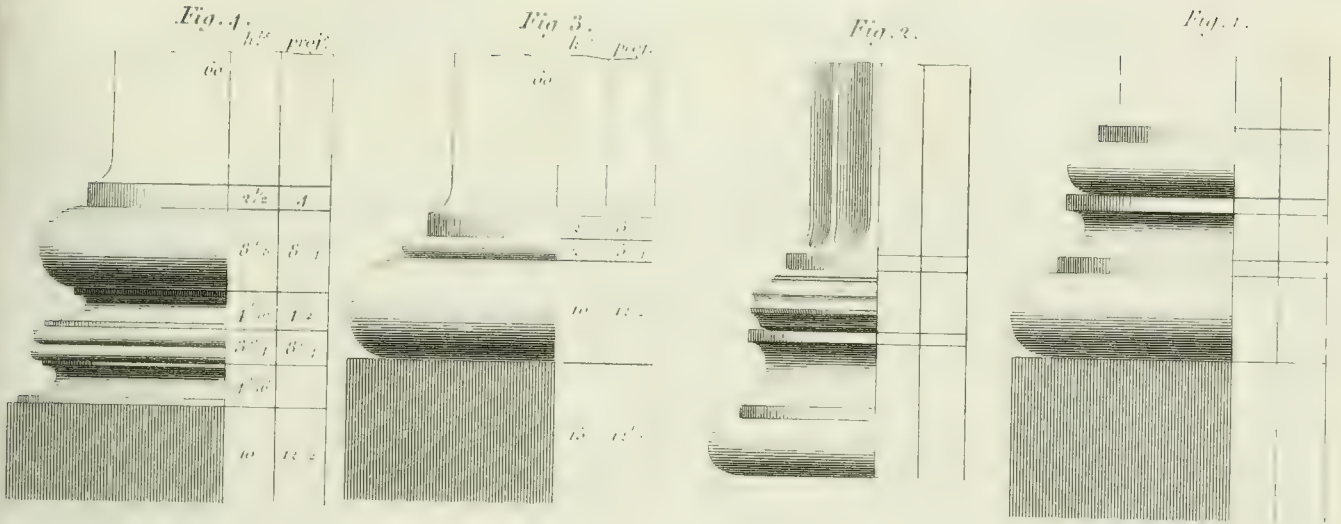
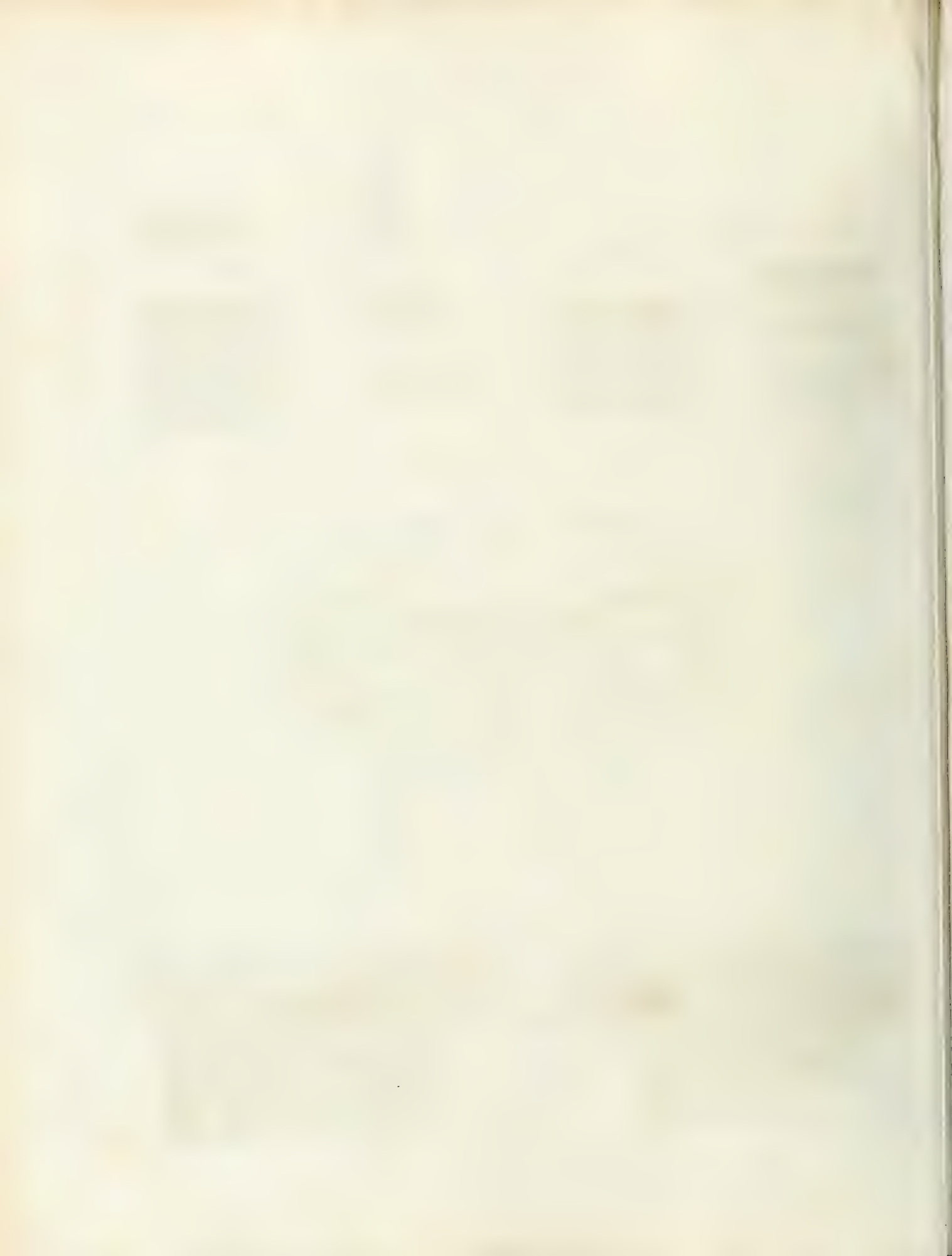


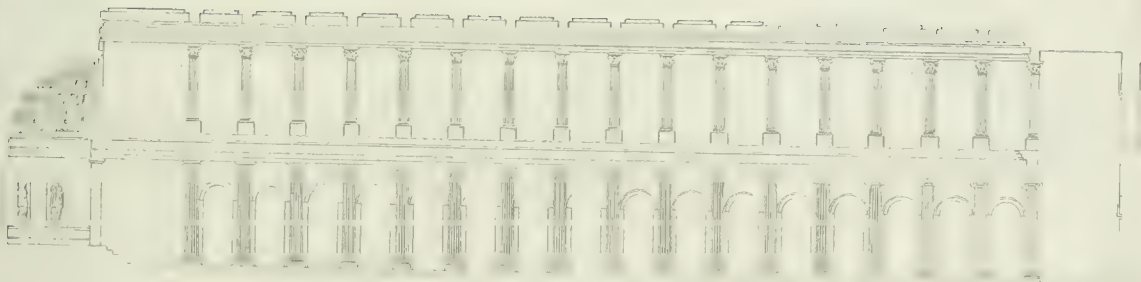
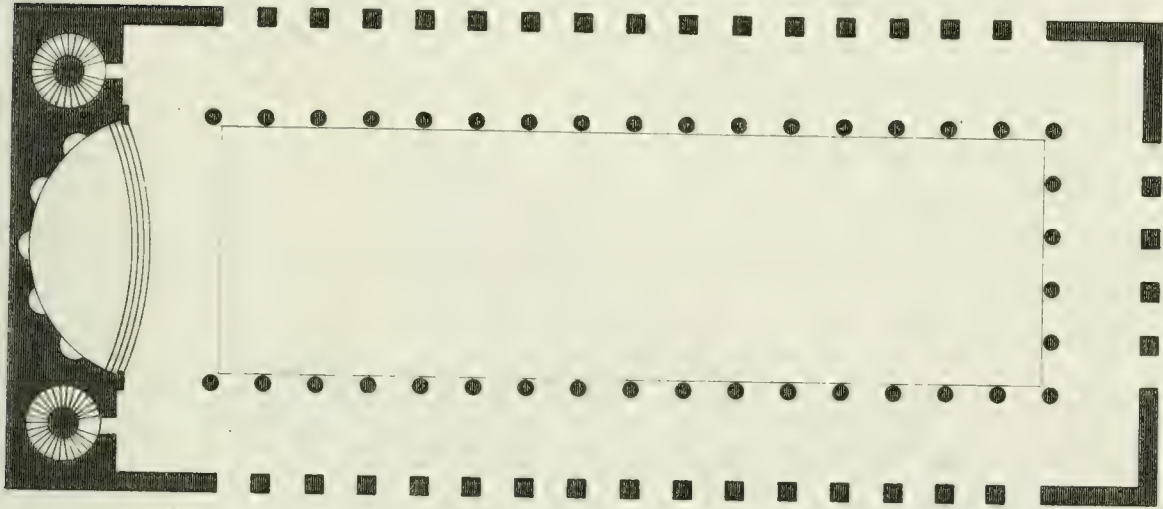
Fig. 1. Attic Base from the remains of the Temple of Jupiter Olympius at Athens.
 Fig. 2. Attic Base from the Temple of Minerva Polias at Athens.
 Fig. 3. Doric Base & Fig. 4. Ionic Base according to Vignola.
 Fig. 5. Doric Capital from the portico of Philip in the Island of Delos.
 Fig. 6. Doric Capital from the Temple at Corinth.
 Fig. 7. Ionic Capital from the Temple of Minerva Polias at Athens.



ARCHITECTURE.

PLATE II.

ROMAN BASILICA, FROM THE DESCRIPTION OF VITRUVIUS.

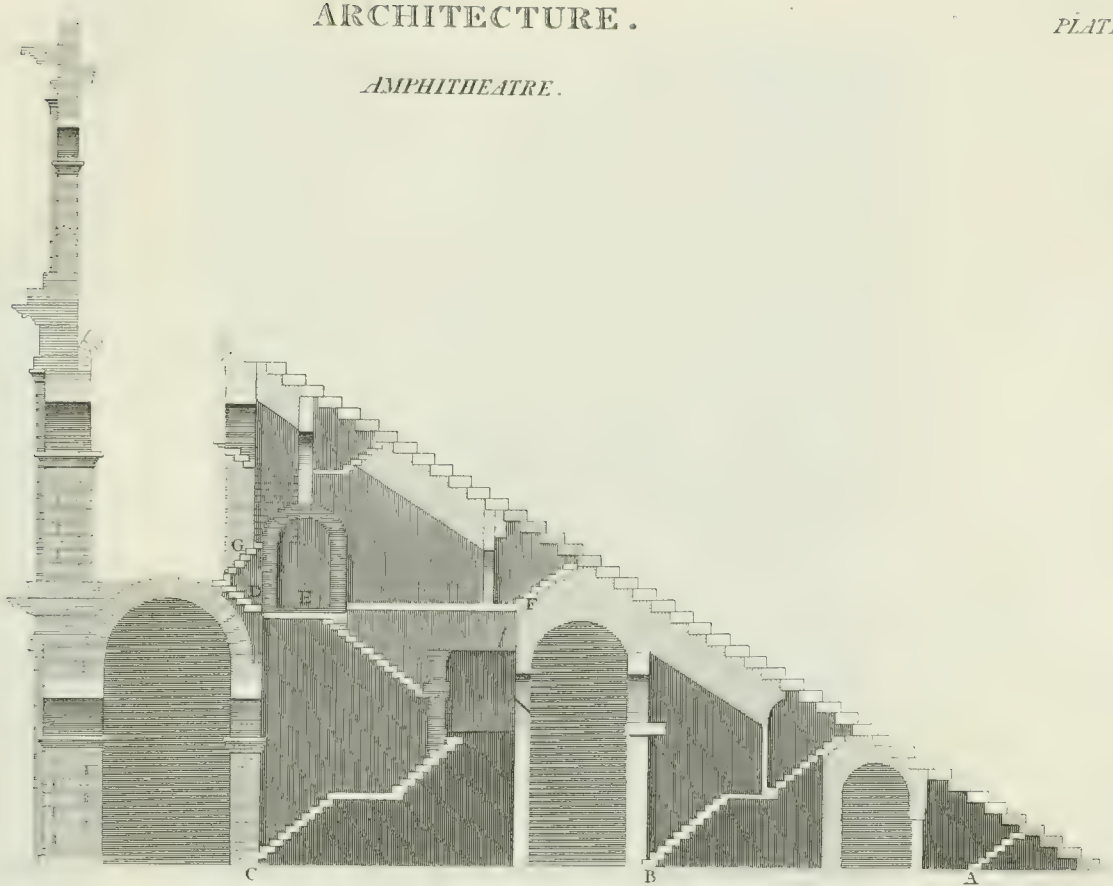




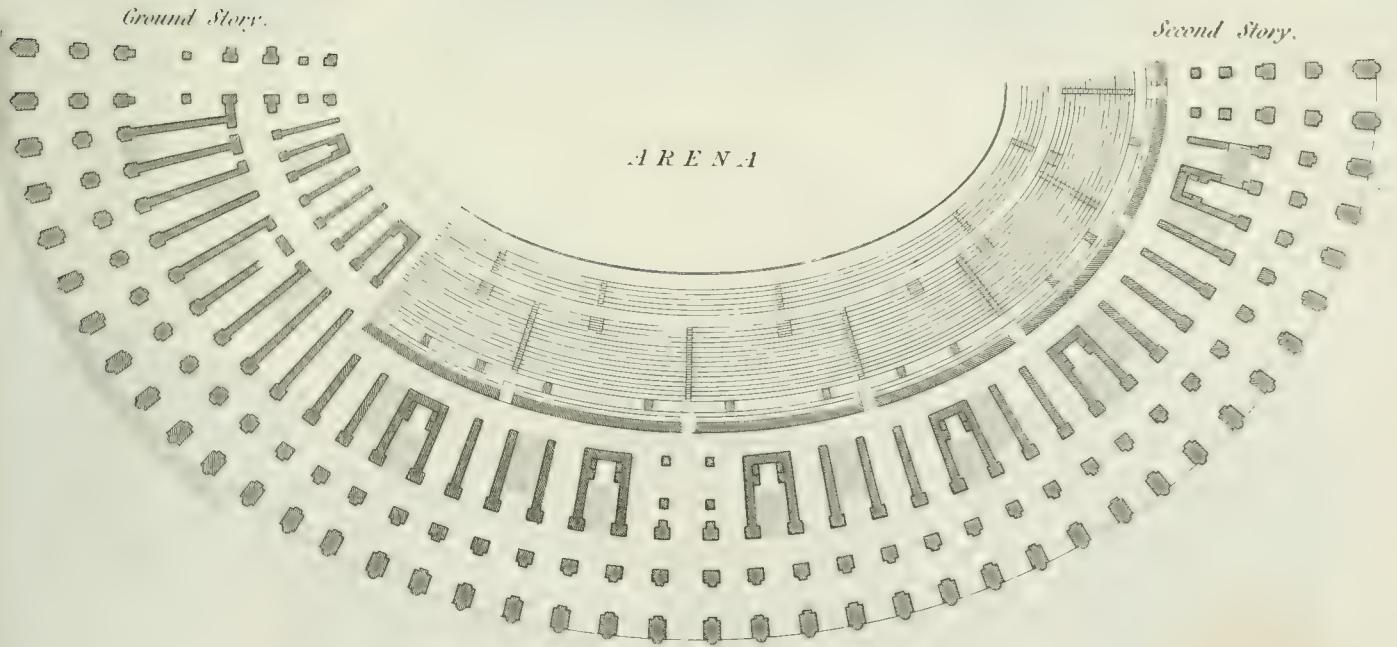
ARCHITECTURE.

PLATE II.

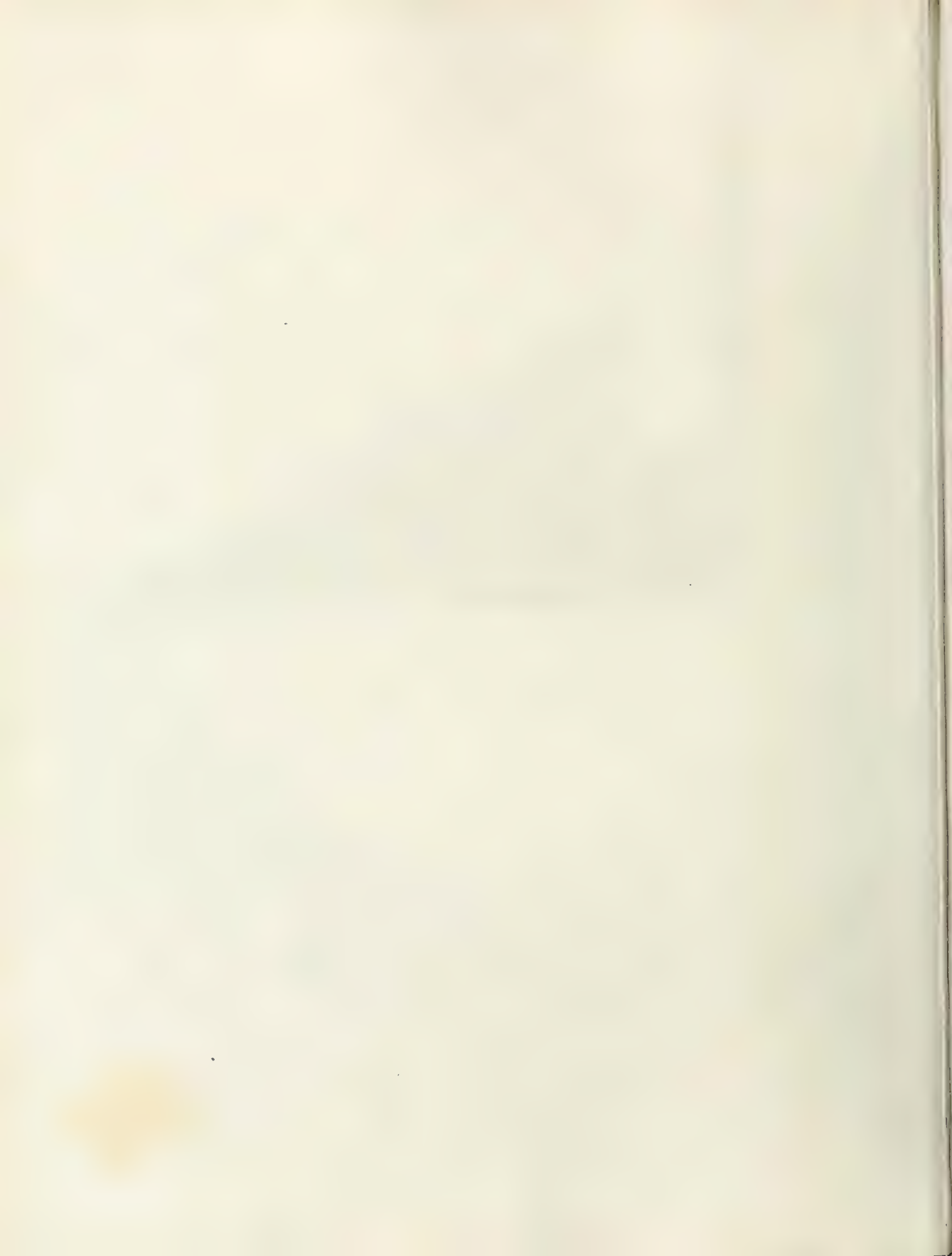
AMPHITHEATRE.



N^o 1. Referred to as Architecture. PLATE II.



N^o 2. Referred to as Architecture. PLATE III.

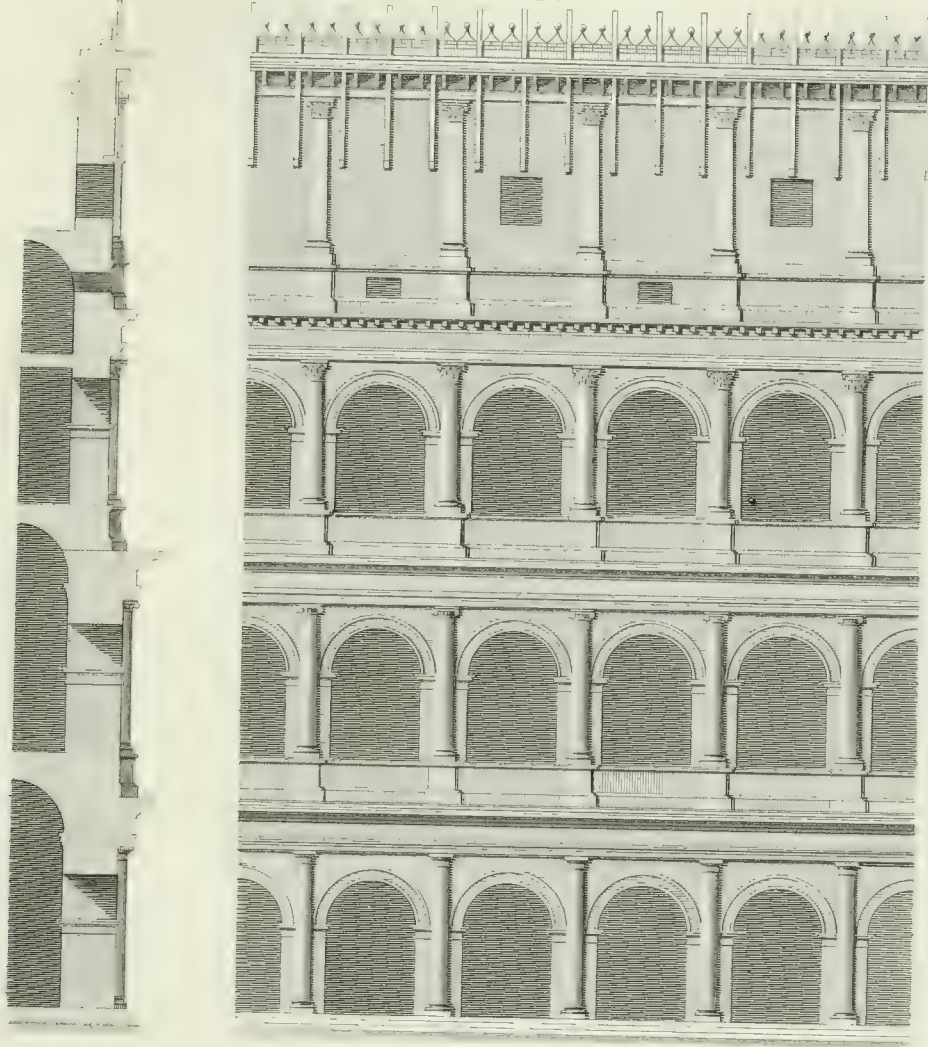


ARCHITECTURE.

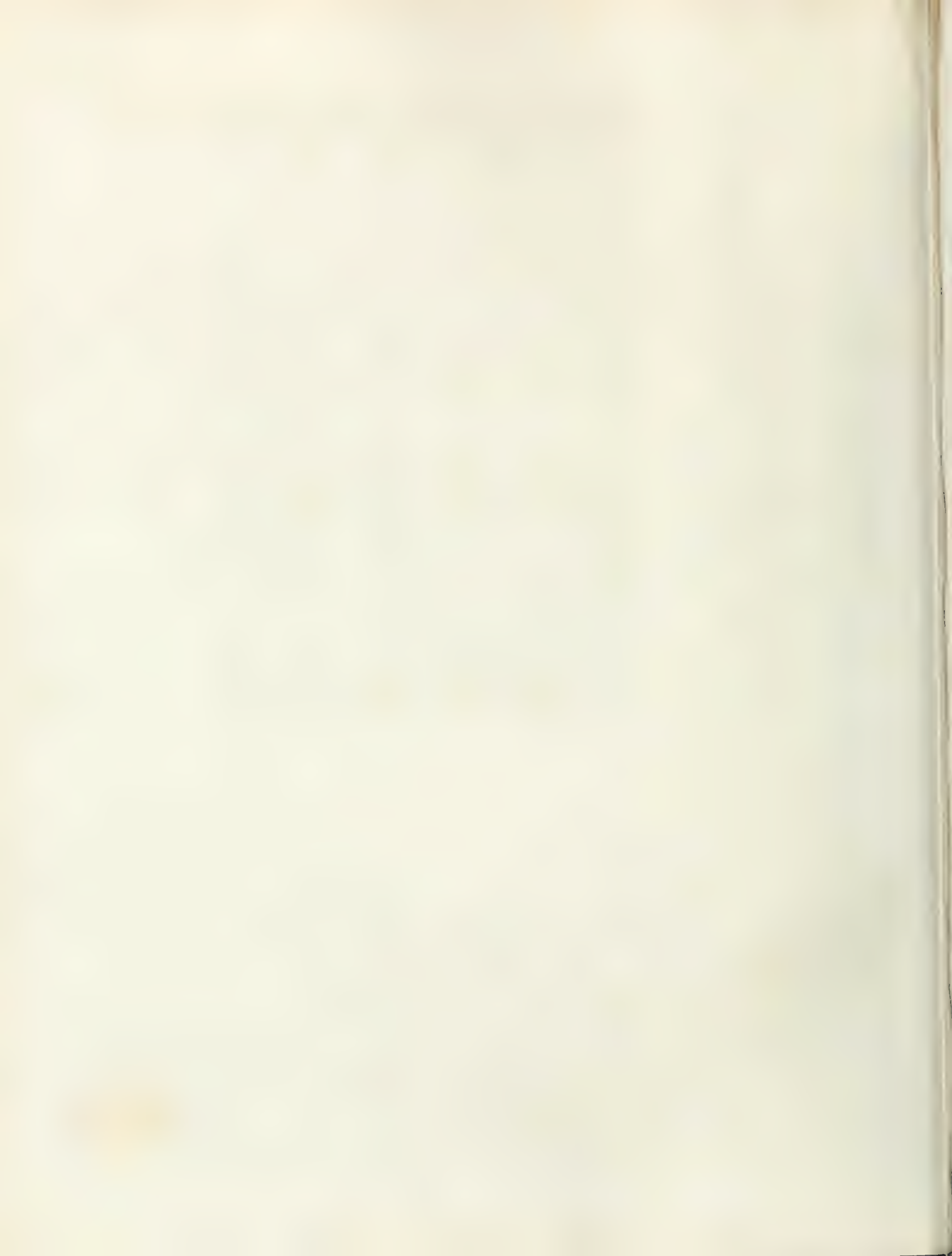
AMPHITHEATRE.

PLATE III.

N^o 1. Referred to as Architecture. PLATE IV.



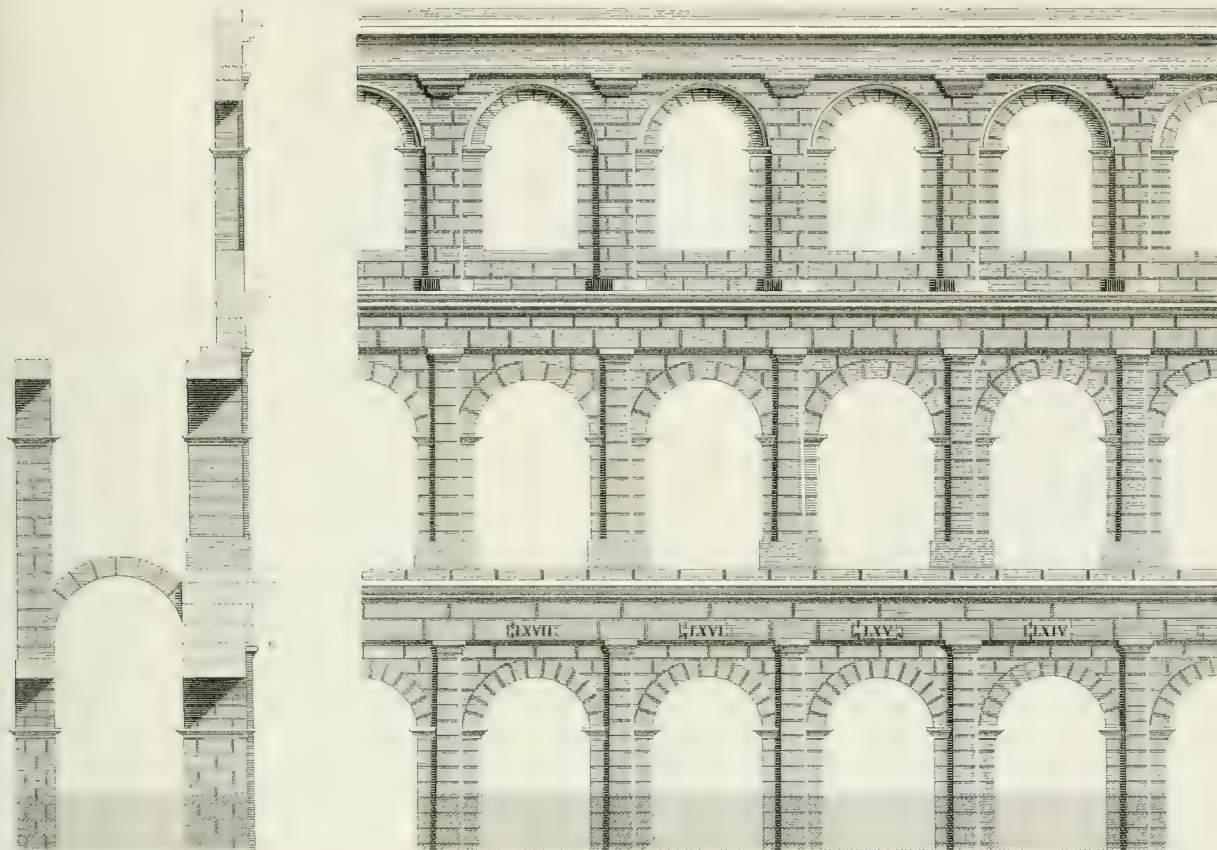
N^o 2. Referred to as Architecture. PLATE V.



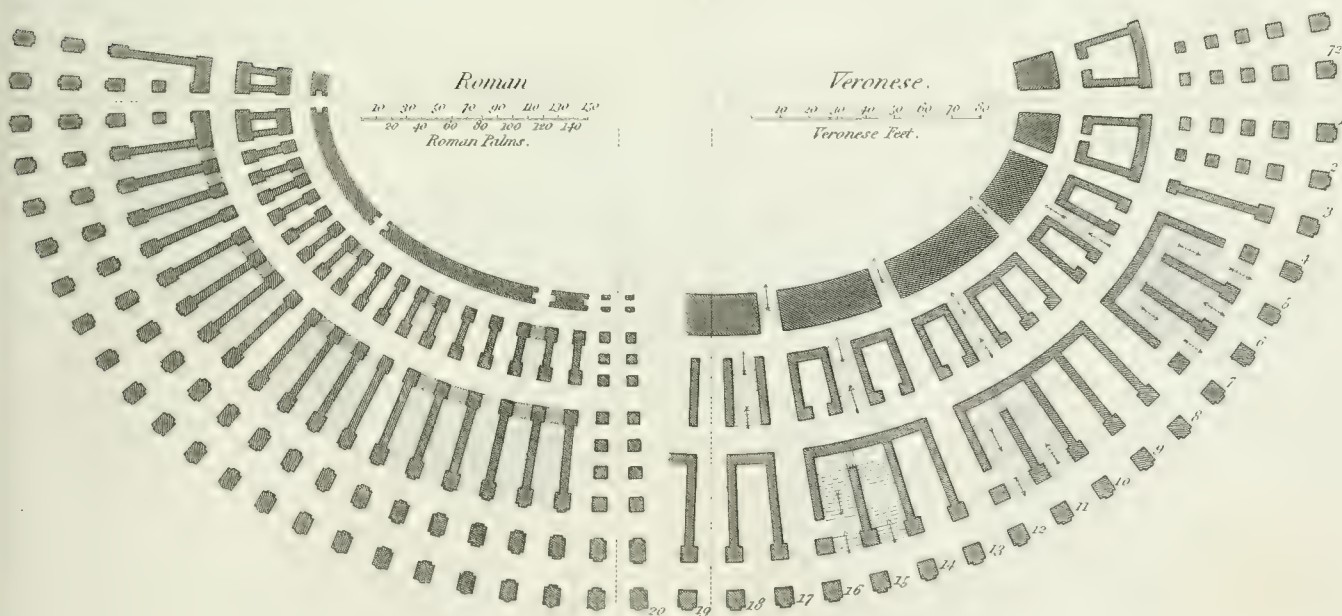
ARCHITECTURE.

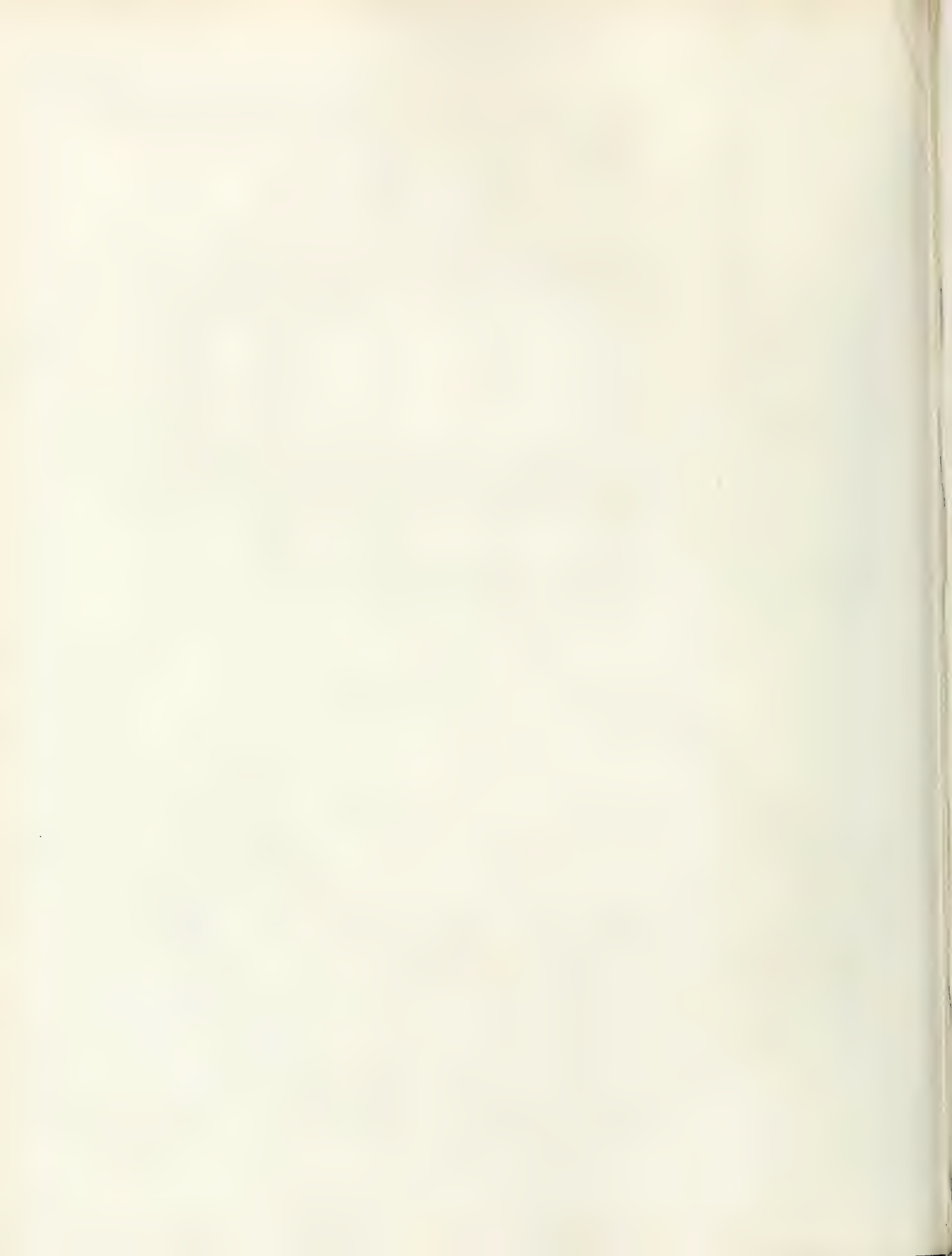
AMPHITHEATRE.

N^o 1. Referred to as Architecture, Plate VI.



N^o 2. Referred to as Architecture, Plate VII.

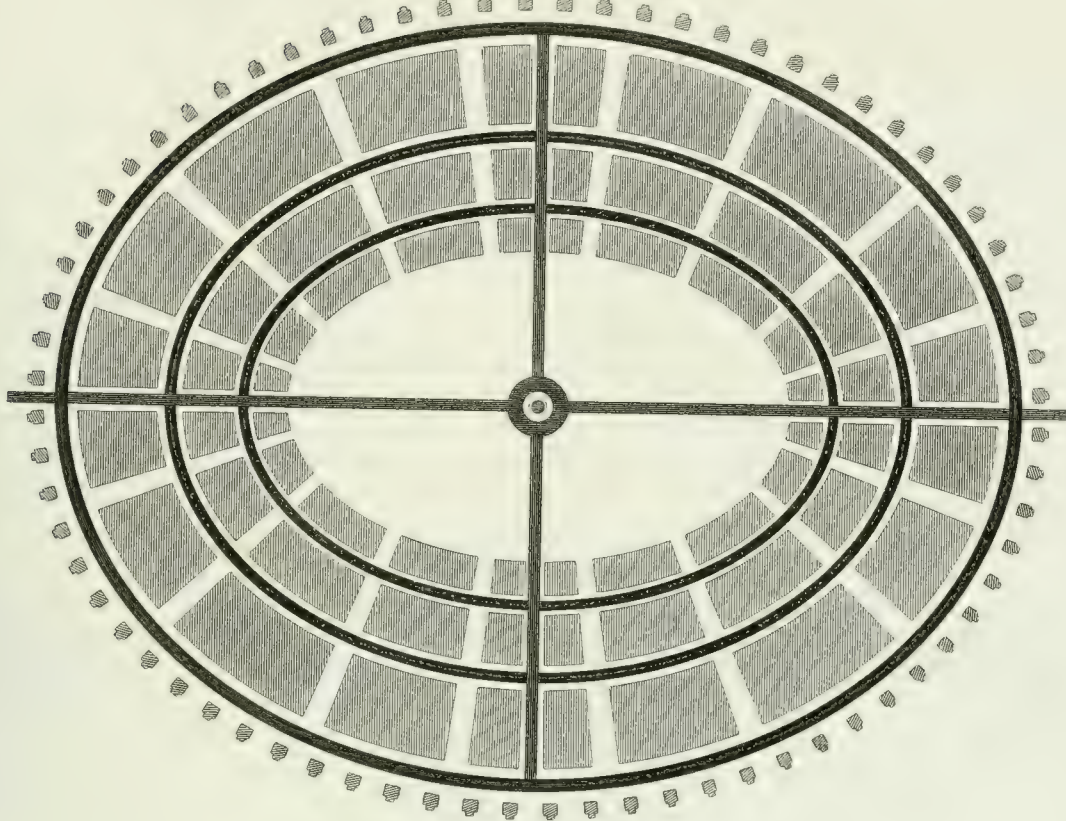




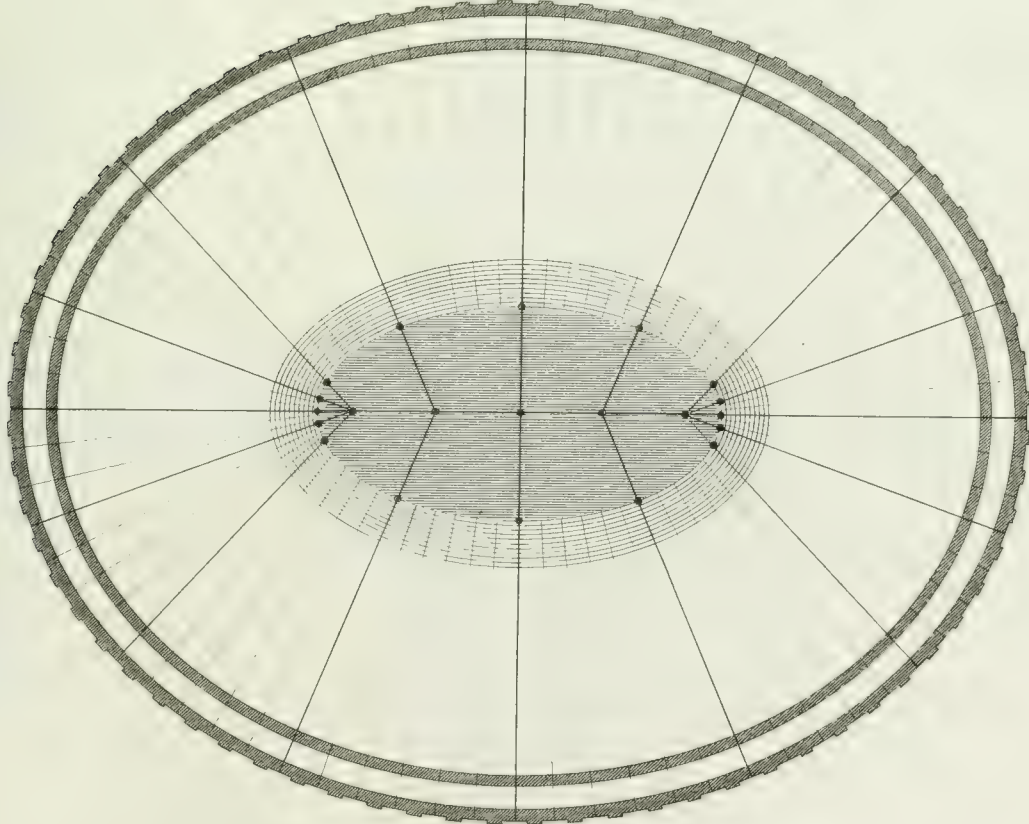
ARCHITECTURE.
AMPHITHEATRE.

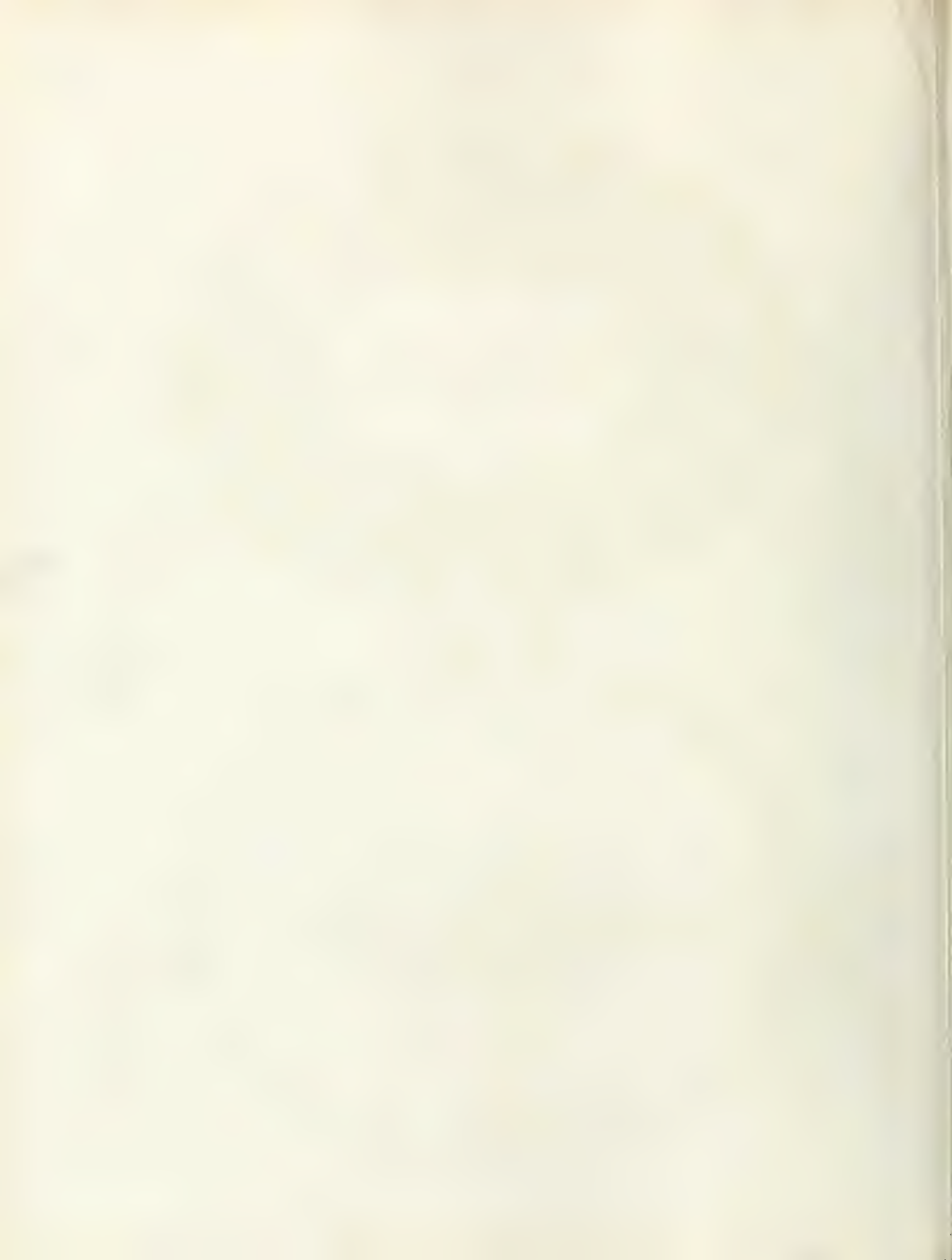
PLATE V.

N°1. Referred to as Architecture Plate VIII.



N°2. Referred to as Architecture Plate IX.





ARCH.

Fig. 1.

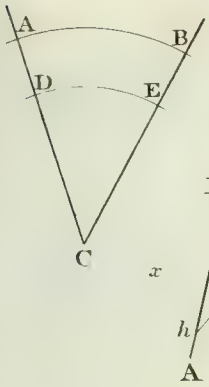


Fig. 2.

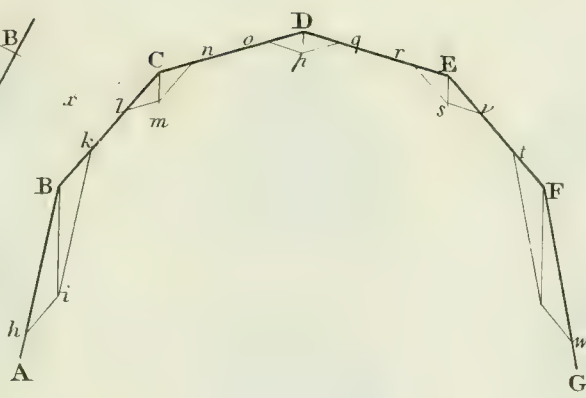


Fig. 3.

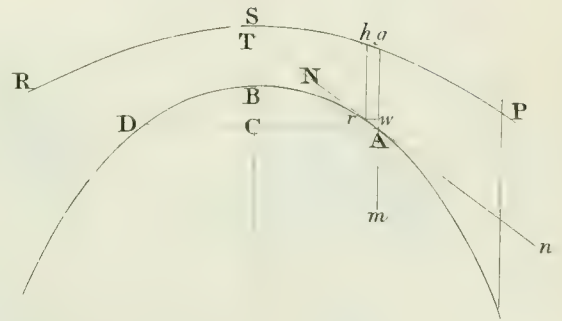


Fig. 4.

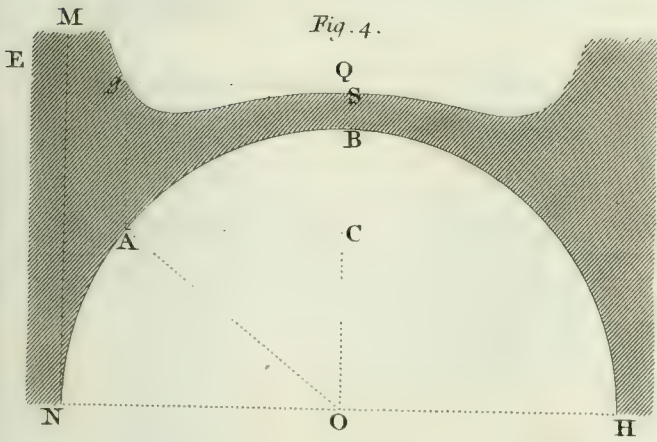


Fig. 5.

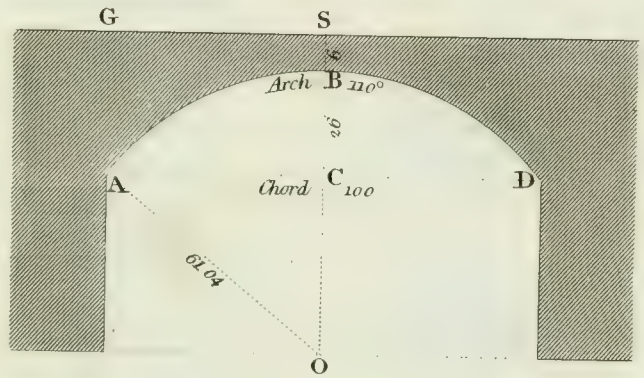


Fig. 6.

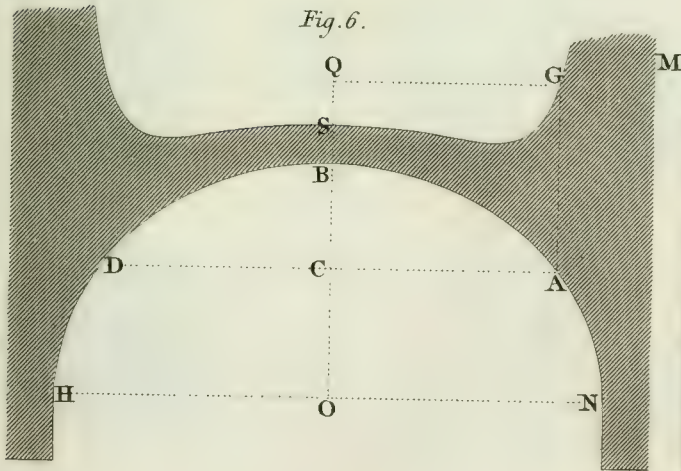
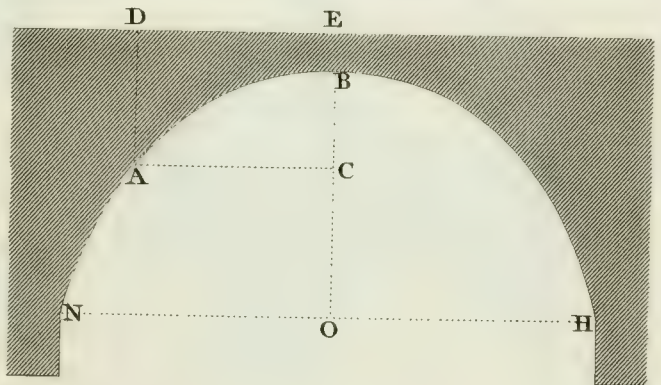


Fig. 7.



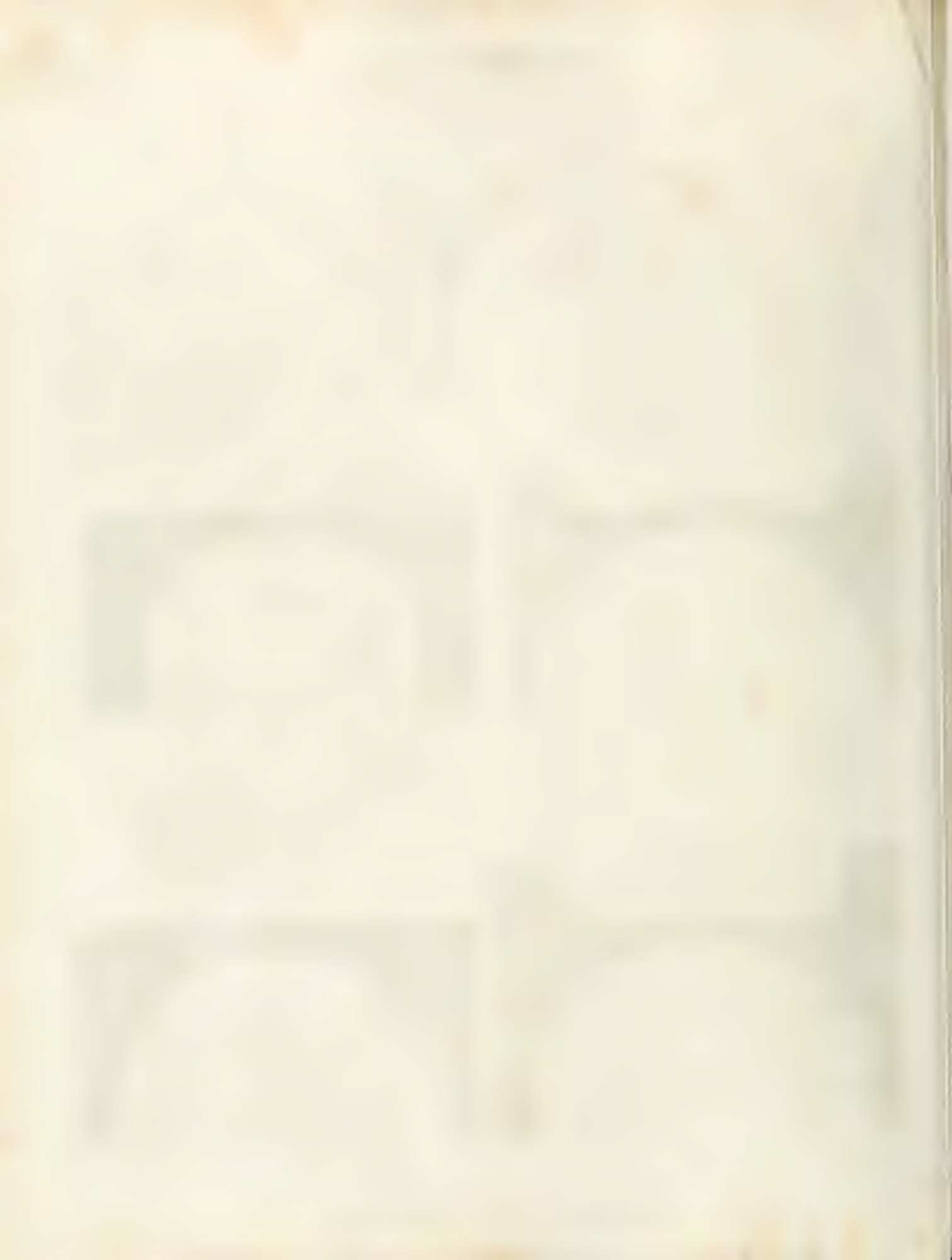


Fig. 1. N° 4.



Fig. 1. N° 3.

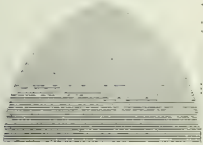


Fig. 1. N° 2.



Fig. 1. N° 1.



Fig. 2. N° 4.

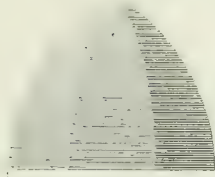


Fig. 2. N° 3.



Fig. 2. N° 2.



Fig. 2. N° 1.



Fig. 3. N° 6.

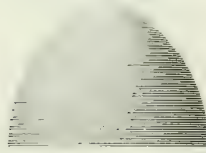


Fig. 3. N° 5.

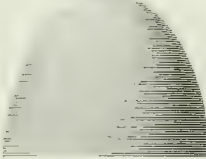


Fig. 3. N° 4.



Fig. 3. N° 3.



Fig. 3. N° 2.



Fig. 3. N° 1.



Fig. 4. N° 5.

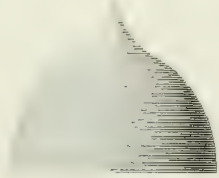


Fig. 4. N° 4.

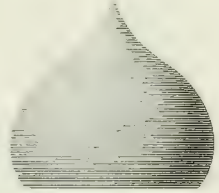


Fig. 4. N° 3.

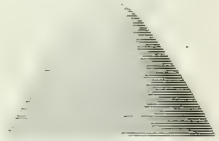


Fig. 4. N° 2.

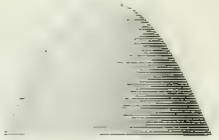


Fig. 4. N° 1.

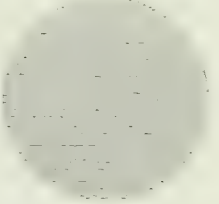


Fig. 6. N° 2.

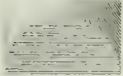


Fig. 6. N° 1.



Fig. 6. N° 3.



Fig. 6. N° 4.

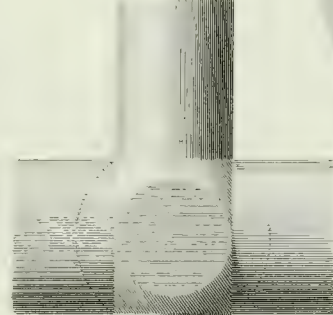


Fig. 6. N° 5.



Fig. 5.

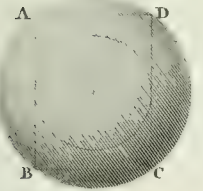


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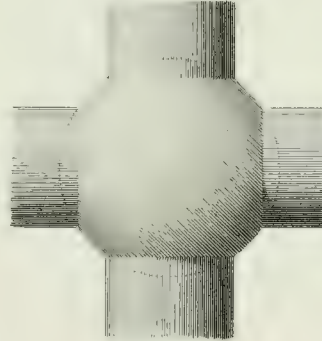


Fig. 7. N° 2.



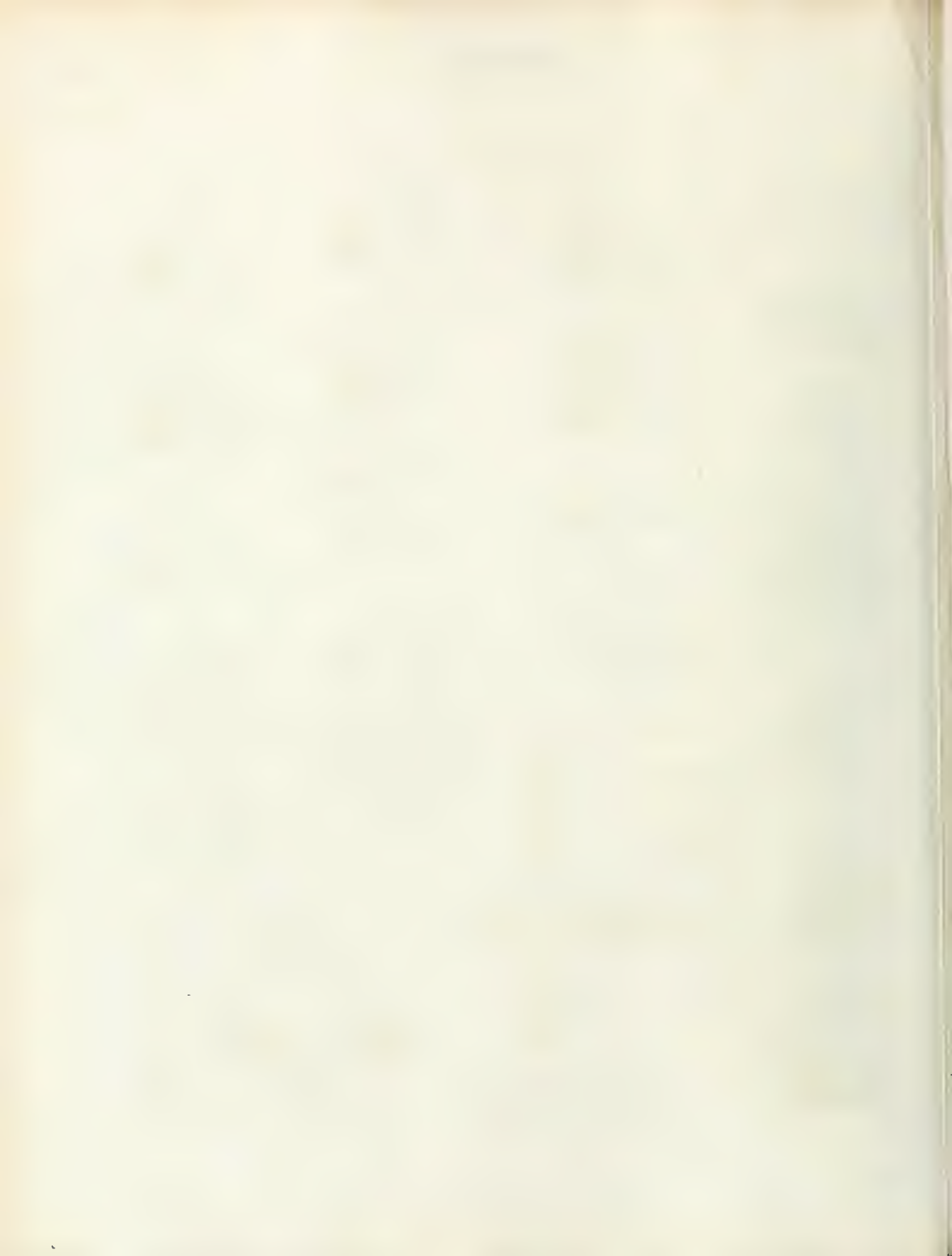


Fig. 1.

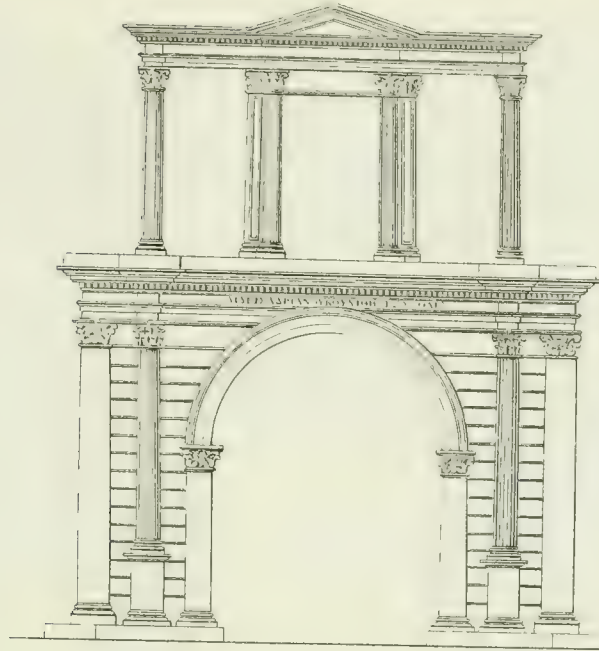


Fig. 2.

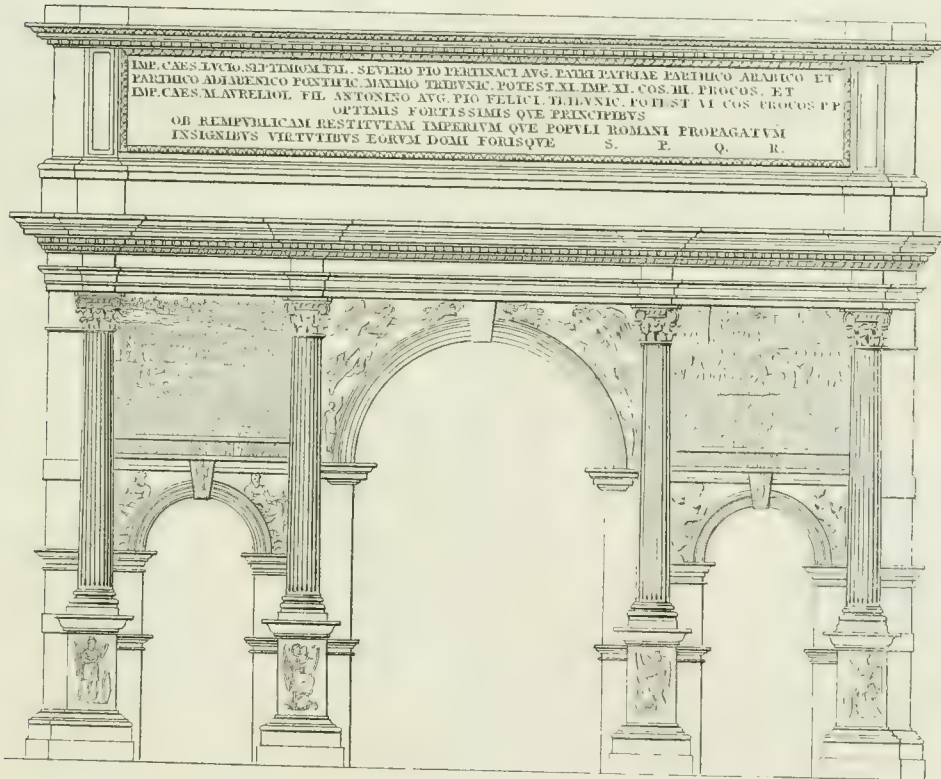


Fig. 1. The Arch of Adrian at Athens

Fig. 2. The Arch of Septimius Severus at Rome.

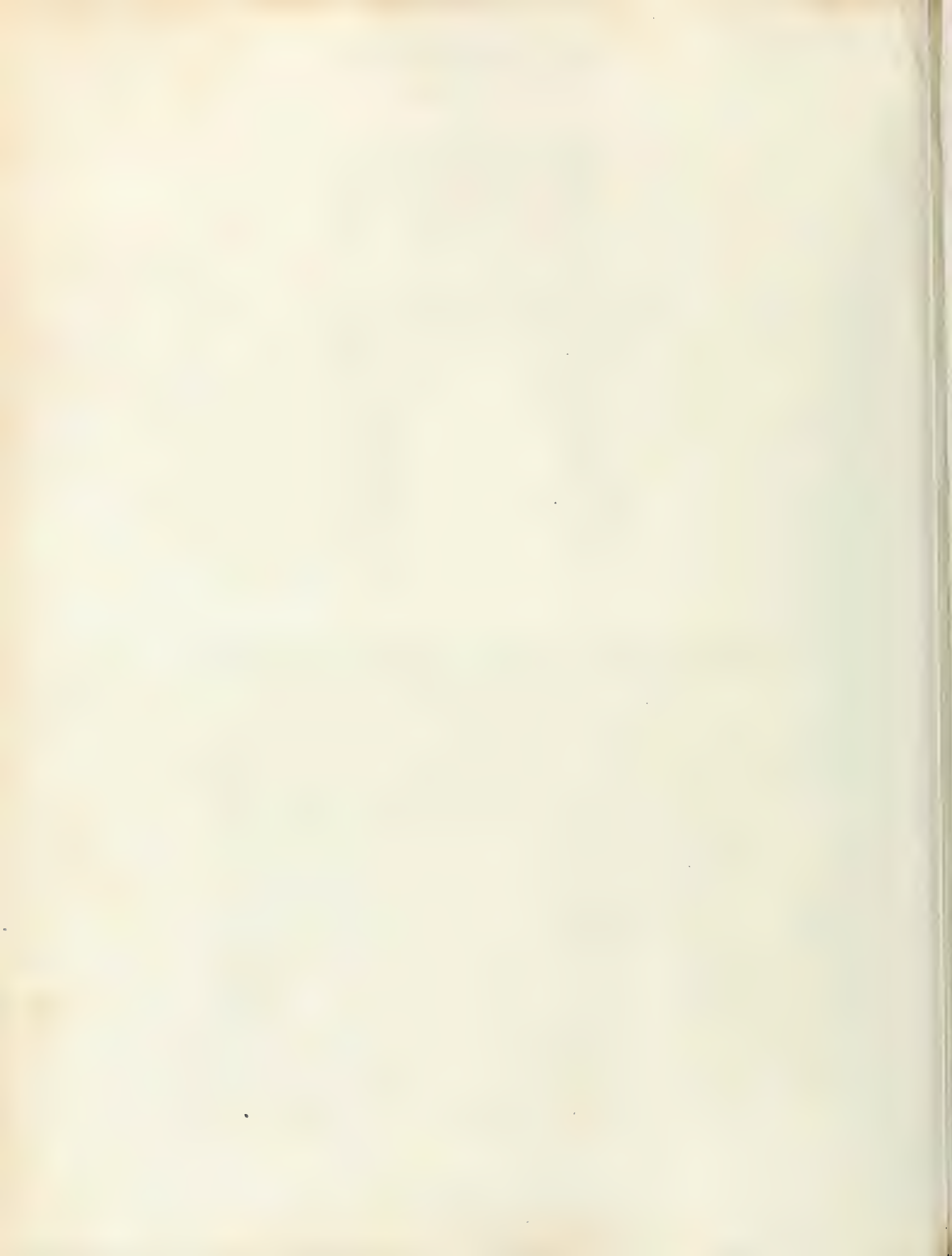


Fig. 1.



5 10 20 30 40 50 Feet

Fig. 2.



Fig. 3.

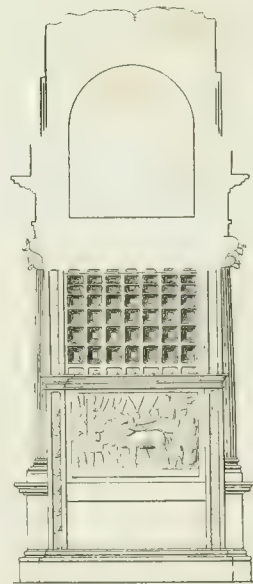
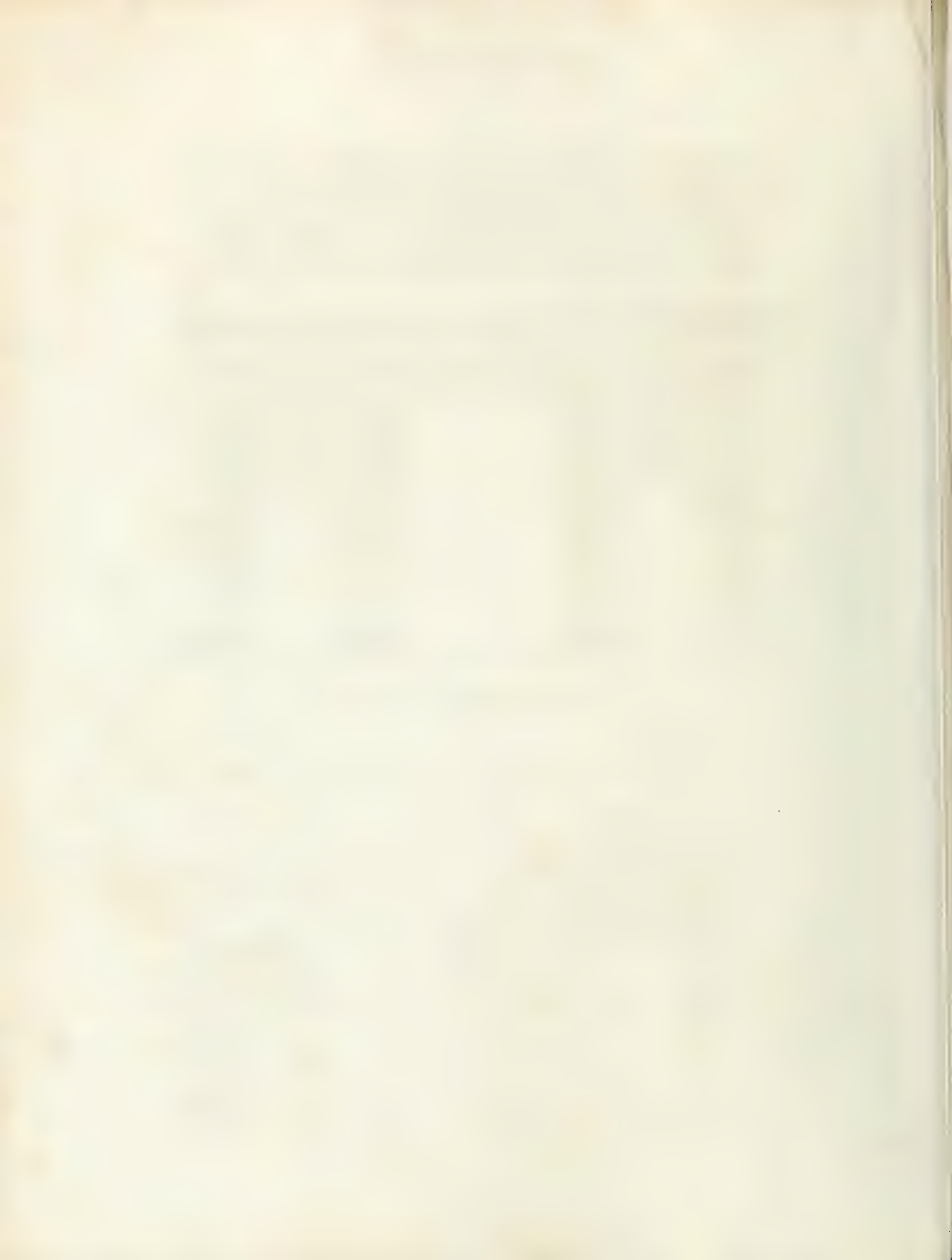


Fig. 1. The Arch of Constantine.

Fig. 2. The Arch of Titus.

Fig. 3. Section of the same.



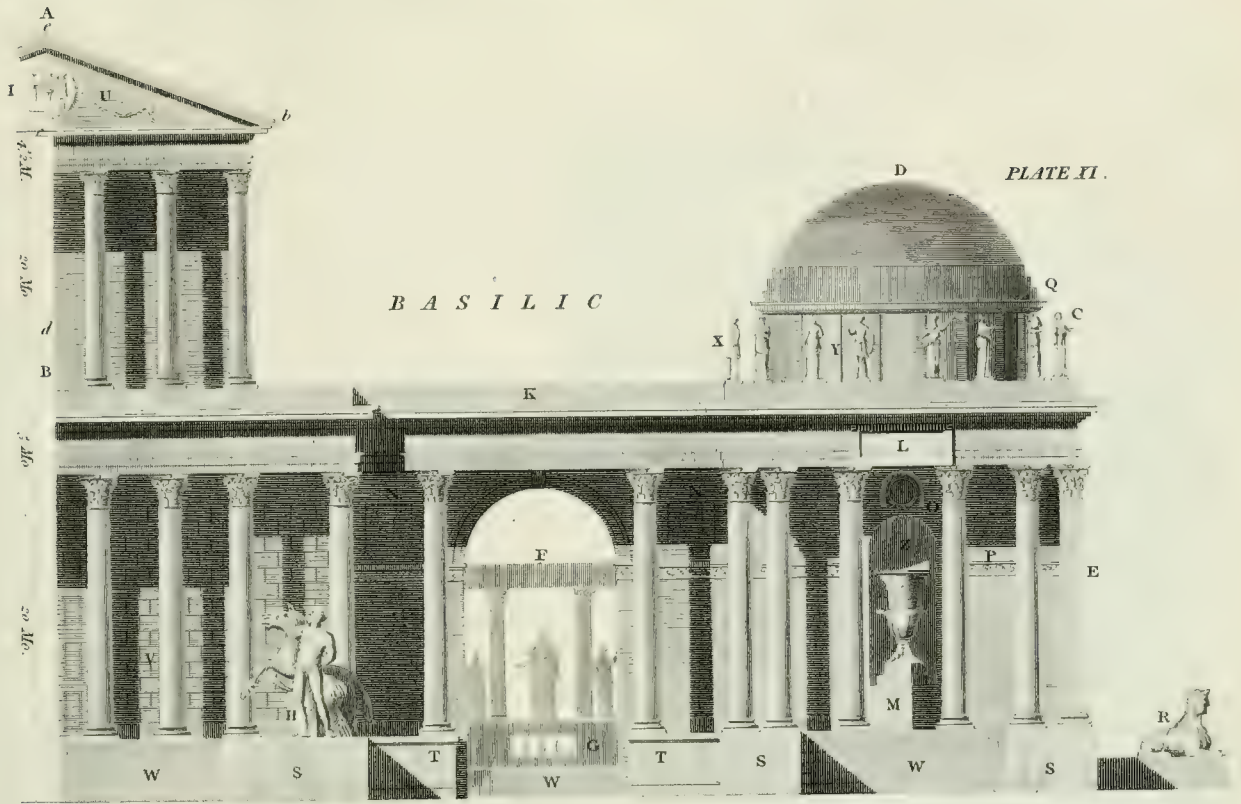
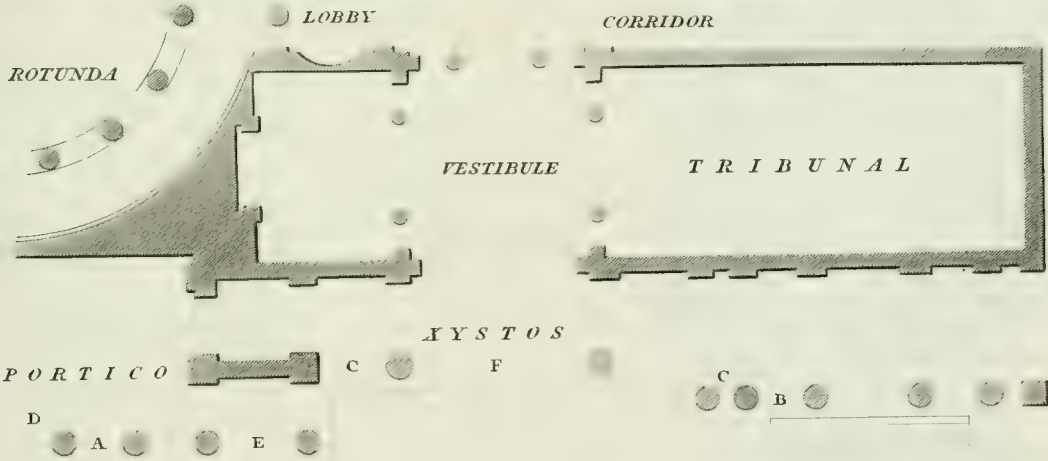
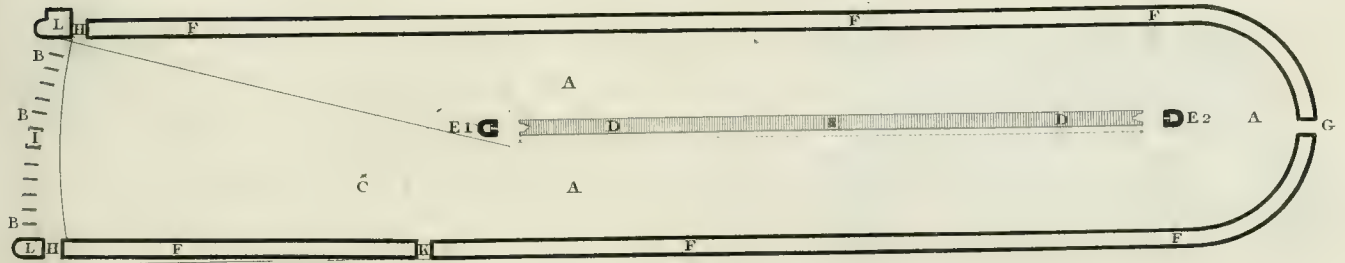


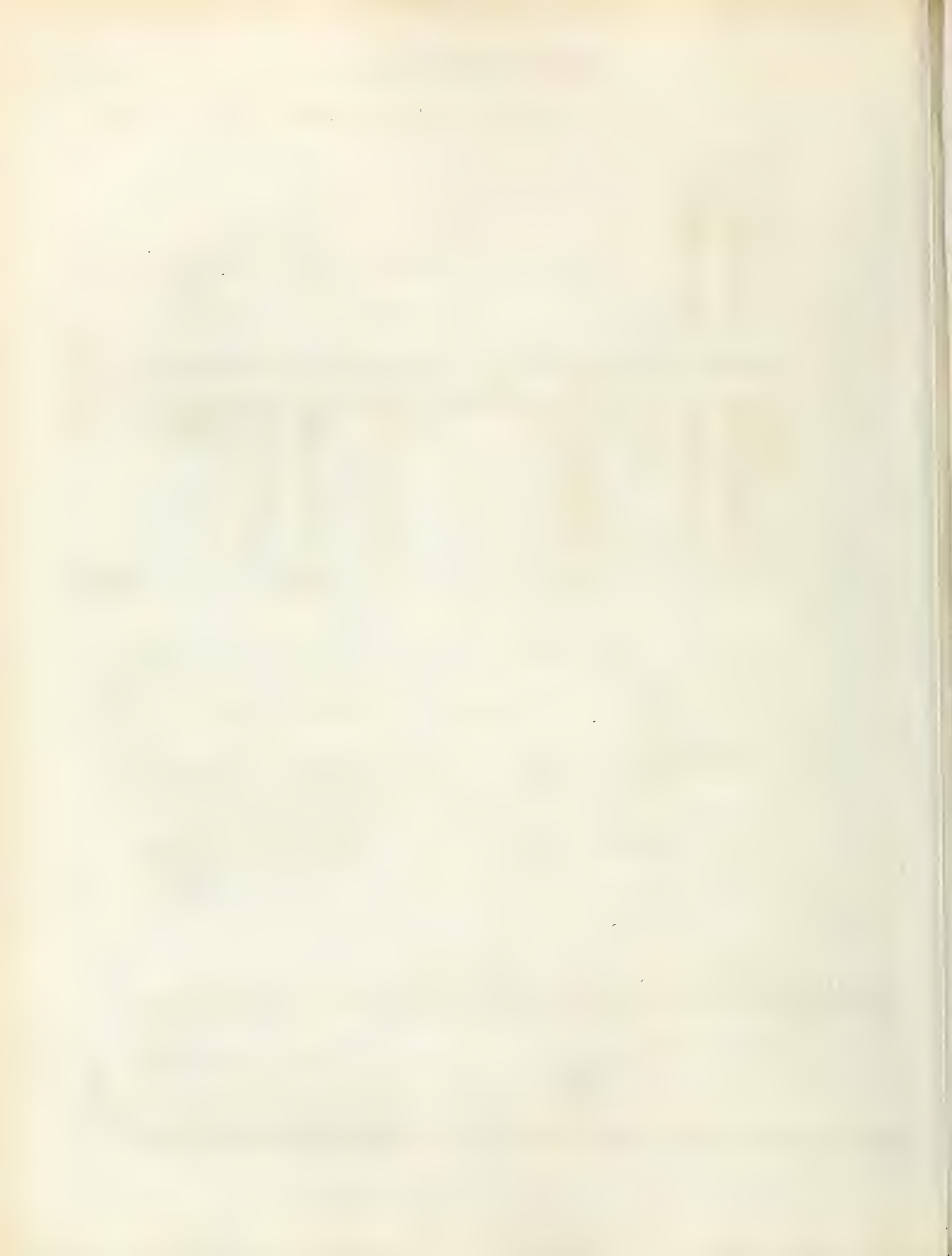
PLATE XI.



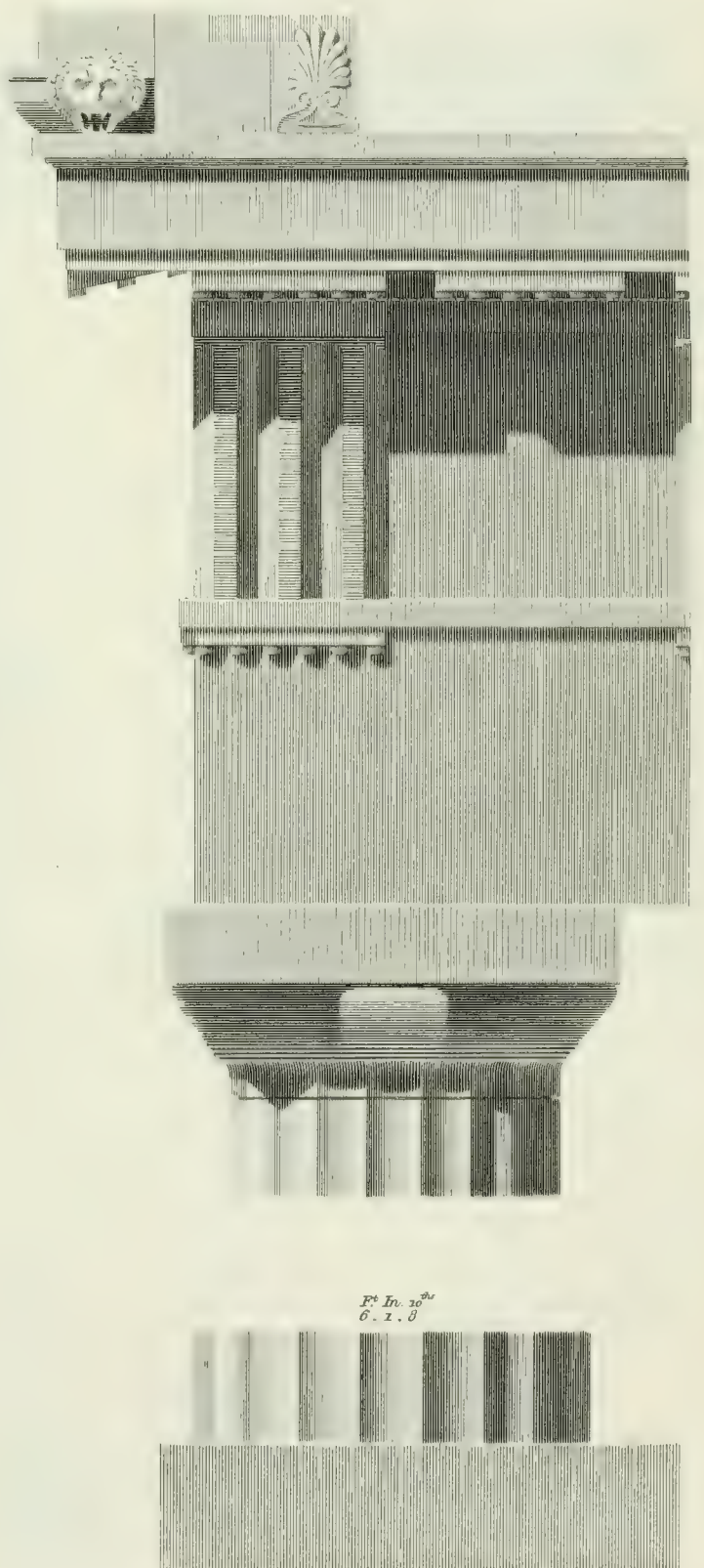
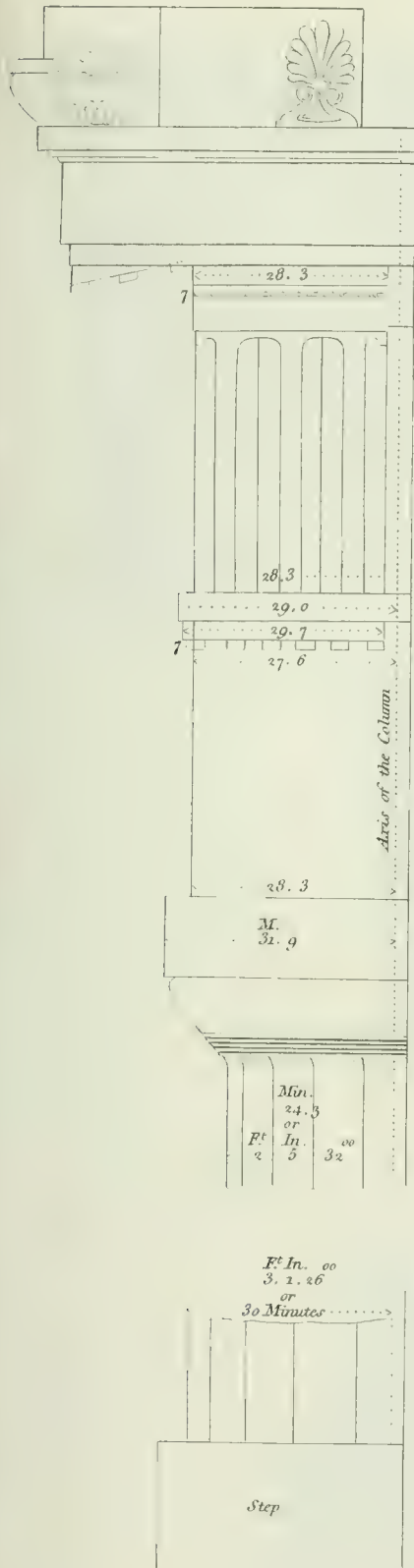
CIRCUS OF CARACALLA.

PLATE XII.



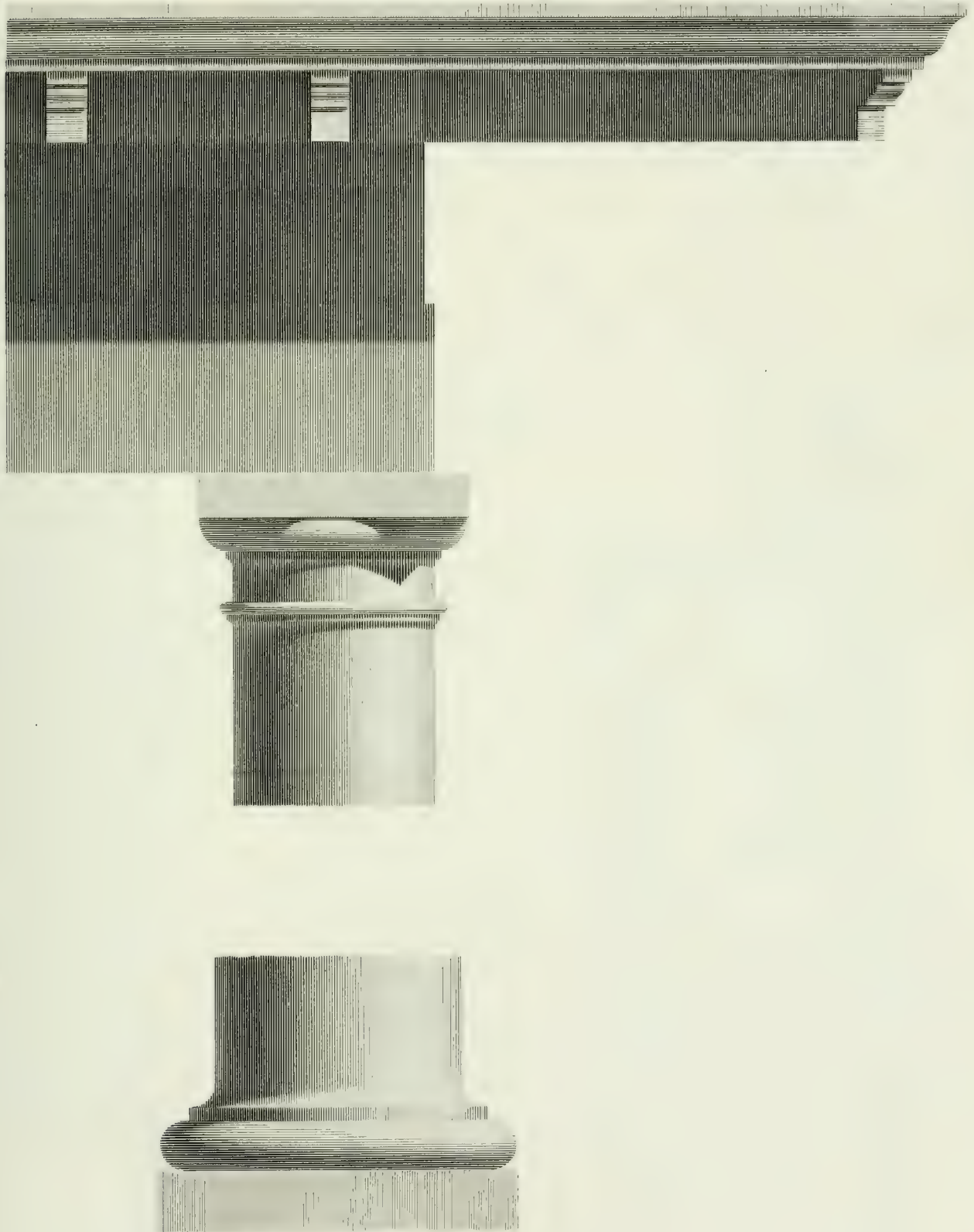


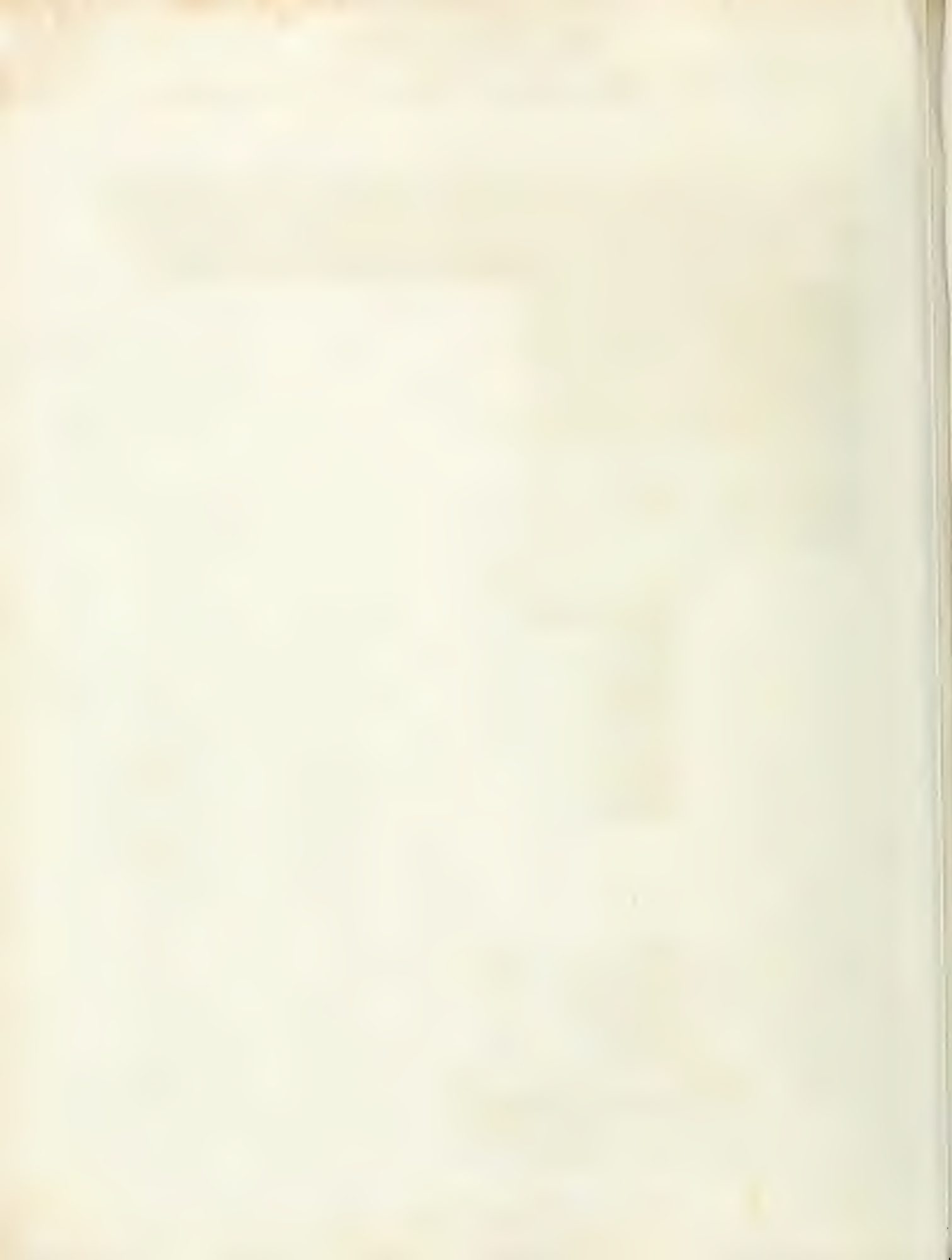
THE DORIC ORDER, FROM THE TEMPLE OF MINERVA CALLED THE PARTHENON.

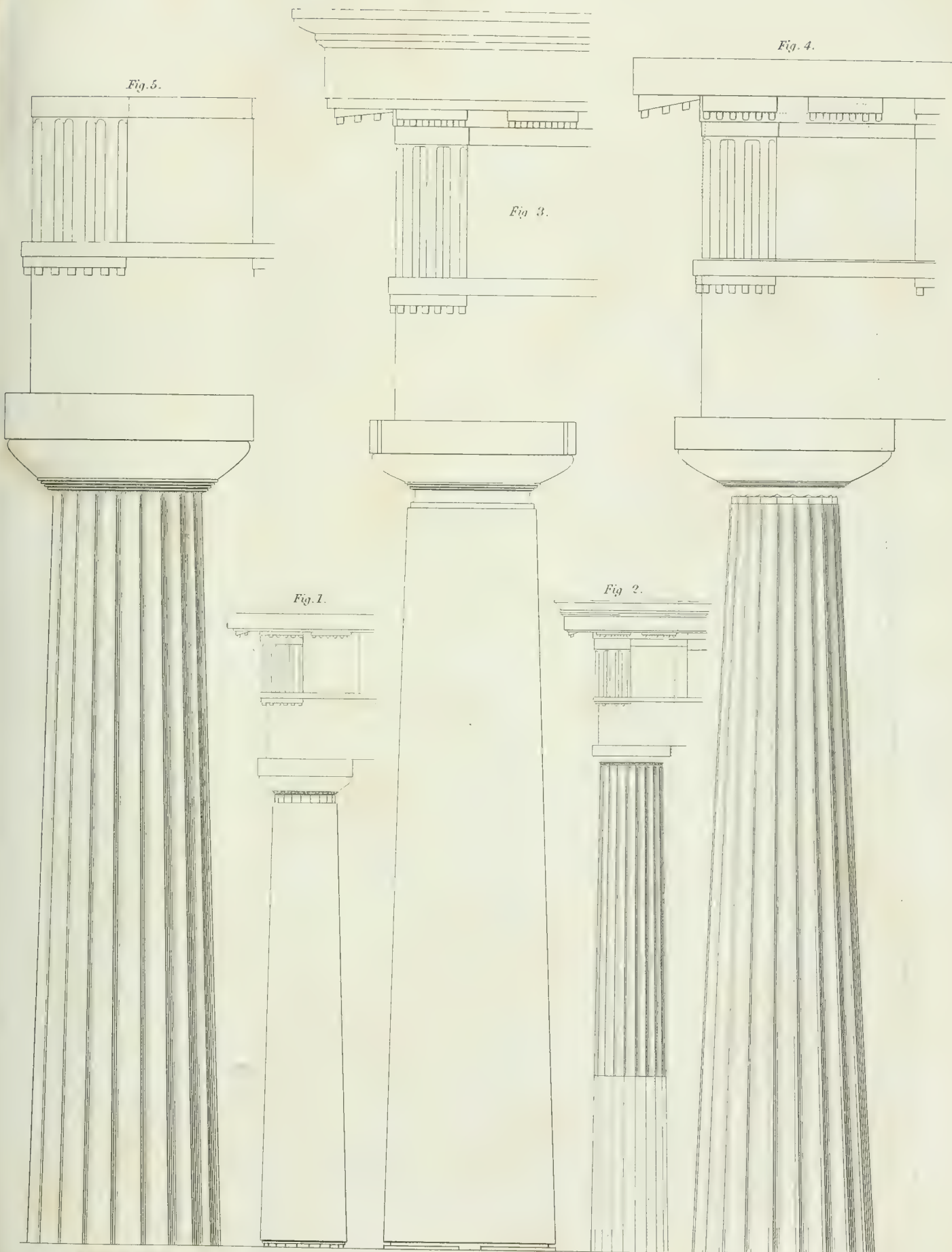




THE TUSCAN ORDER, FROM THE CHURCH IN COVENT GARDEN.







Temple at Selinus.

Temple at Delos.

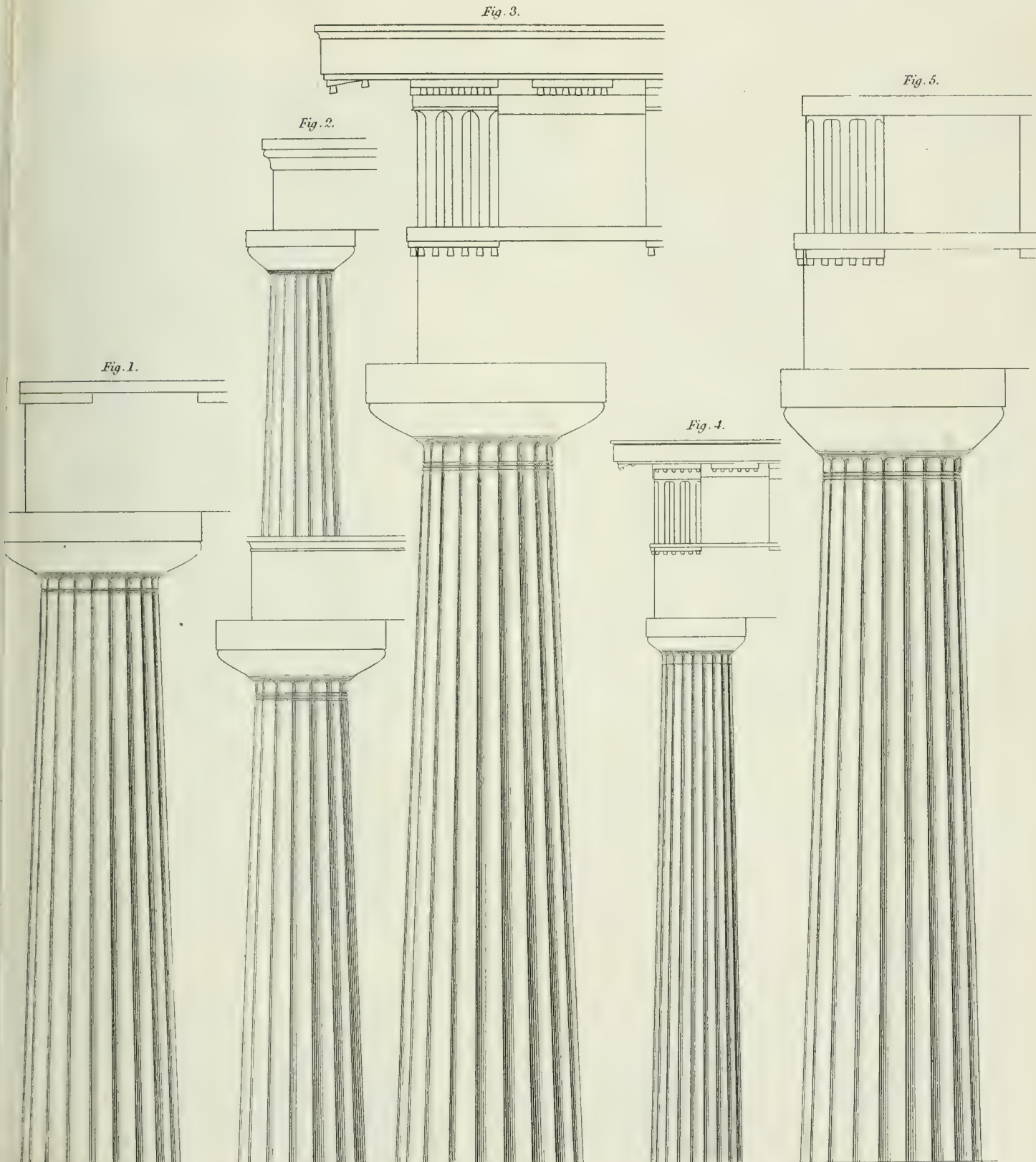
Temple at Aegesta.

Temple of Philip
at Delos.

Temple of Jupiter at Selinus.



DORIC.



Temple of Corinth.

Hypaethral Temple at Paestum.

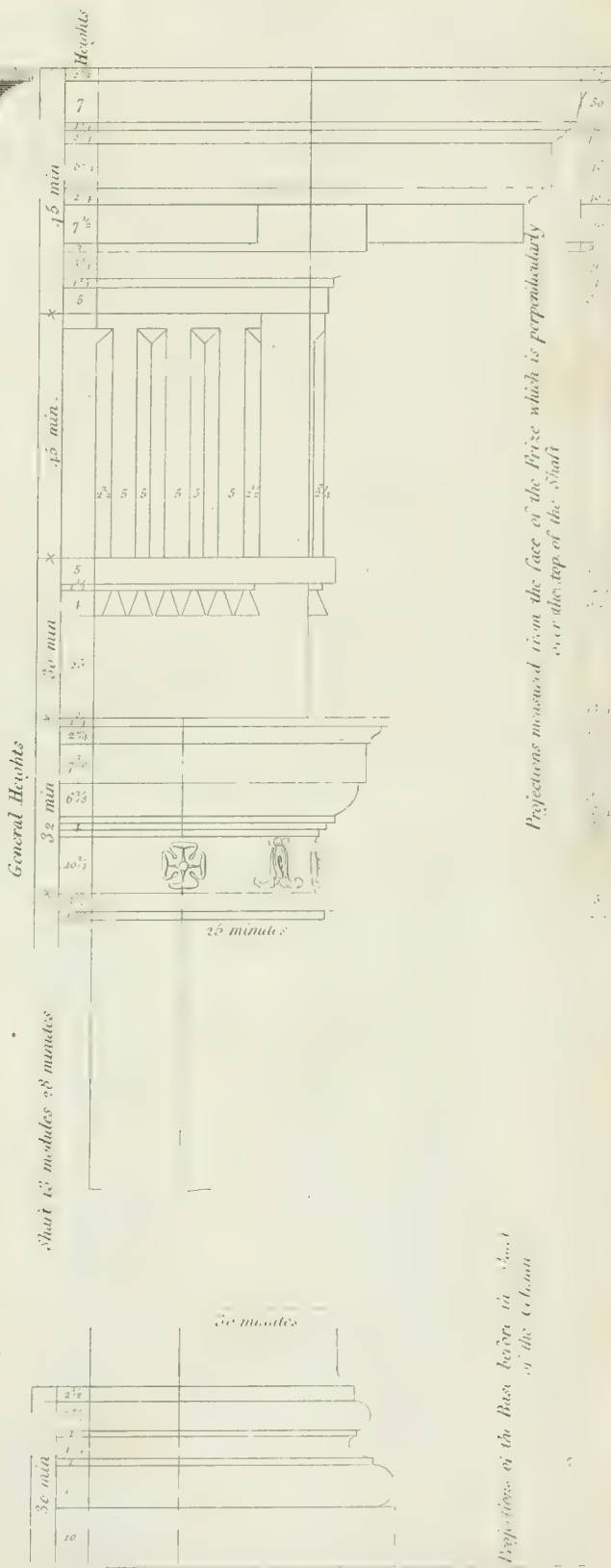
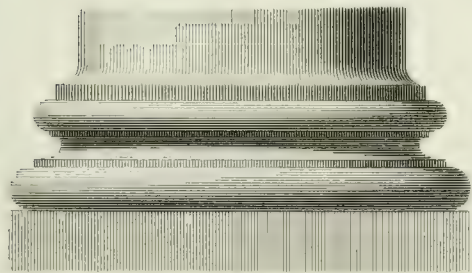
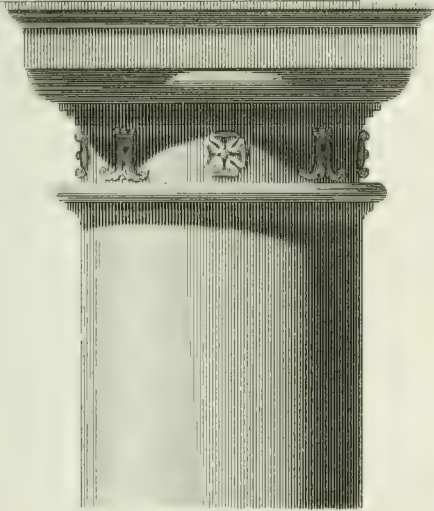
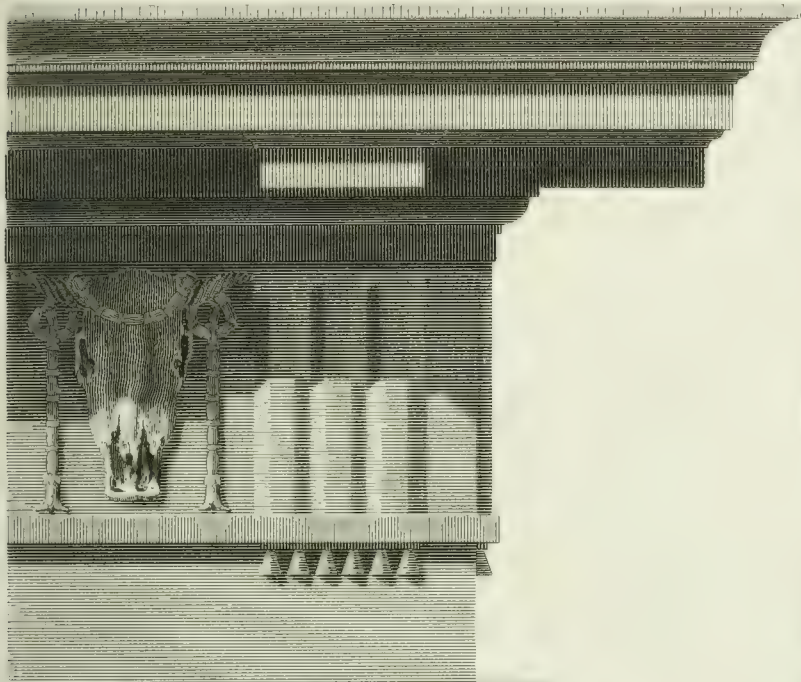
Hypaethral Temple at Paestum.

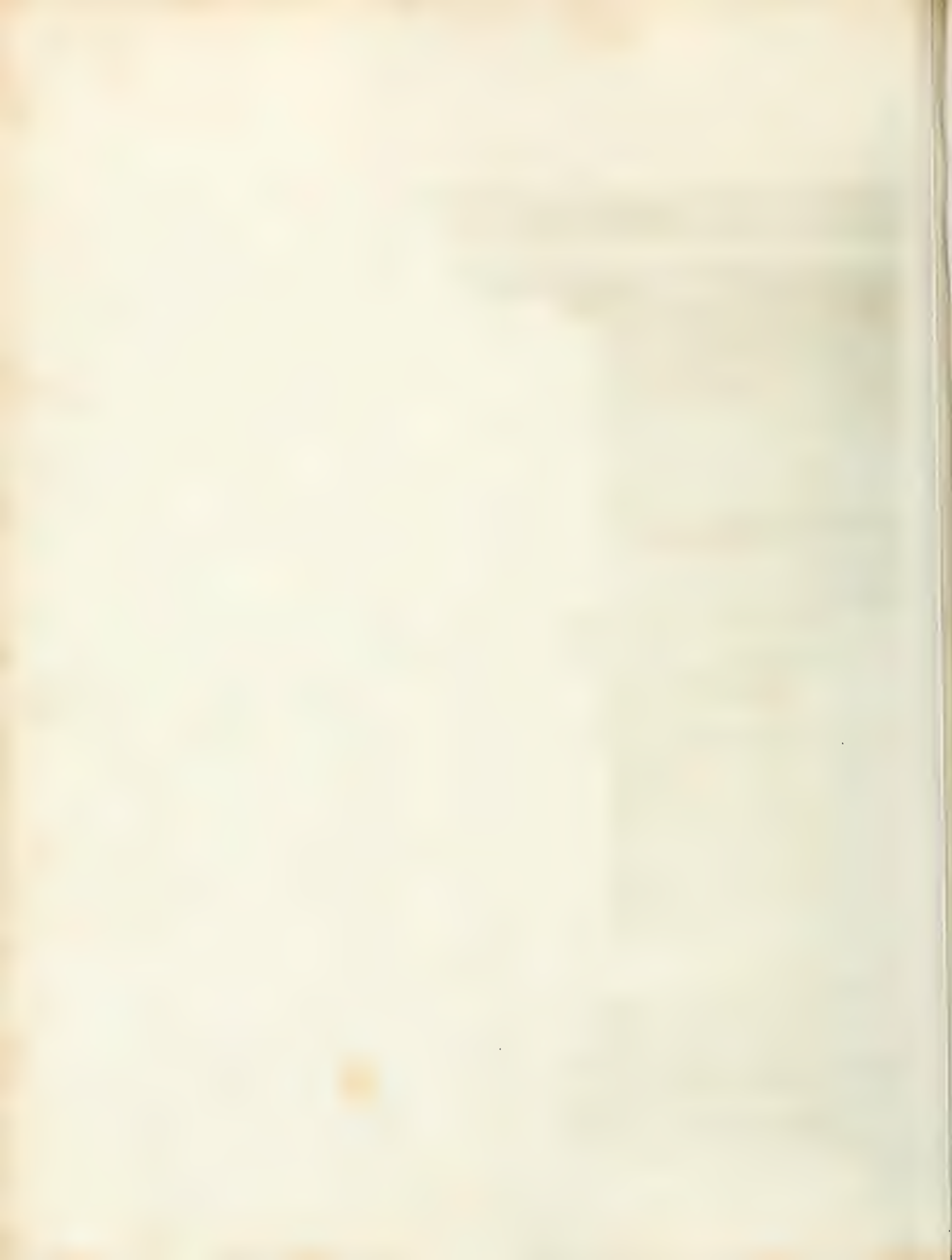
Temple of Minerva at Sunium.

Temple of Minerva at Syracuse.



THE DORIC ORDER ACCORDING TO SIR W^m CHAMBERS.





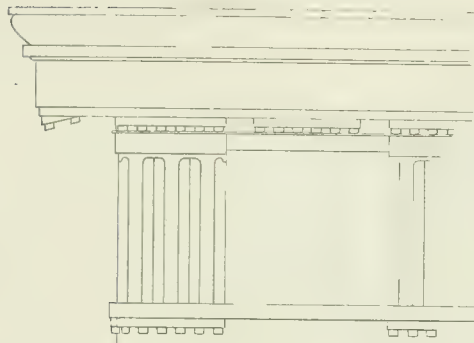


Fig. 5.

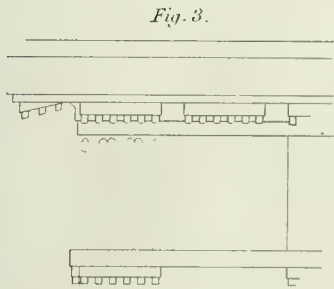


Fig. 3.

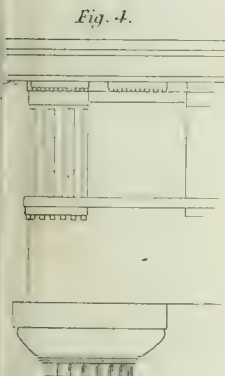
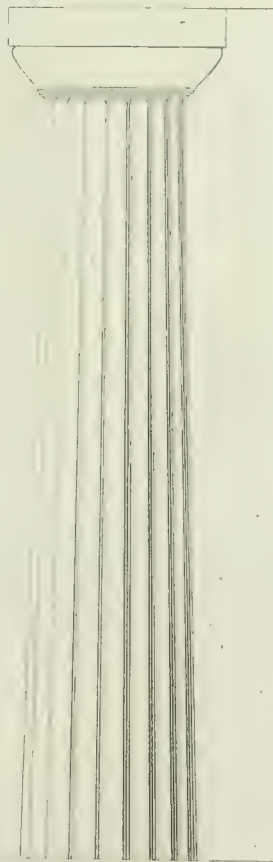
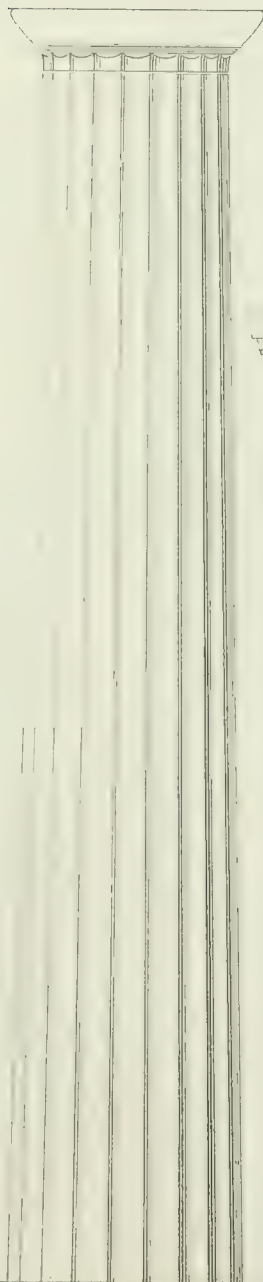


Fig. 4.



Temple of Concord
at Agrigentum.



Temple of Minerva
at Athens.

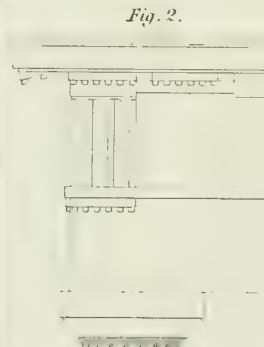


Fig. 2.



Temple of Theseus
at Athens.

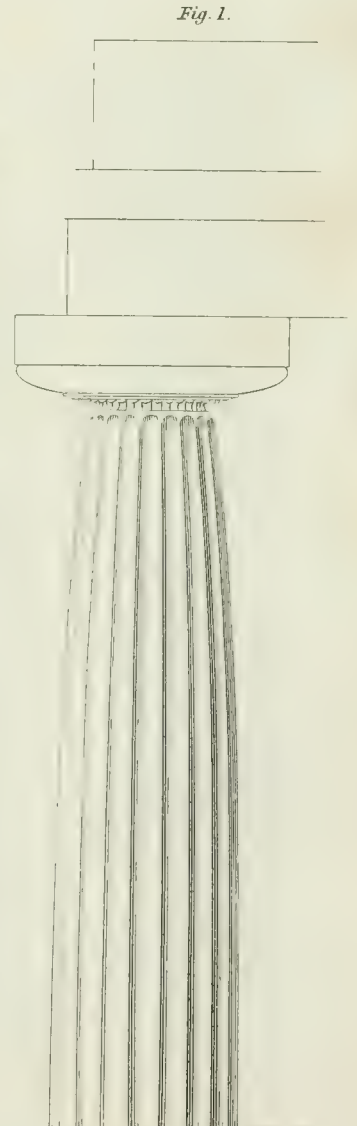


Fig. 1.

Pseudo dipteral Temple
at Paestum.

Temple of Jupiter Panellenius
in Aegina.



DORIC.

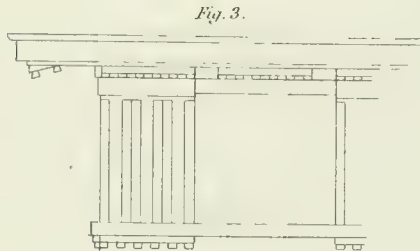


Fig. 3.

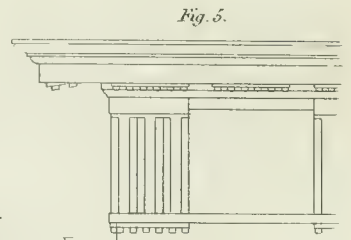


Fig. 5.

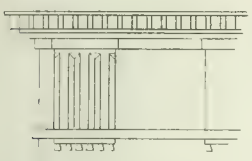


Fig. 1.

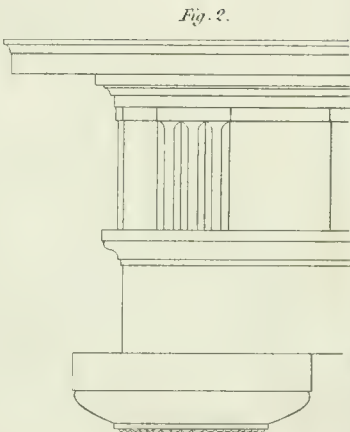


Fig. 2.

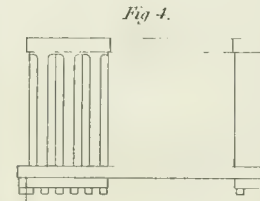
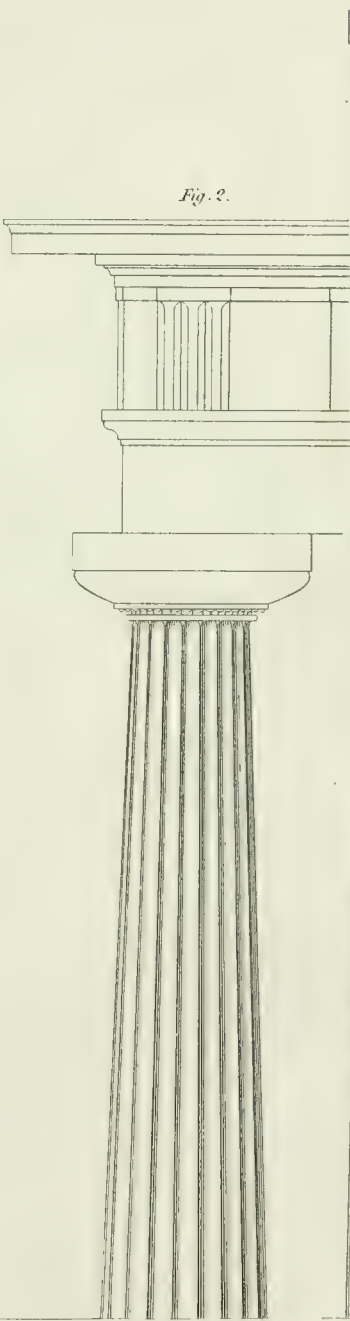


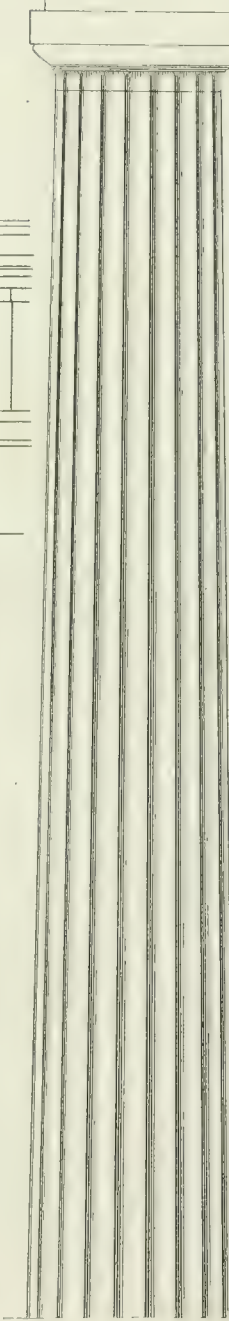
Fig. 4.



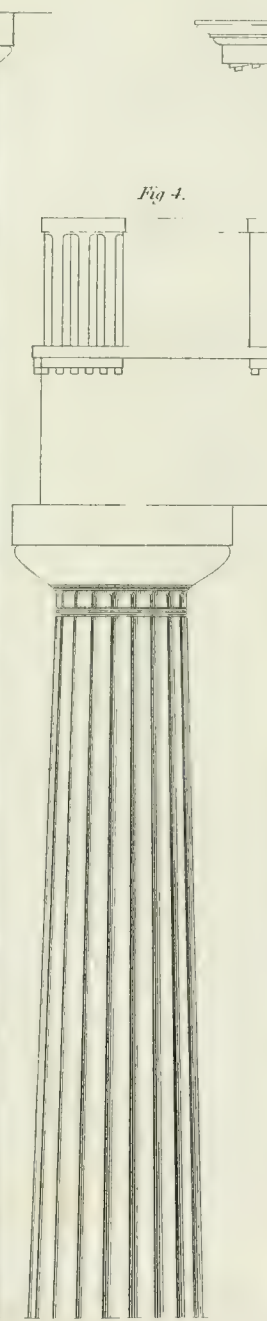
Theatre of Marcellus at Rome.



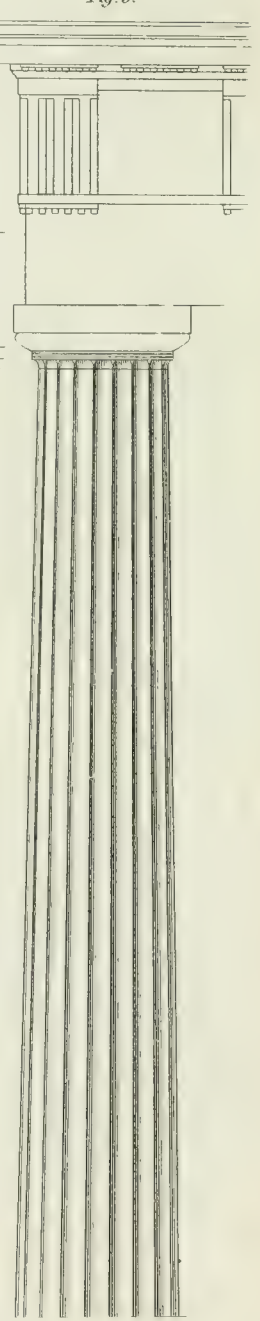
Hexastyle Temple at Paestum.



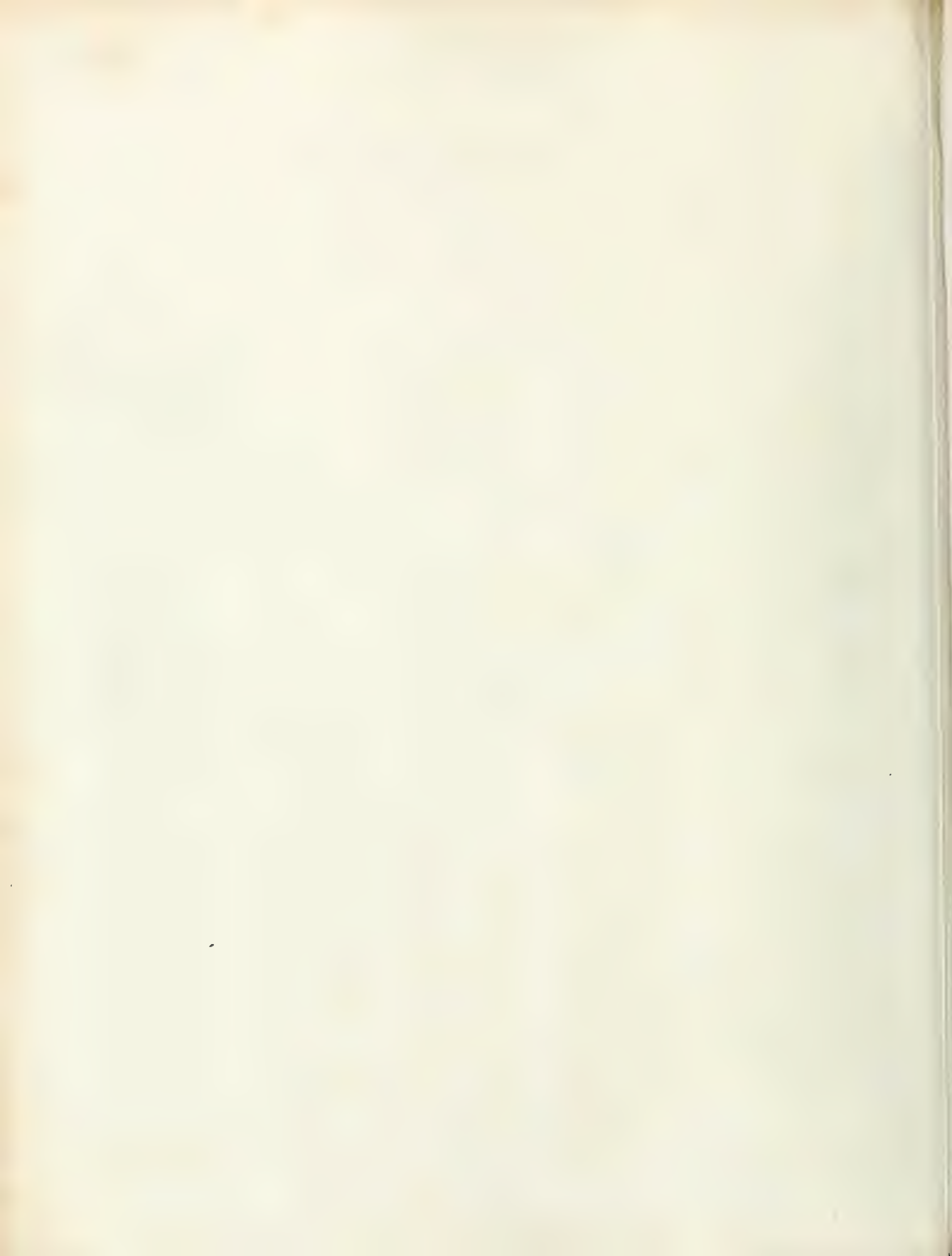
Temple of Jupiter Nemoeus between Argos & Corinth.



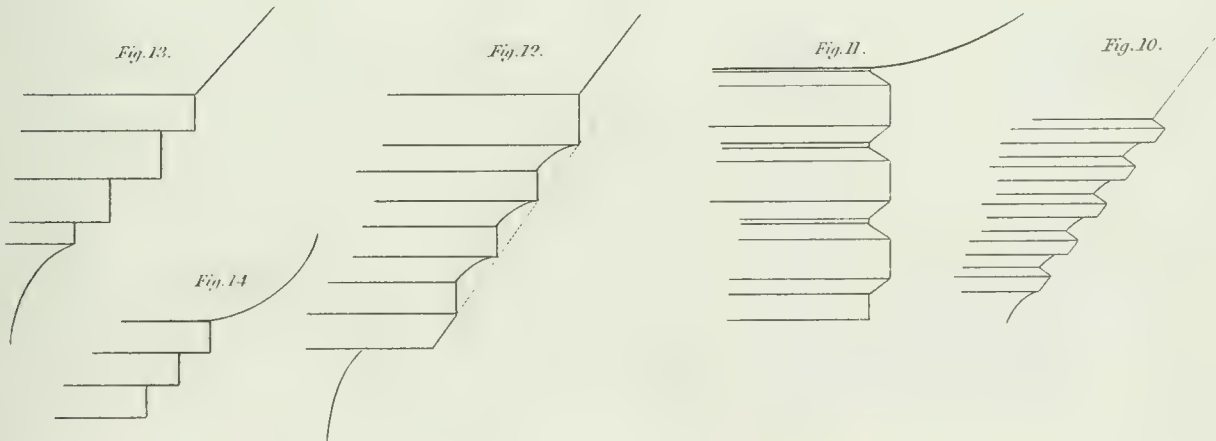
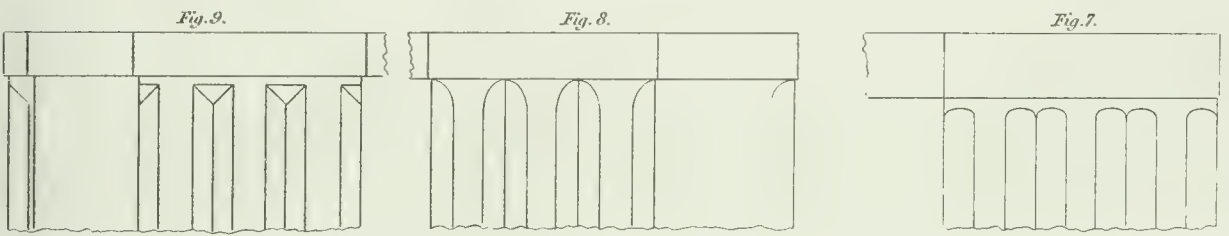
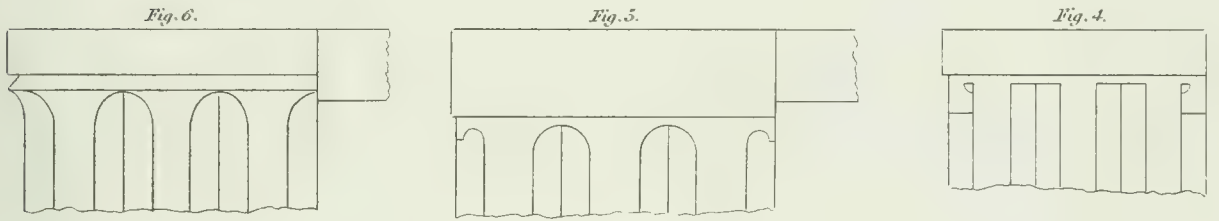
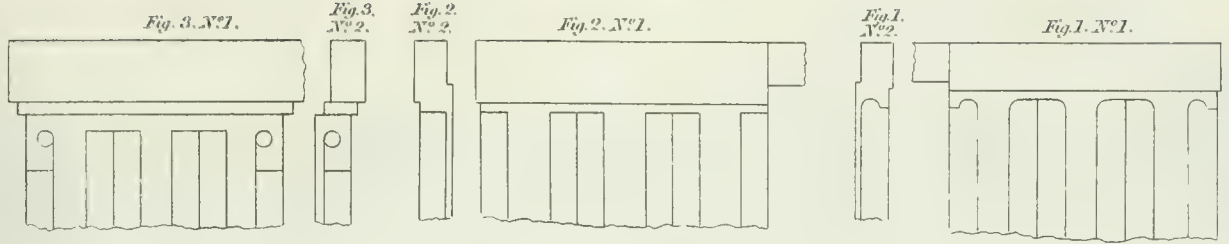
Temple of Juno Lucina at Agrigentum.

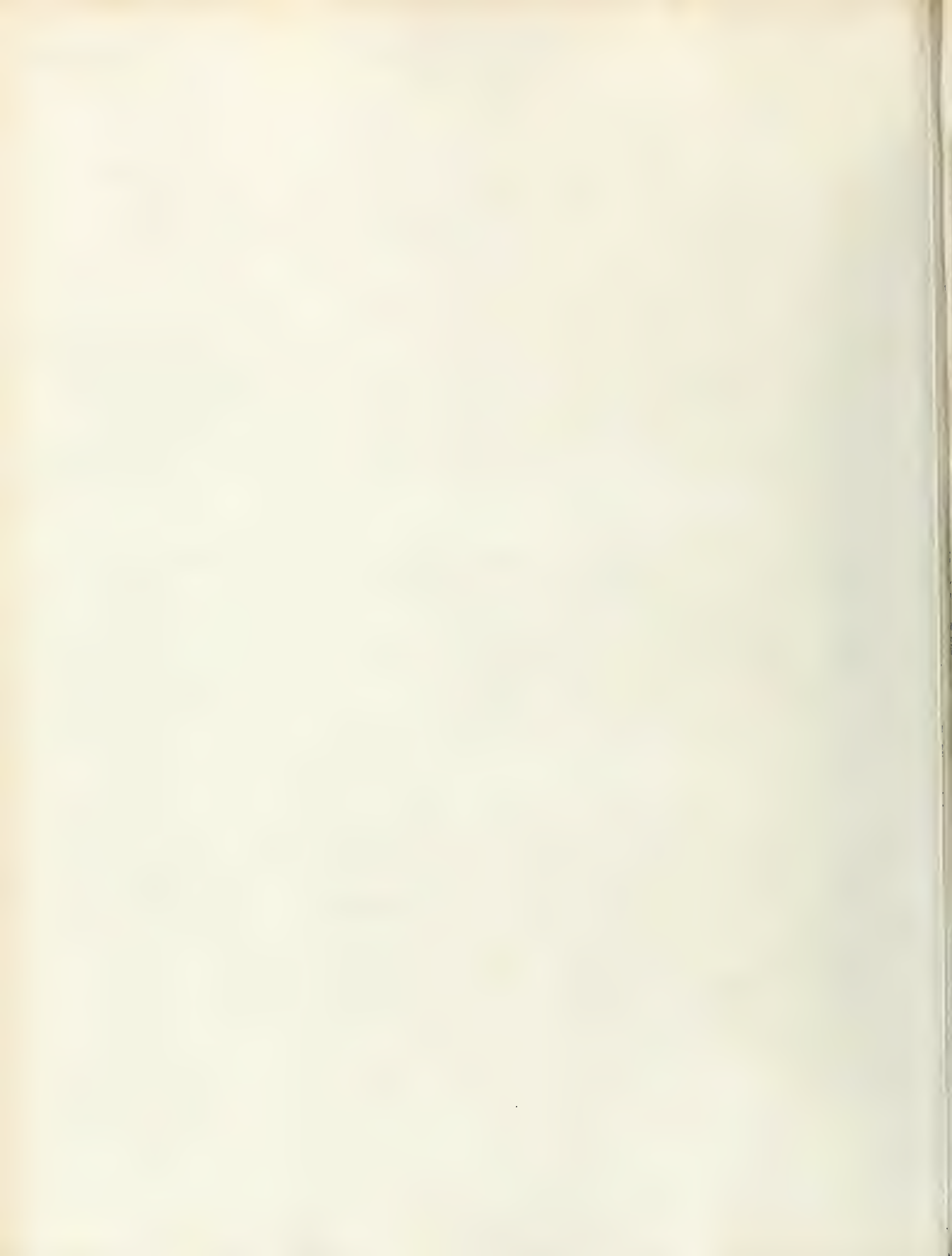


The Agora at Athens.

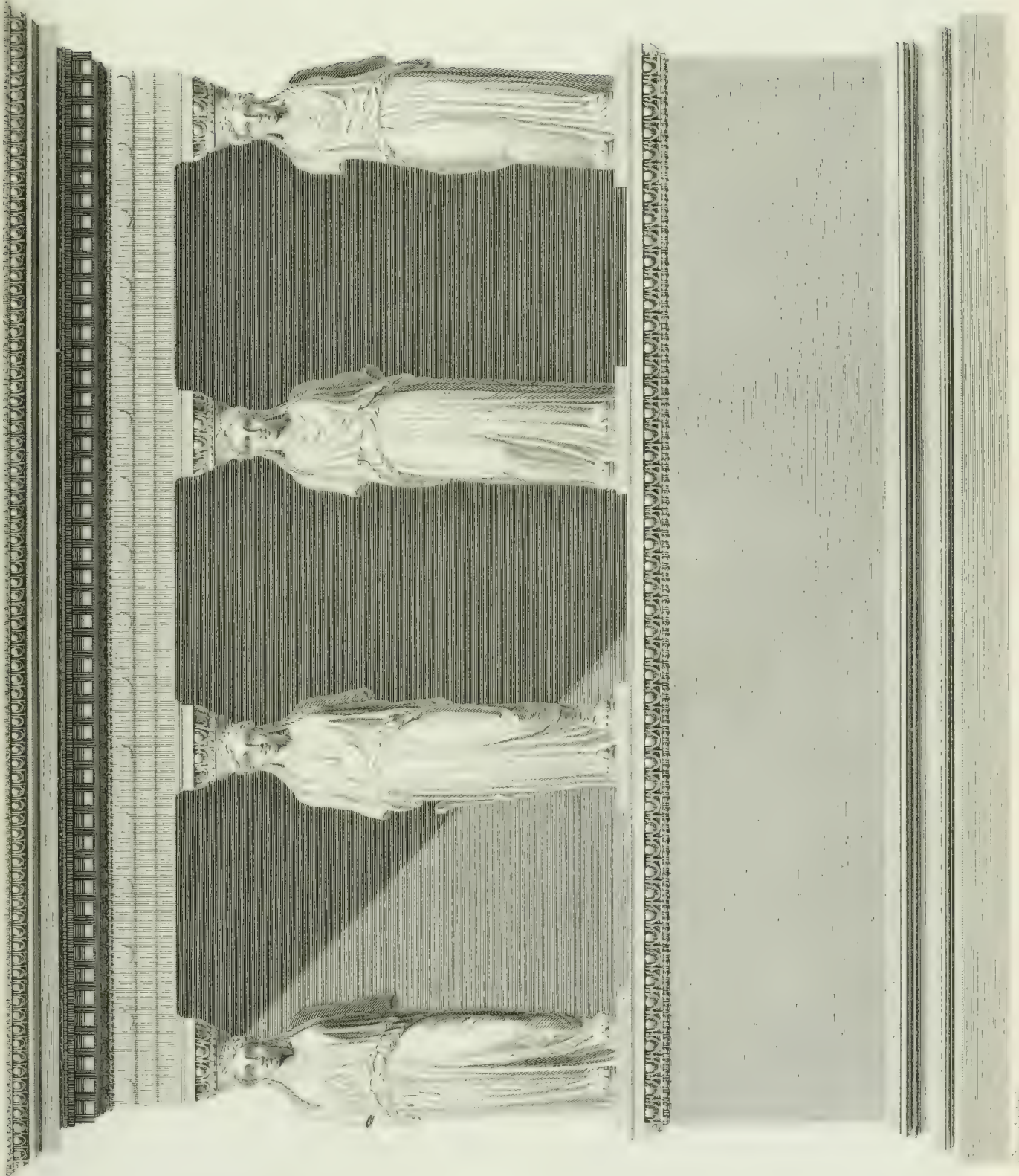


ARCHITECTURE.
DORIC ORDER.

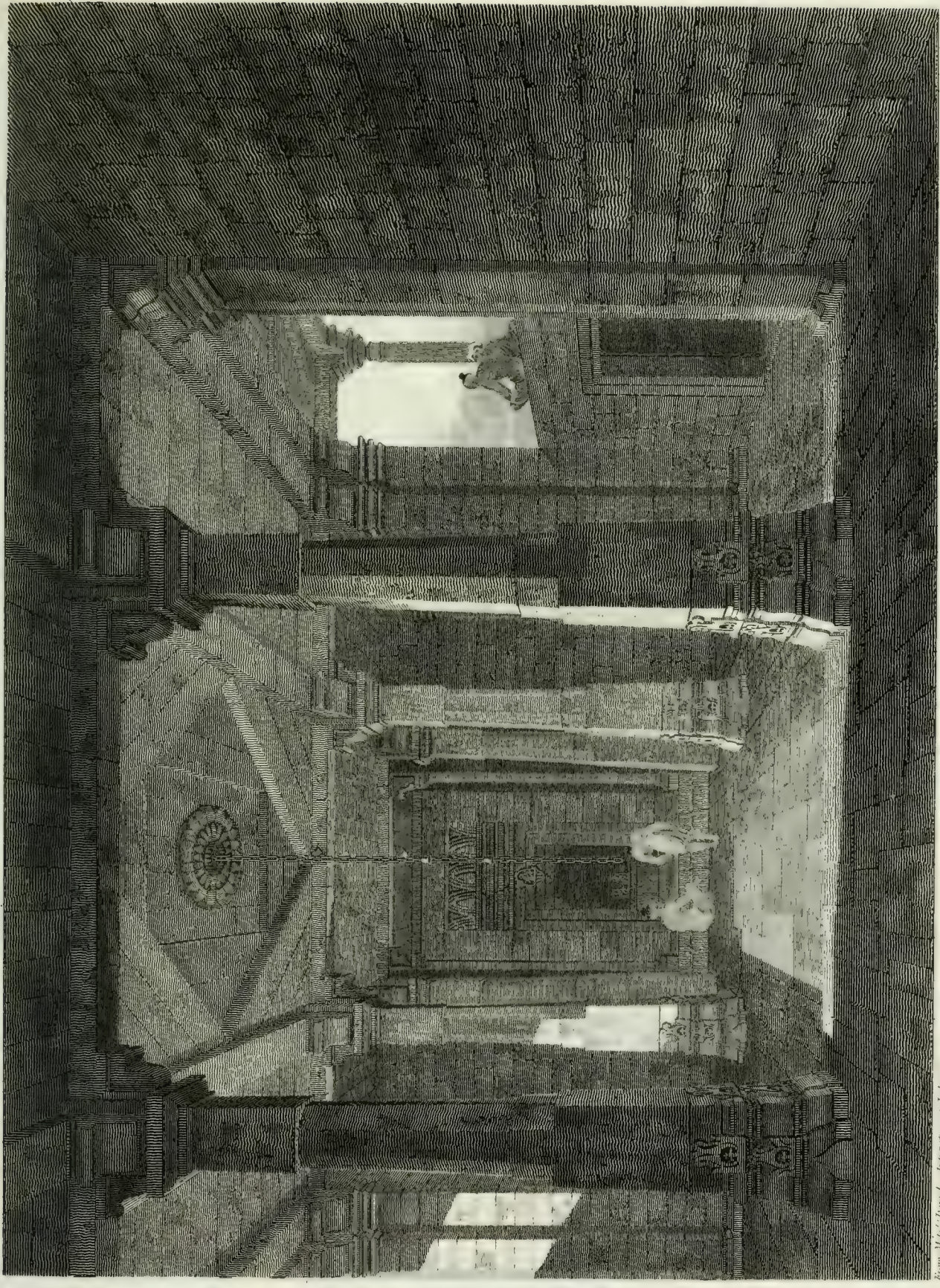




THE TEMPLE OF PLACIDUS AND ALPHEUS.





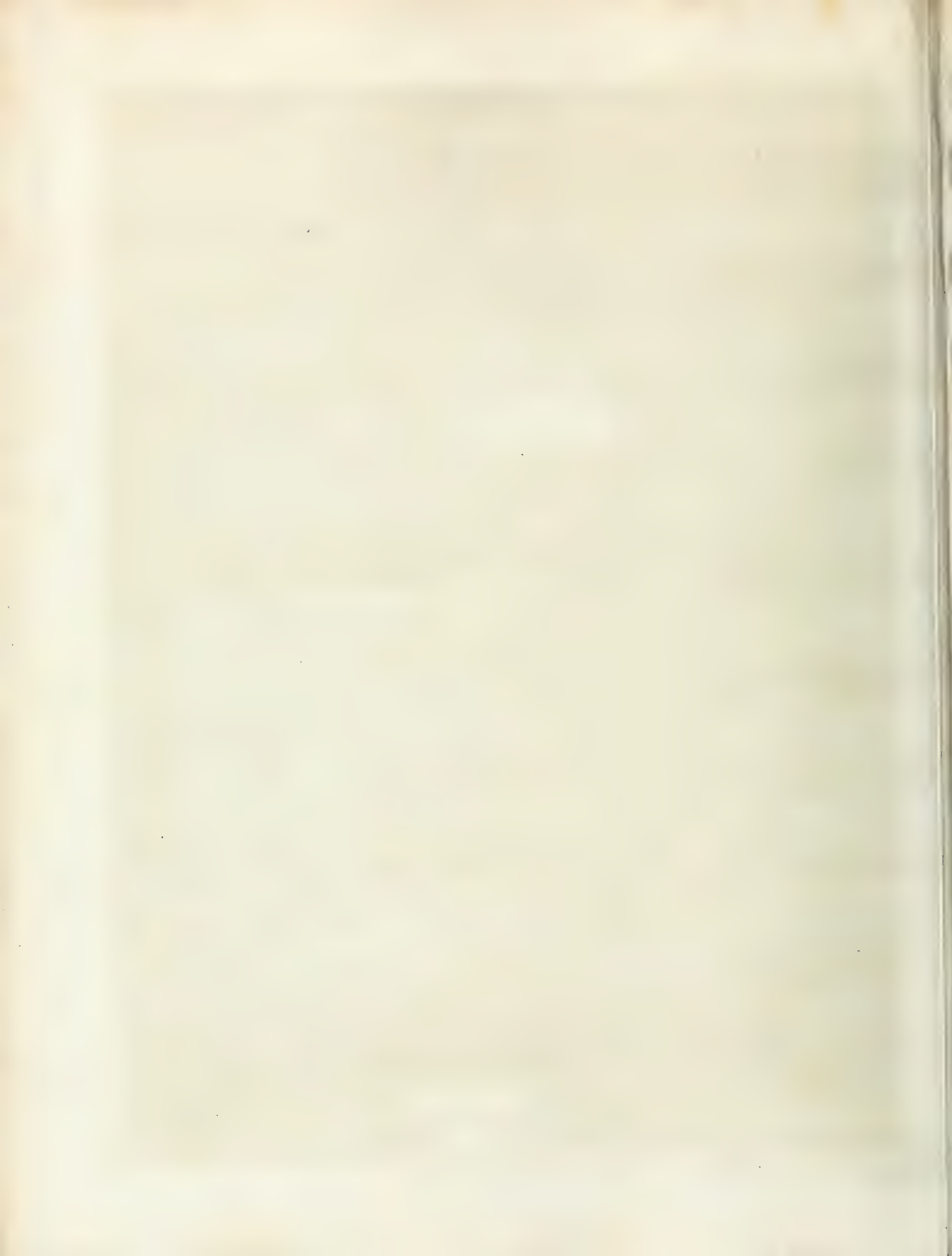


Engraved by H. G. J. Jones.

From Mr. Daniell's 'Description of India.'

PART OF THE INTERIOR OF AN HINDOO TEMPLE, AT DEO, IN BAHAR.

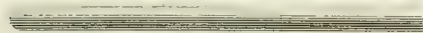
Published as the Art directs. By J. G. J. Jones, & R. S. Lattimore, & Co.



ARCHITECTURE.
MOULDINGS &c.



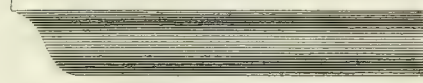
Fillet Listel Annulet or Square.



Astragal or Bead.

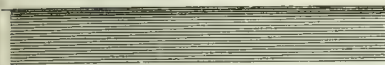


Cyma, Cyma Recta or Cymatian.

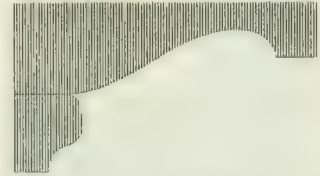
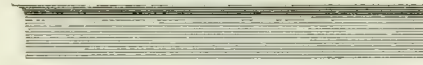


Scotia or Trochilos.

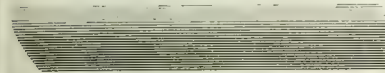
Cantilver.



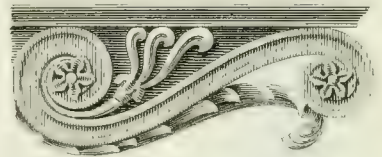
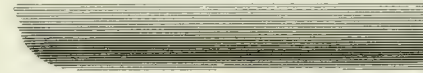
Listel and Fascia.



Corinthian Medillion.



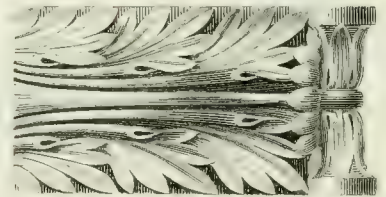
Echinus Ovolo or Quarter Round.



Soffit of a Medillion.



Echinus carved.



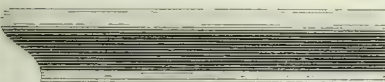
Panel between the Corinthian Medillions in the Soffit of the Cornice.



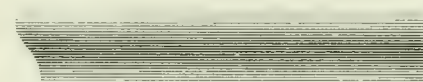
Sections of the Echinus.



ROMAN.



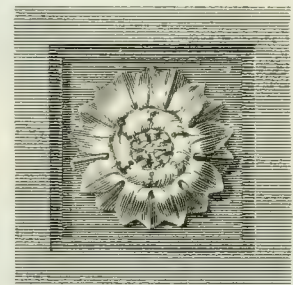
Lacuna, Cava, Tachen or Quai.



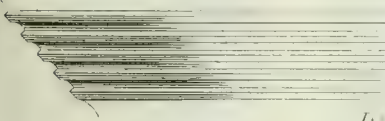
Talen carved.



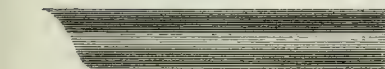
Astragal or Bead carved.



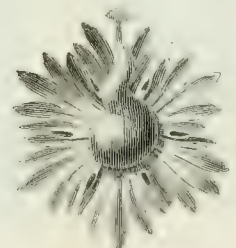
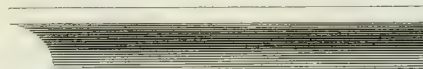
Flower in the



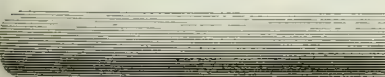
Doric Annulets.



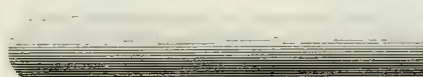
Cavete or Hellen.



Corinthian Abacus.



Torus.





JOINERY.

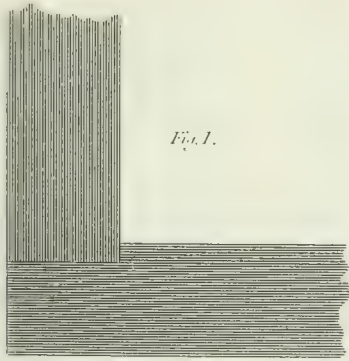


Fig. 1.

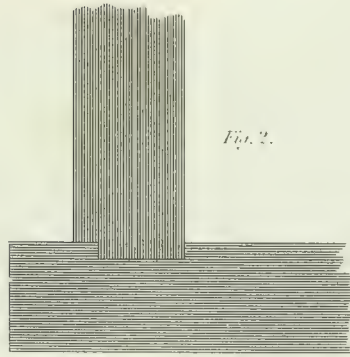


Fig. 2.

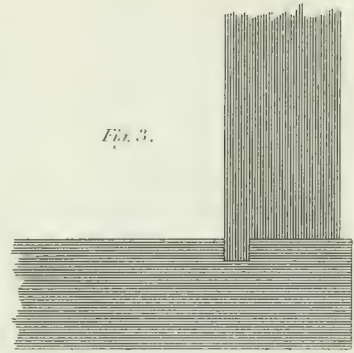


Fig. 3.

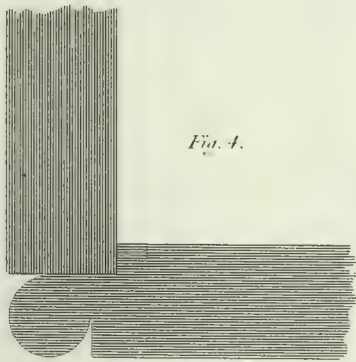


Fig. 4.

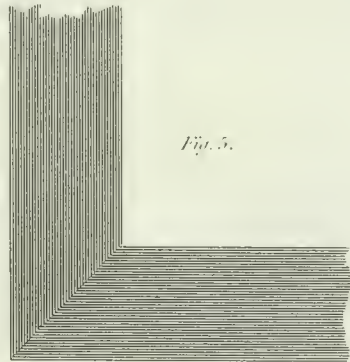


Fig. 5.

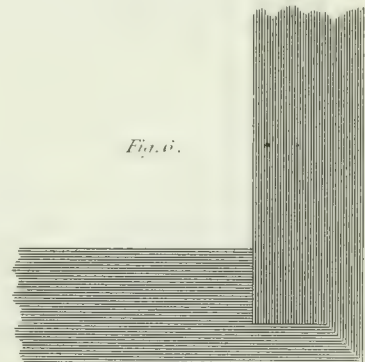


Fig. 6.

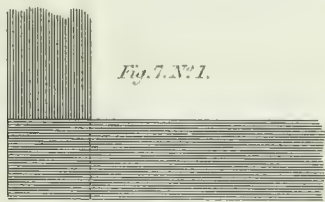


Fig. 7. No. 1.



Fig. 8. No. 1.

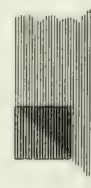


Fig. 8. No. 2.

No. 2.

No. 3.

No. 4.

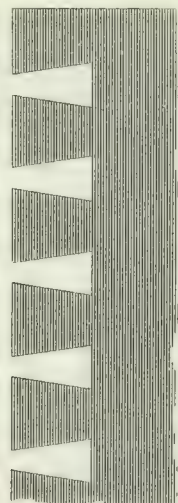
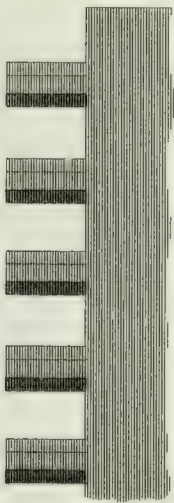
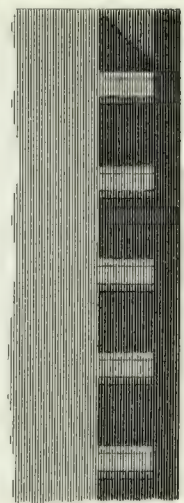
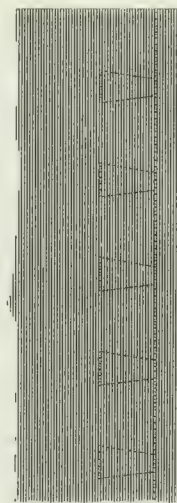


Fig. 8. No. 3.

Fig. 8. No. 4.

Fig. 8. No. 5.





JOINERY.

Fig. 1.

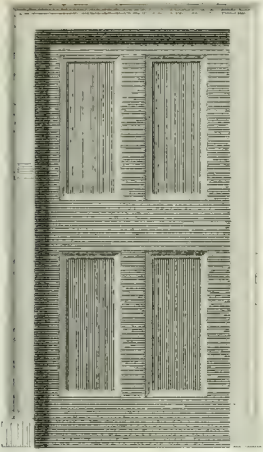


Fig. 2.

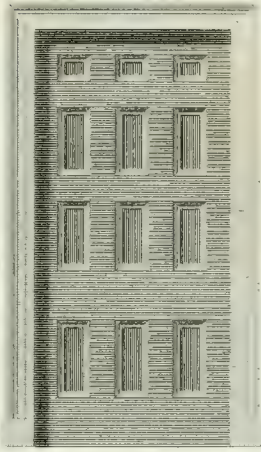


Fig. 3.



Fig. 4.

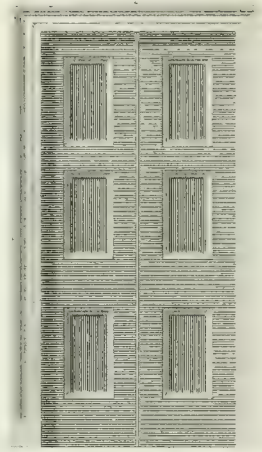


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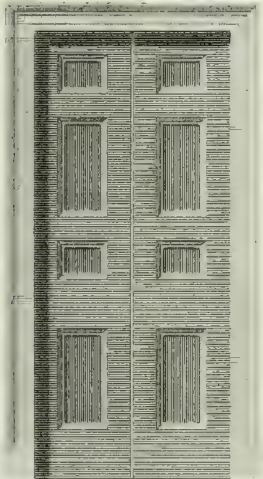


Fig. 6.

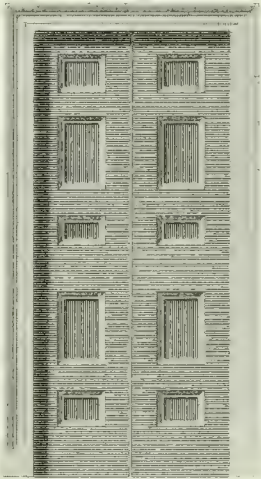


Fig. 7.

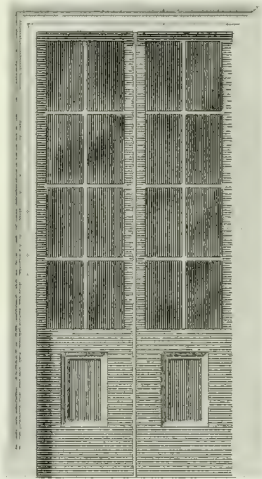


Fig. 8.

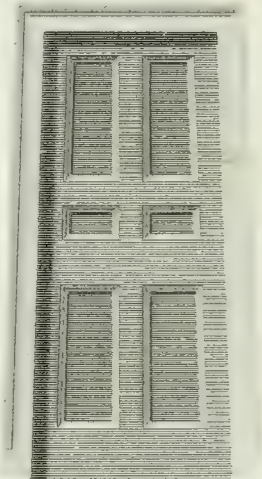


Fig. 9.

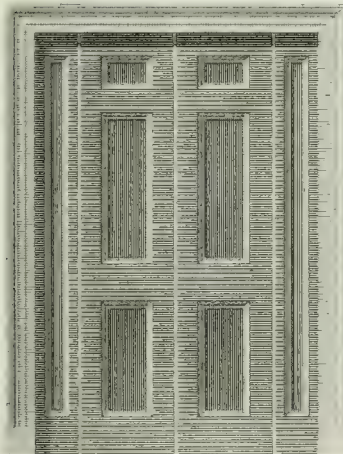


Fig. 10.

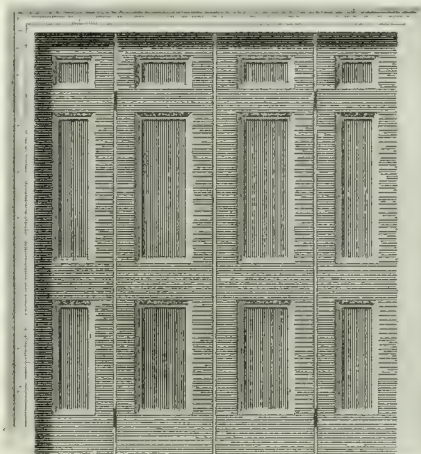


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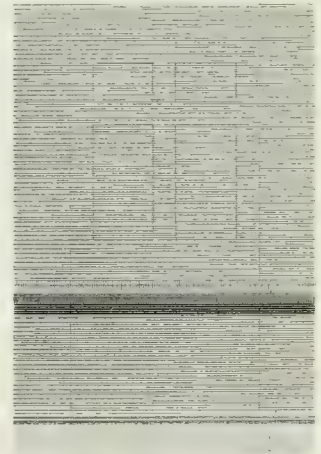




Fig. 3.

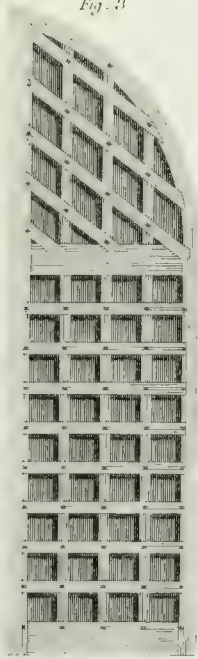


Fig. 2.

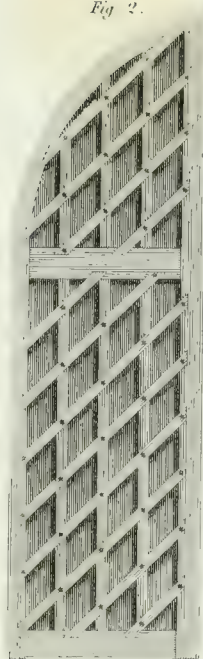


Fig. 1.

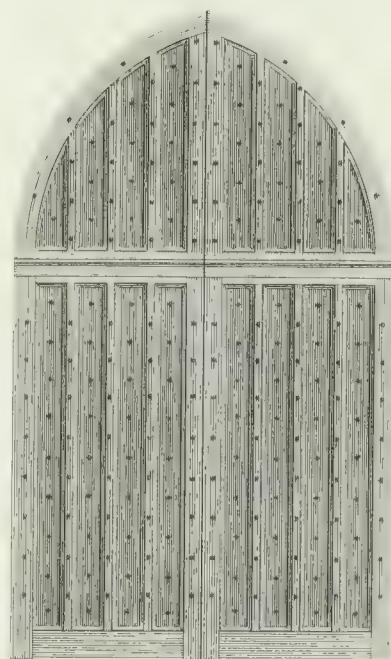


Fig. 4. N° 1.

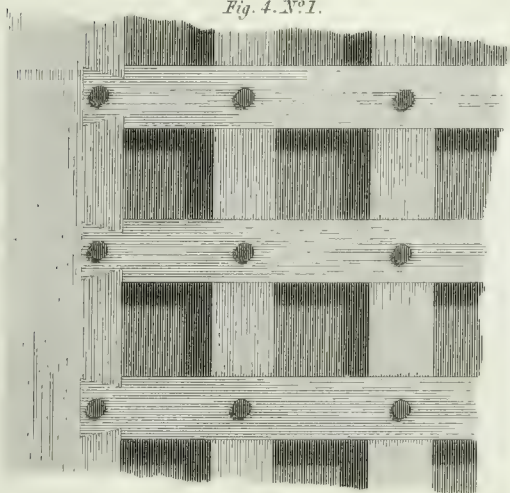


Fig. 5. N° 1.



Fig. 5. N° 2.

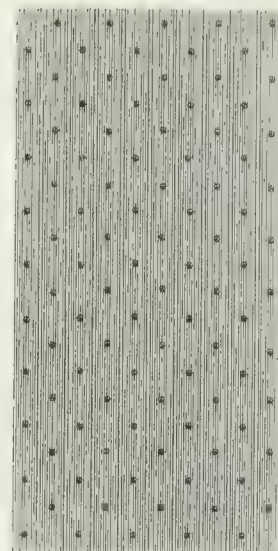
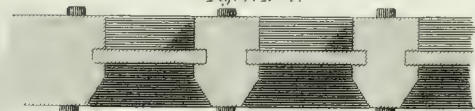
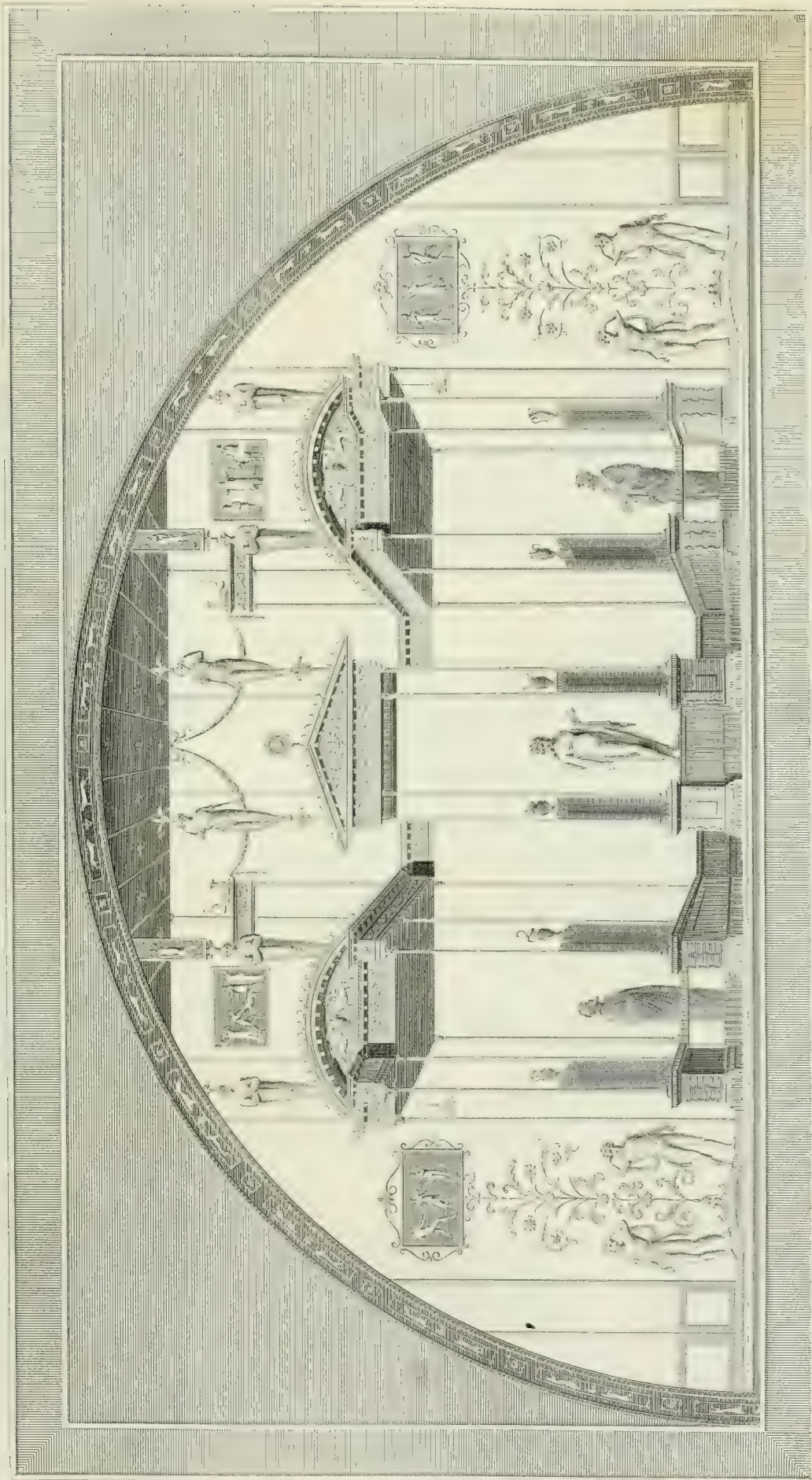


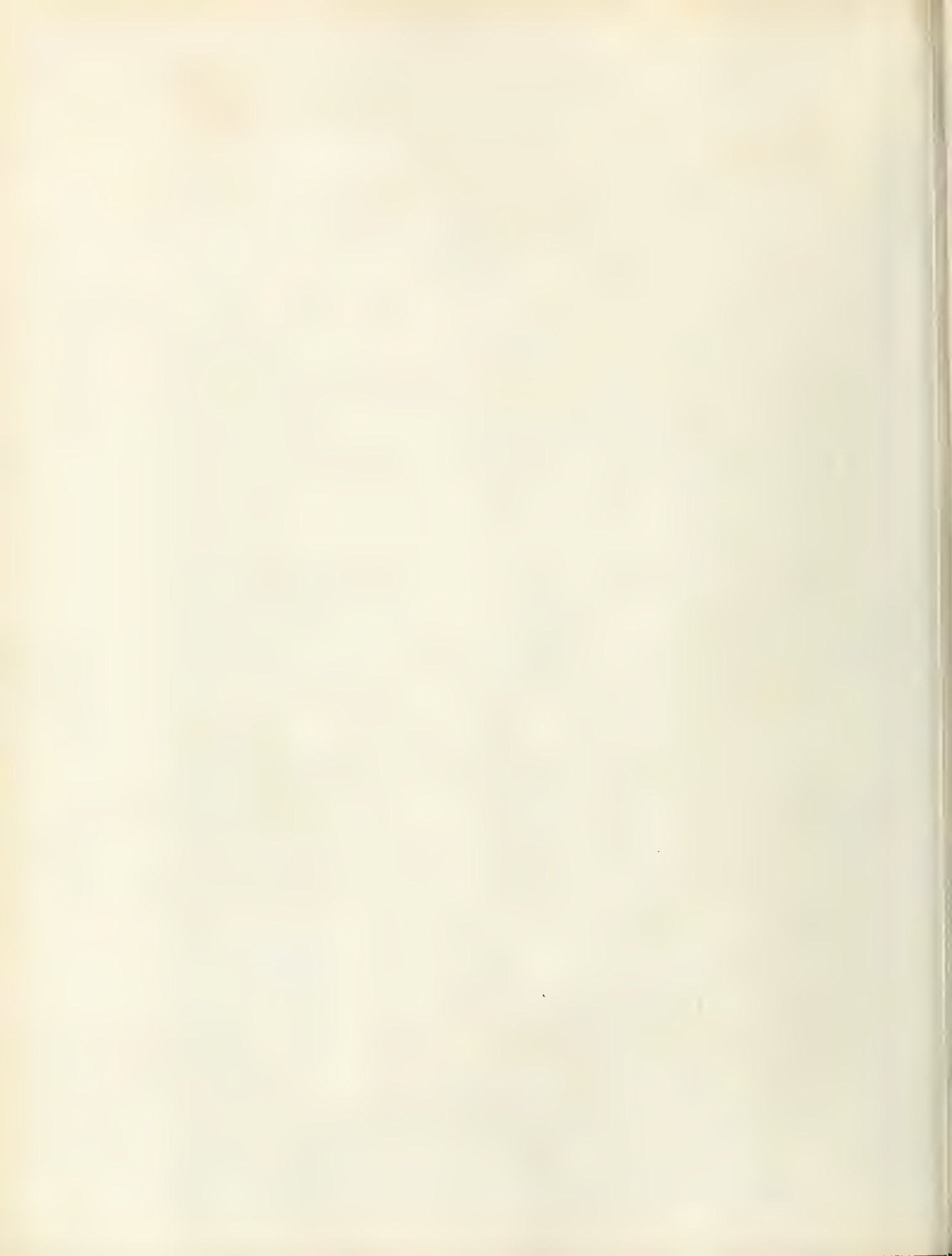
Fig. 4. N° 2.





PAINTING FROM THE BATHS OF TITUS.





B. G. Y. P. P. L. I. N. C. A. P. I. T. A. L. S.

Fig 1.

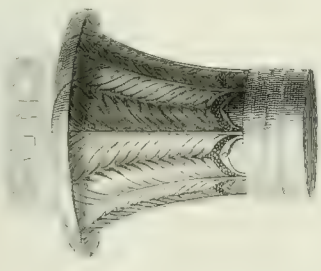


Fig 2.

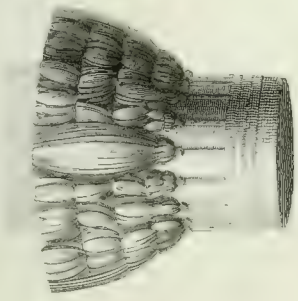


Fig 3.

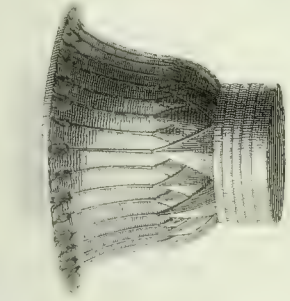


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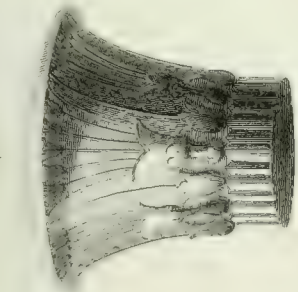


Fig 5.

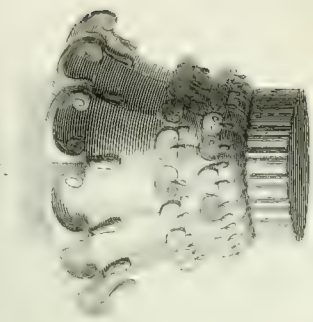


Fig 9.

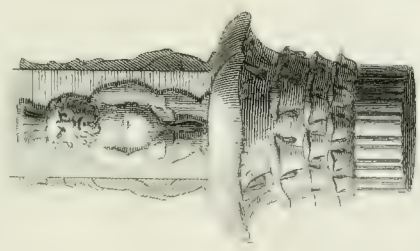


Fig 6-FR.IGMENTS.

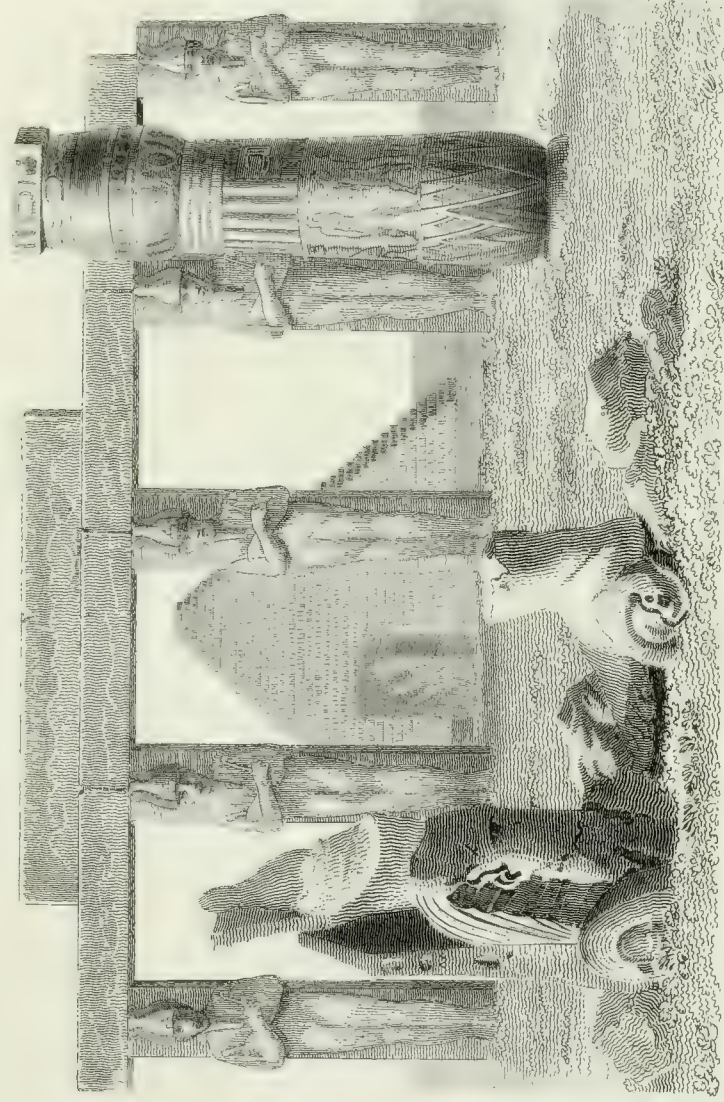


Fig 6.

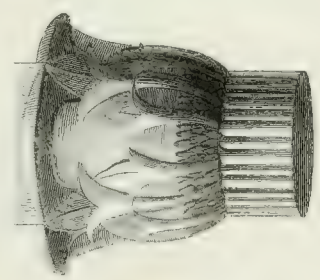


Fig 7.

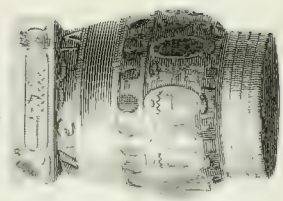
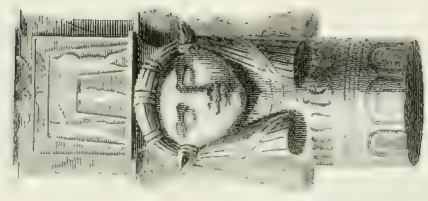
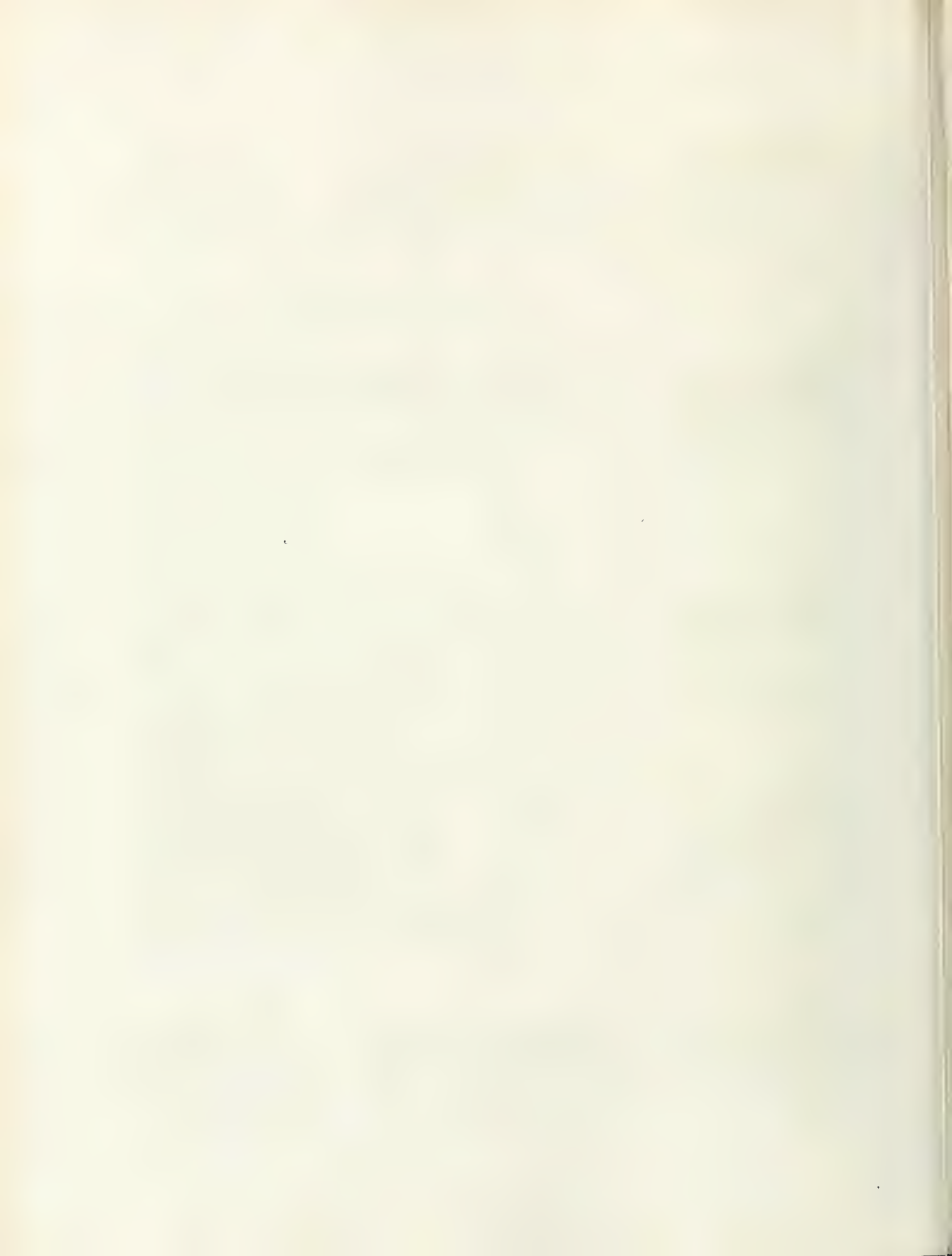


Fig 8.





CORINTHIAN AND COMPOSITE CAPITALS.

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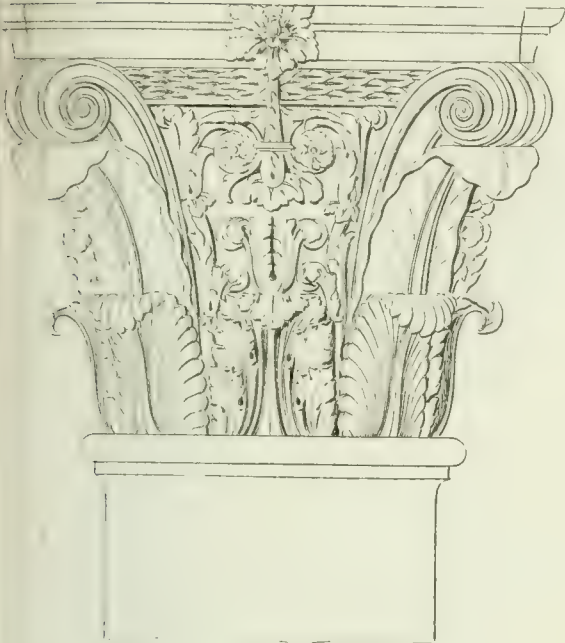


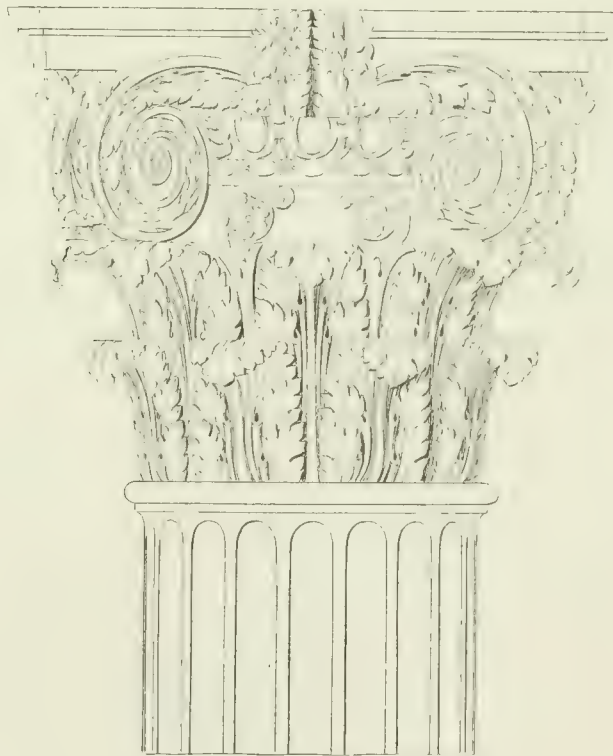
Fig. 2.

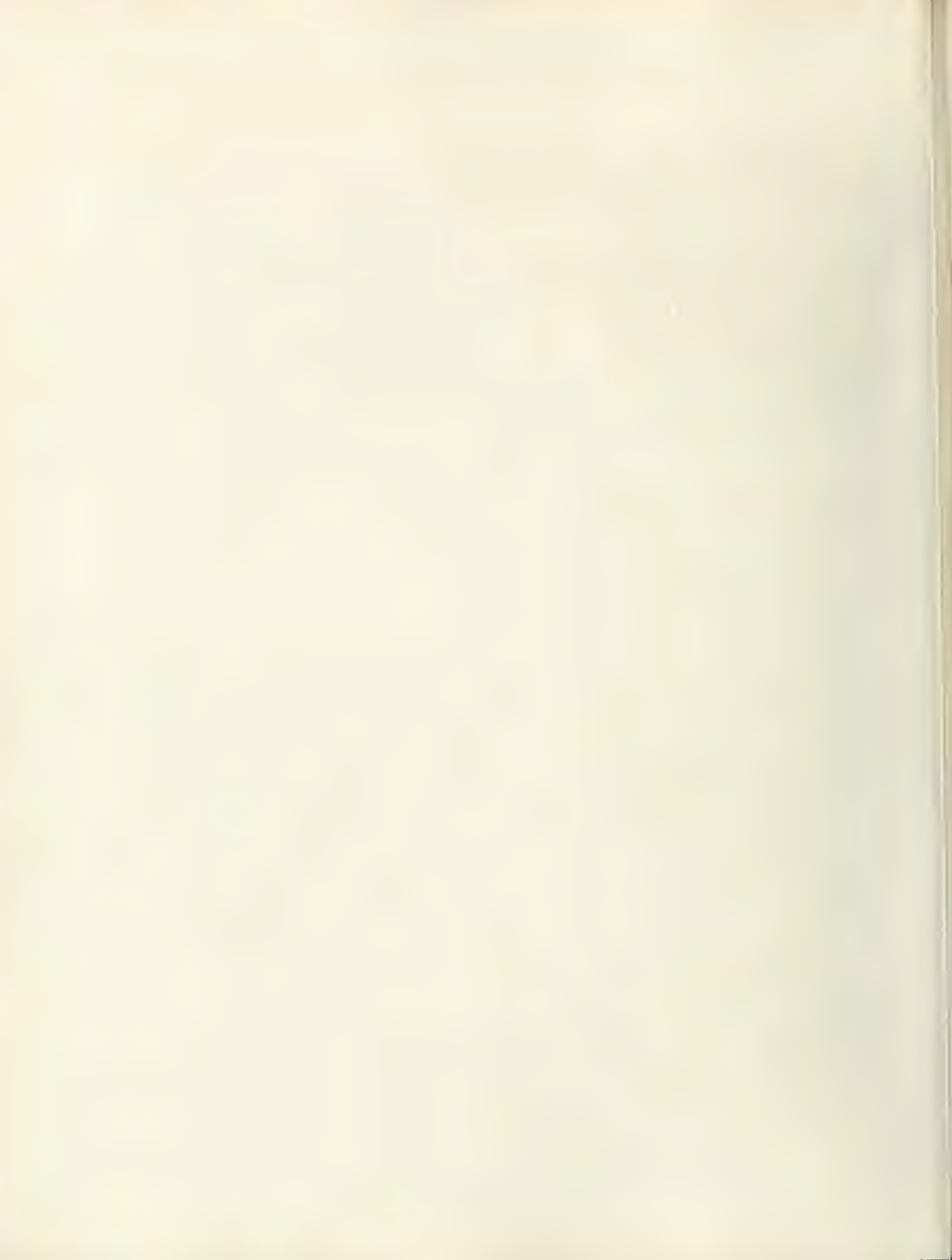


Fig. 3.



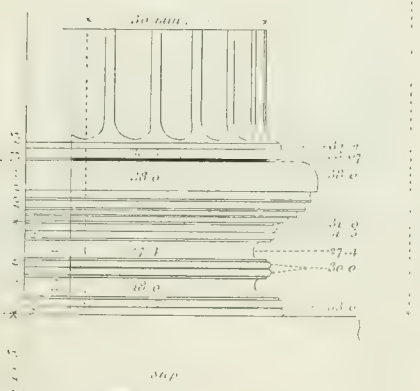
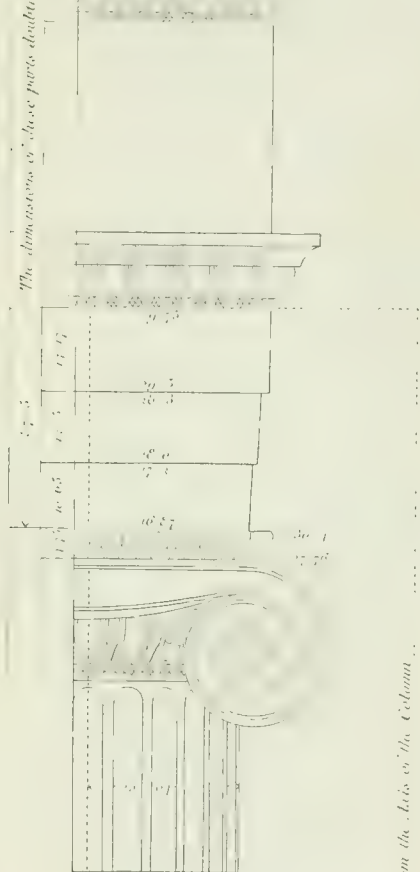
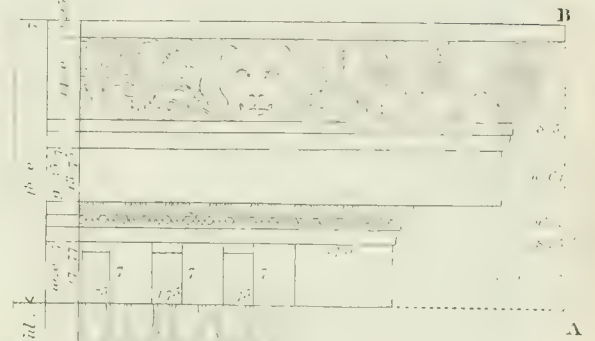
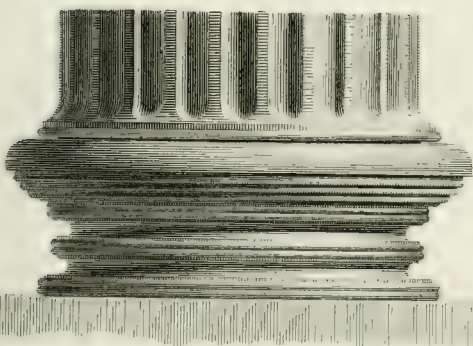
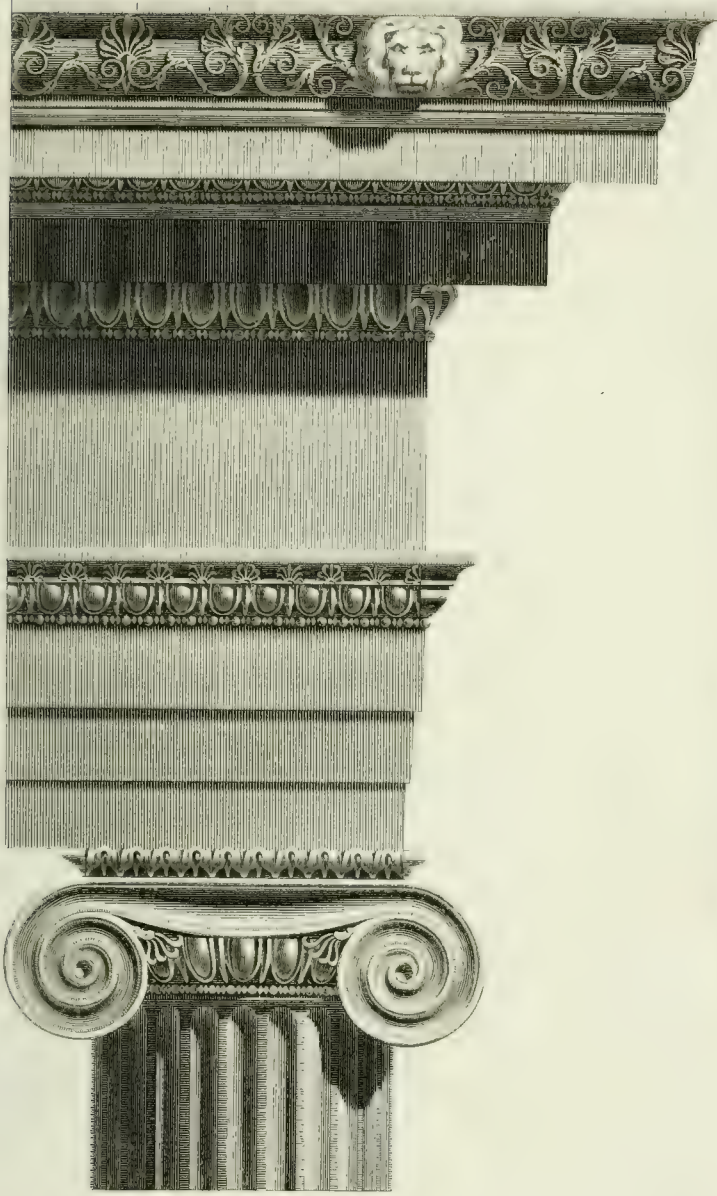
Fig. 4.





FROM THE TEMPLE OF MINERVA POLLAS, AT PRIENE.

IONIC ORDER.



These dimensions measured from the top A.B.

These from the Axis of the Column.

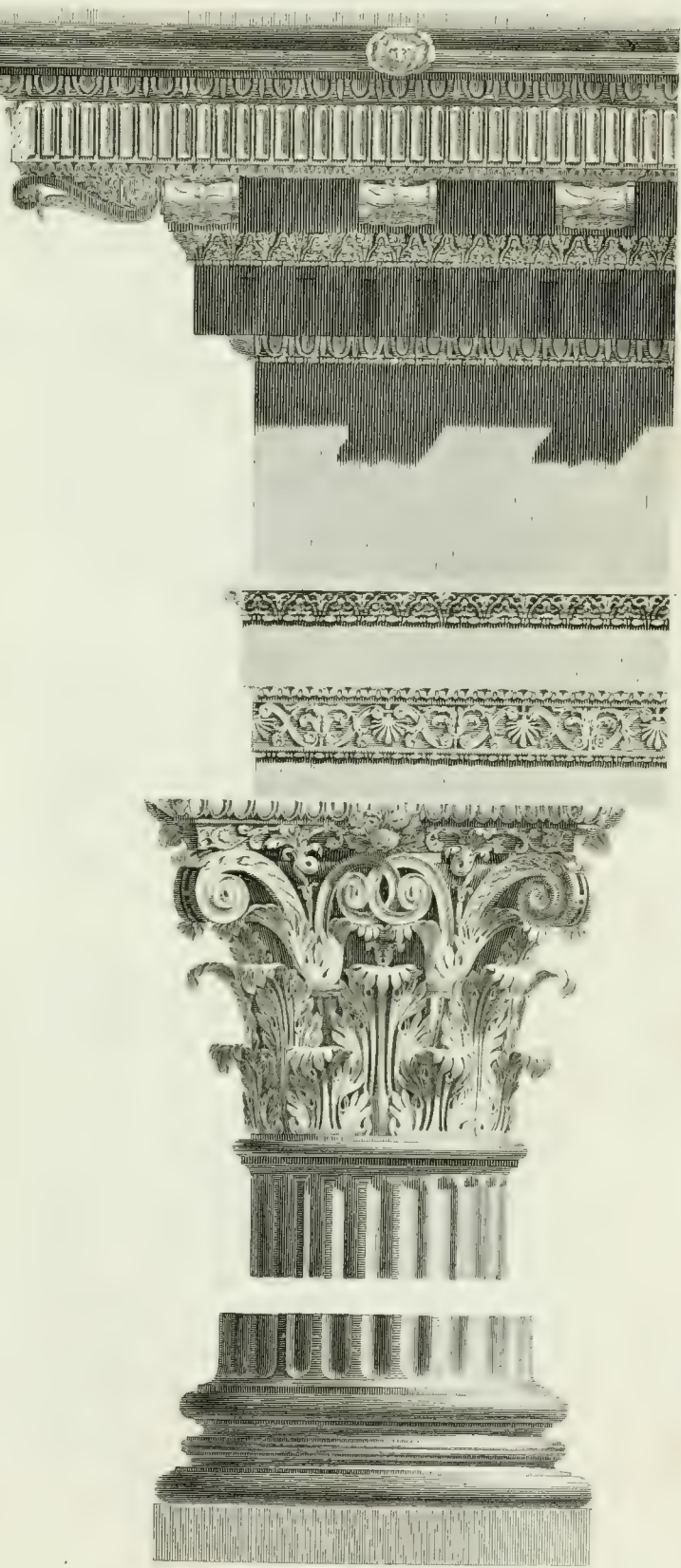
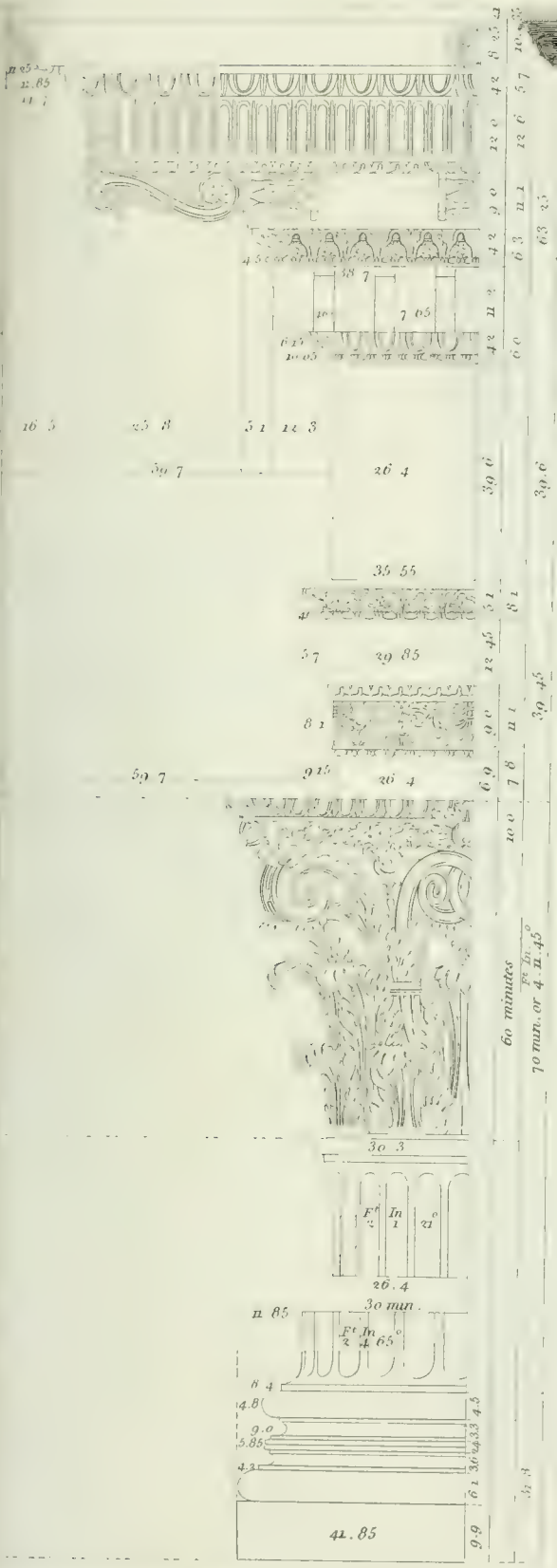


FROM THE TEMPLE OF JUPITER STATOR IN ROME.

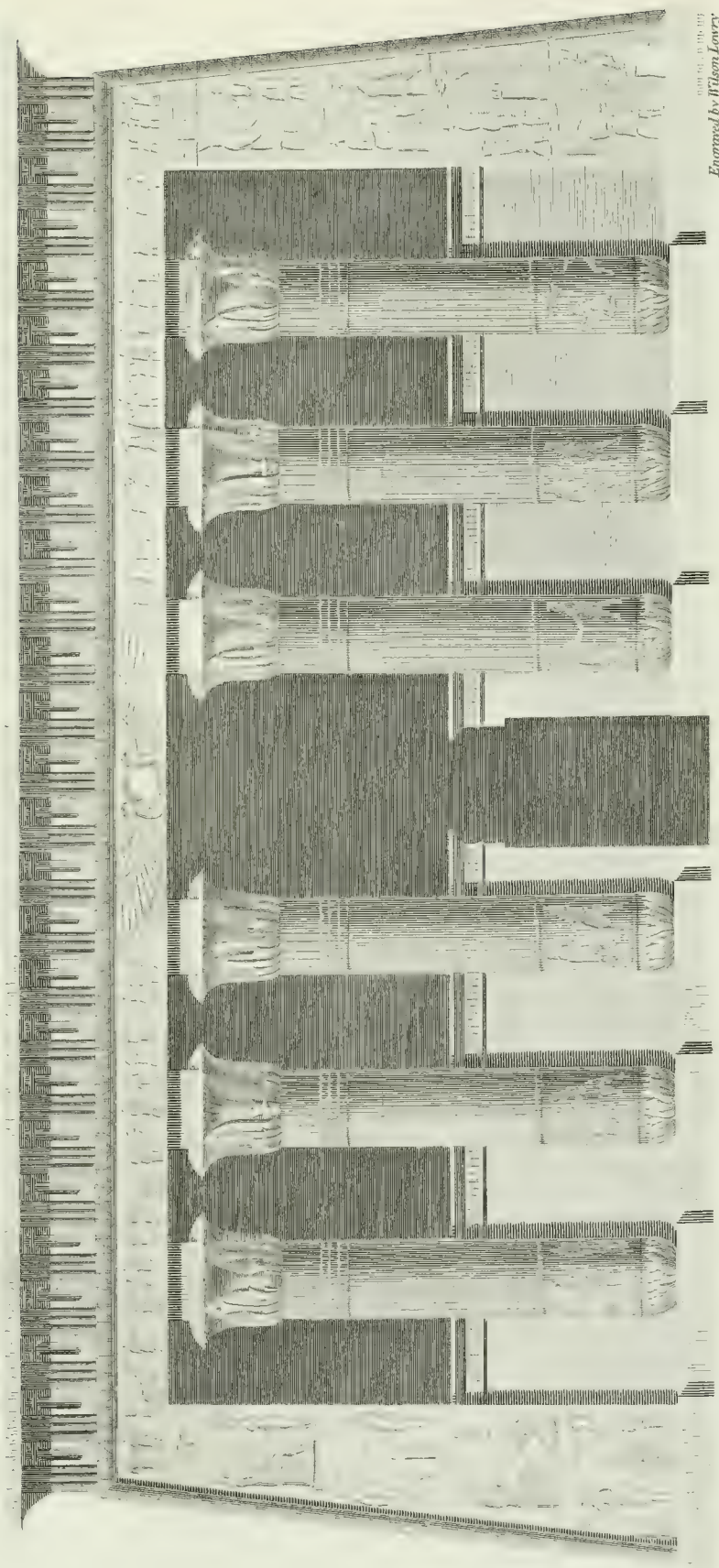
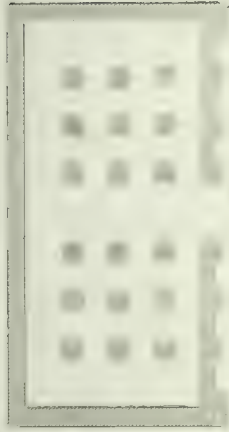
THE CORINTHIAN ORDER.

in Feet & Inches English.

Whole height of the Column 45.4.27 English.



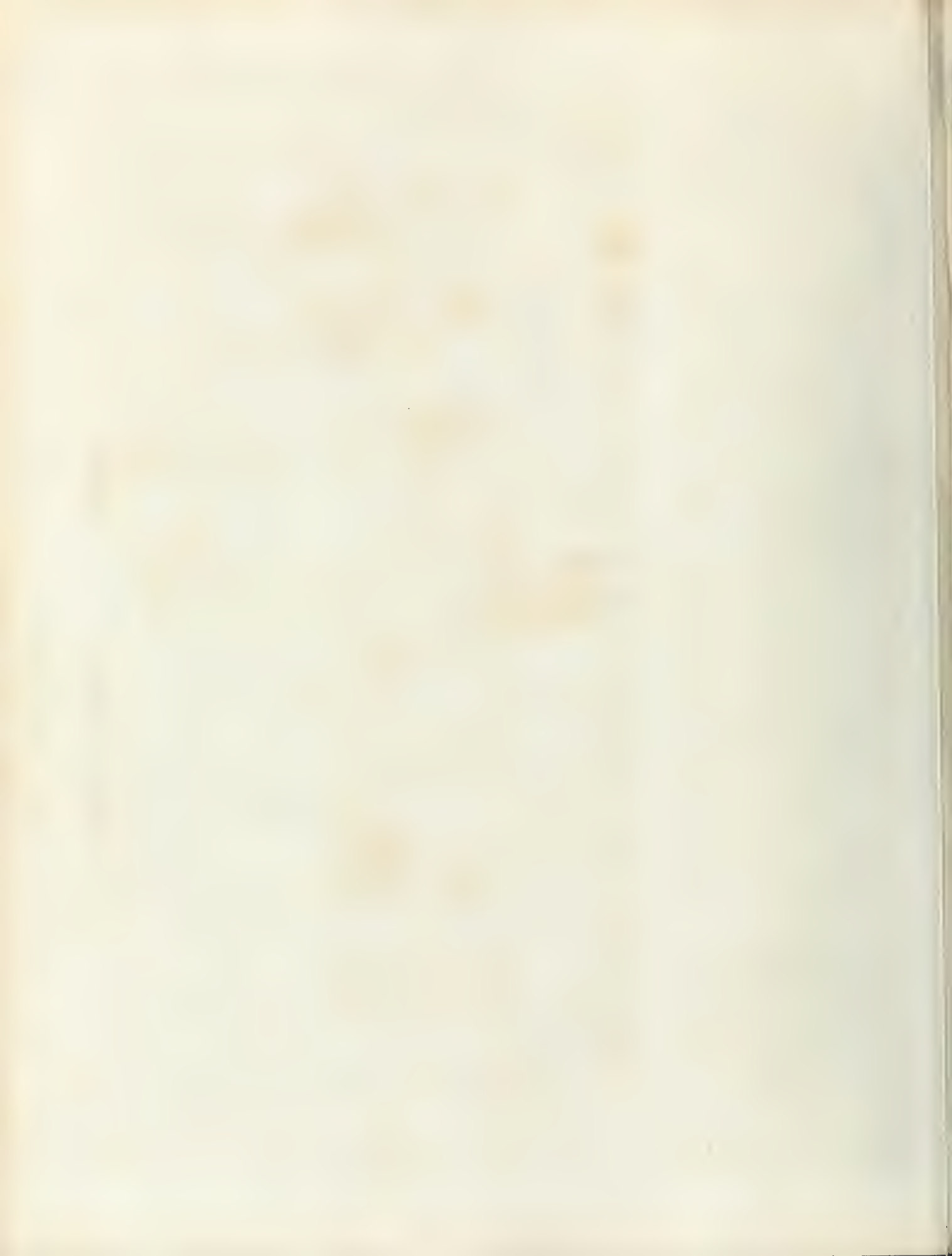
The Entablature and Capital drawn by Wilson Lowry from a Cast in the Possession of John Soane Esq. R.A. The Dimensions reduced to Minutes and English feet from Palladio.

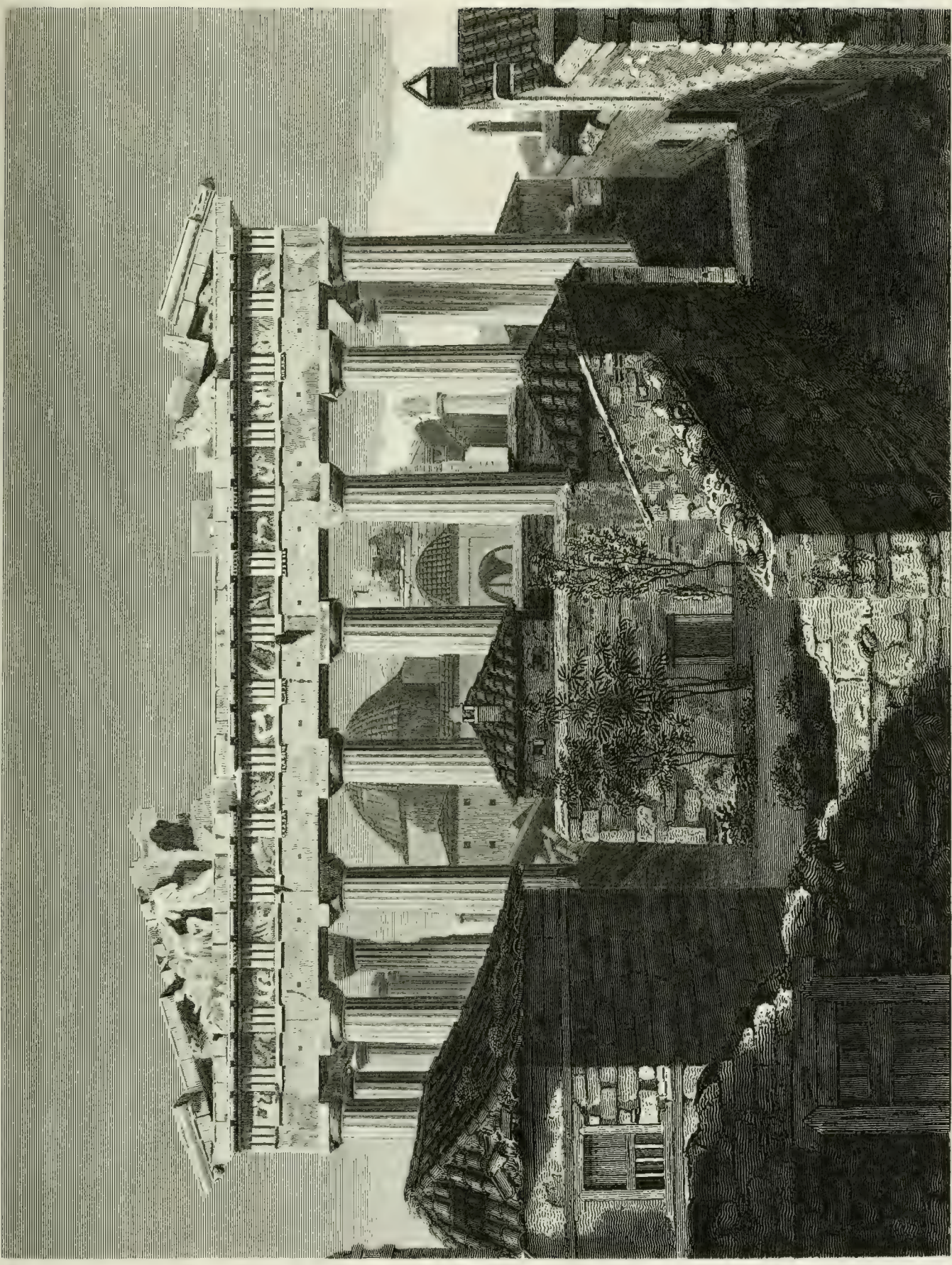


Engraved by Wilson Lowry

PLAN AND ELEVATION OF A PORTICO AT LATOPOLIS.

Published as the Architects, 1858, by Longman, Hurst, Rees & Orme, Paternoster Row.



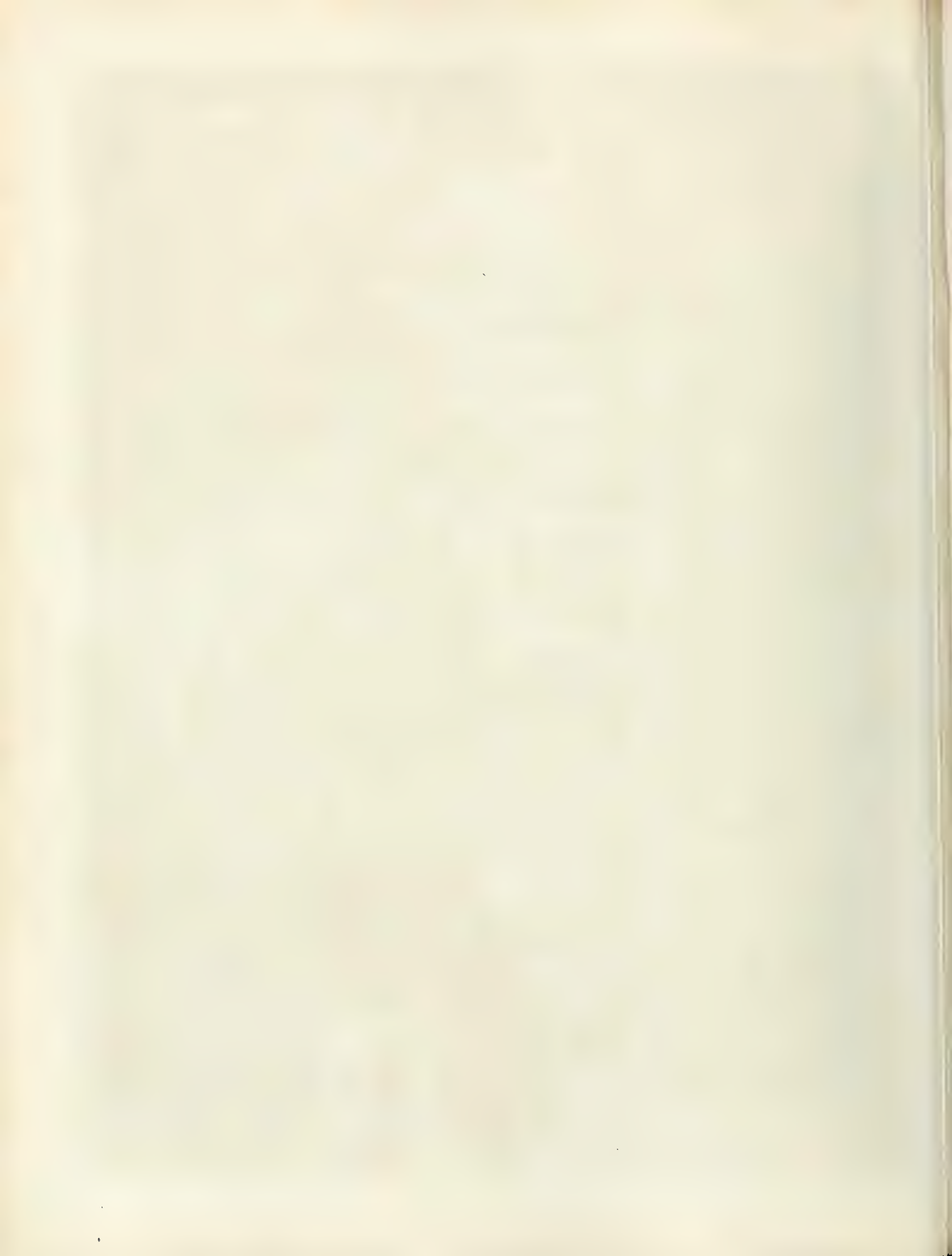


Engraved by Wilson Lowry.

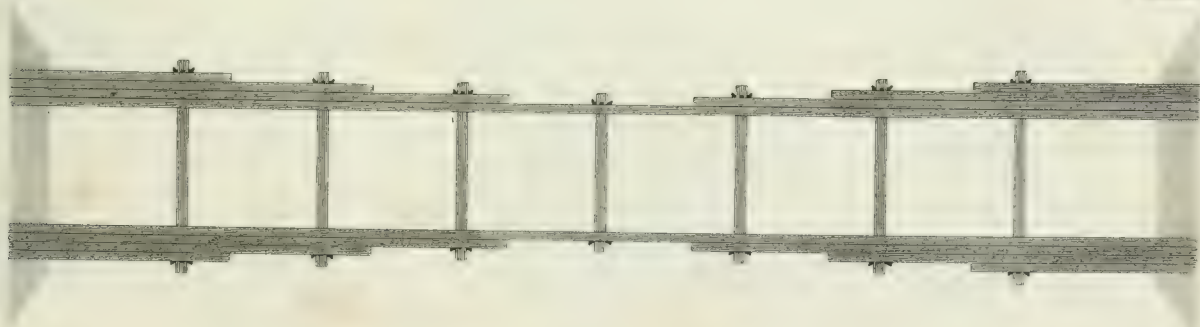
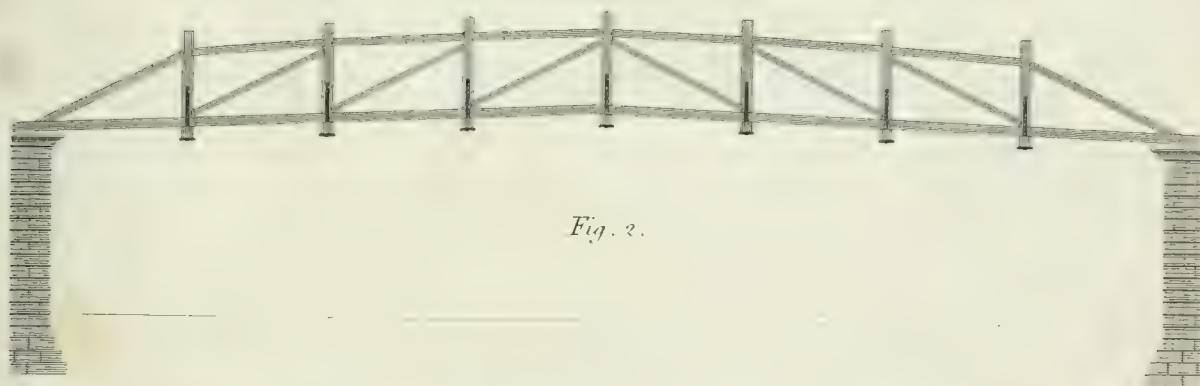
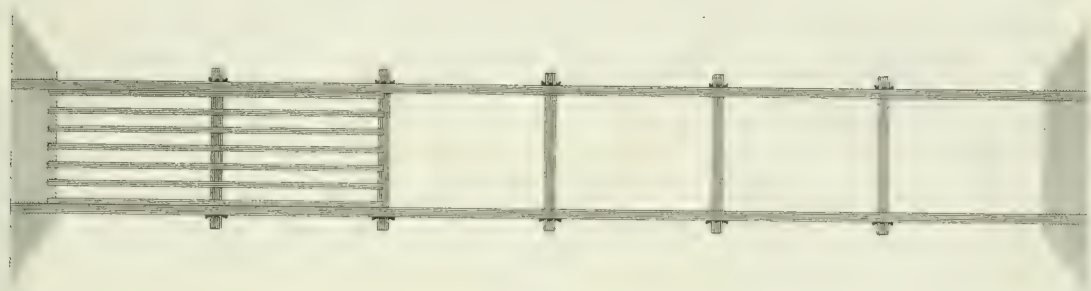
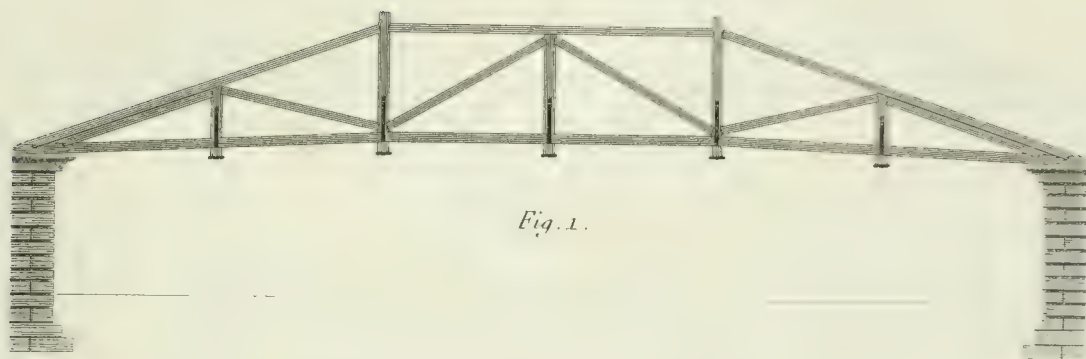
EASTERN PORTICO OF THE PARTHENON ON THE ACROPOLIS OF ATHENS.

From Stewart

Published as the Act directs, Aug. 1, 1833, by Longman & Rees, Paternoster Row.



BRIDGES.





BRIDGES.

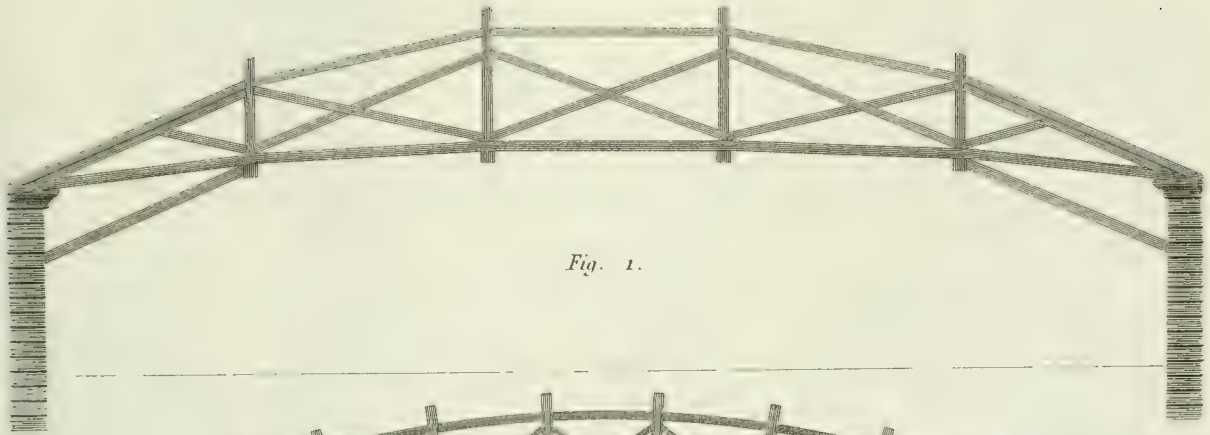


Fig. 1.

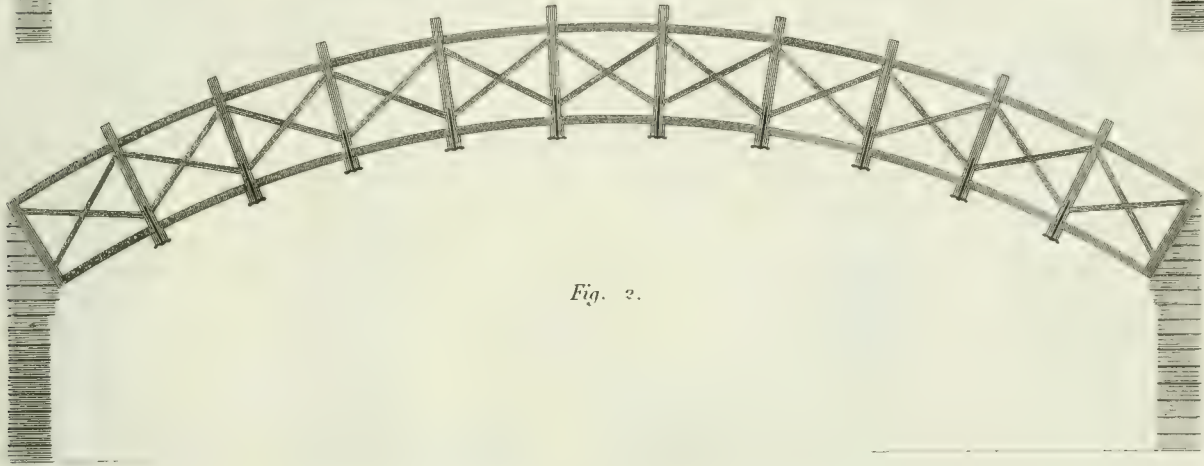


Fig. 2.

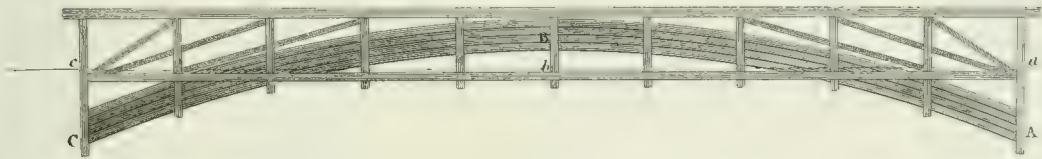


Fig. 3.

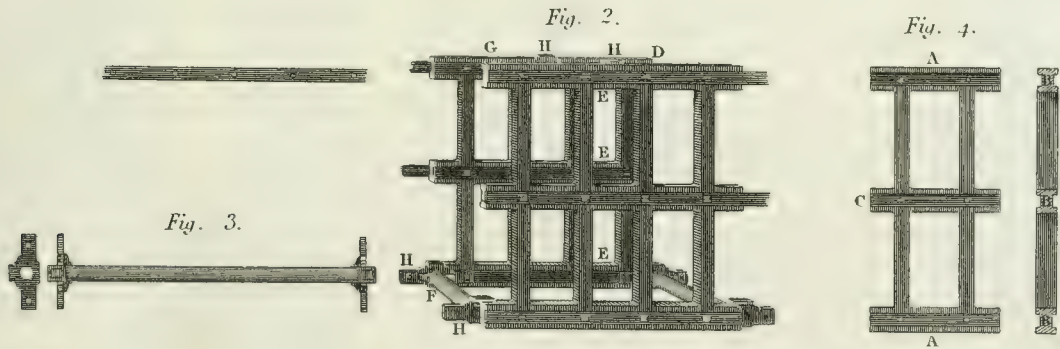


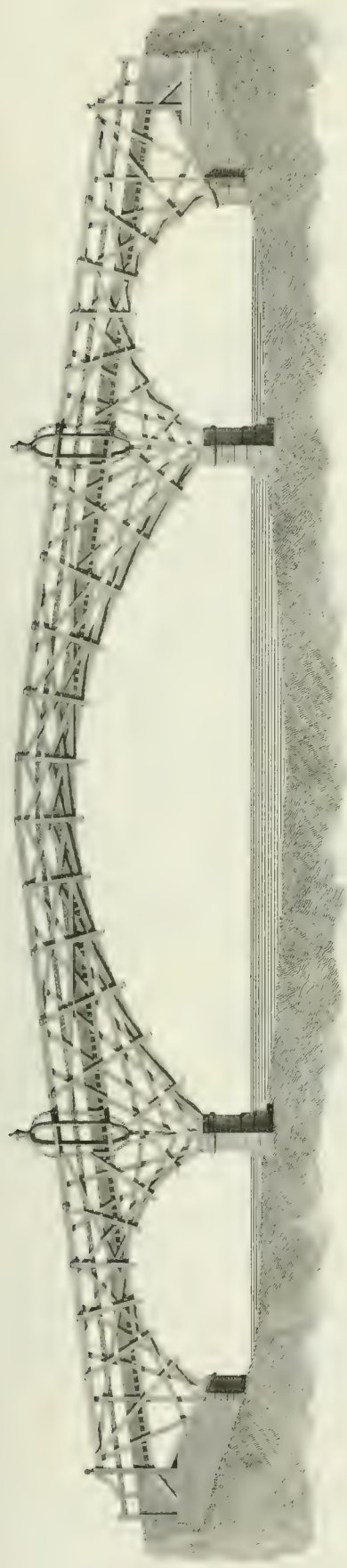
Fig. 2.

Fig. 4.

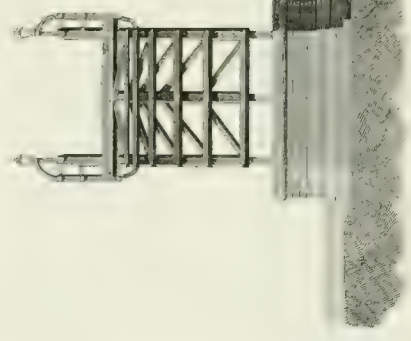
Fig. 3.



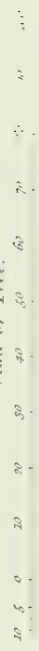
Elevation.



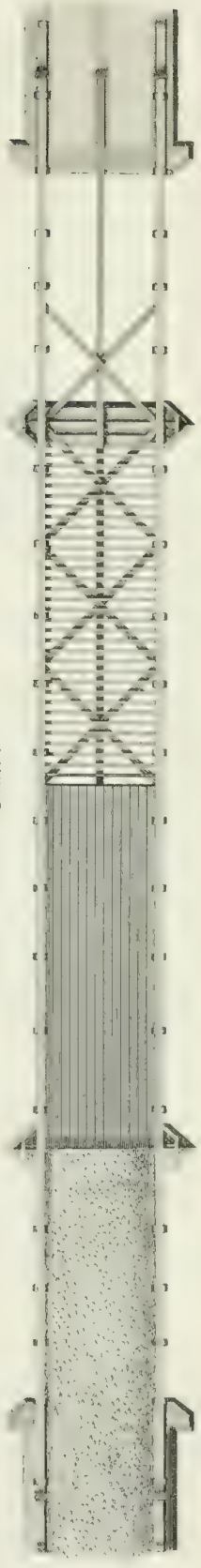
Cross Section



Scale of Feet.



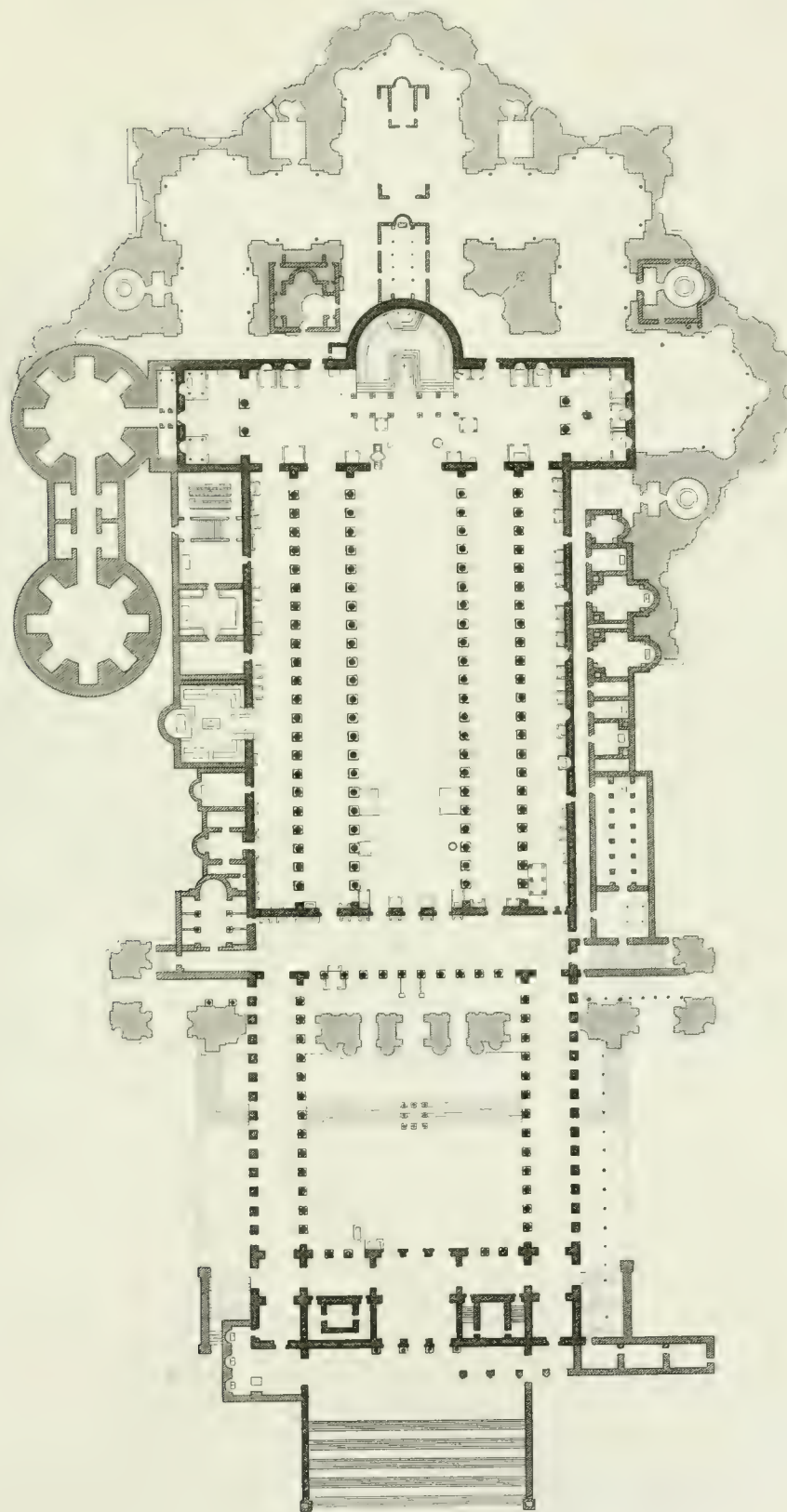
Plan.

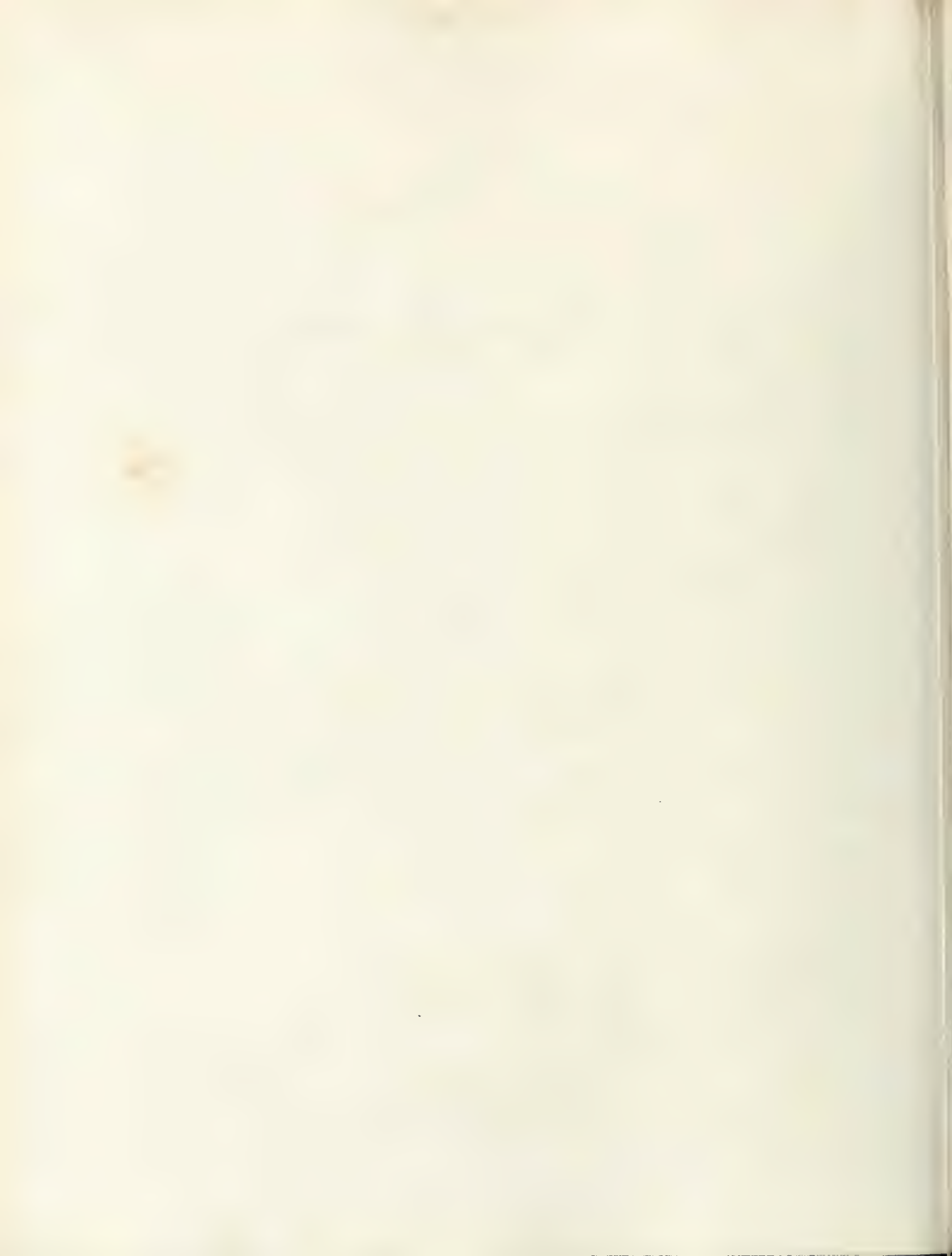




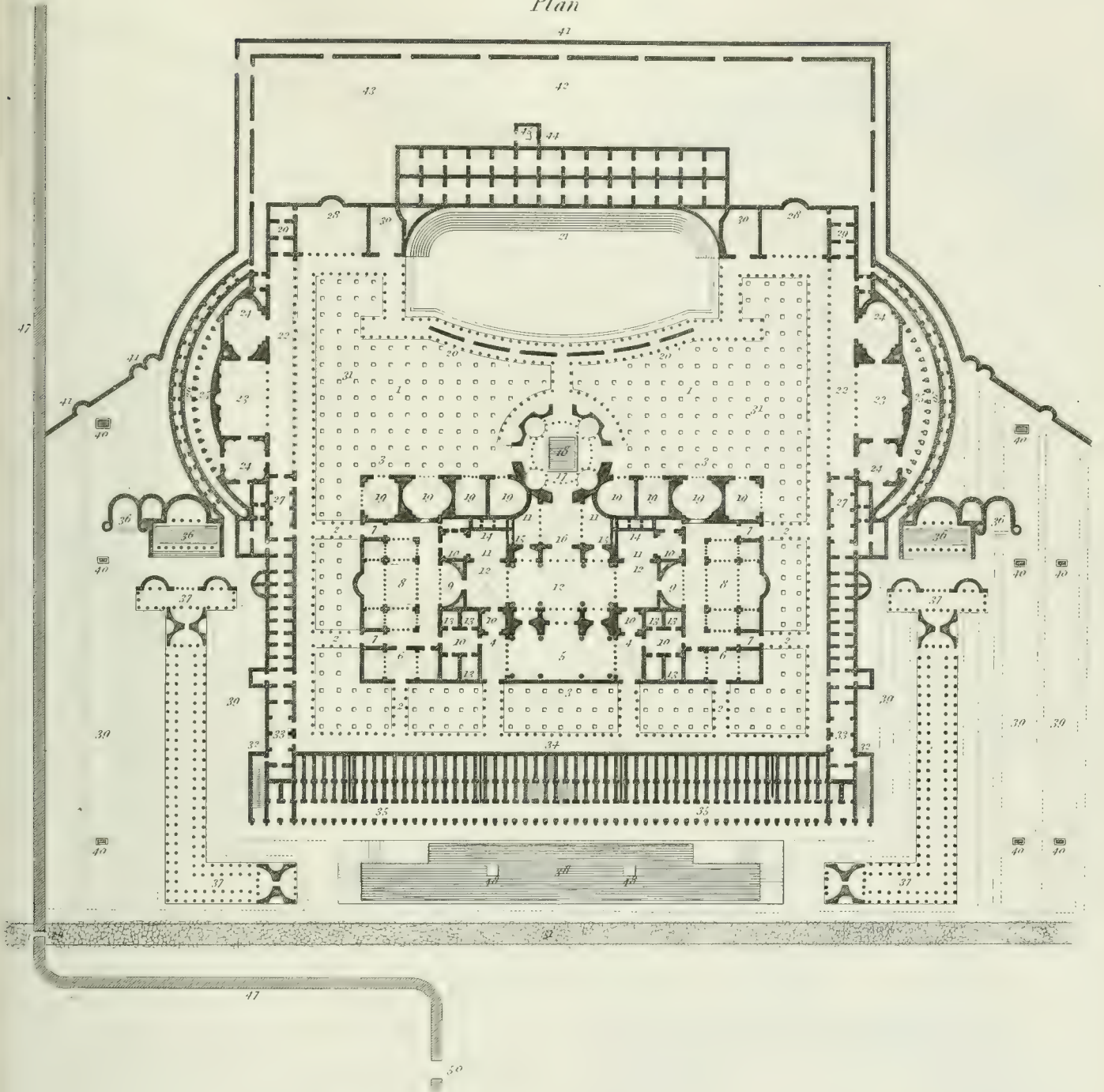
BASILICA.

*Incorporated Plans of the old Basilica of S.^t Peter's
and of the modern S.^t Peter's of the Vatican, from Costantini.*



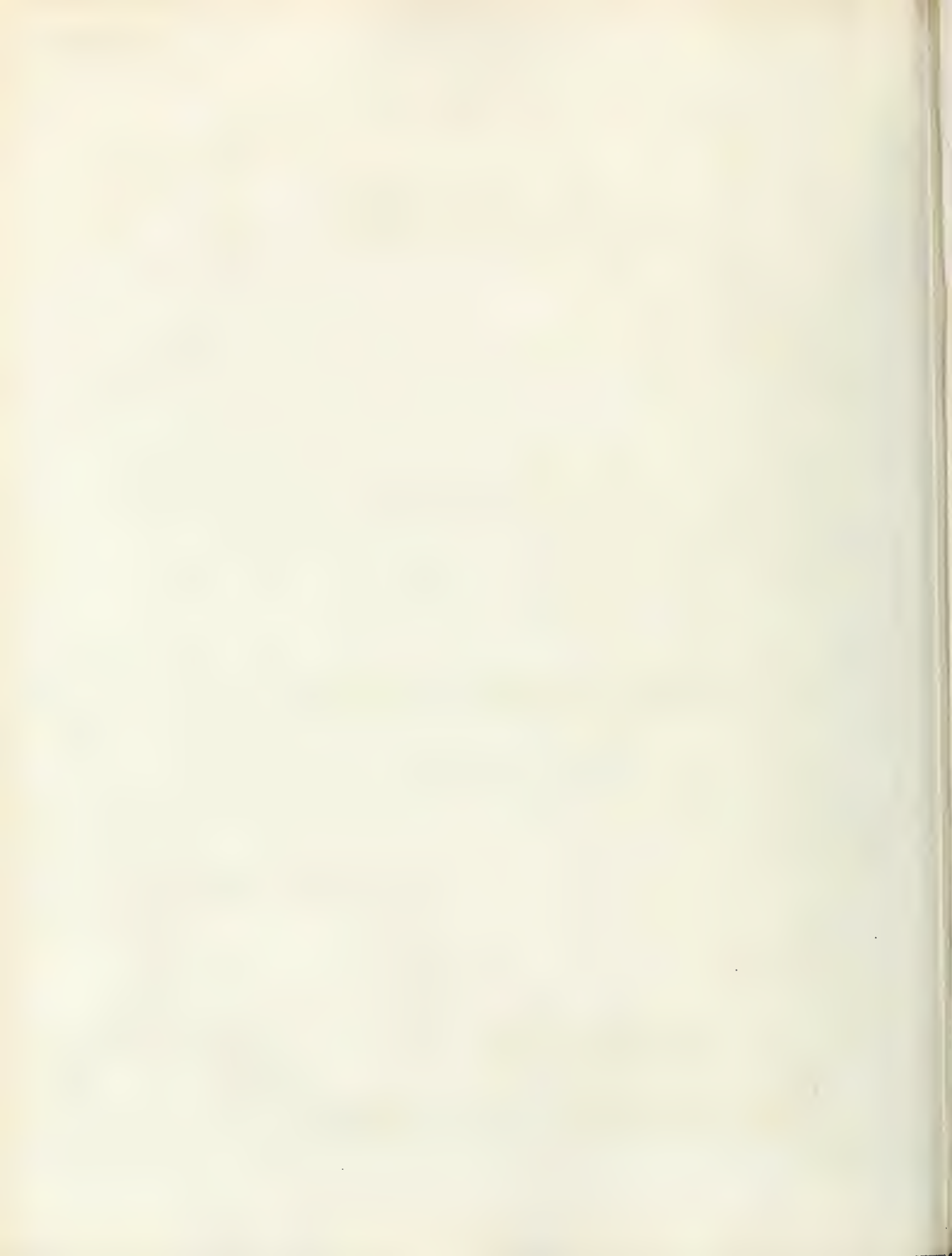


Plan

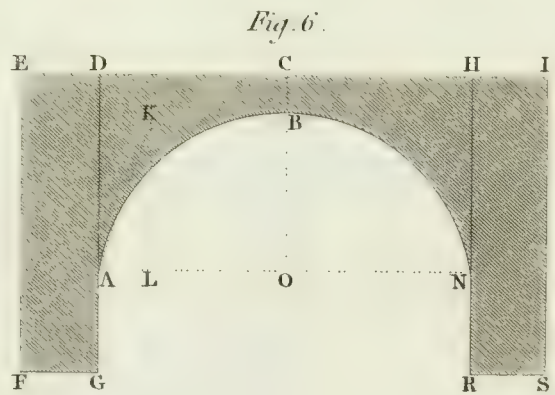
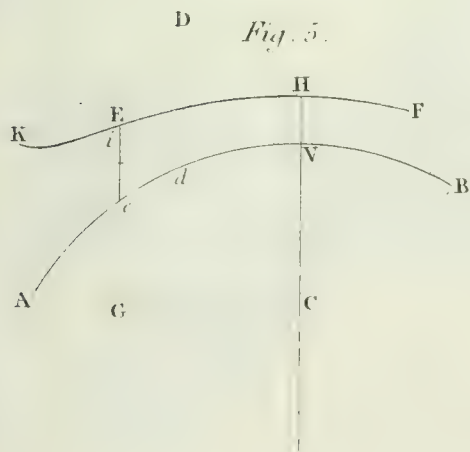
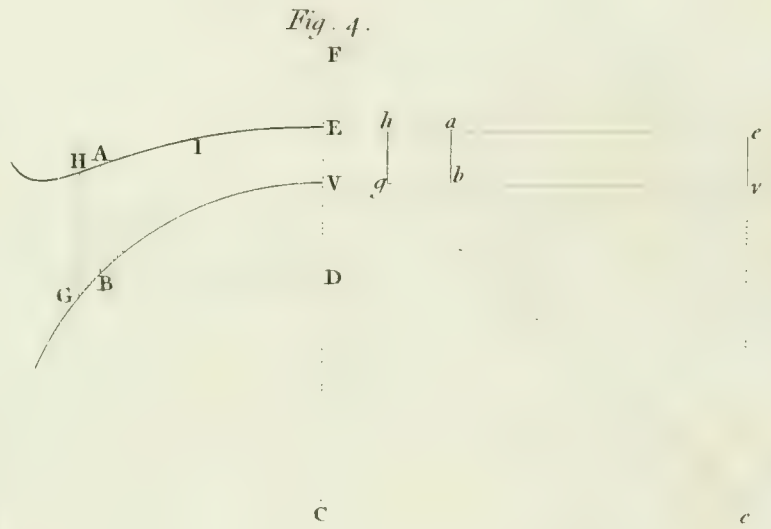
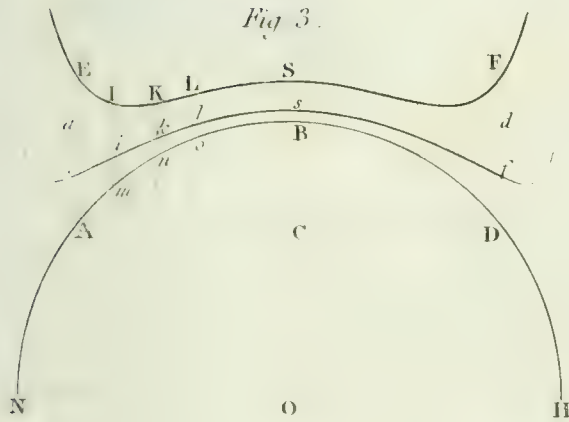
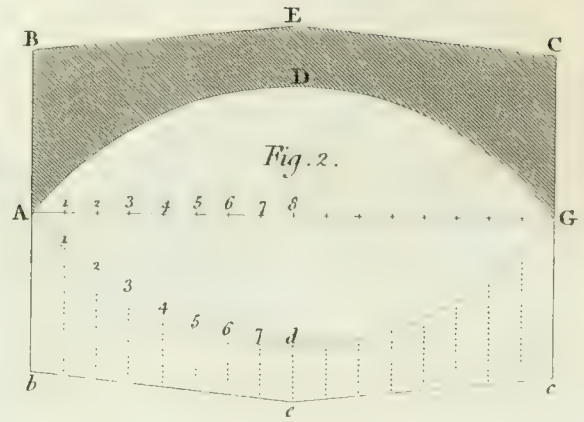
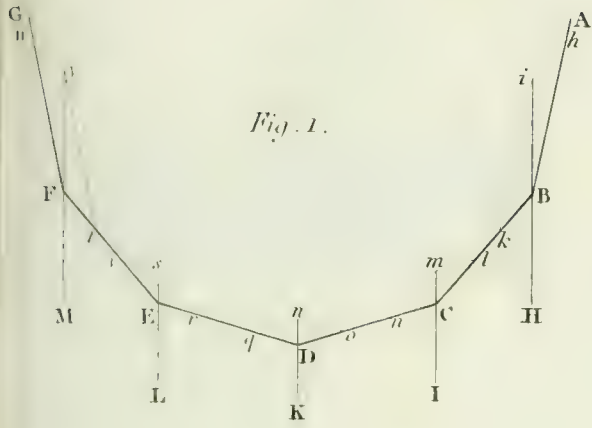


Section





BRIDGE.





OBLIQUE ARCH.

Fig. 1.

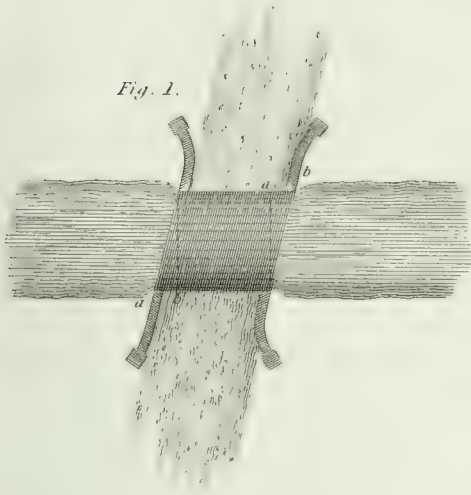


Fig. 2.

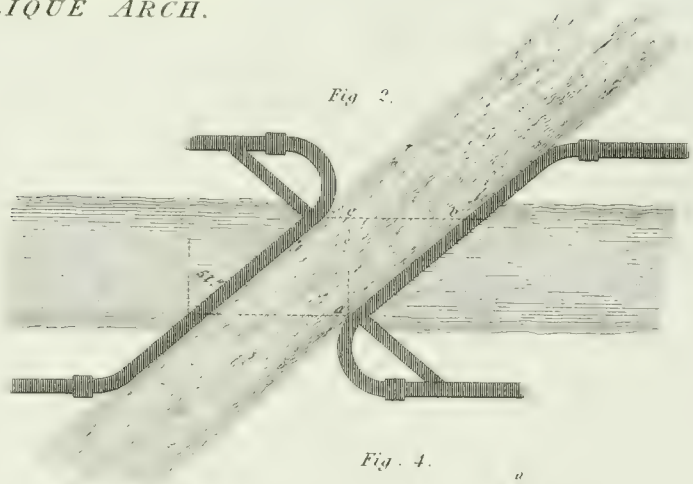


Fig. 3.

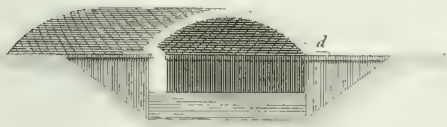


Fig. 5.



Fig. 4.

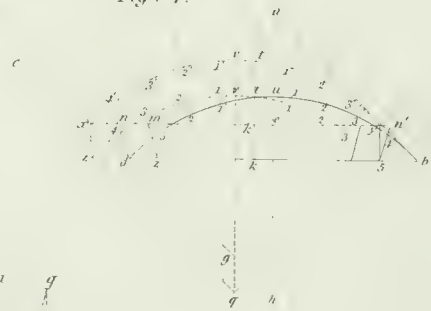


Fig. 8.

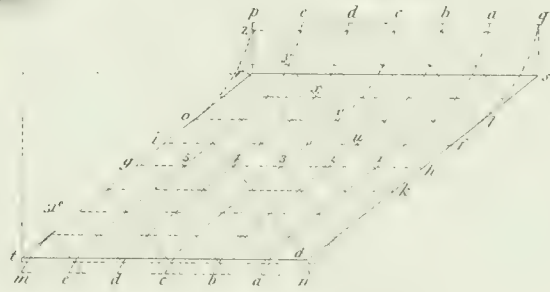


Fig. 7.



Fig. 6.



Fig. 9.

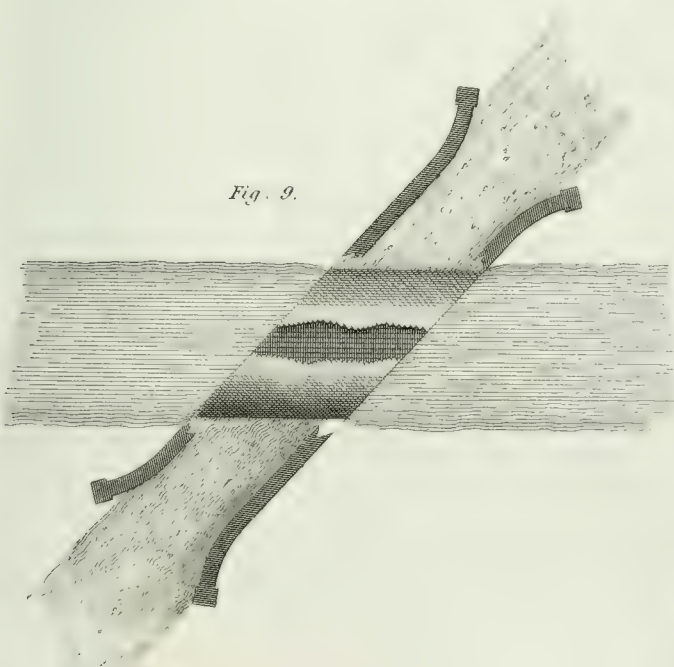
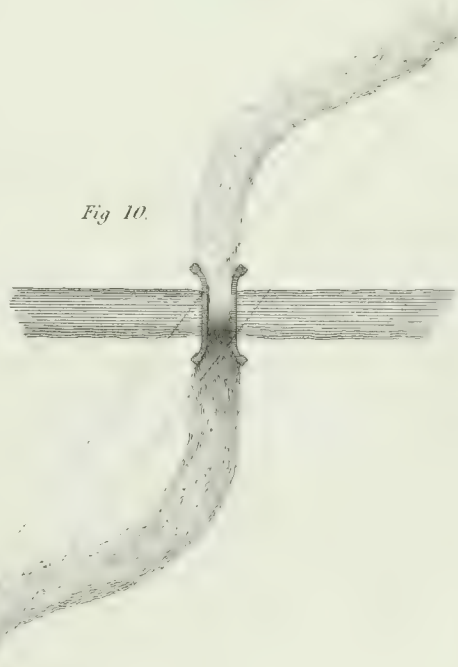
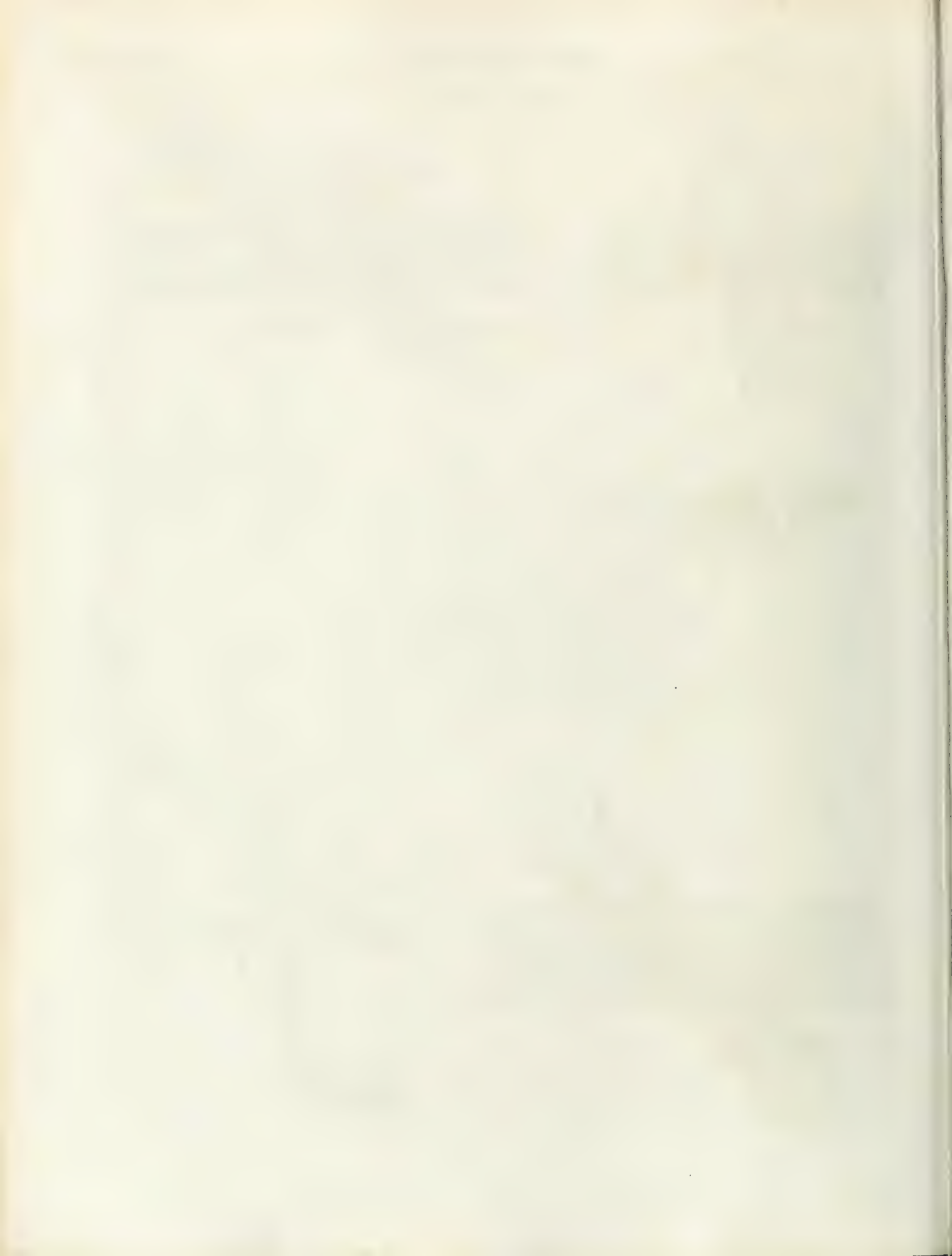
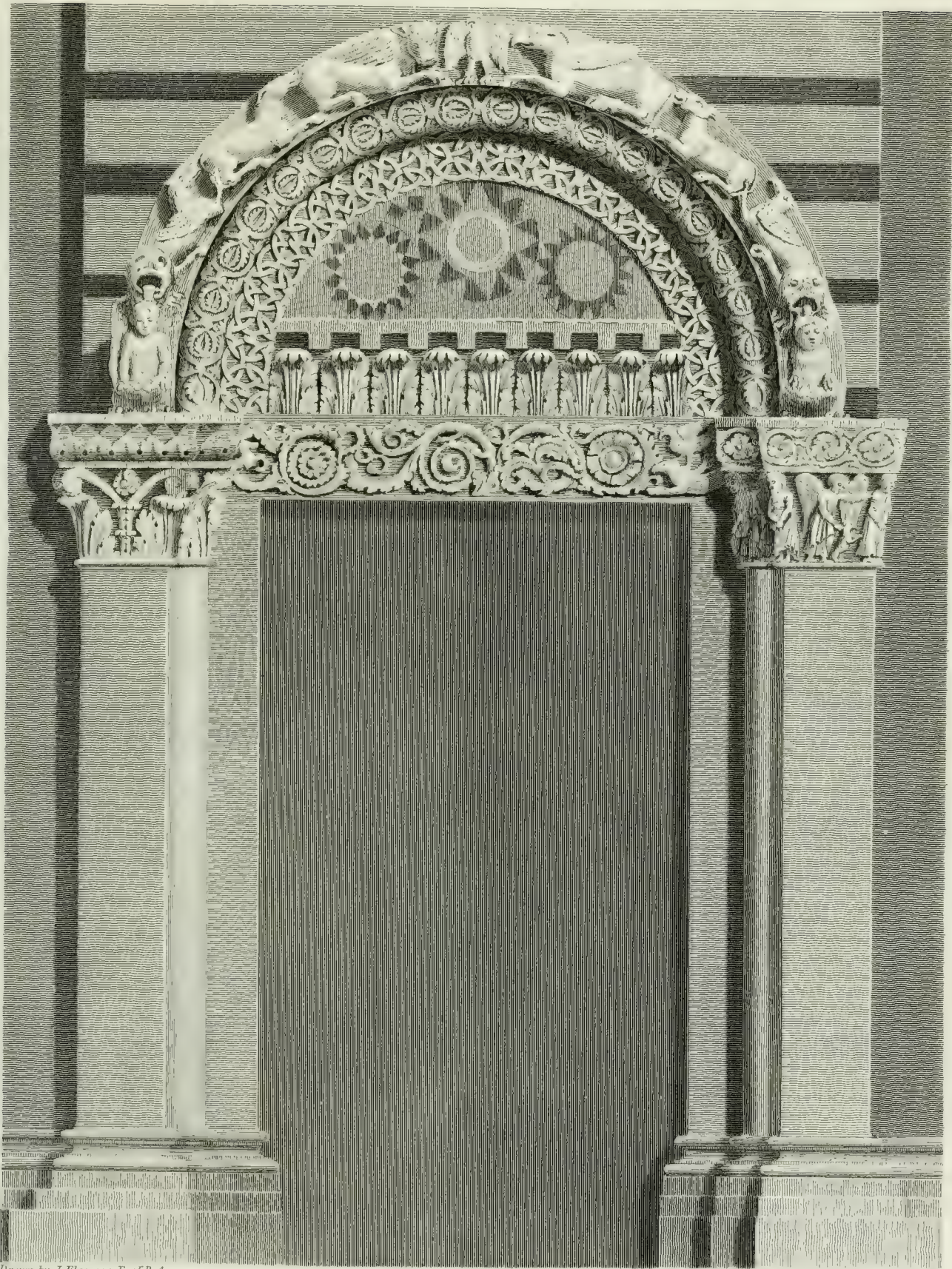


Fig. 10.





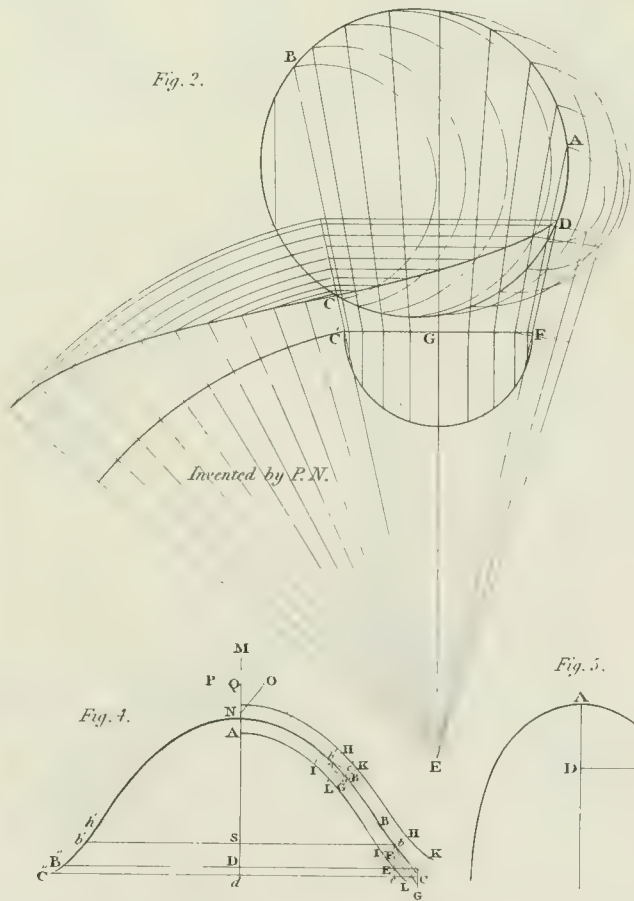
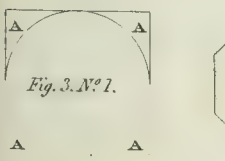
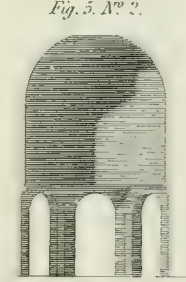
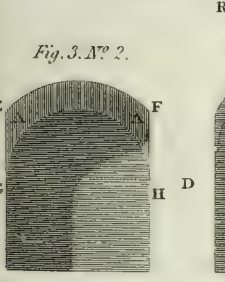
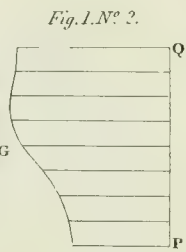
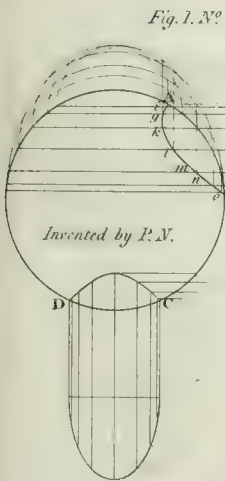
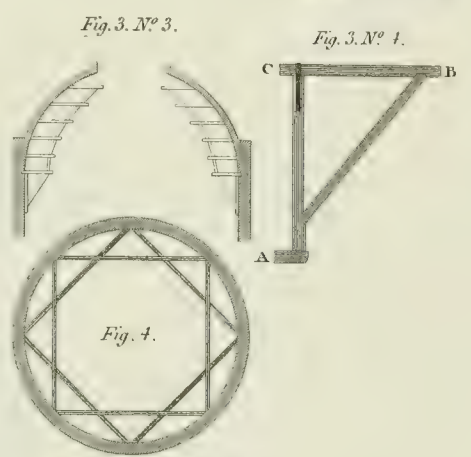
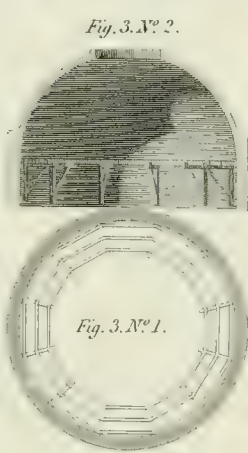
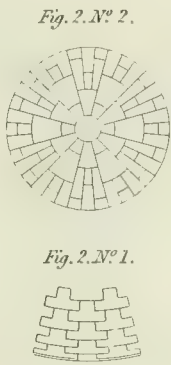
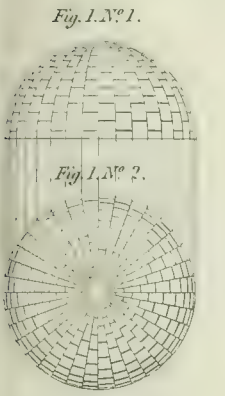
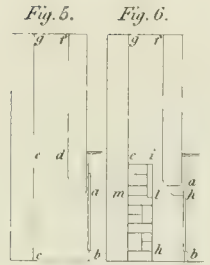
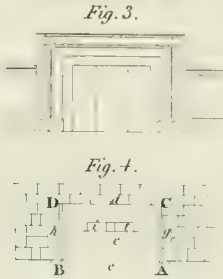
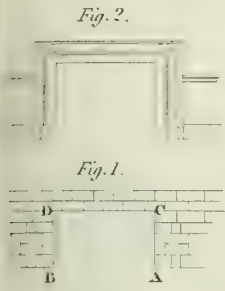


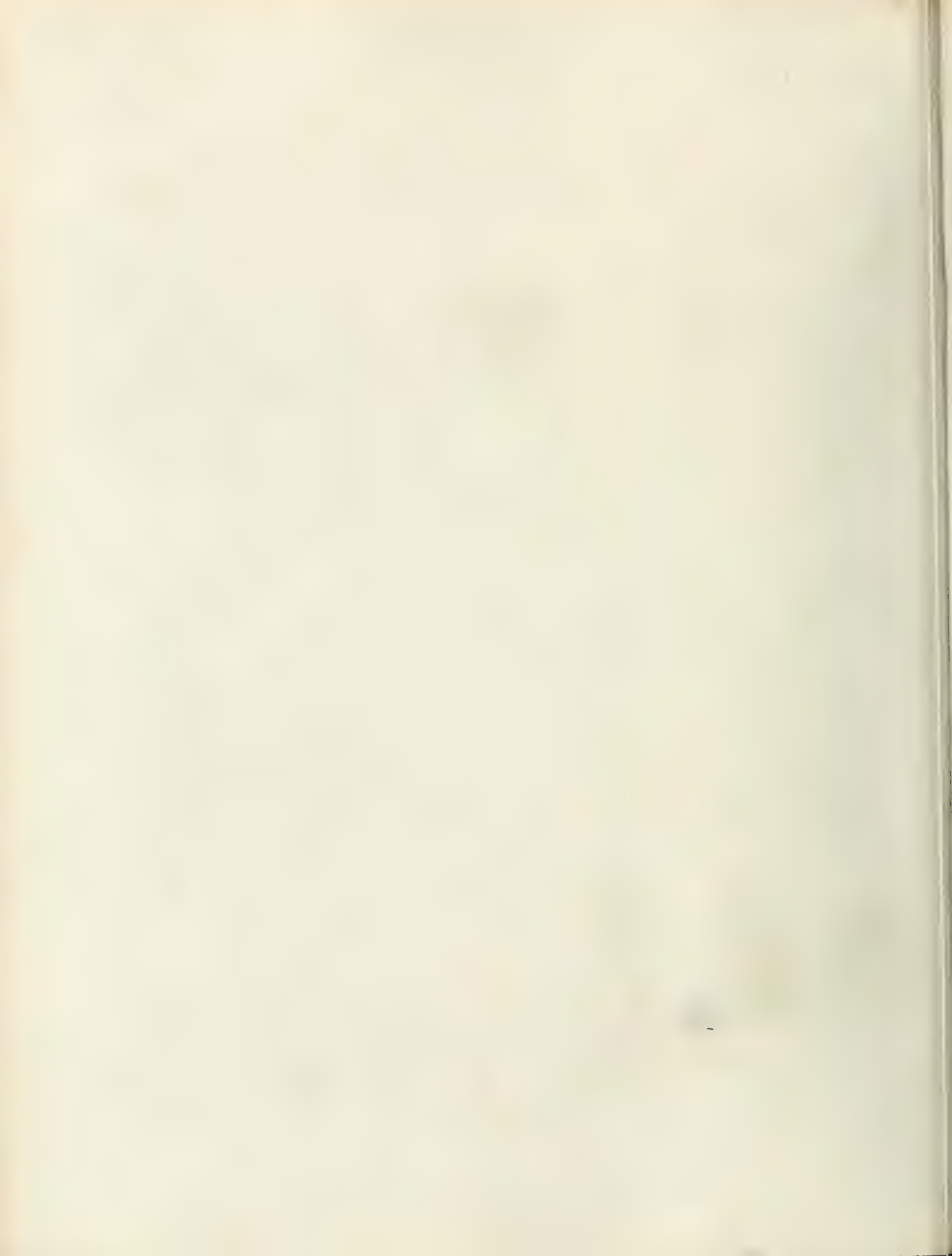
Drawn by J. Flaxman Esq. R.A.

WEST DOOR OF THE CATHEDRAL OF CARRARA.

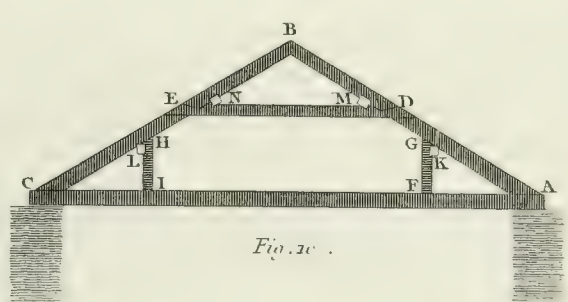
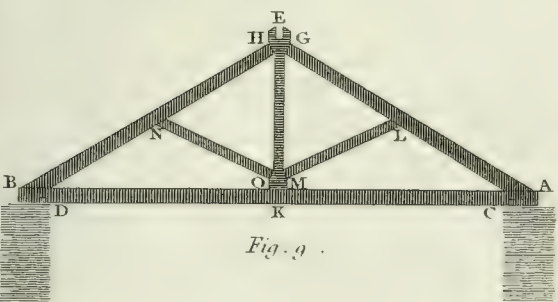
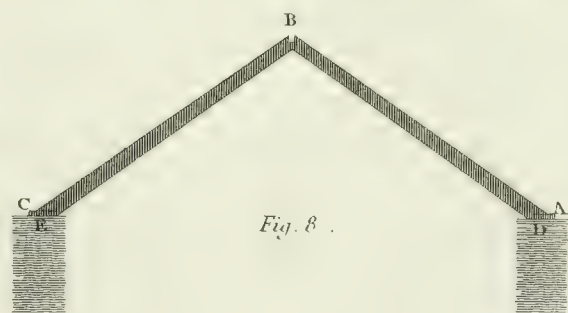
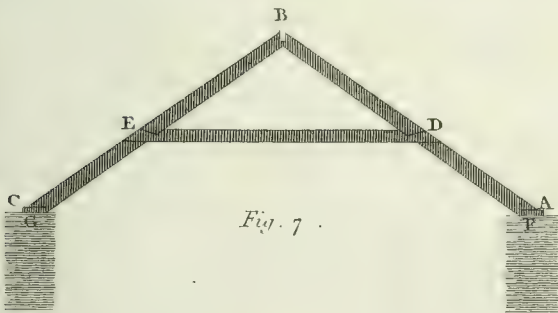
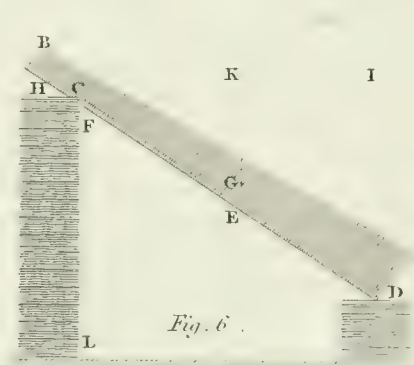
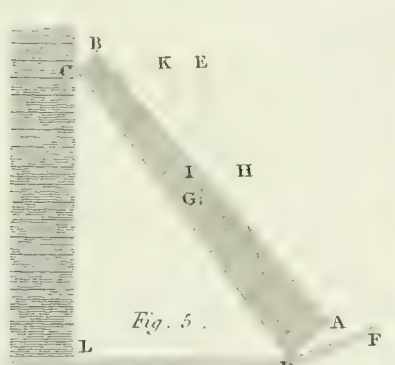
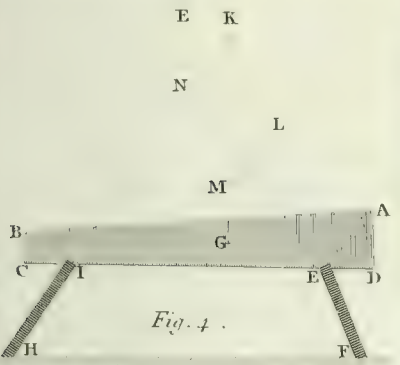
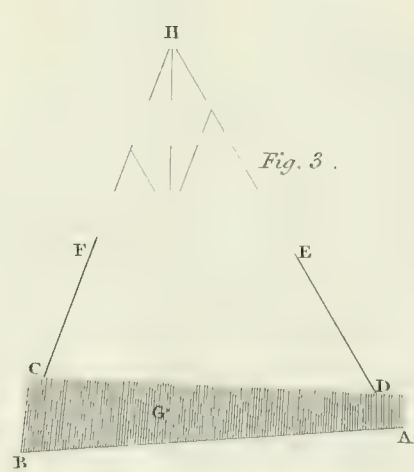
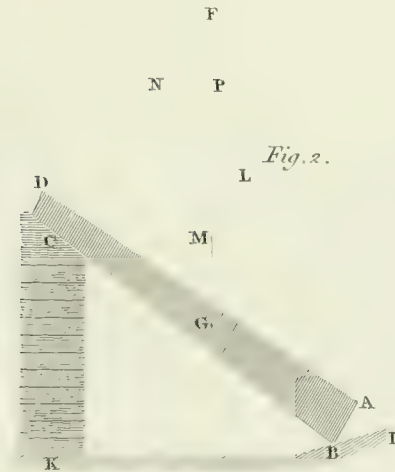
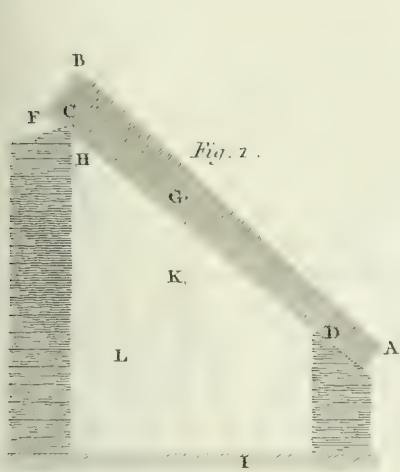
Late in the Duchy of Massa Carrara in Italy, built about the year 1161 or soon after according to the Church Mss.

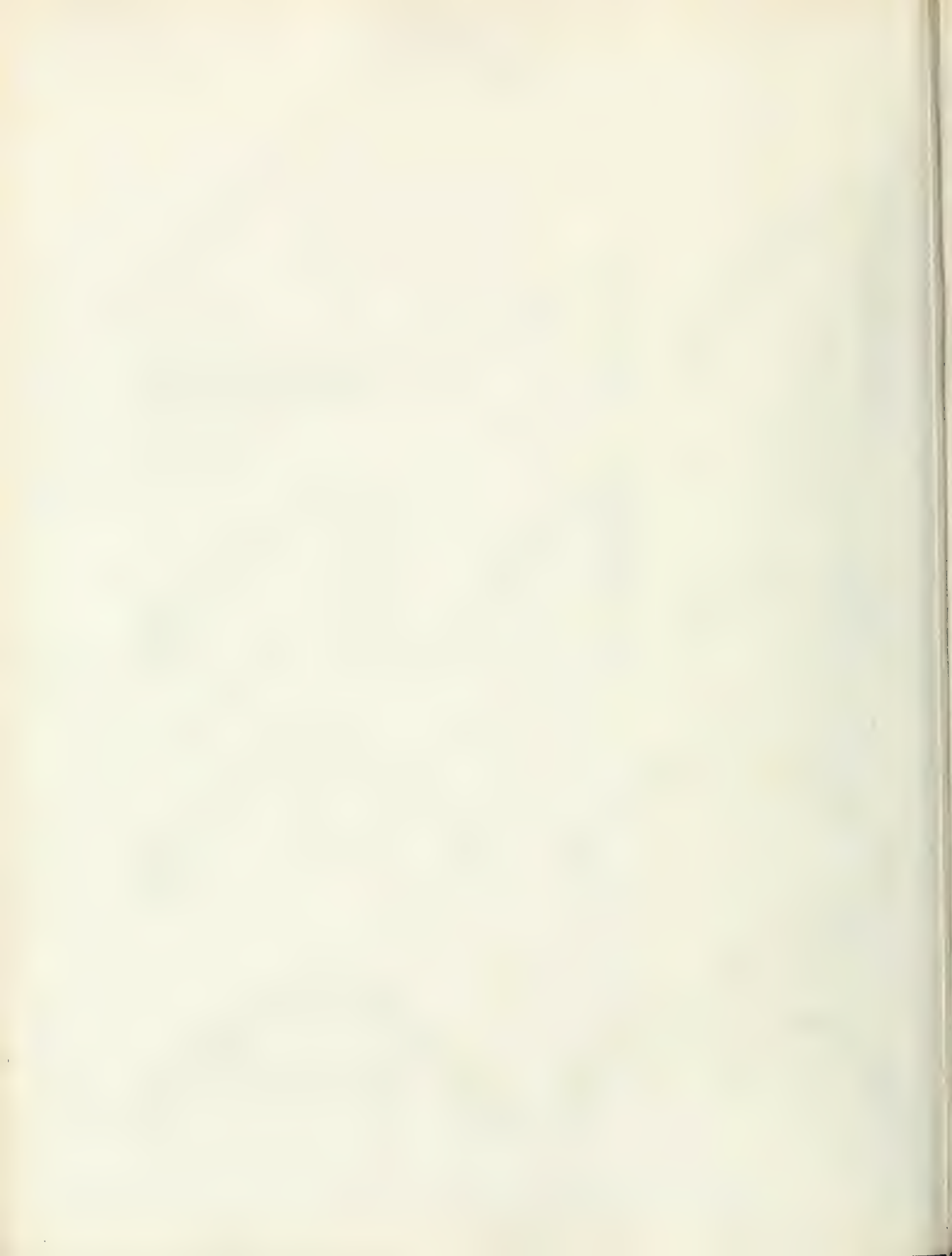






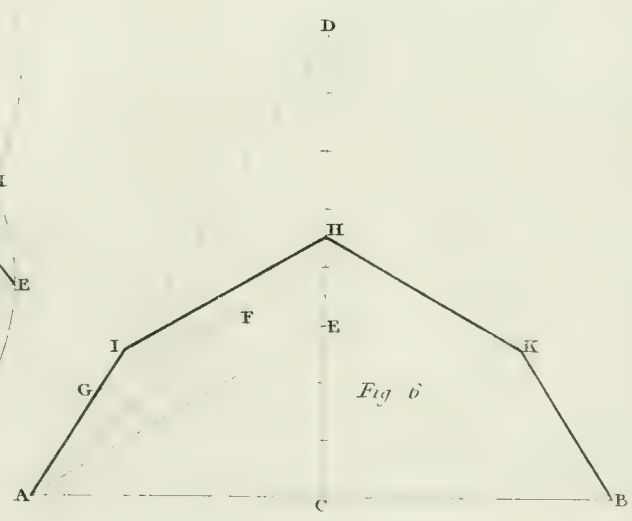
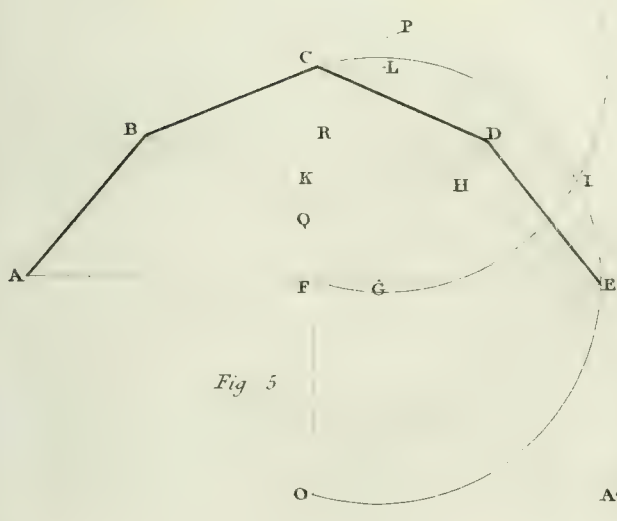
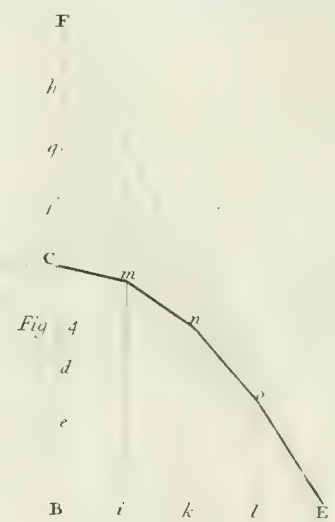
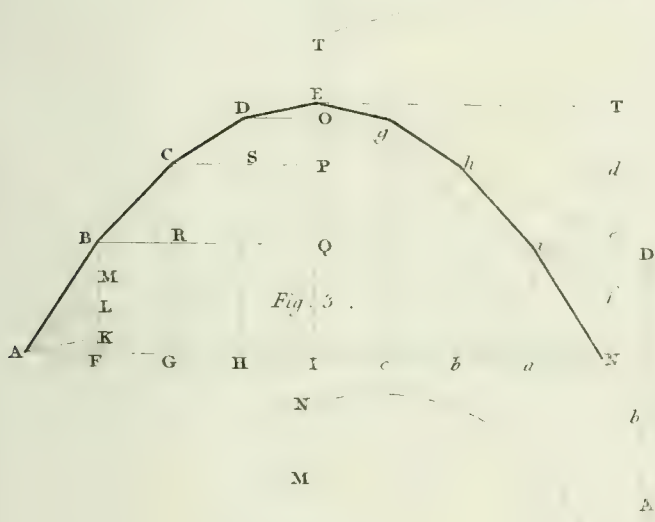
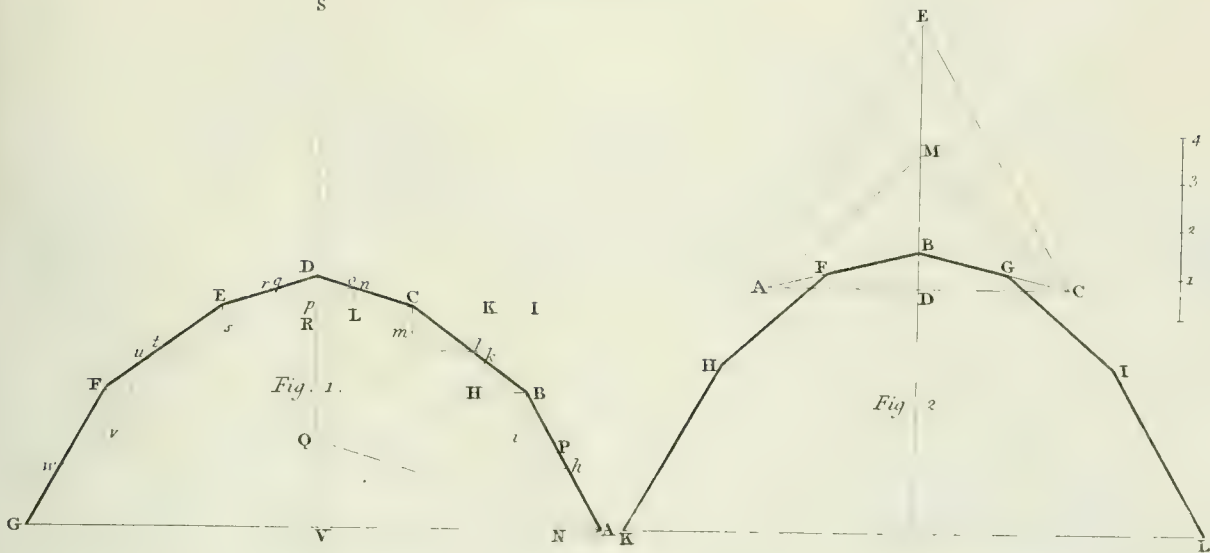
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Fig. 2.

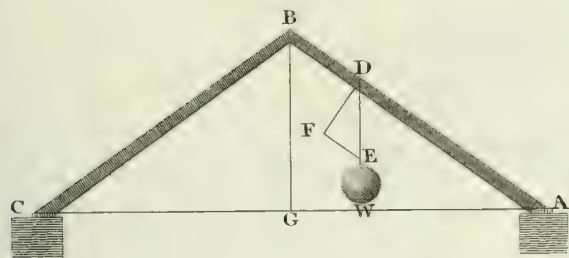


Fig. 1.

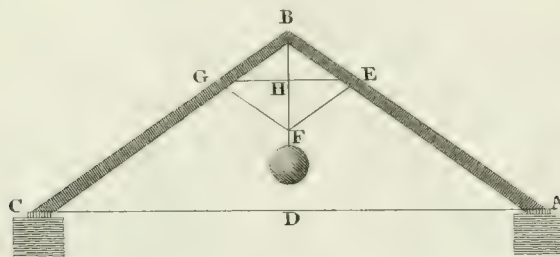


Fig. 4.

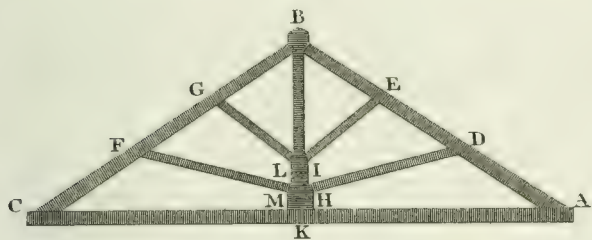


Fig. 3.

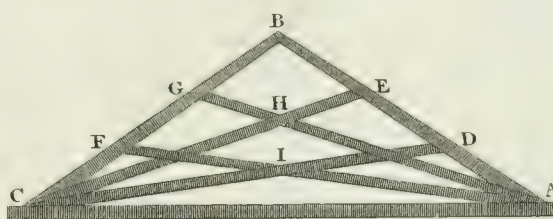


Fig. 6.

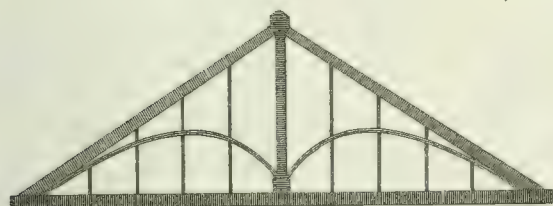


Fig. 5.

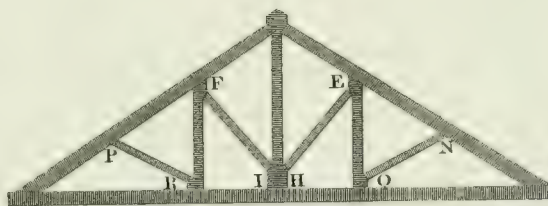


Fig. 8.

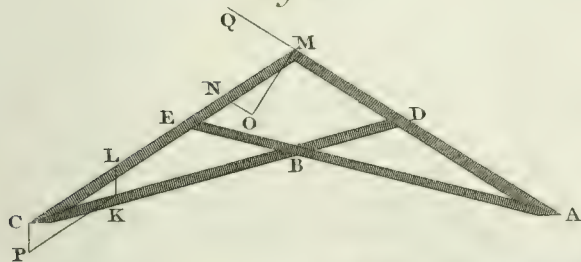


Fig. 7.

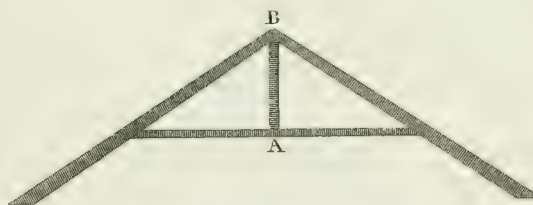
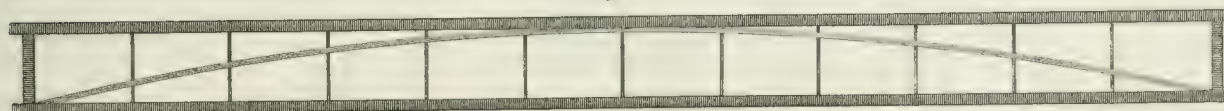


Fig. 9.

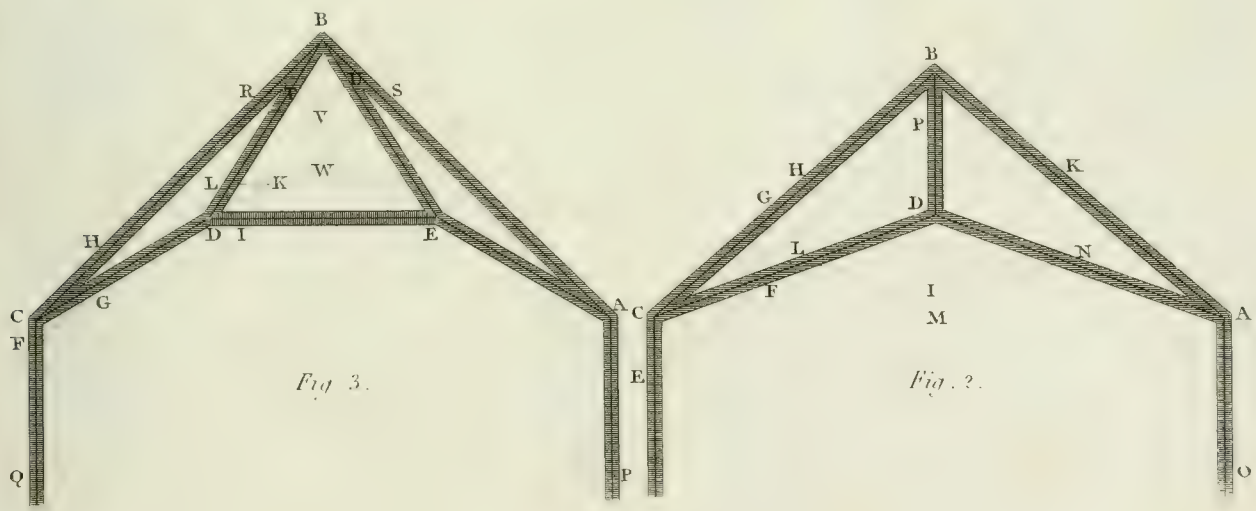
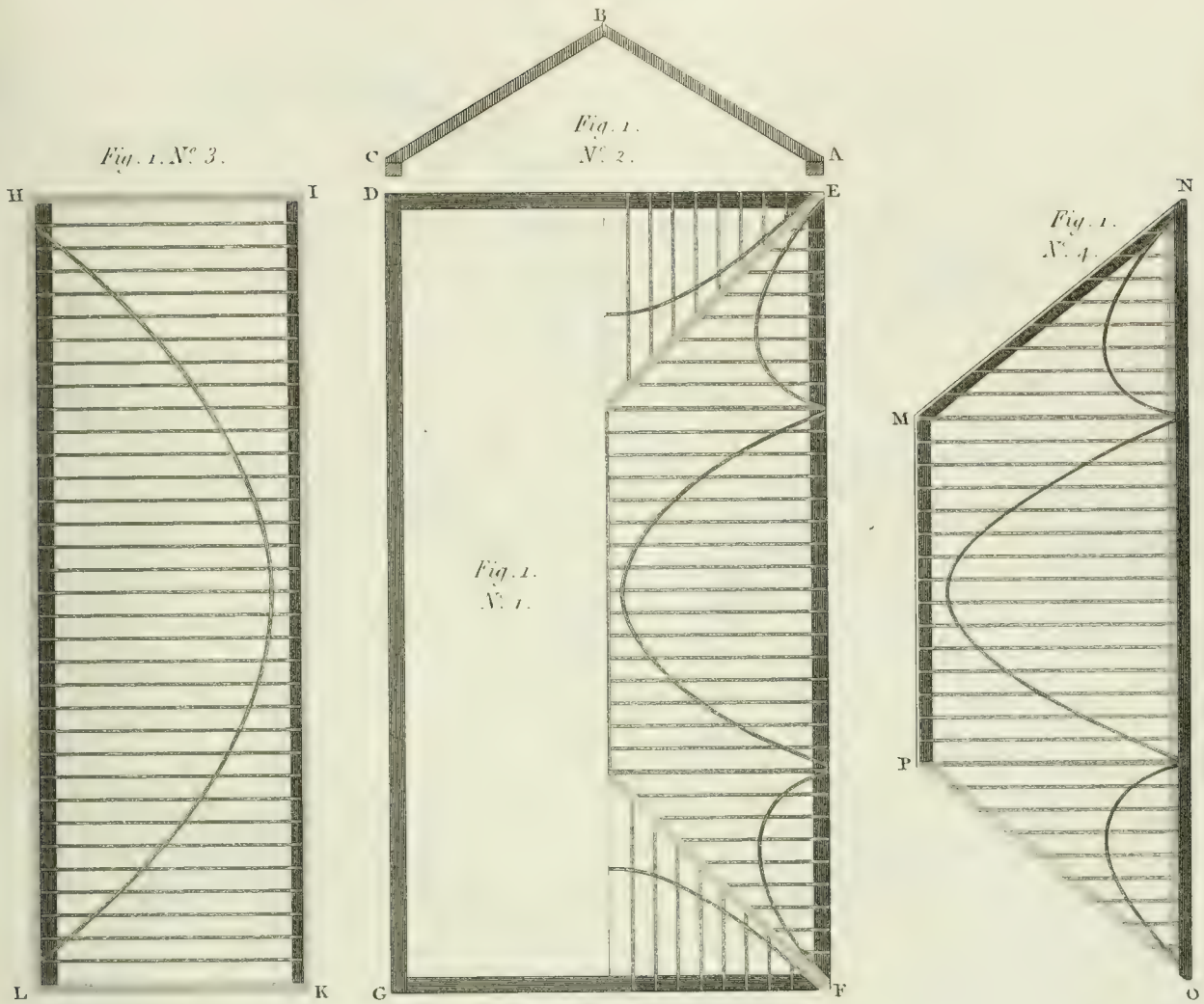


Fig. 10.



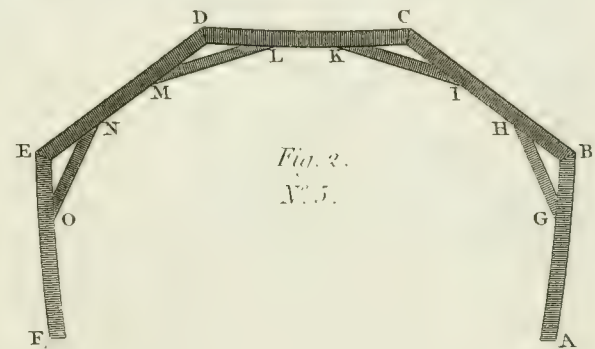
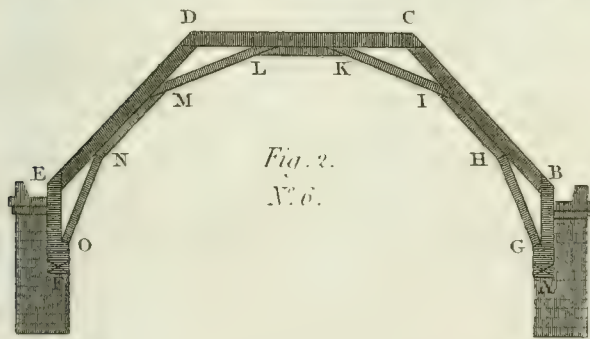
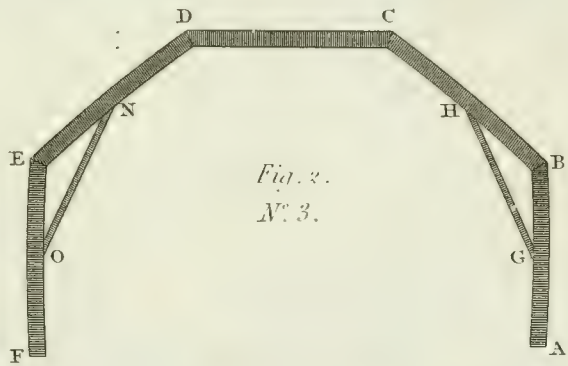
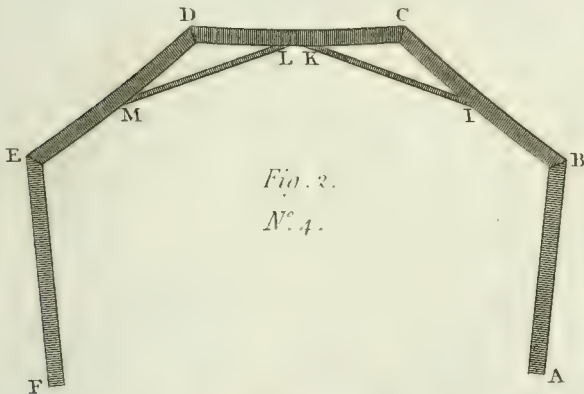
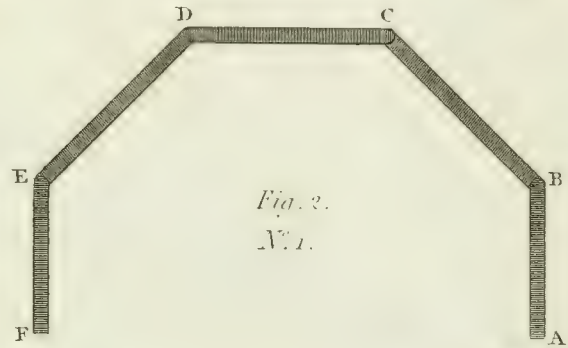
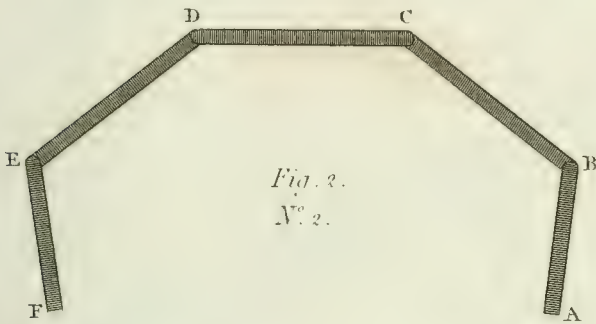
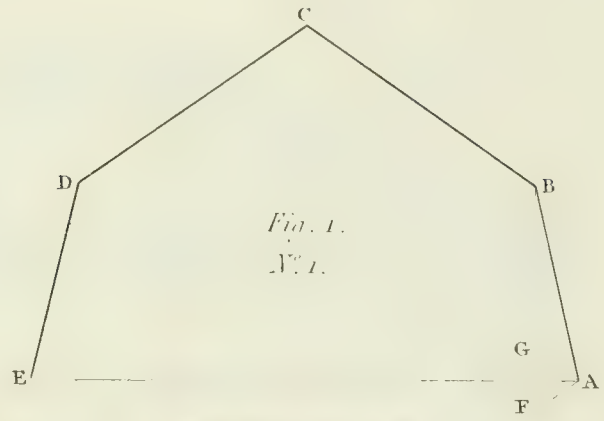
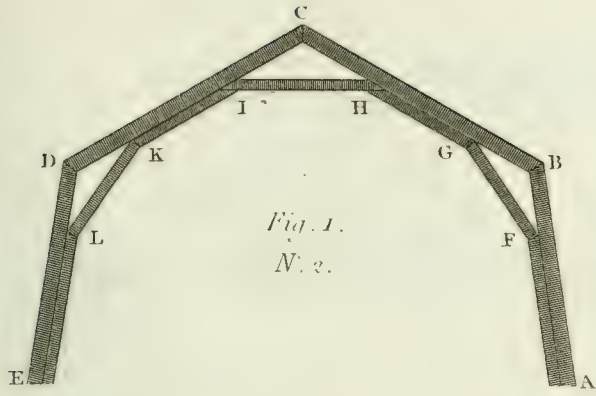


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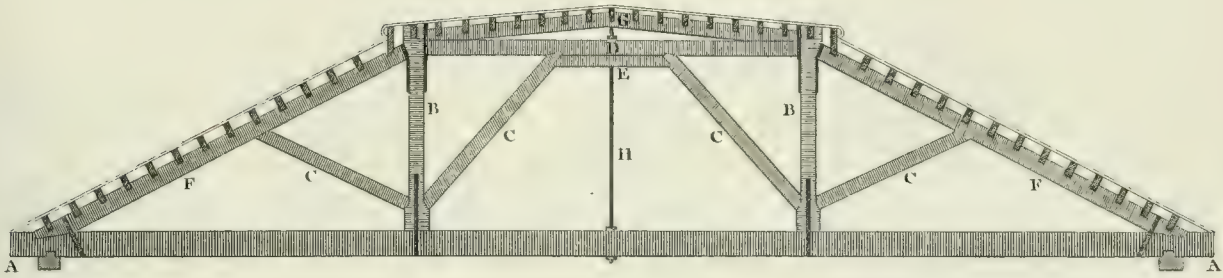


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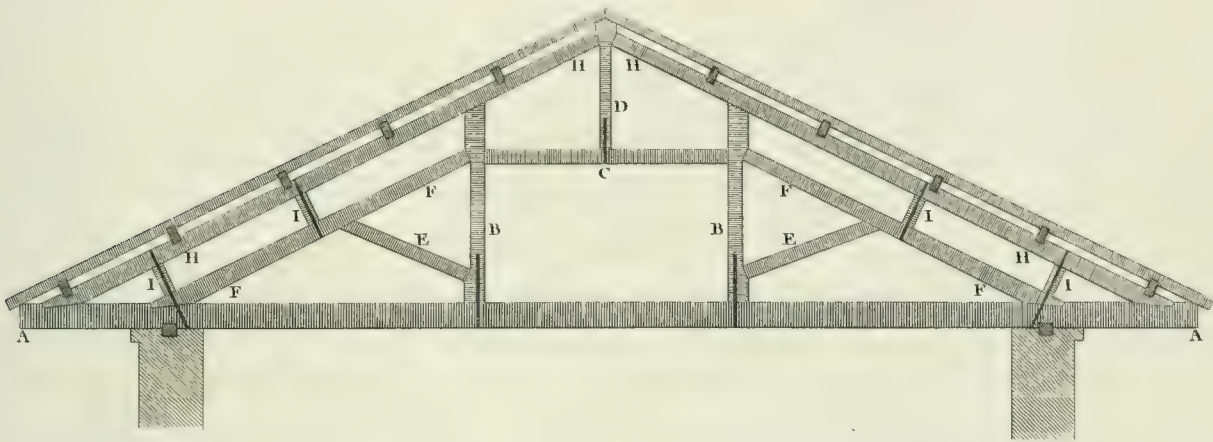
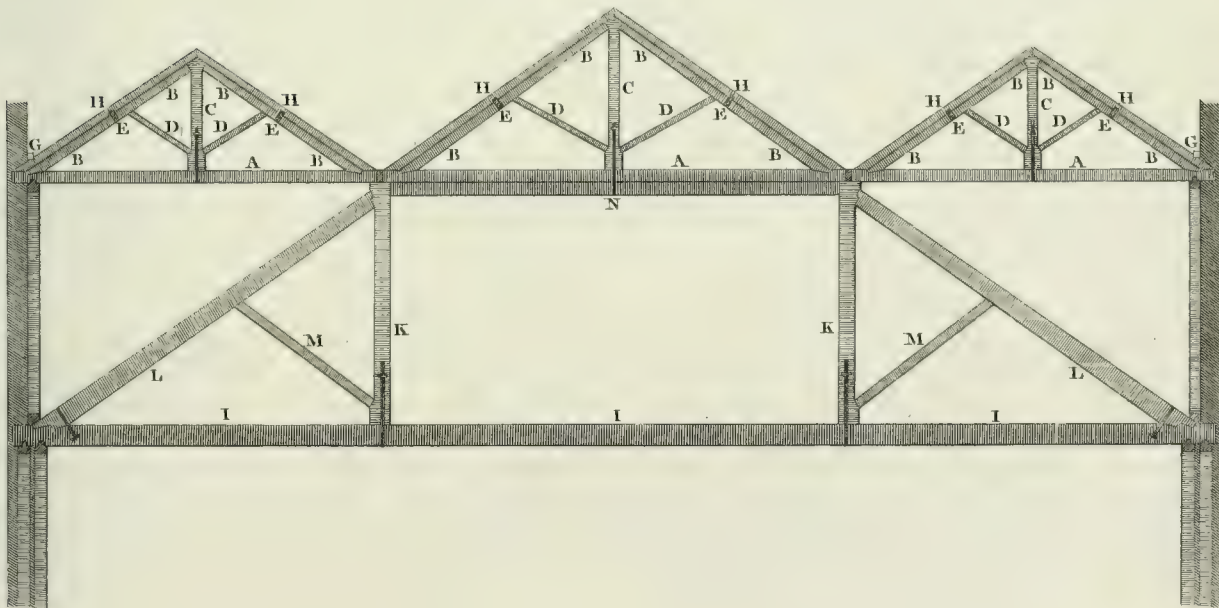


Fig. 3.





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Fig. 2.

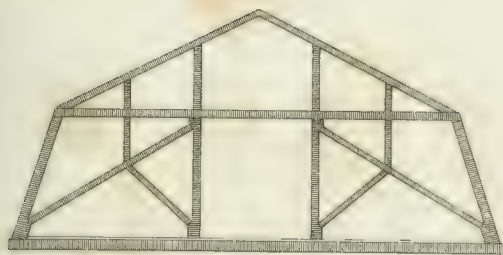


Fig. 1

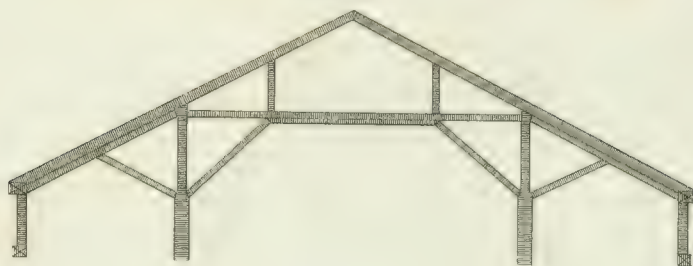


Fig 3.

N^o 2.

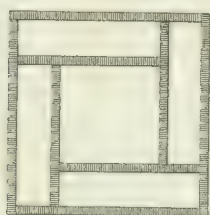


Fig. 4.

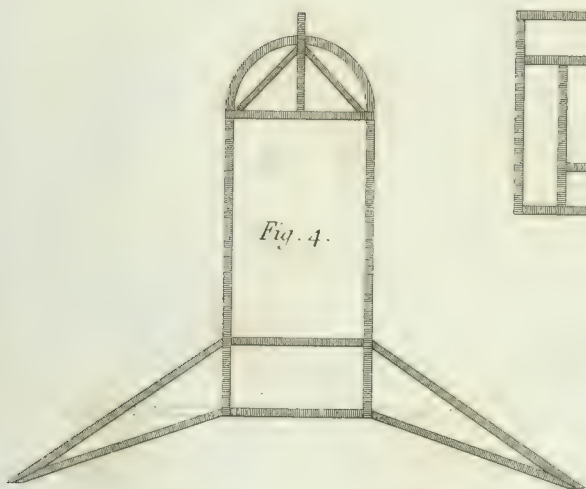


Fig 3.

N^o 1.

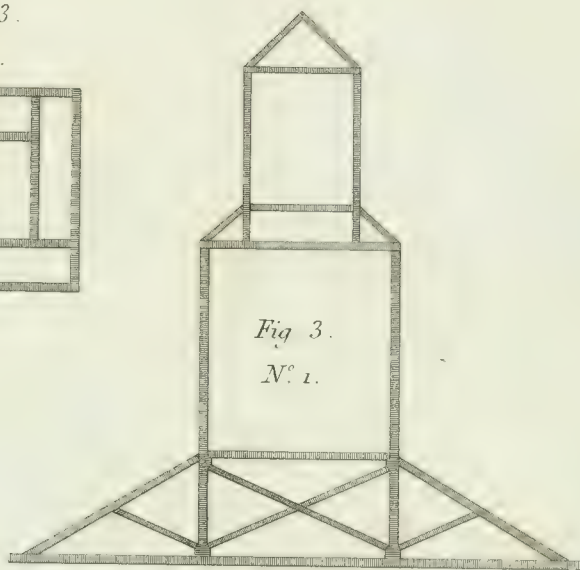


Fig. 5.

N^o 3.

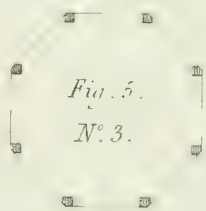


Fig. 5.

N^o 4.

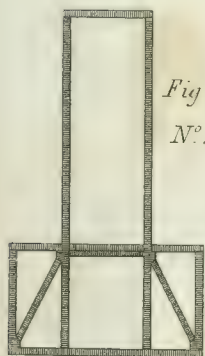
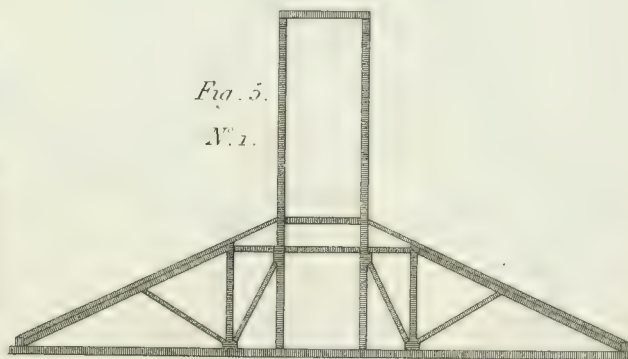
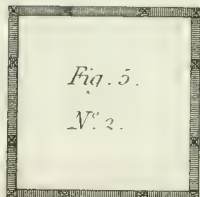


Fig. 5.

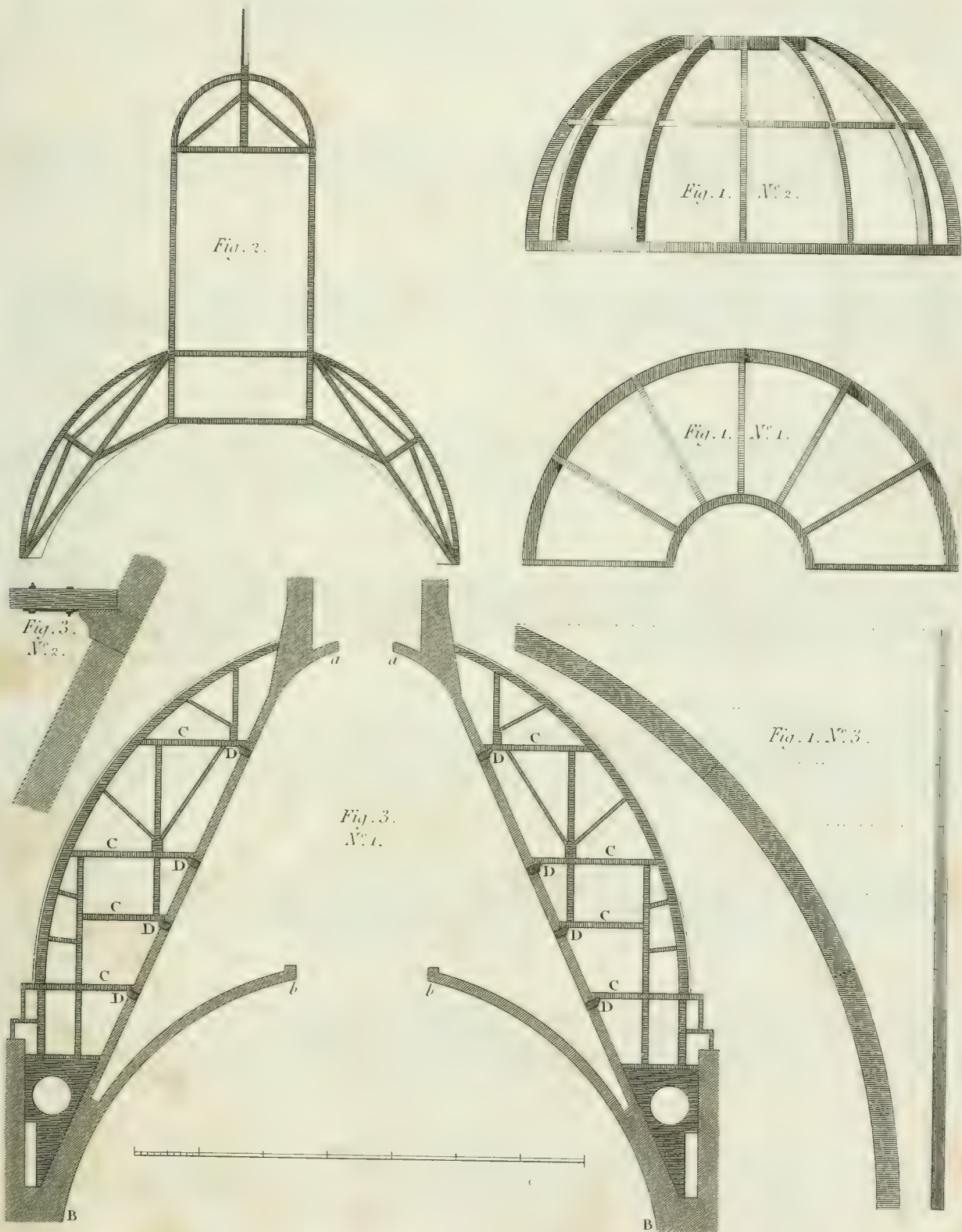
N^o 1.





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Fig. 1.

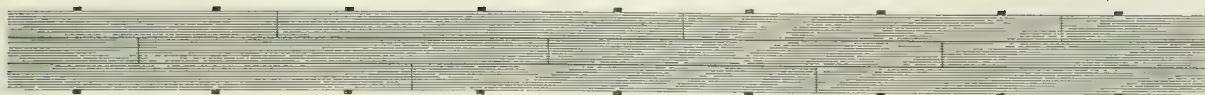


Fig. 3.

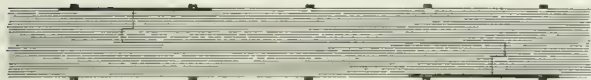


Fig. 2.

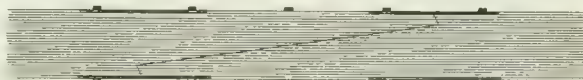


Fig. 5.



Fig. 4.



Fig. 6.

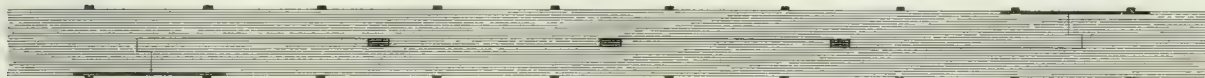


Fig. 7.

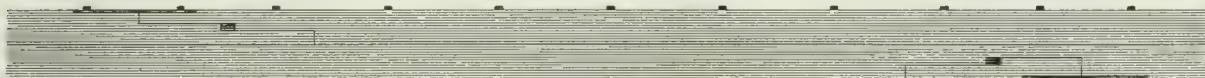


Fig. 8.

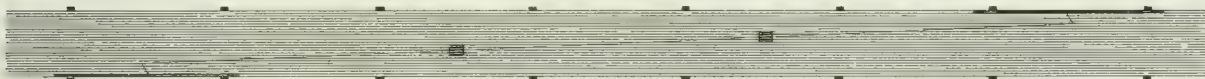


Fig. 9.
Nos 3 & 4.



Fig. 9 N° 1.

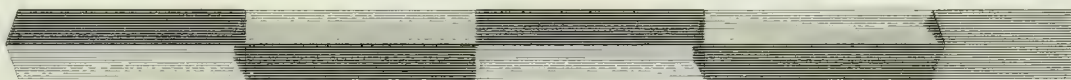


Fig. 9 N° 2.

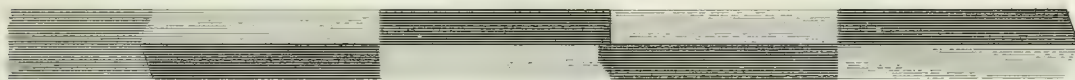
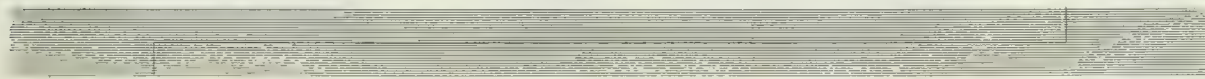
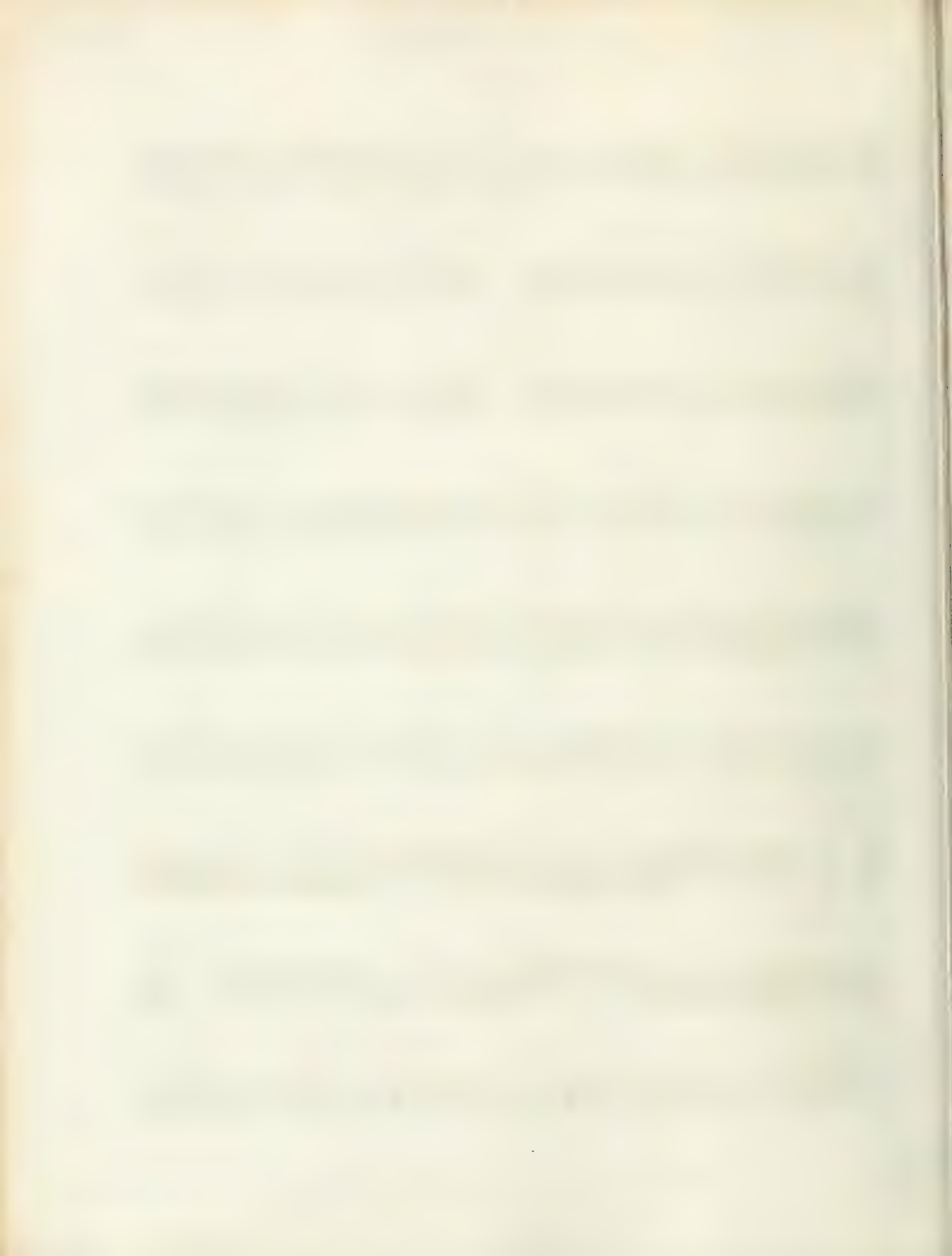


Fig. 9
N° 5.



Fig. 9 N° 6.





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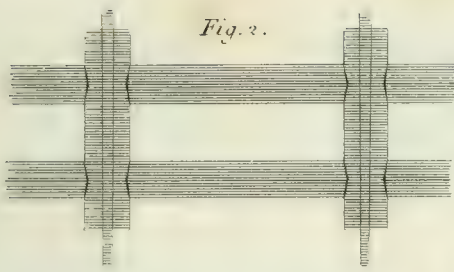


Fig. 2.

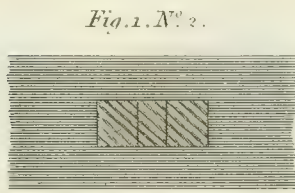


Fig. 1. N° 2.

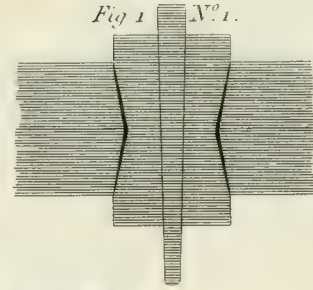


Fig. 1. N° 1.

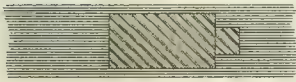


Fig. 4. N° 2.

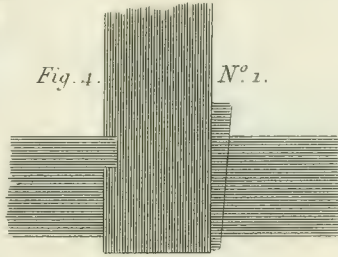


Fig. 4. N° 1.

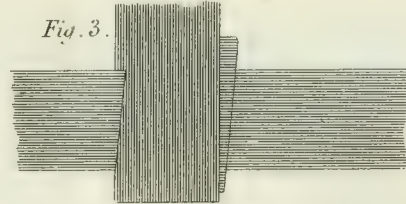


Fig. 3.

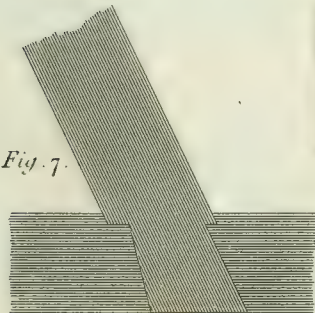


Fig. 7.



Fig. 6. N° 2.

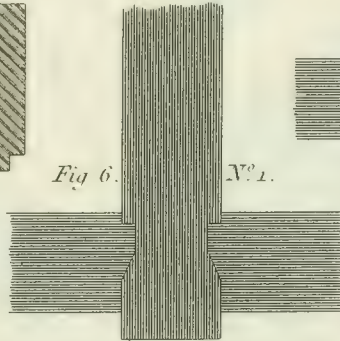


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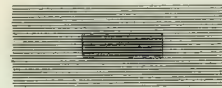


Fig. 5. N° 1.



Fig. 5. N° 2.

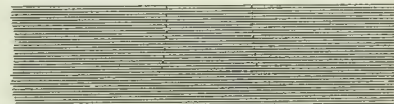


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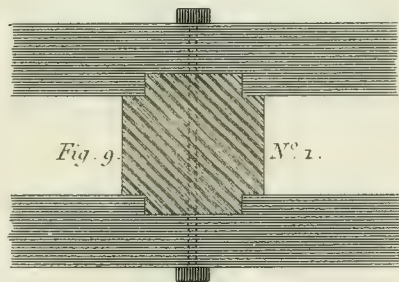
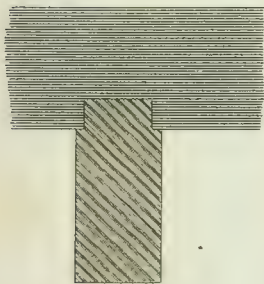


Fig. 9. N° 1.

Fig. 8. N° 1.

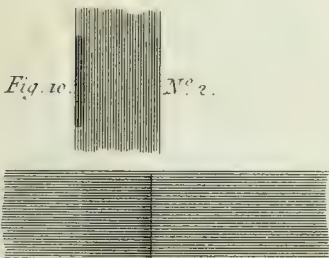
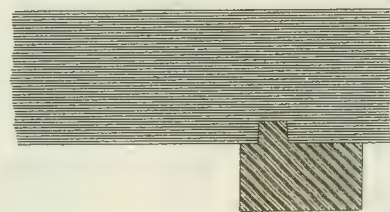


Fig. 10. N° 2.

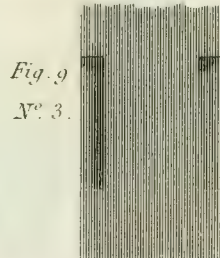


Fig. 9. N° 3.

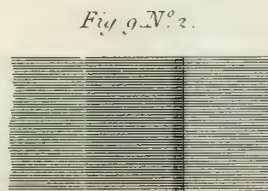


Fig. 9. N° 2.

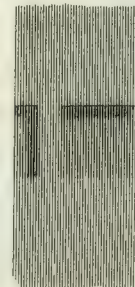


Fig. 8. N° 2.



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Fig. 1.

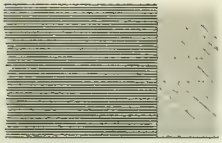


Fig. 2. N. 1.



Fig. 3. N. 1.

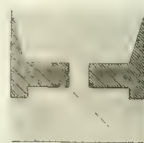


Fig. 4. N. 3.



Fig. 3.

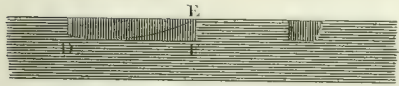
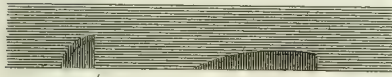


Fig. 3.

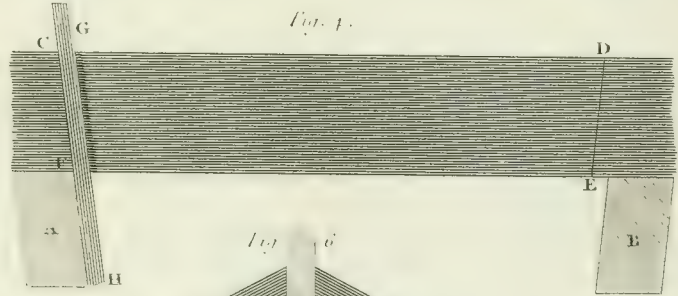
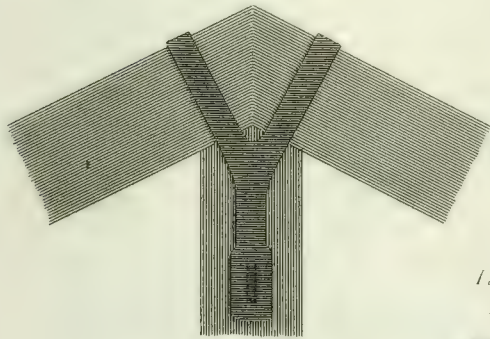


Fig. 4.

Fig. 5.

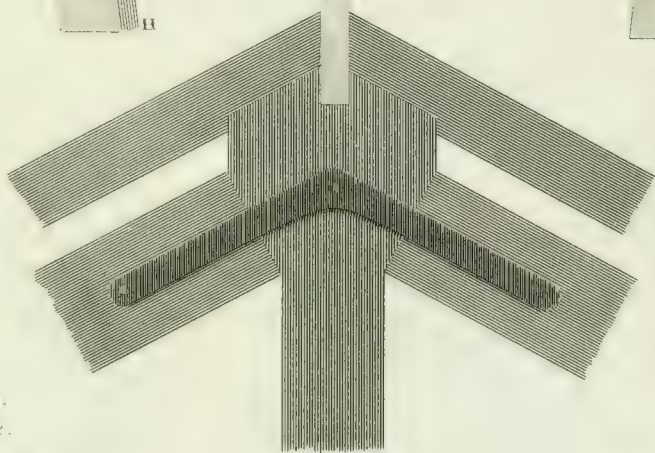


Fig. 7. N. 2.

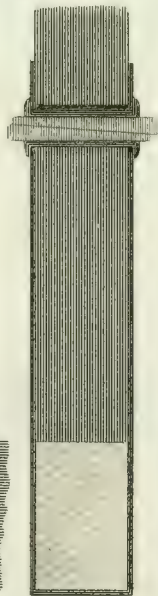


Fig. 7. N. 1.

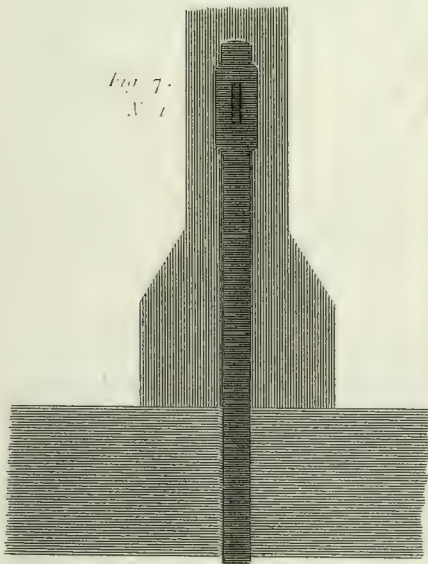


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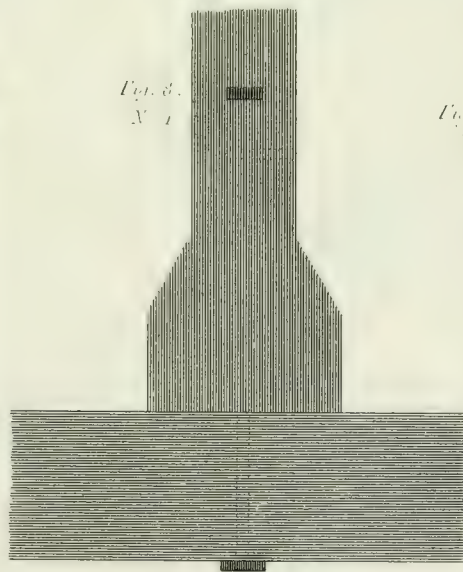
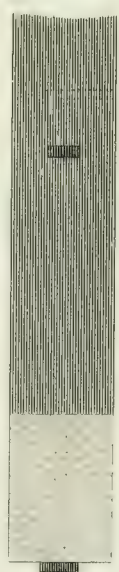


Fig. 8. N. 2.



THE [illegible] OF [illegible]

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[illegible]

CARPENTRY.

Fig. 4. N. 1.

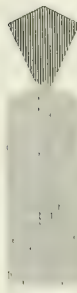


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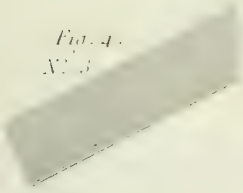


Fig. 4. N. 2.

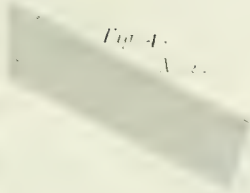


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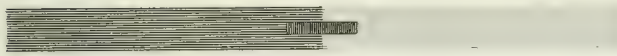


Fig. 1.



Fig. 2.



Fig. 5.

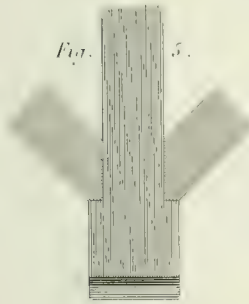


Fig. 3.



Fig. 6.

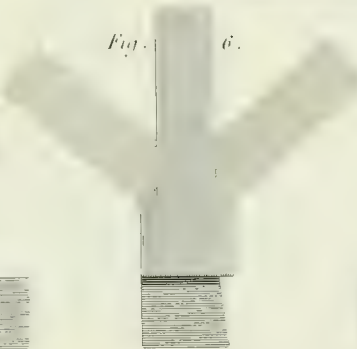


Fig. 8.

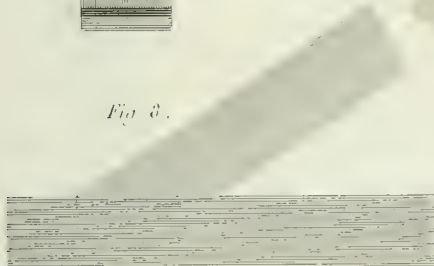


Fig. 7.



Fig. 9. N. 2.

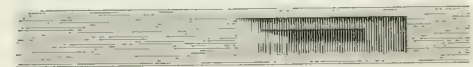


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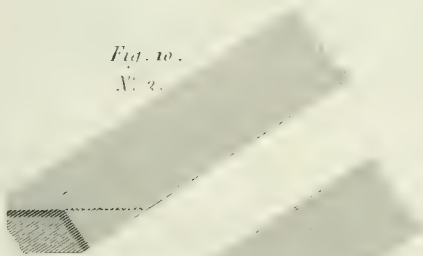


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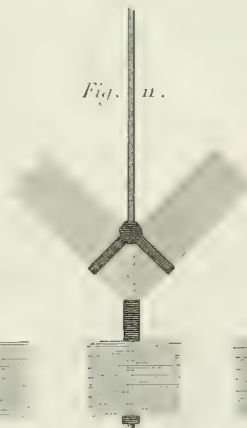


Fig. 10. N. 1.

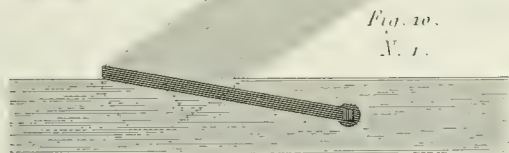
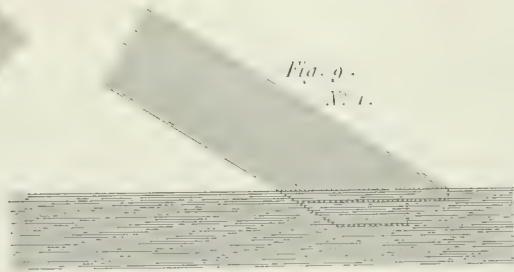
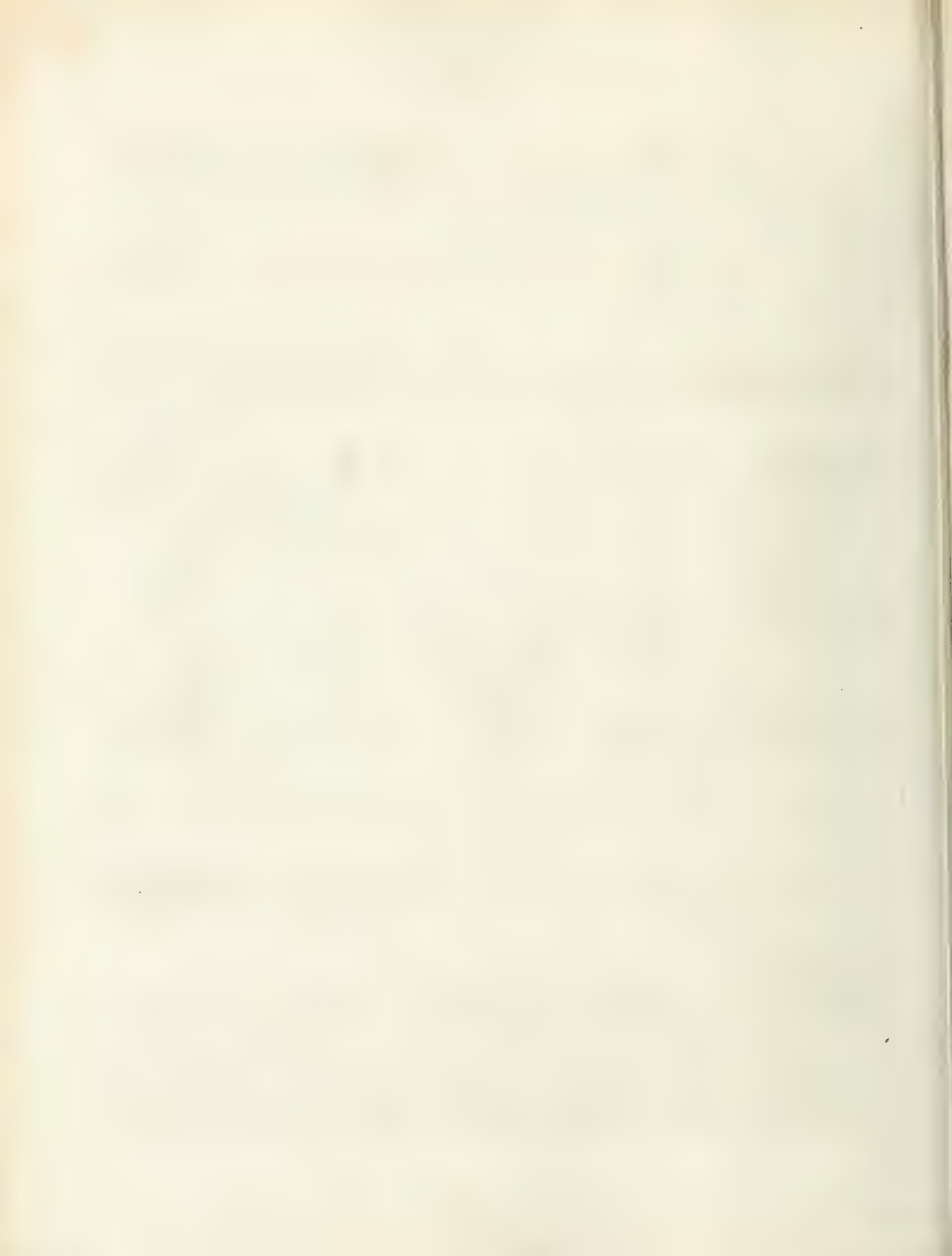


Fig. 9. N. 1.





ARCHITECTURE.

CARPENTRY.

Fig. 1.

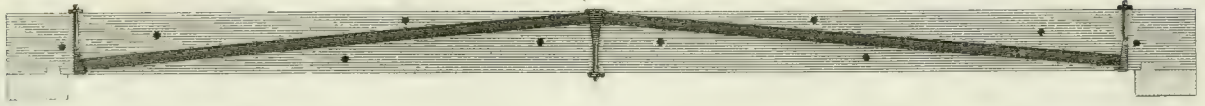


Fig. 2. N° 1.

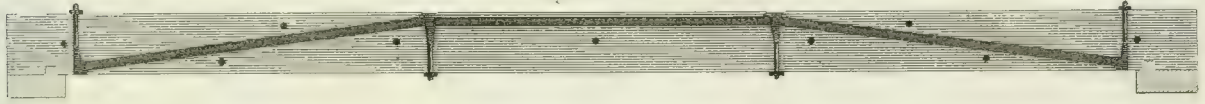


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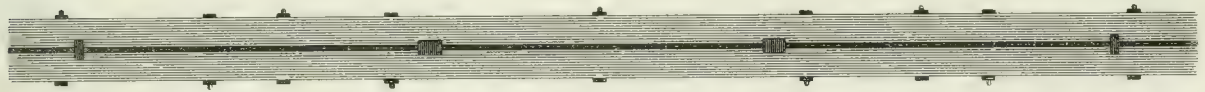


Fig. 2. N° 7.



Fig. 2. N° 6.

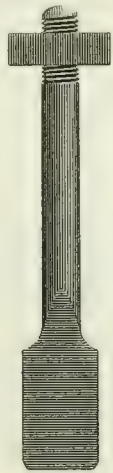


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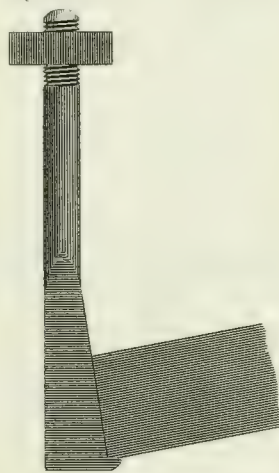


Fig. 2. N° 4.



Fig. 2. N° 3.

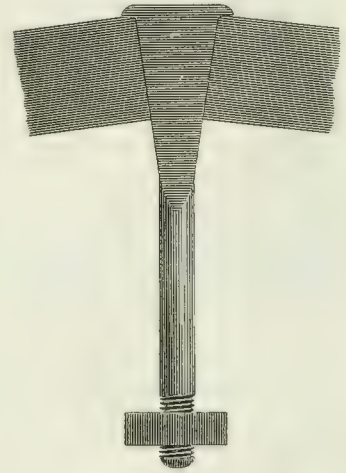


Fig. 3. N° 1.

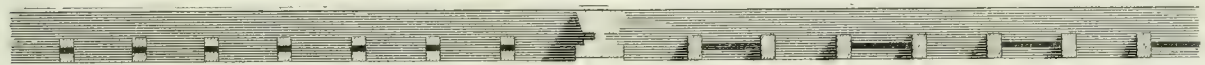


Fig. 3. N° 2.



Fig. 4. N° 1.

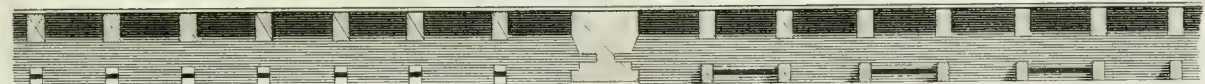
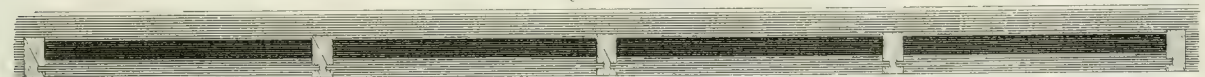
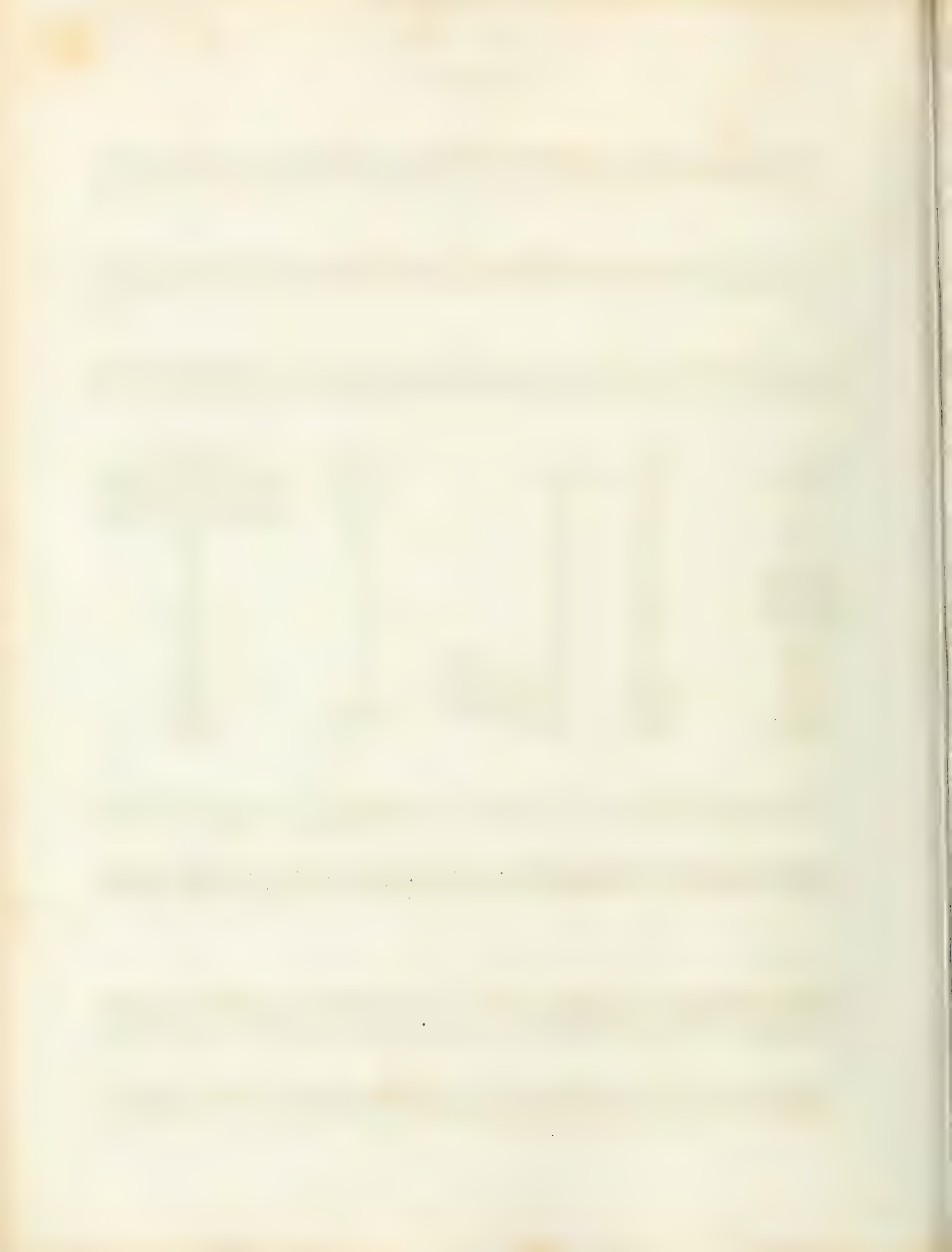
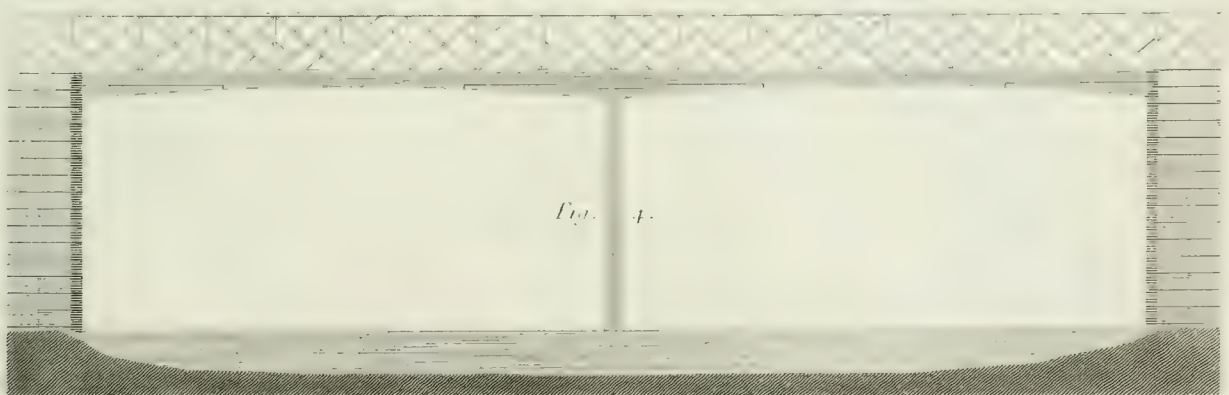
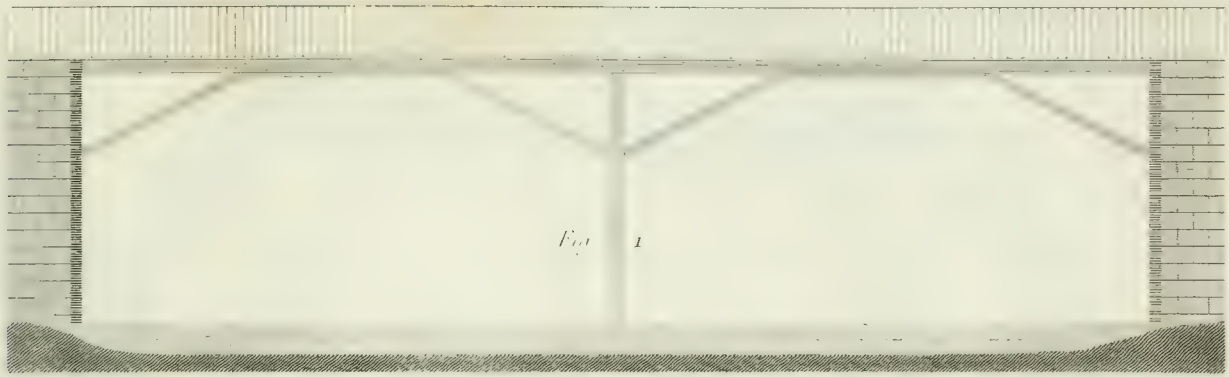


Fig. 4. N° 2.





BRIDGES.





CENTRES.

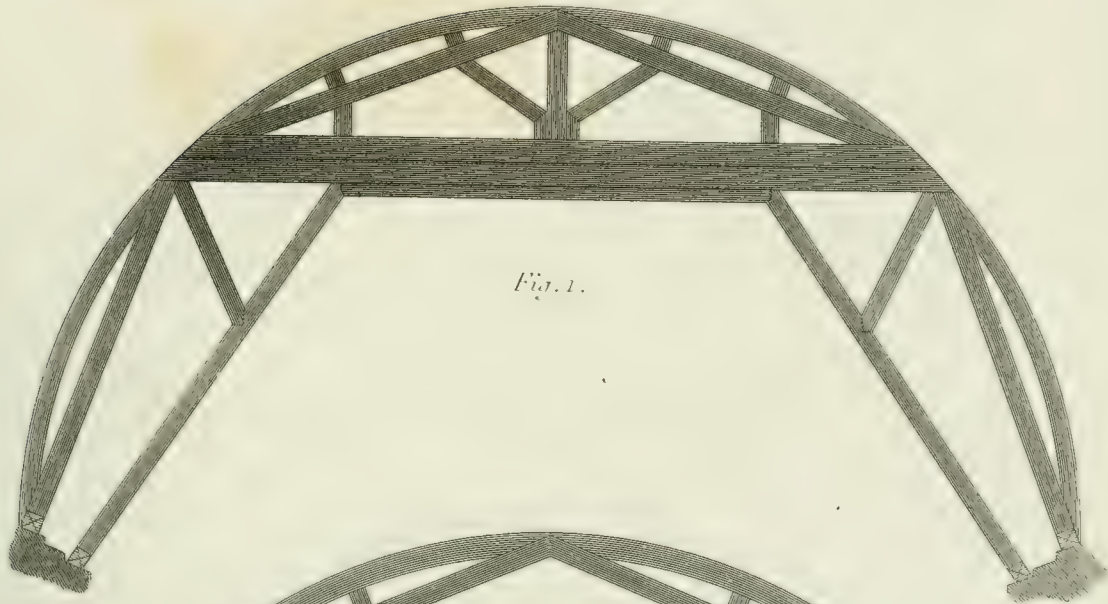


Fig. 1.

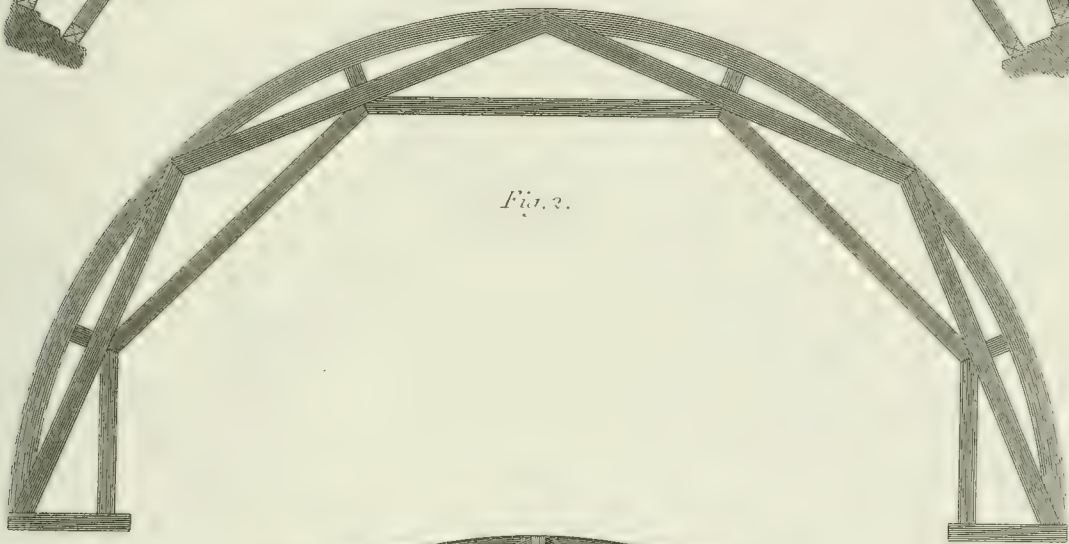


Fig. 2.

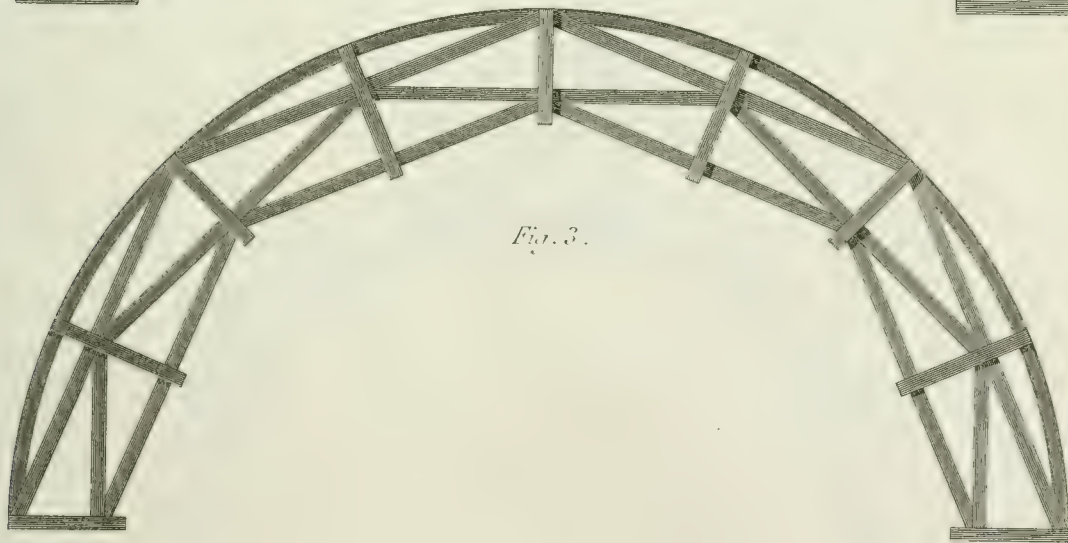


Fig. 3.



CENTRES.



Fig. 1.

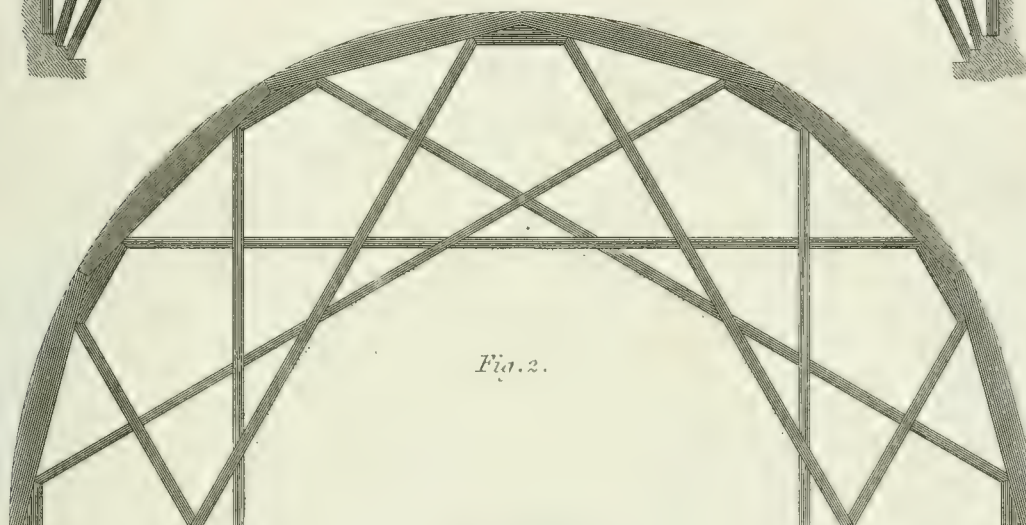


Fig. 2.

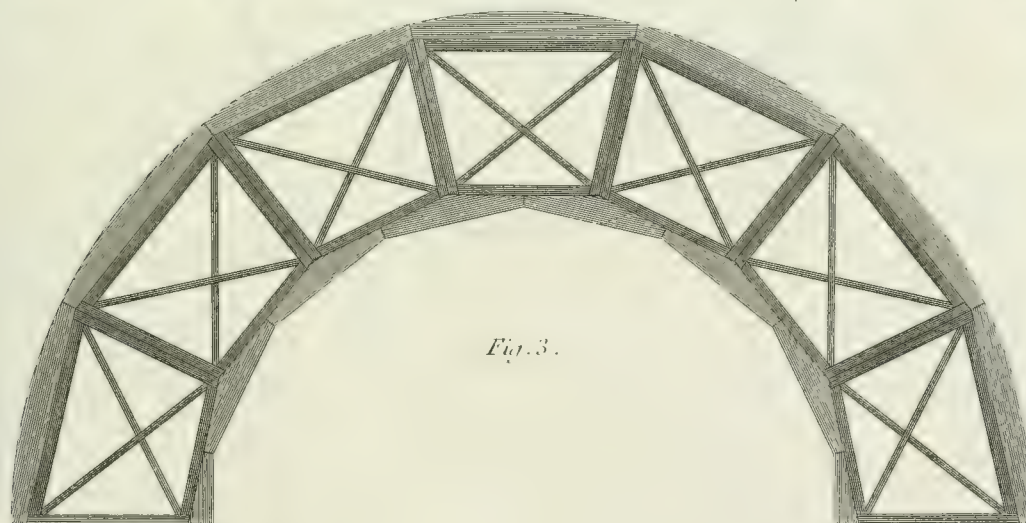


Fig. 3.



CENTRES.



Fig. 1.



Fig. 2.

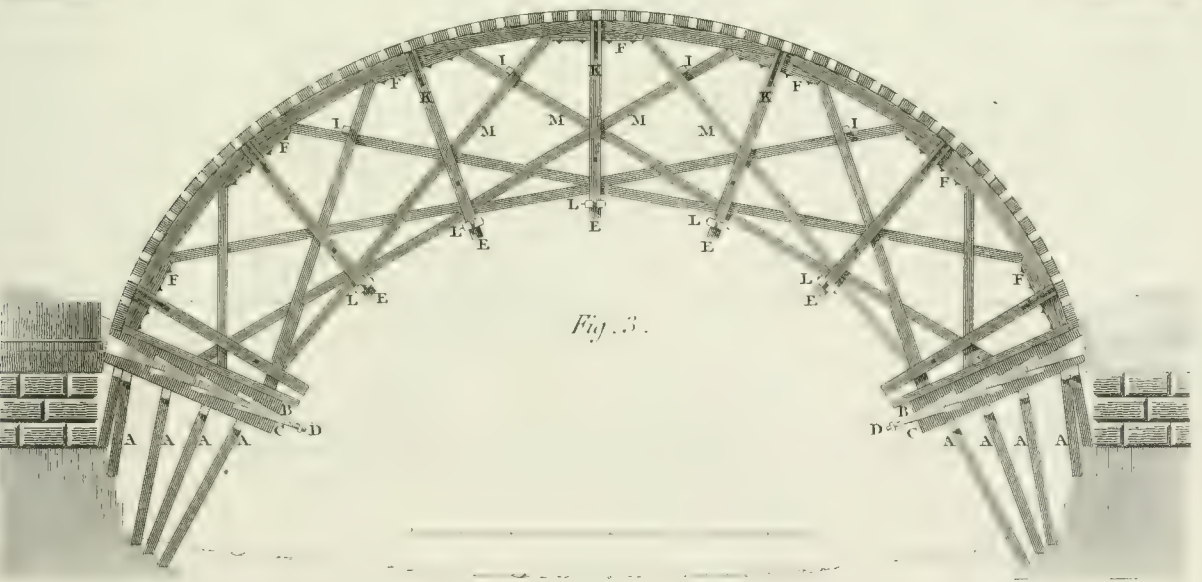


Fig. 3.



ARCHITECTURE.

GEOMETRICAL PRINCIPLES OF CARPENTRY.

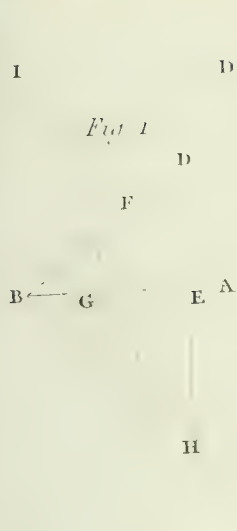


Fig. 1.

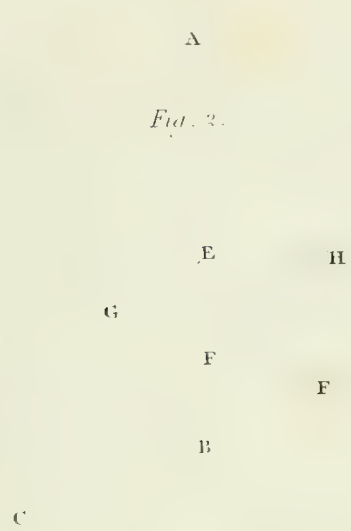


Fig. 2.

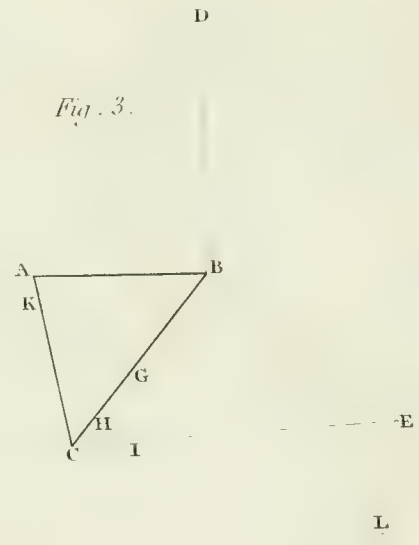


Fig. 3.

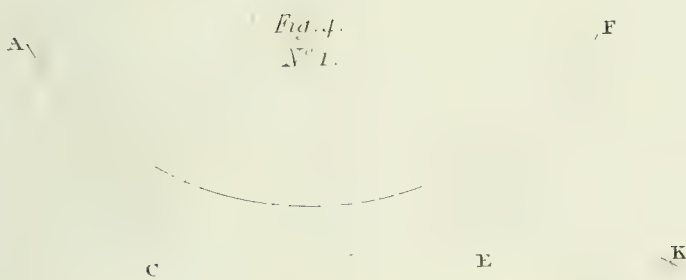


Fig. 4.
N^o 1.

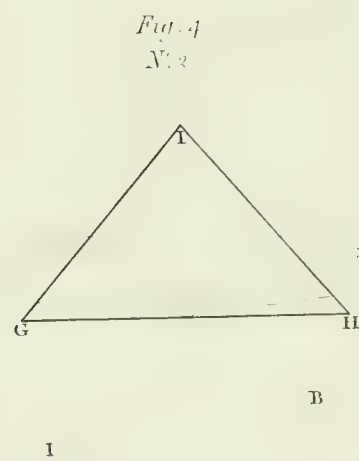


Fig. 4.
N^o 2.

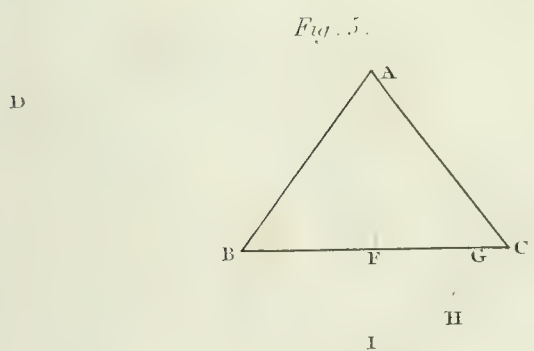


Fig. 5.

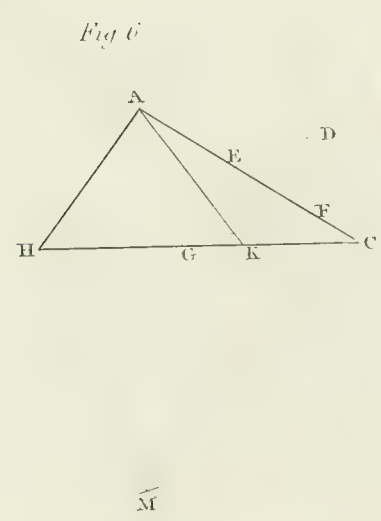
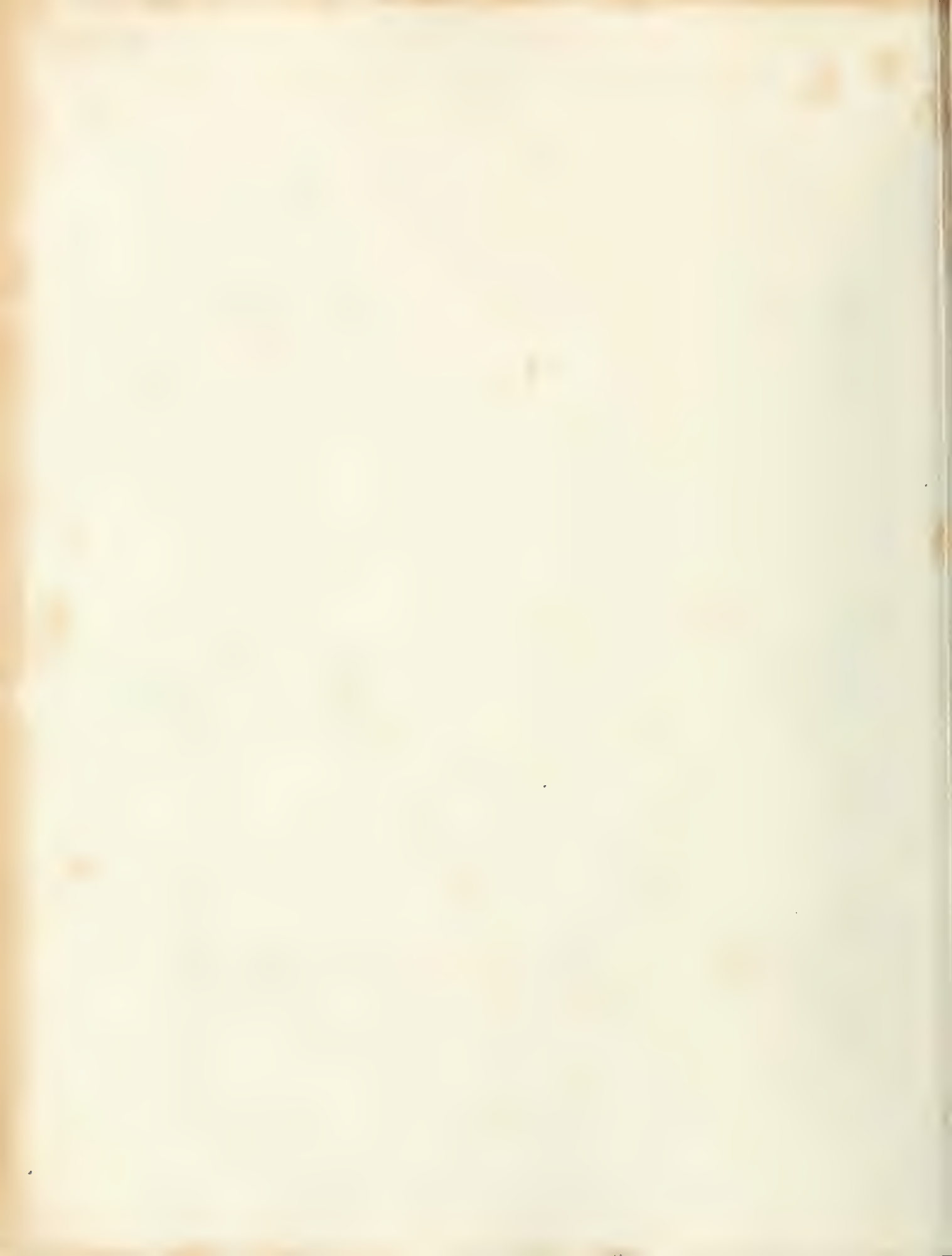
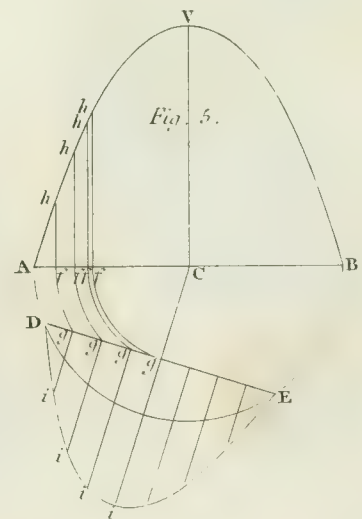
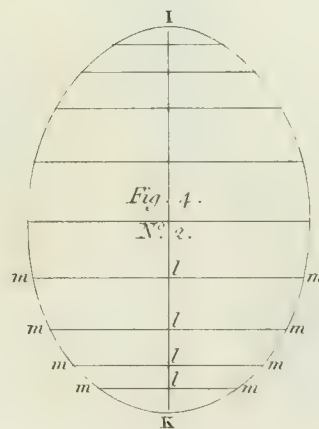
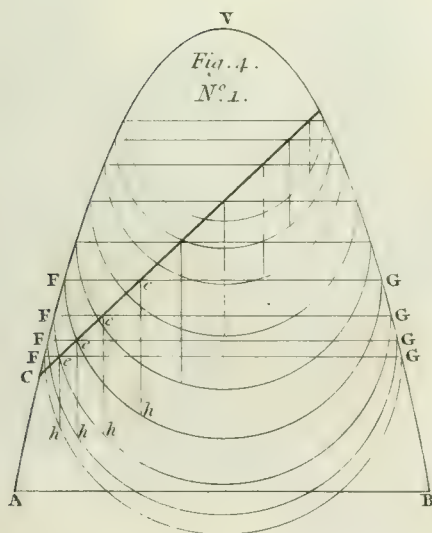
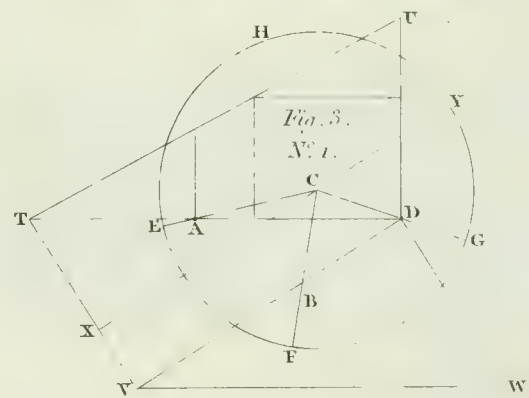
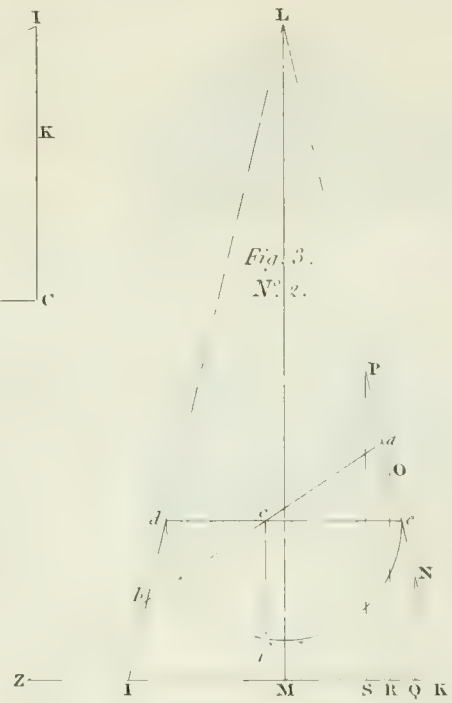
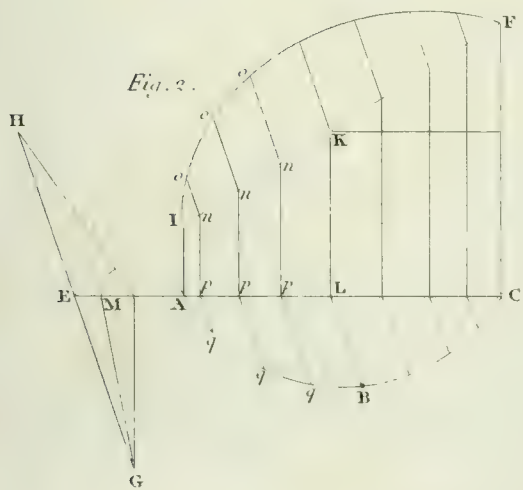
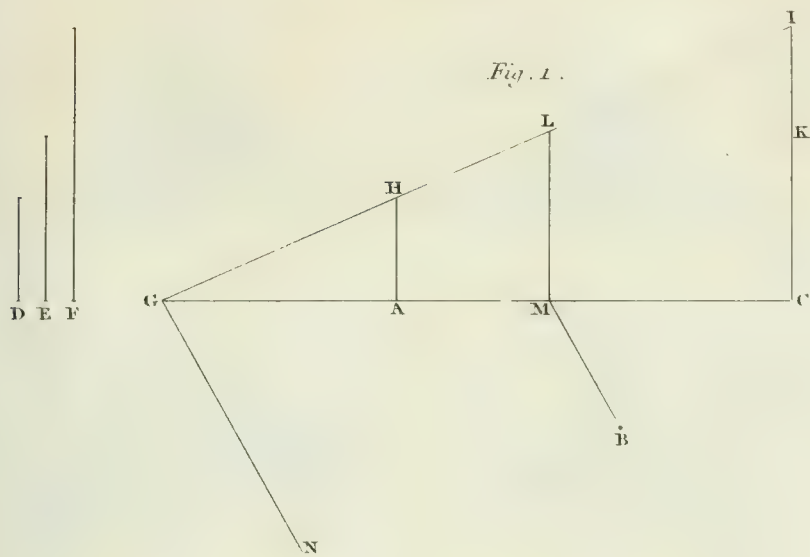


Fig. 6.



GEOMETRICAL PRINCIPLES OF CARPENTRY.





GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 3. N^o. 2.

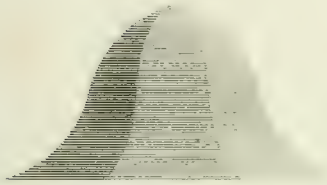


Fig. 3. N^o. 2.

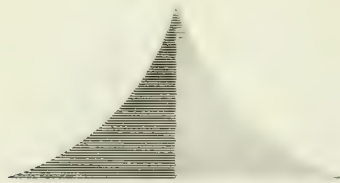


Fig. 1. N^o. 2.

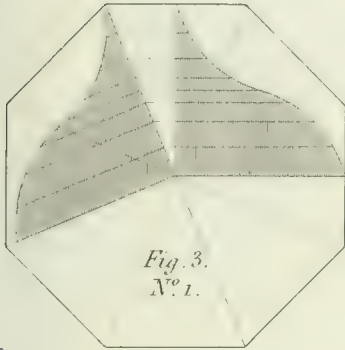
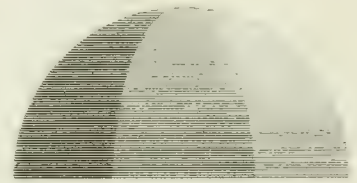


Fig. 3.
N^o. 1.

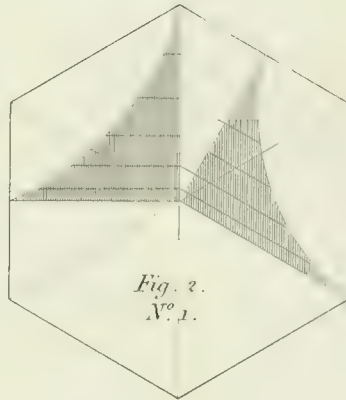


Fig. 2.
N^o. 1.

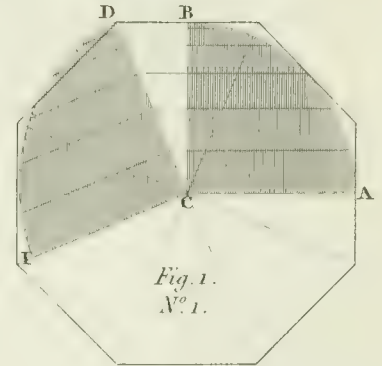


Fig. 1.
N^o. 1.

Fig. 5.

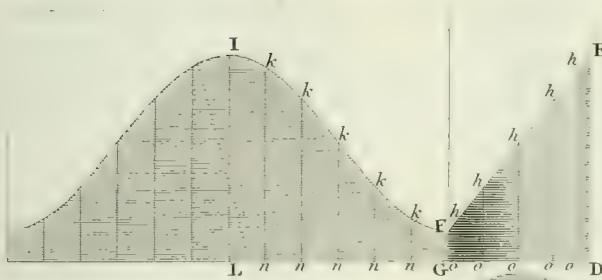


Fig. 4. N^o. 1.

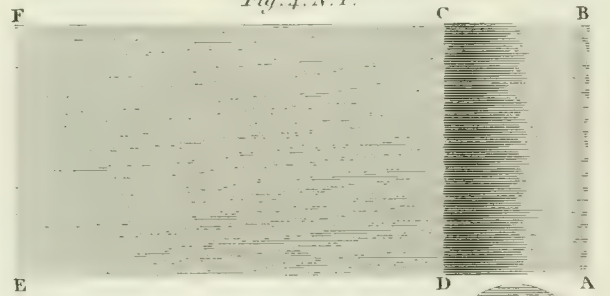


Fig. 8.

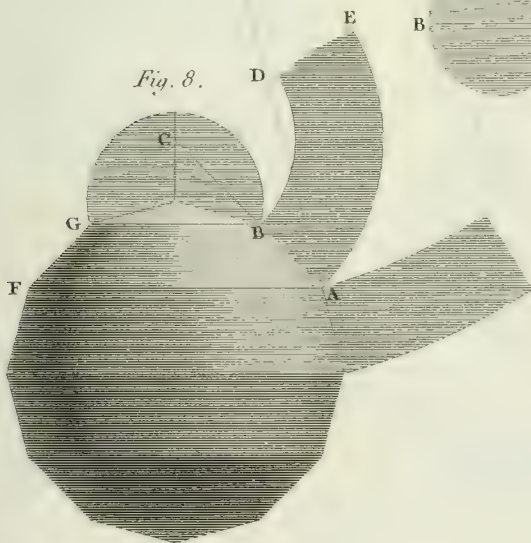


Fig. 7.

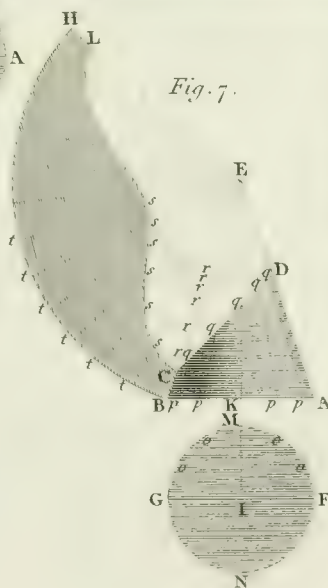
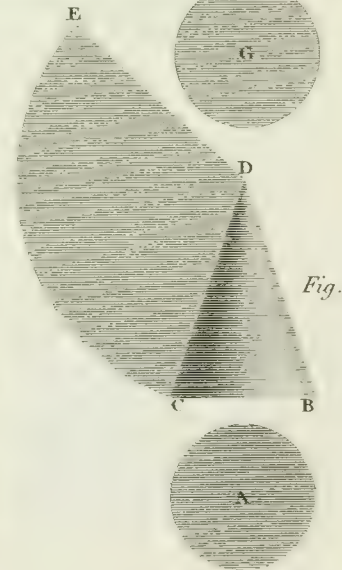
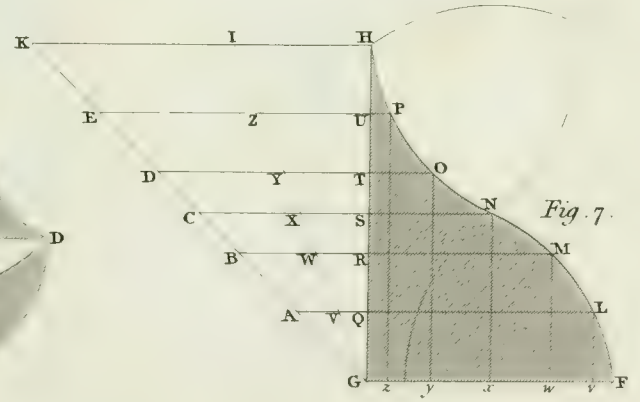
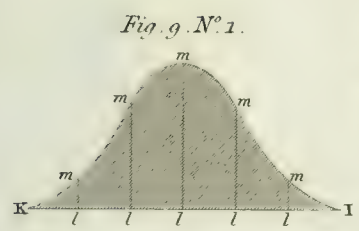
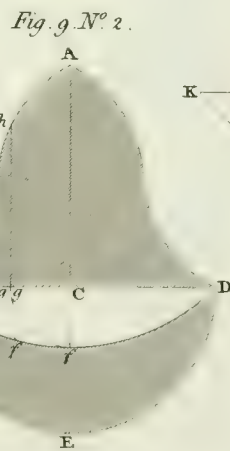
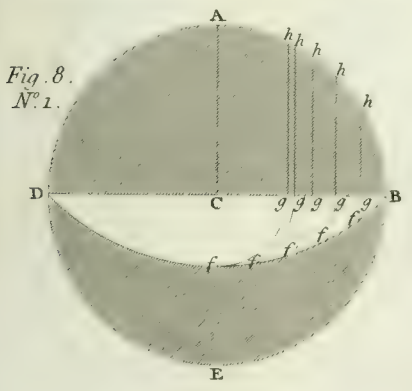
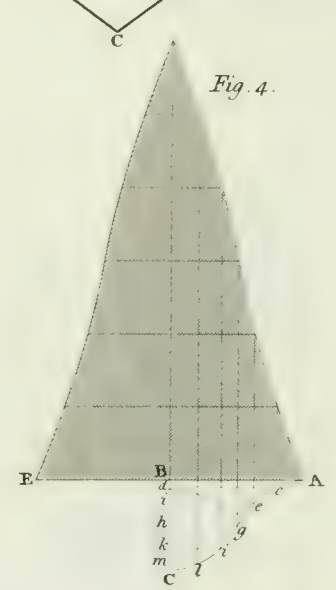
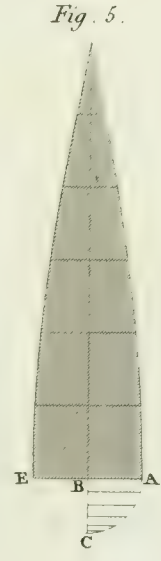
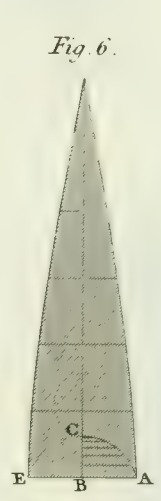
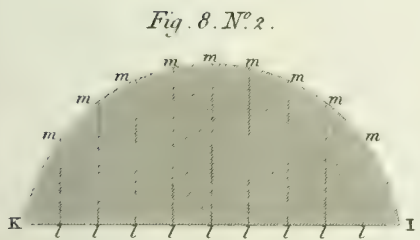
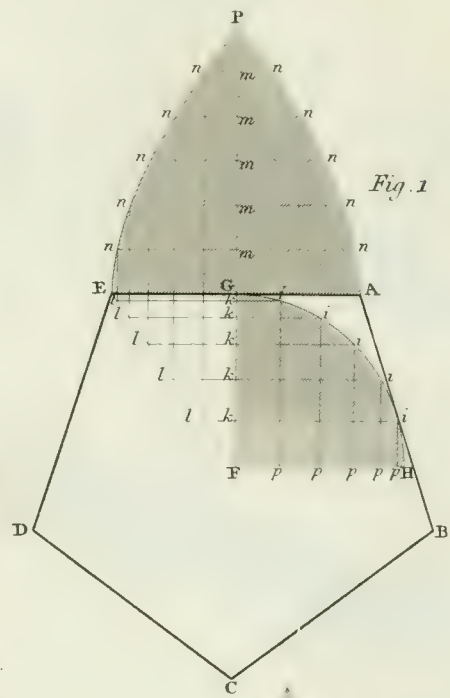
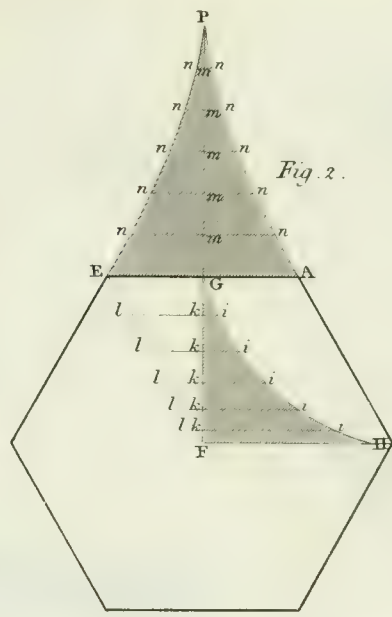
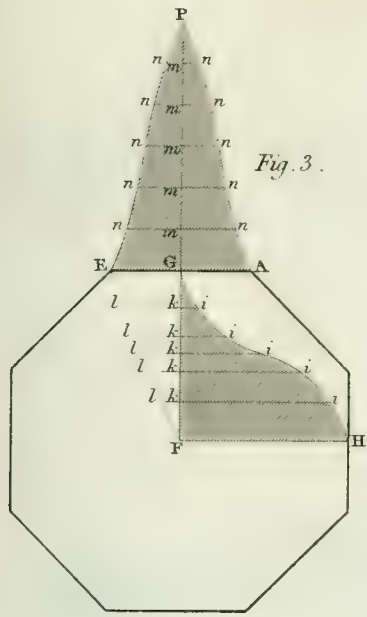


Fig. 6.

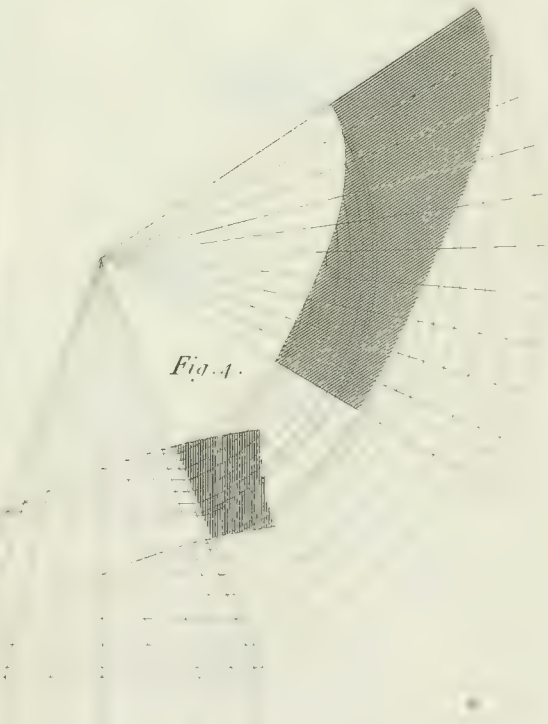
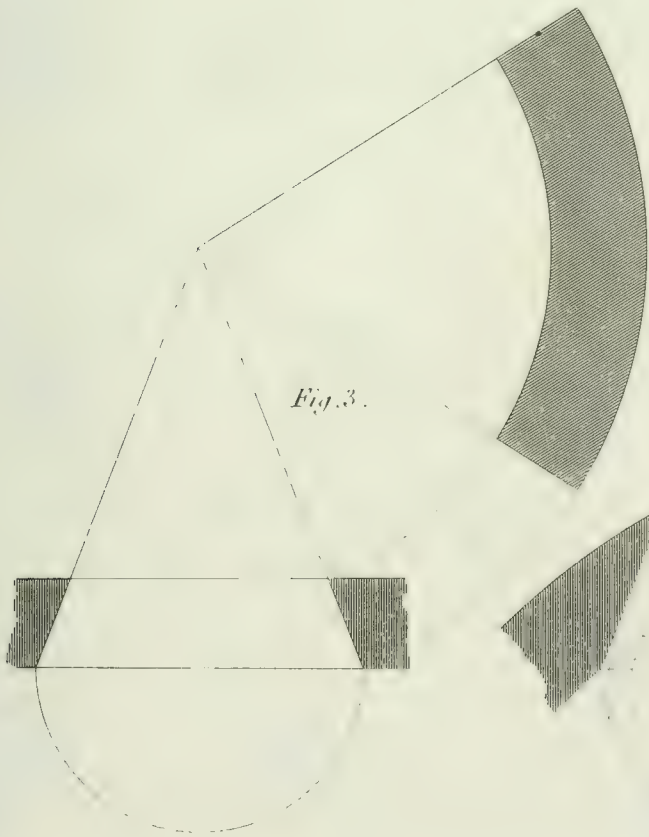
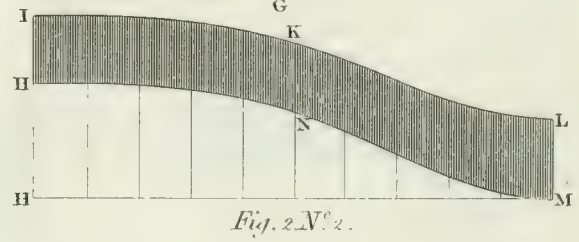
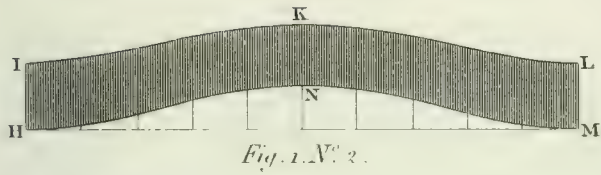
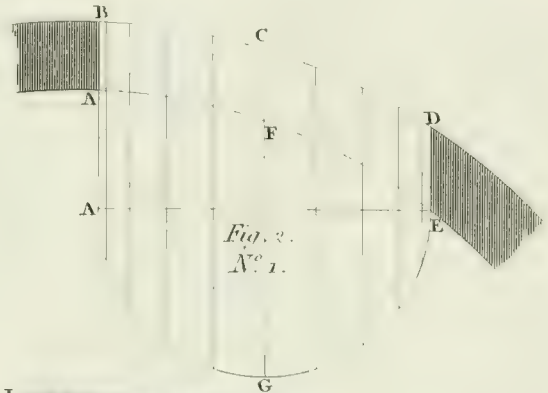
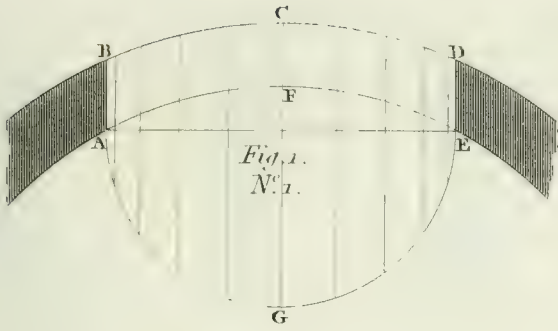


GEOMETRICAL PRINCIPLES OF CARPENTRY.





GEOMETRICAL PRINCIPLES OF CARPENTRY.





GEOMETRICAL PRINCIPLES OF CARPENTRY.

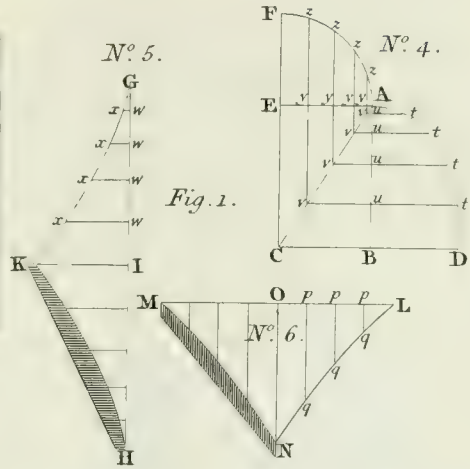
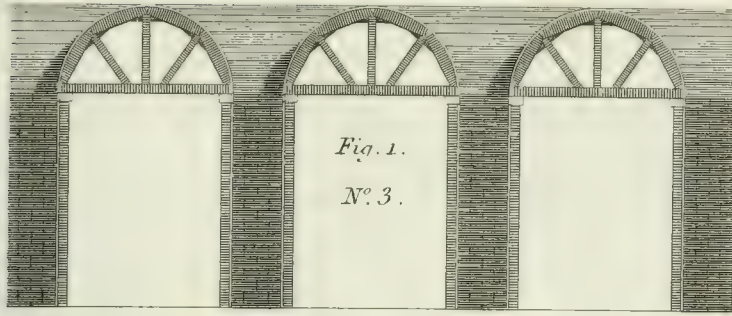


Fig. 1. N° 1.

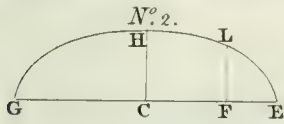
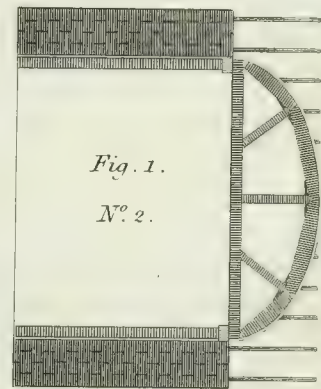
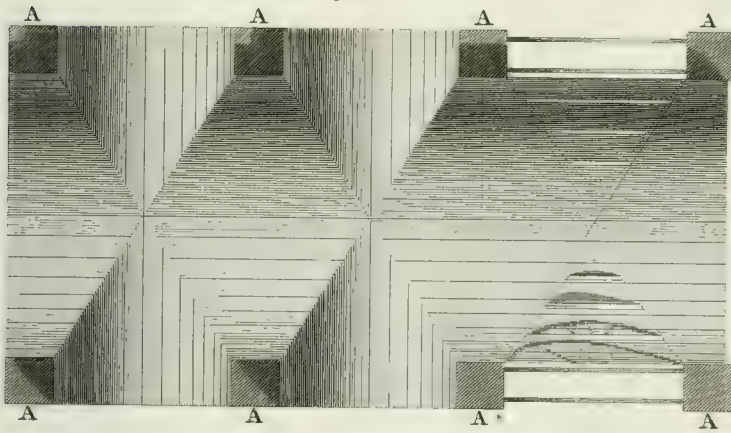


Fig. 2.

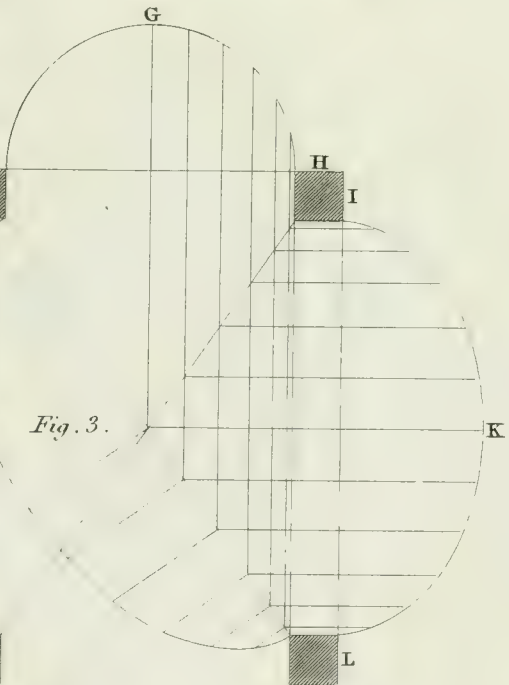
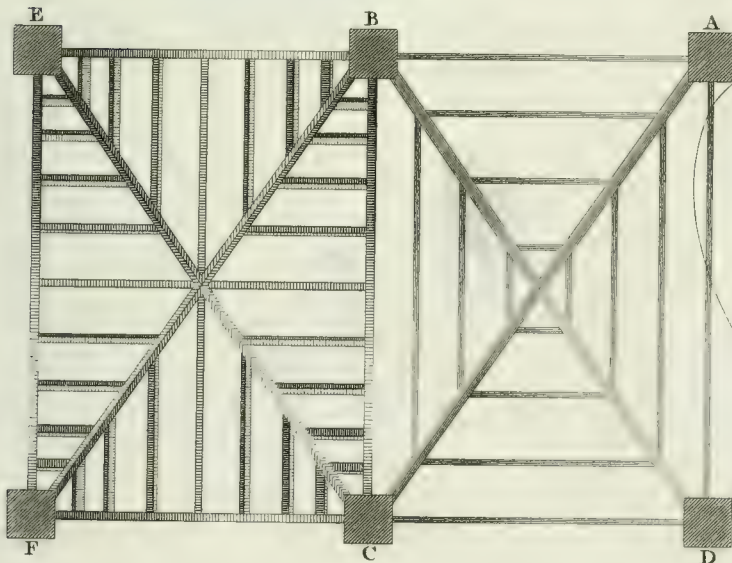
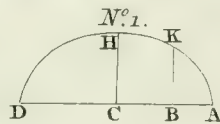


Fig. 3.



GROIN.

See Mr. Tappin's article and description of this Fig. under Groin.

Fig. 1.

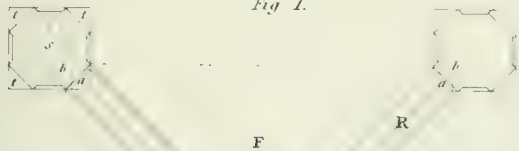


Fig. 2.

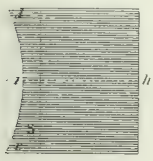
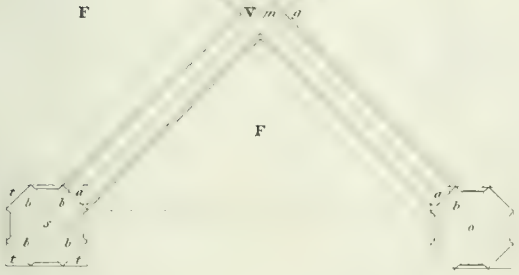


Fig. 2.

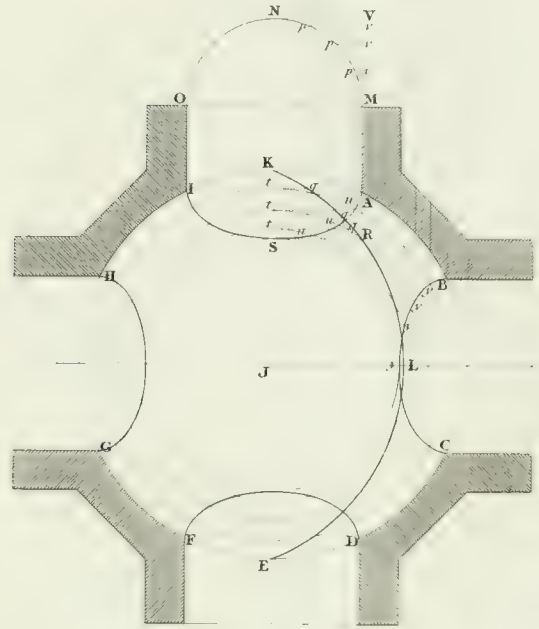
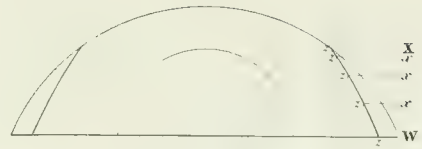


Fig. 5.

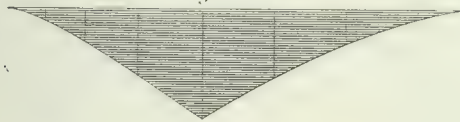


Fig. 4.

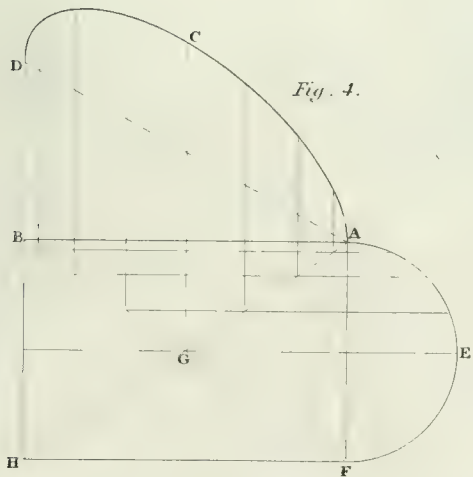
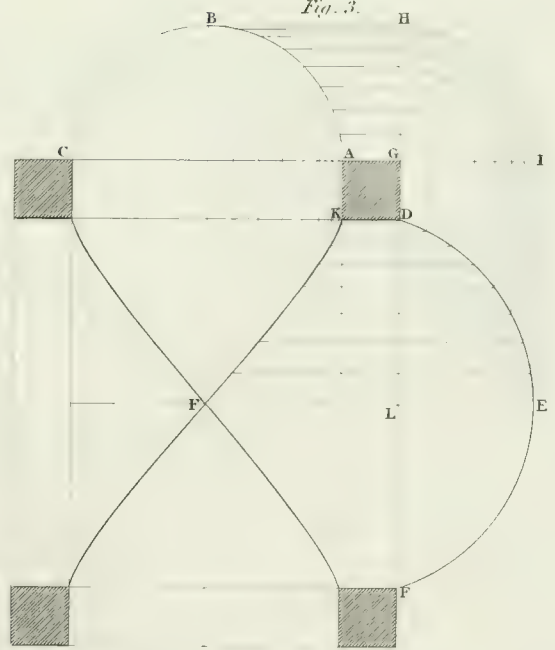
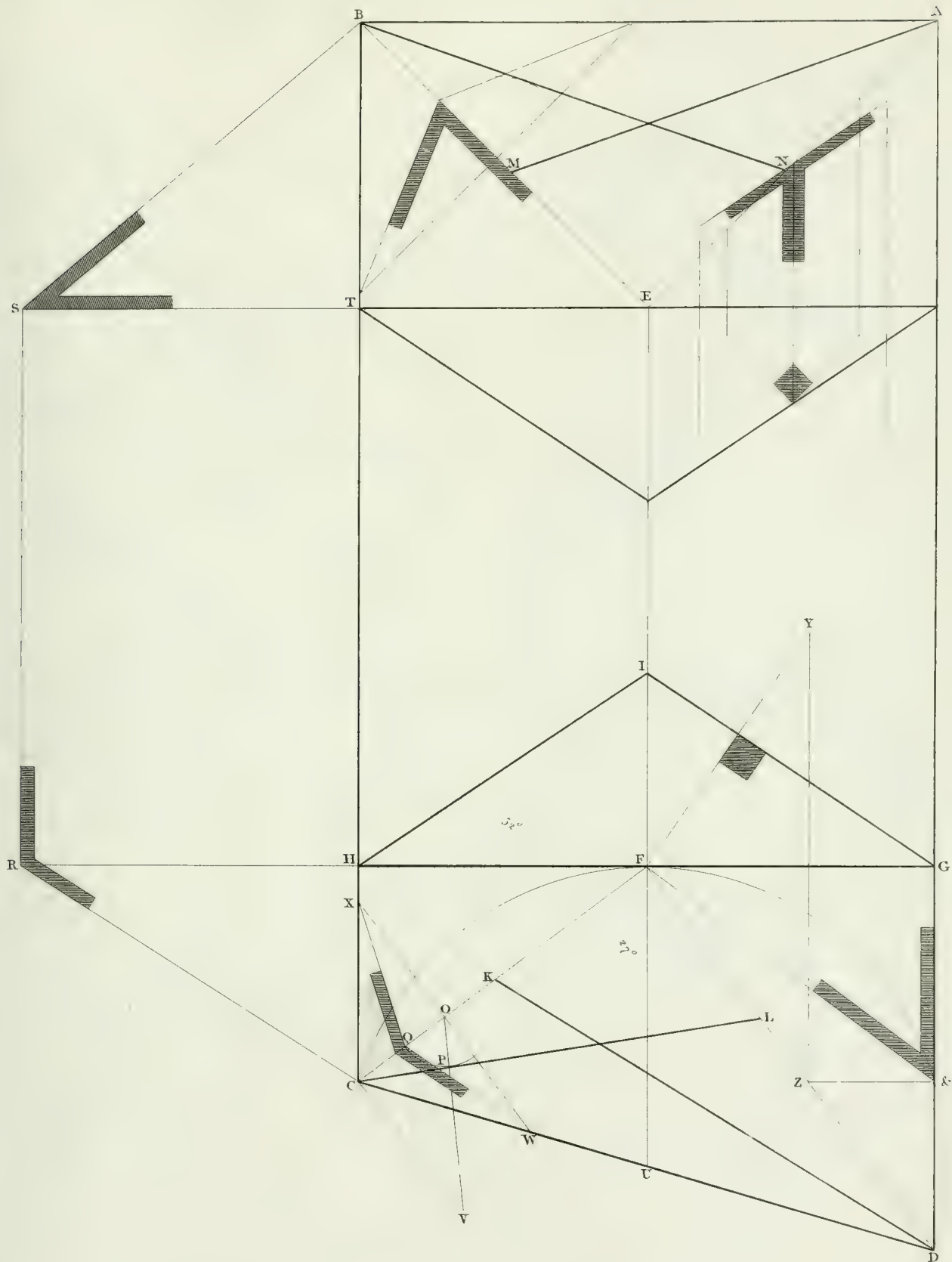


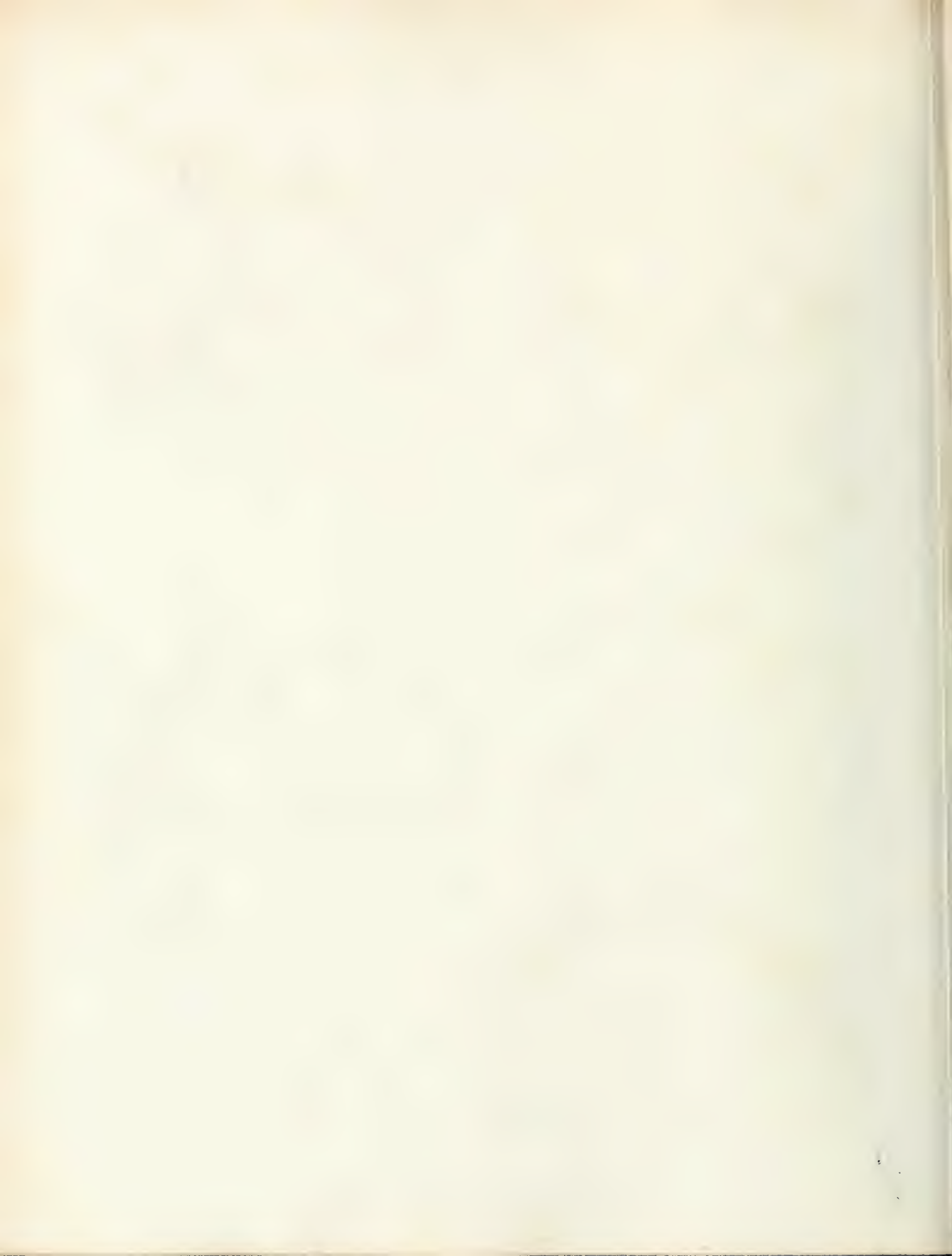
Fig. 3.





GEOMETRICAL PRINCIPLES OF CARPENTRY.

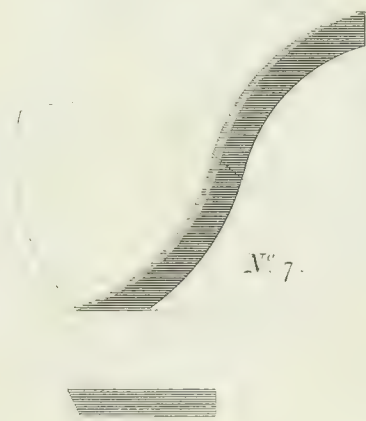
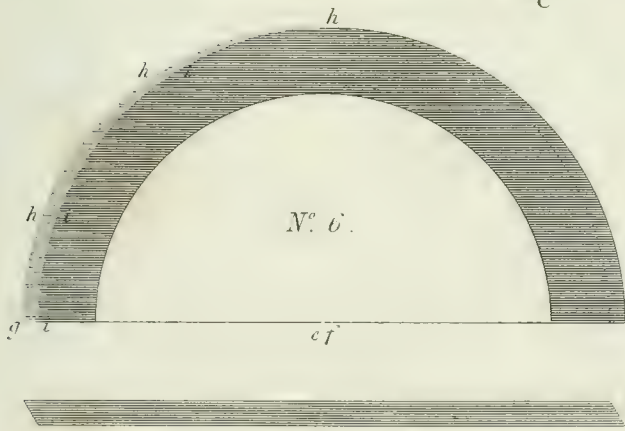
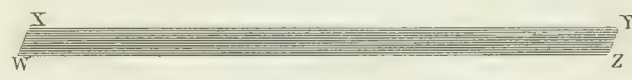
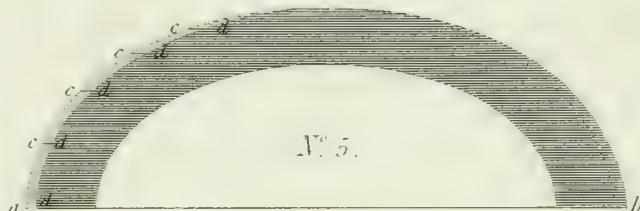
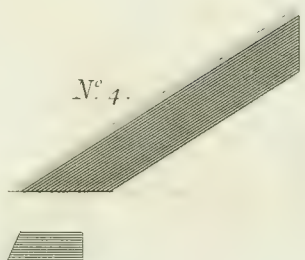
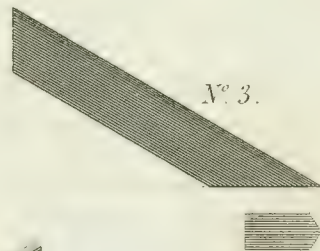
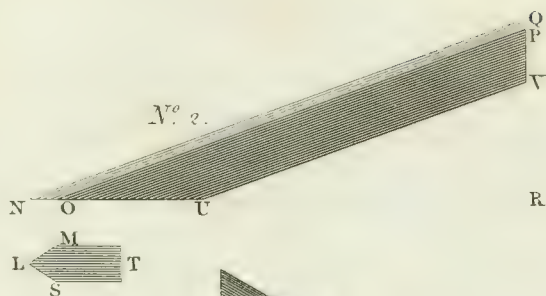
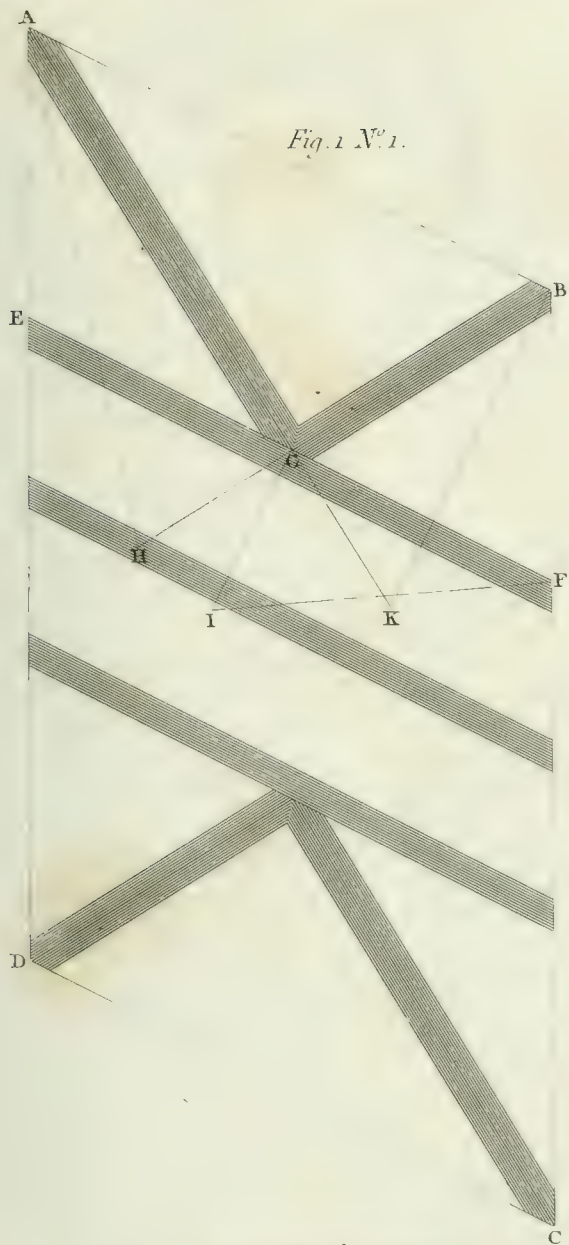




ARCHITECTURE.

GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 1 N^o 1.





GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 1.

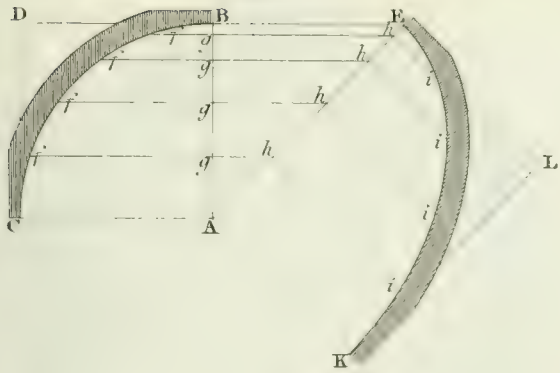


Fig. 2.

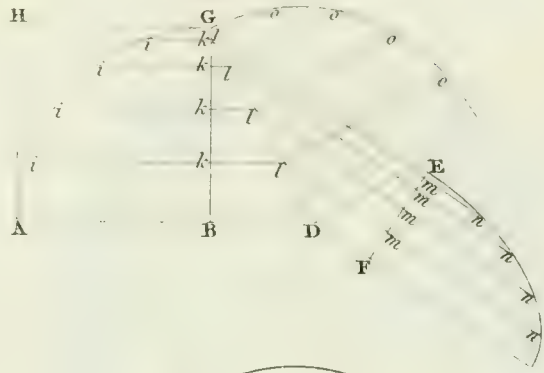


Fig. 3.

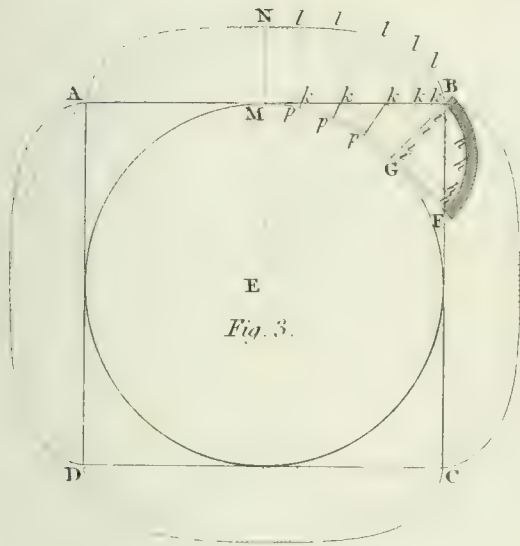


Fig. 4.

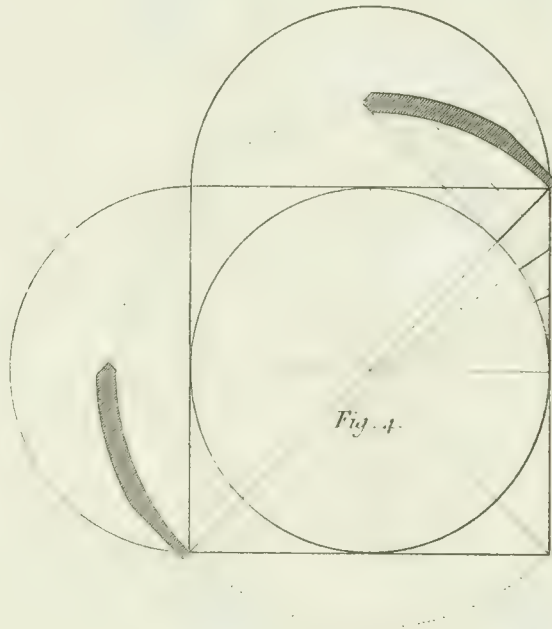


Fig. 5.

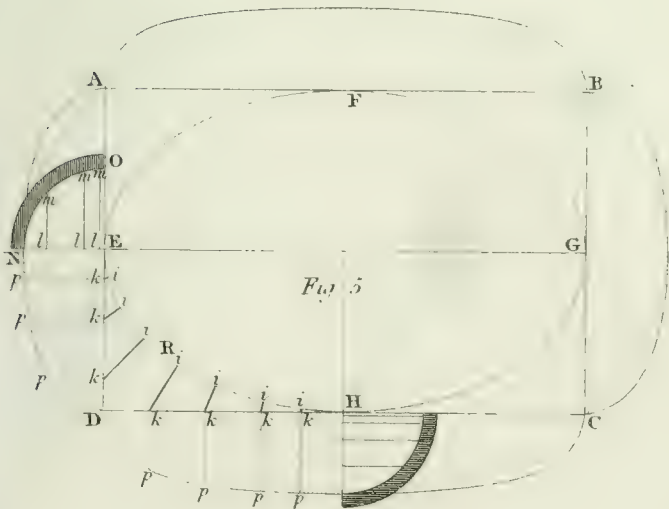
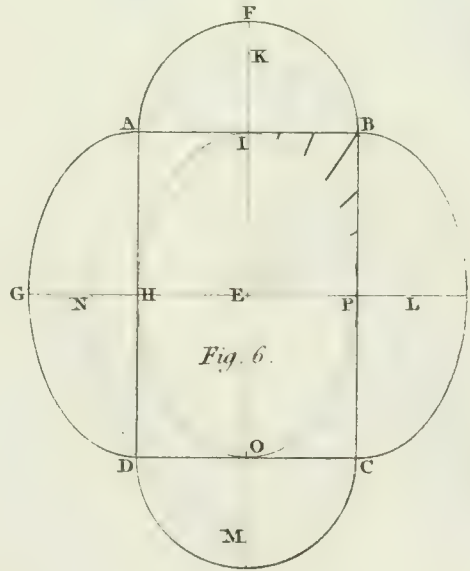


Fig. 6.





GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 1.

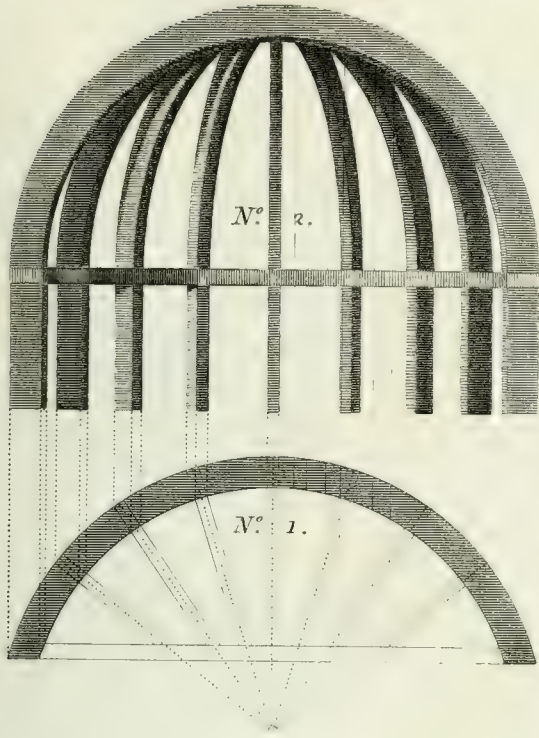
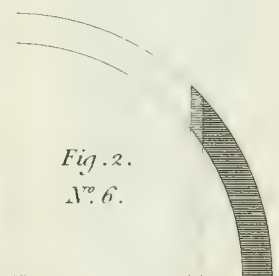
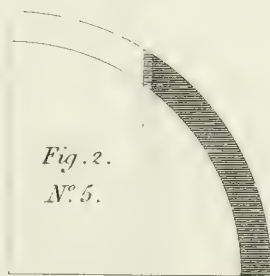
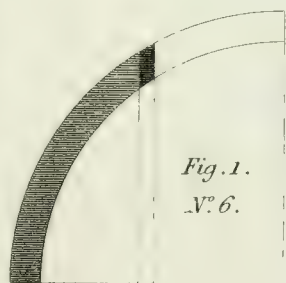
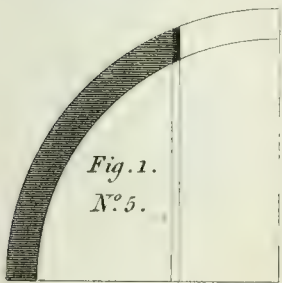
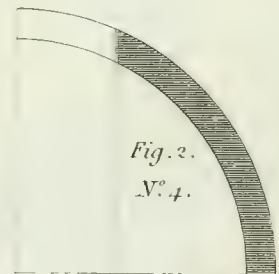
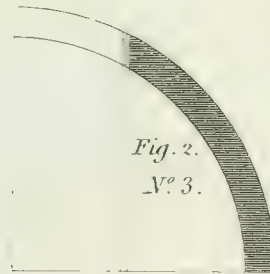
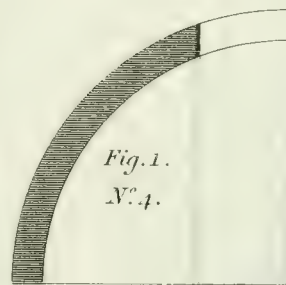
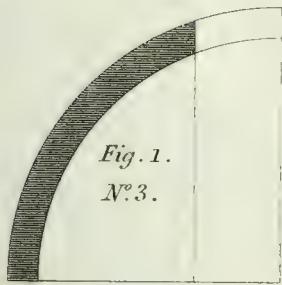
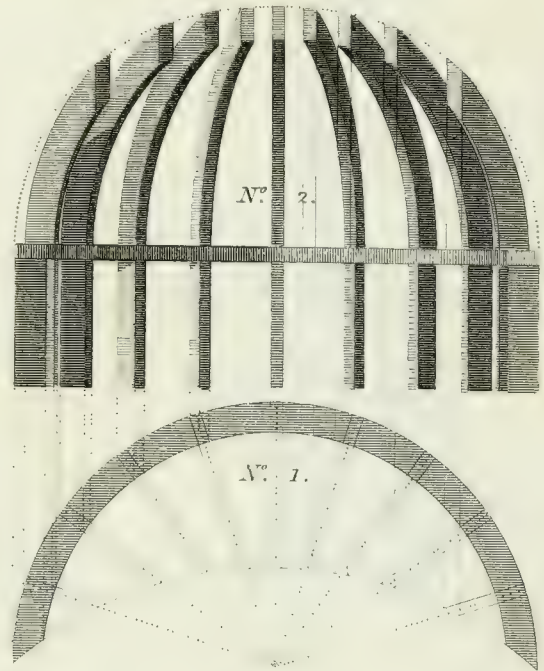
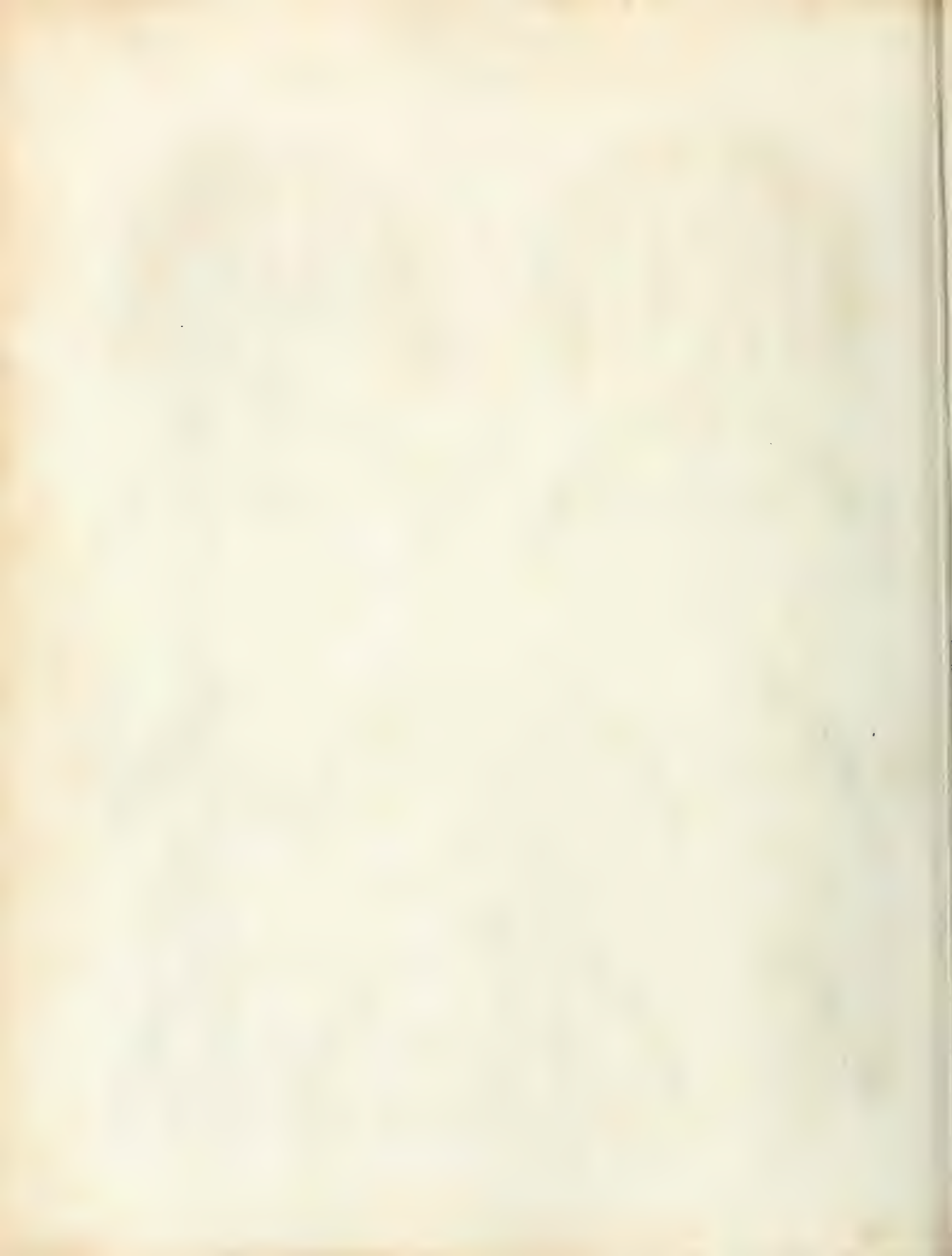
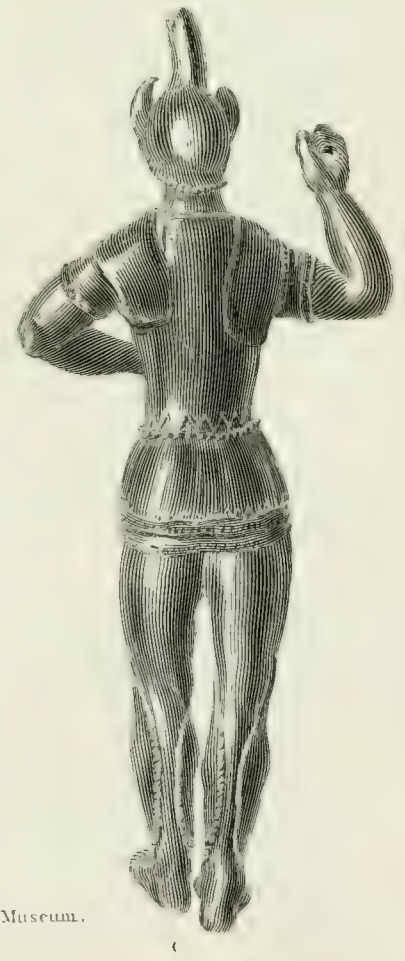
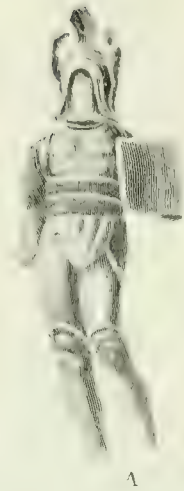


Fig. 2.





ARMOUR.
Ancient Bronzes.



AD. In the Collection of Payne Knight Esq^r — BB. C.C. In the British Museum.



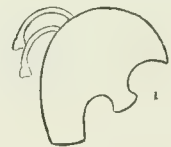
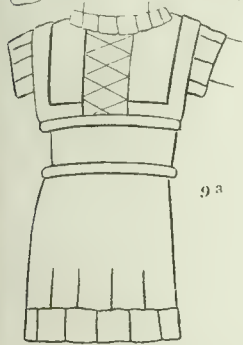
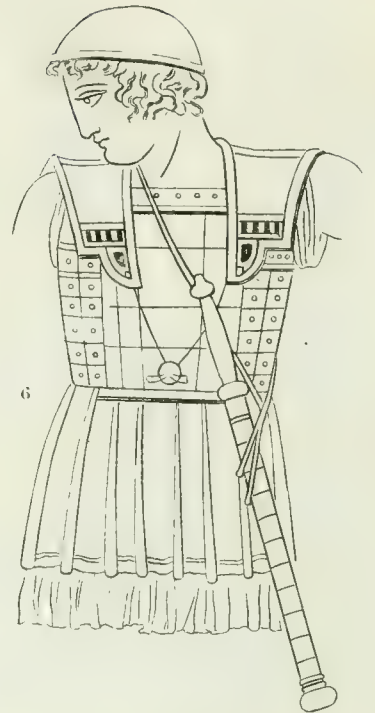
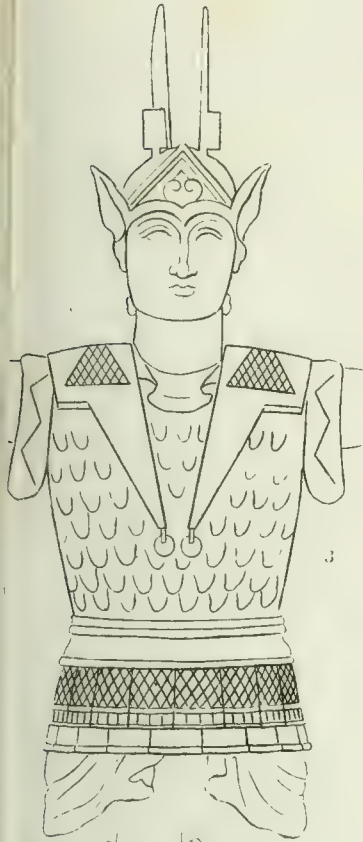


Fig 1 & 2 from Demou.
 3, 4, 7 & 9 a. from the Tusean Gallery
 5. from a Gem.
 6 from S.W. Hamilton's Vases
 8. A Bronze in the British Museum



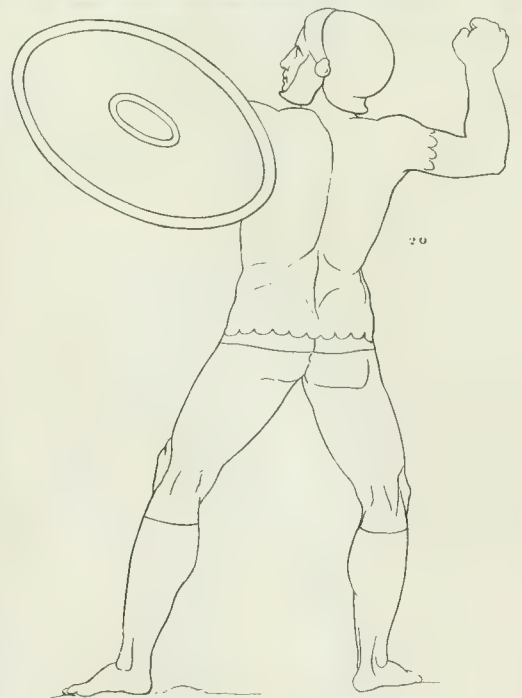
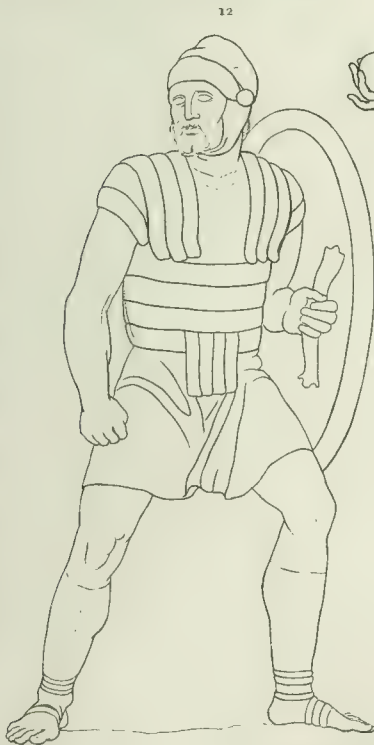
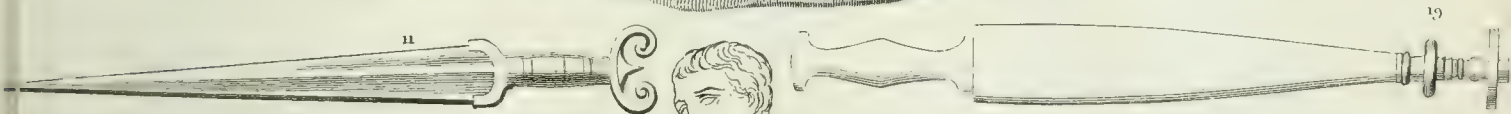
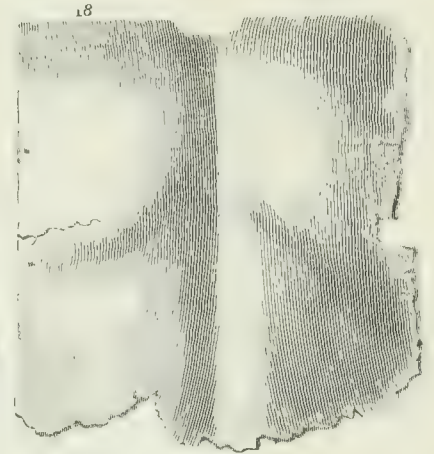
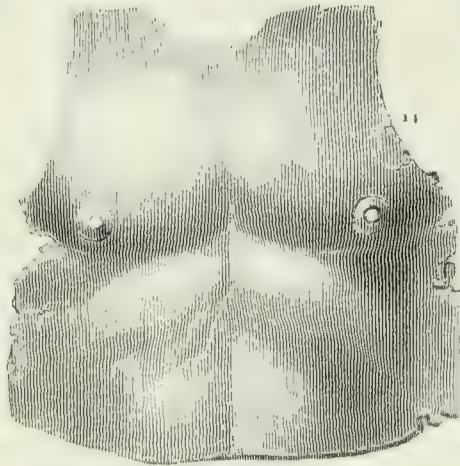
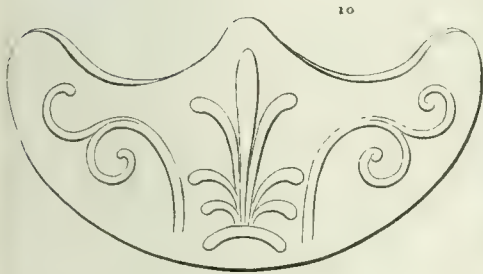
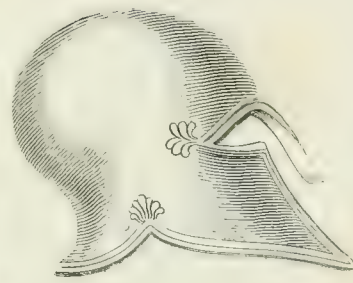
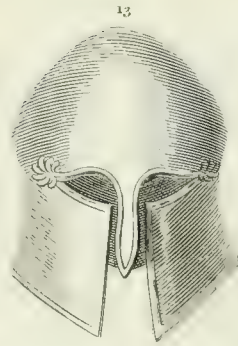
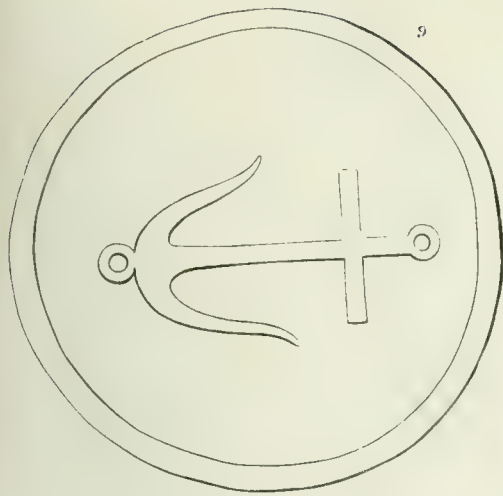


Fig. 13, 16, 17, 18, 19 in the British Museum.
9 & 10 from *Scw Hamilton's Vases*.

Fig. 12, 15 and 20 from Bartoli's *Triumphal Arches*.





Plate V Fig. 4

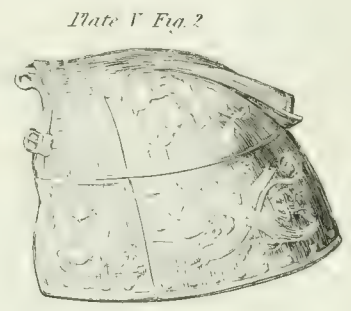


Plate V Fig. 2

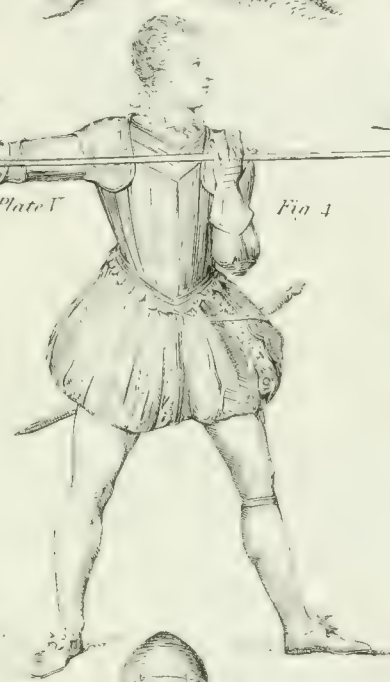


Plate IV Fig. 6

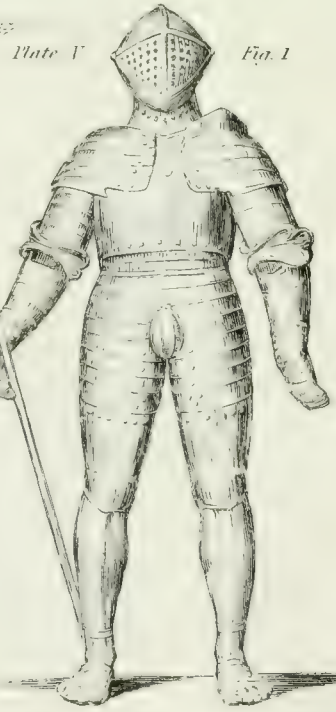


Plate V Fig. 1



Plate V Fig. 3



Blake sc



ARTILLERY.

PLATE I.&II.

BATTERING RAM and CATAPULTA.

PLATE I. *ARIES, or Battering Ram.*

PLATE II. *CATAPULTA, used by Lord Heathfield, at the Siege of Gibraltar.*

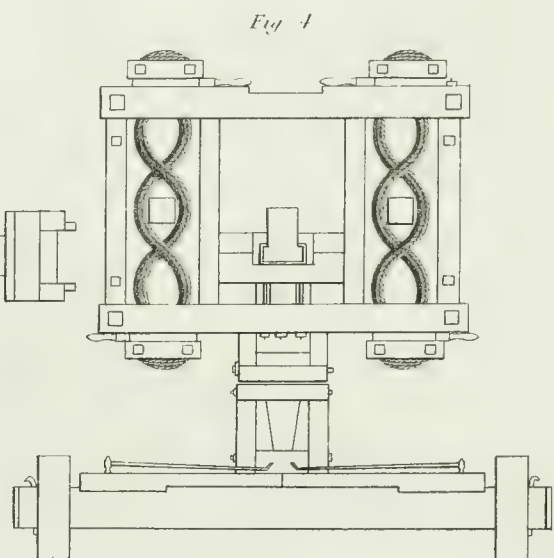
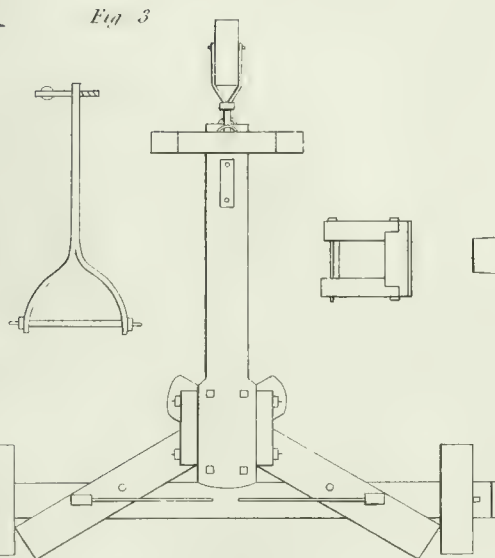
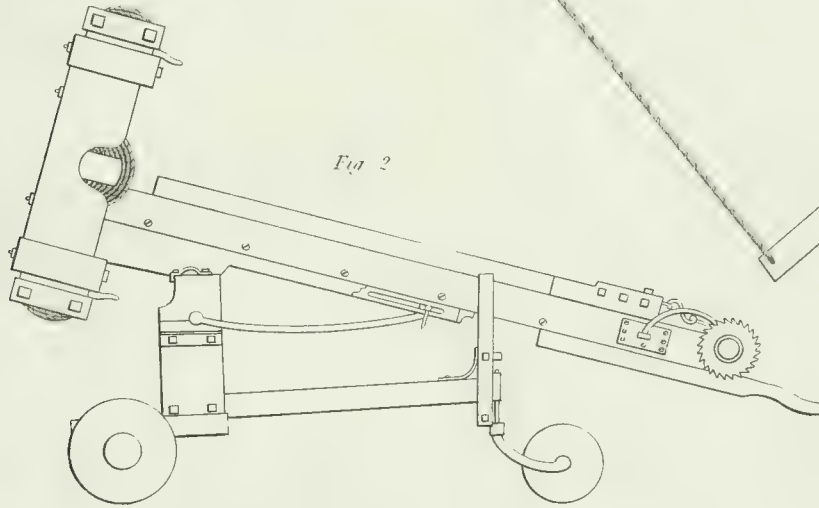
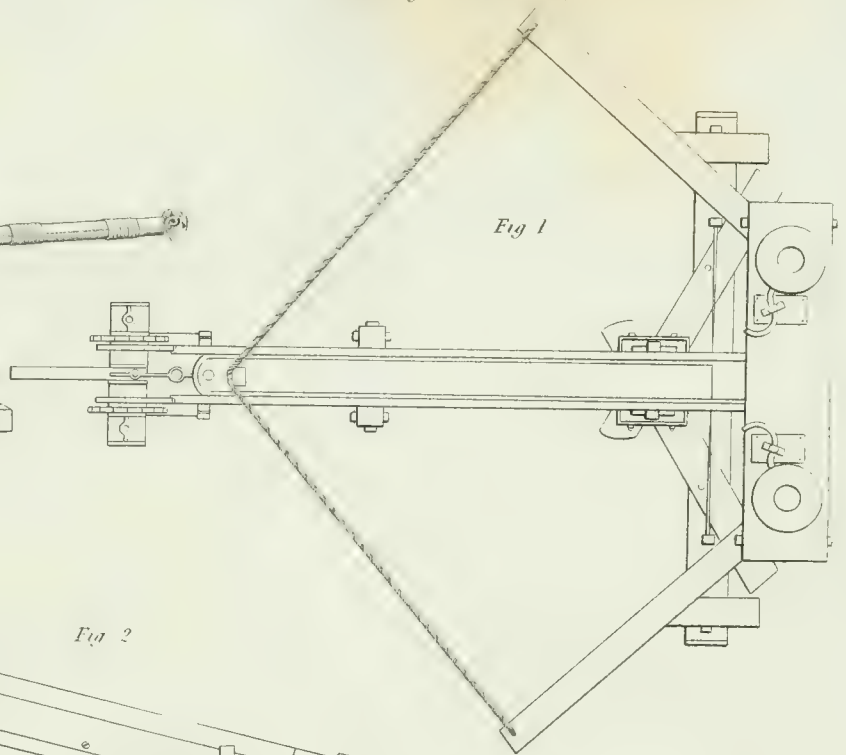
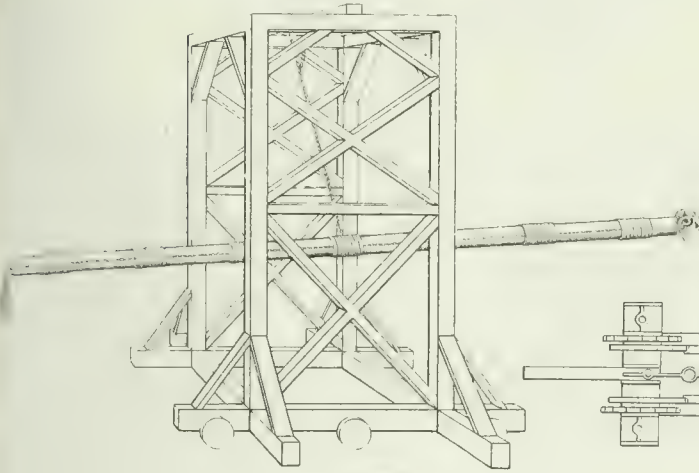




Fig. 2.

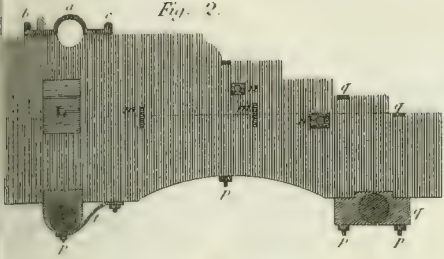


Fig. 1.

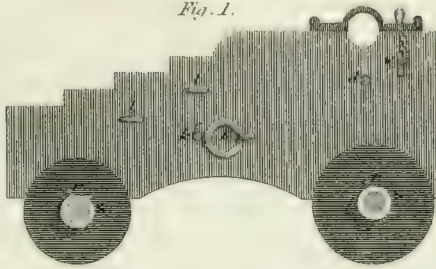


Fig. 4.



Fig. 5.



Fig. 6.



Fig. 7.



Fig. 10.

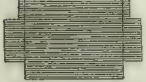


Fig. 8.

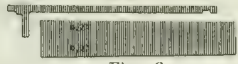


Fig. 9.

Fig. 3.

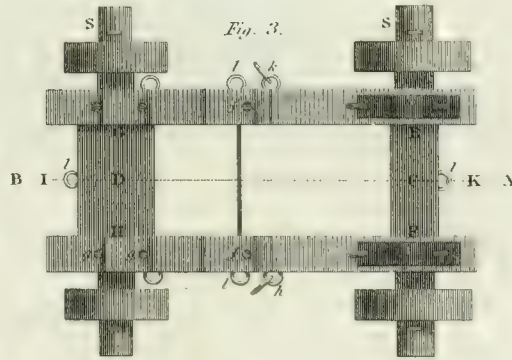


Fig. 11.

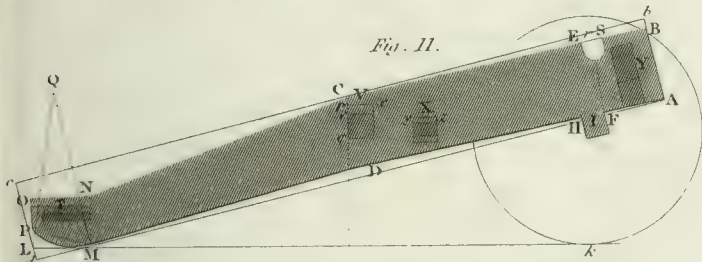


Fig. 12.

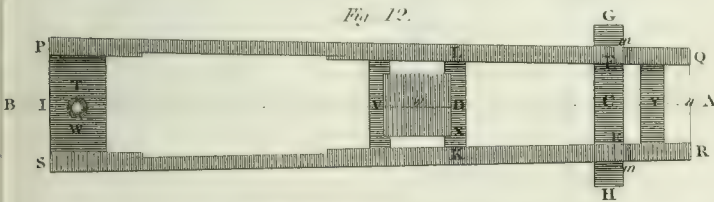
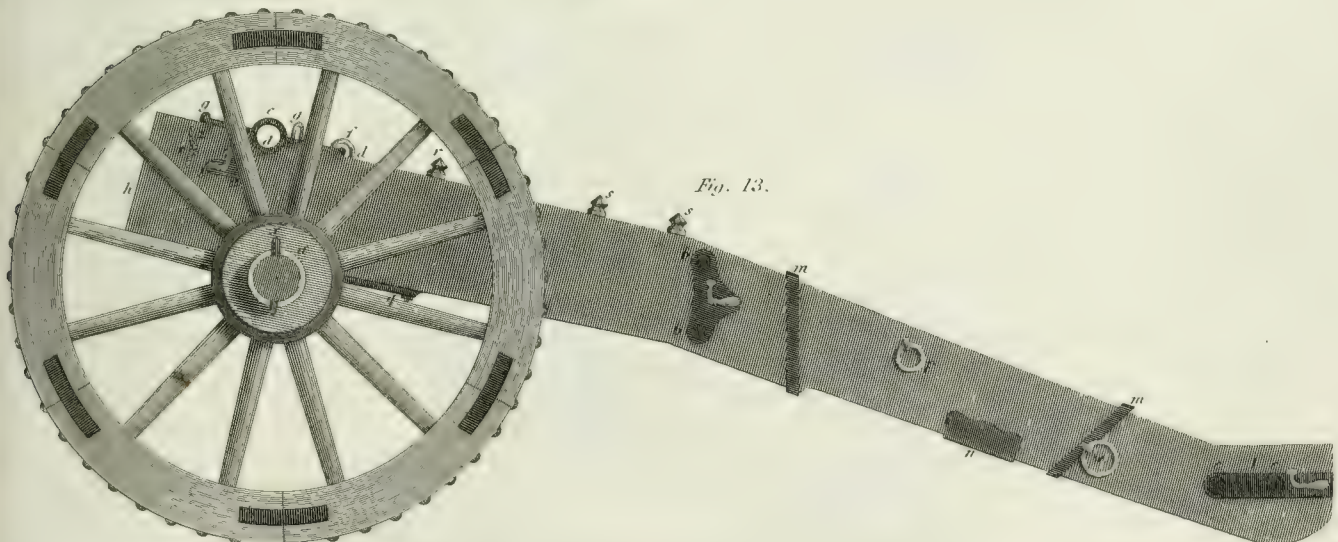


Fig. 13.





CARRIAGE.

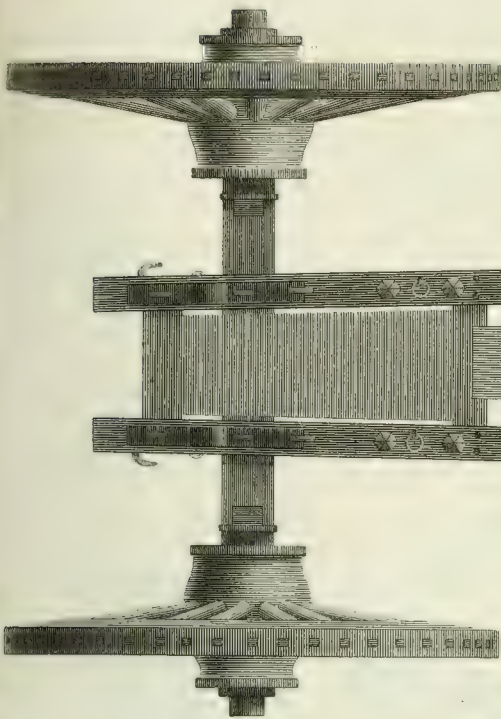


Fig. 14.

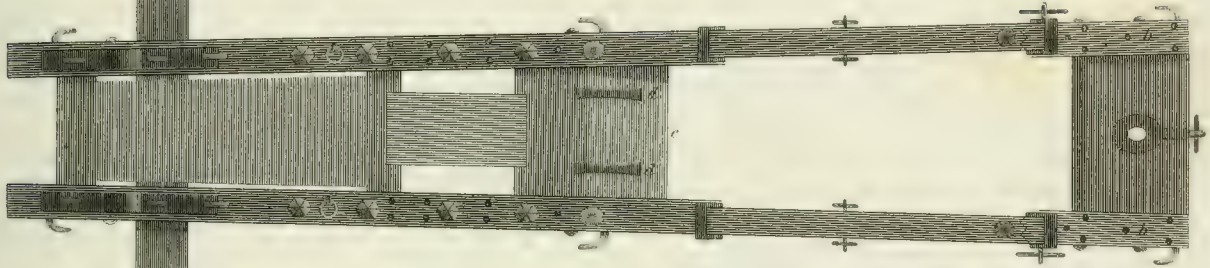


Fig. 17.

Fig. 15.

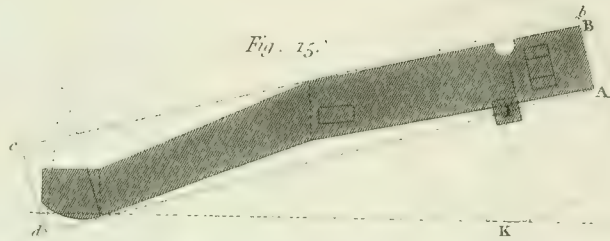
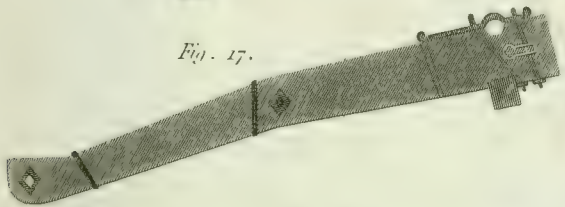


Fig. 18.

Fig. 16.

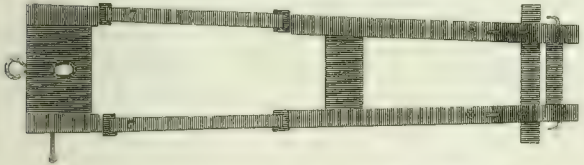


Fig. 19.

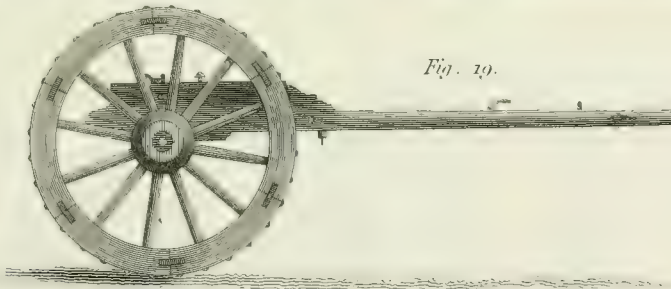
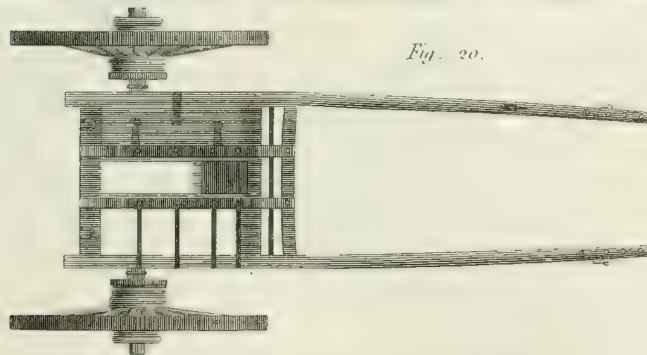


Fig. 20.





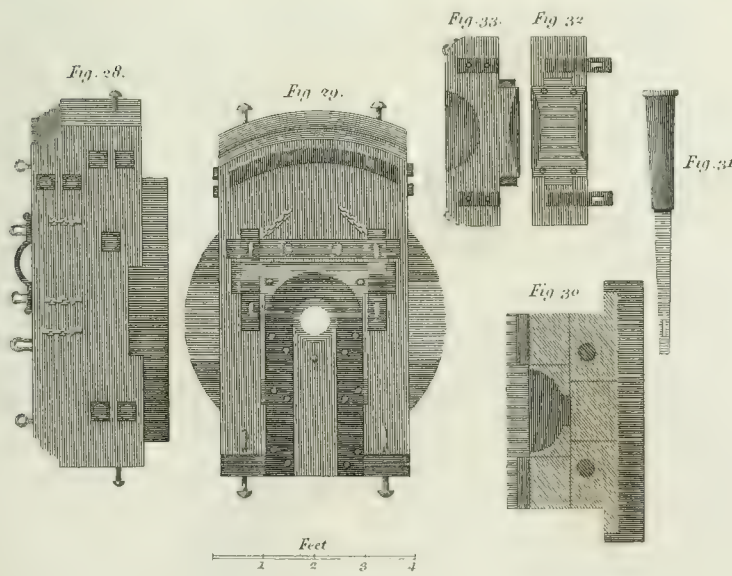
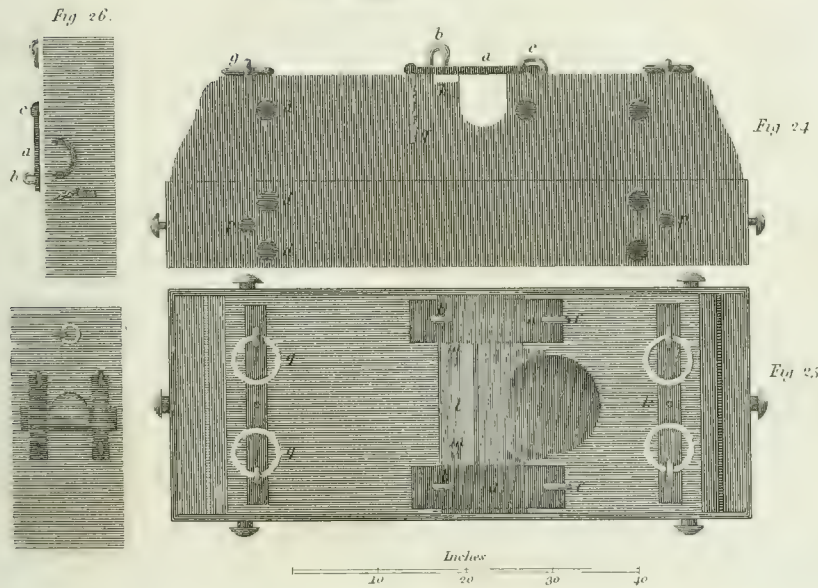
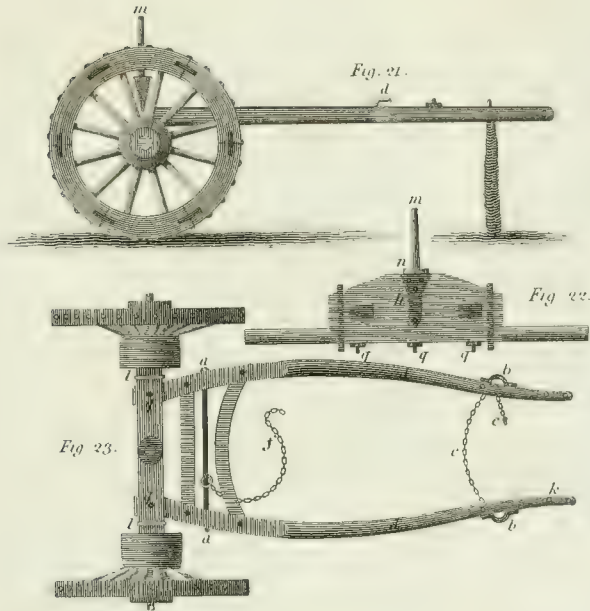




Fig. 31.

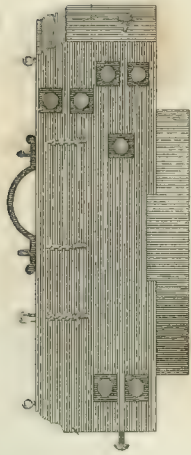


Fig. 35.

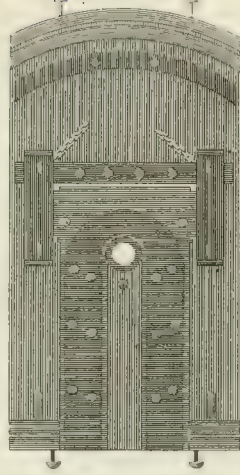


Fig. 38.

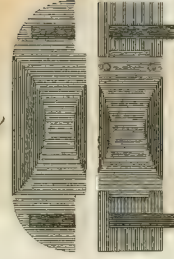


Fig. 39.

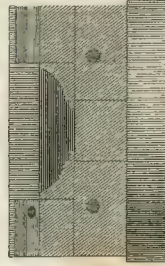


Fig. 37.

Fig. 36.

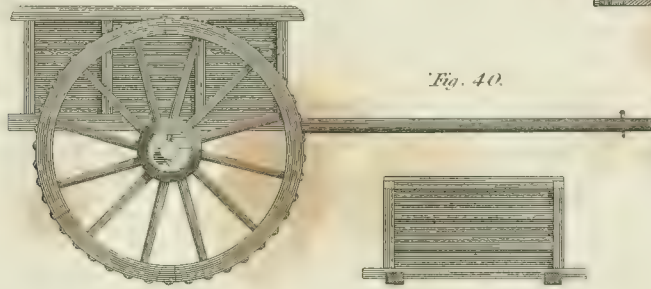


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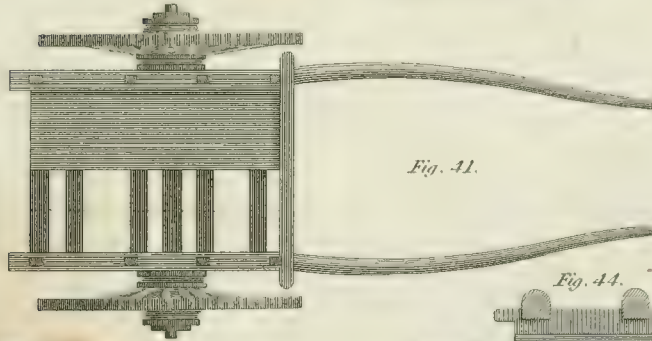


Fig. 41.



Fig. 44.

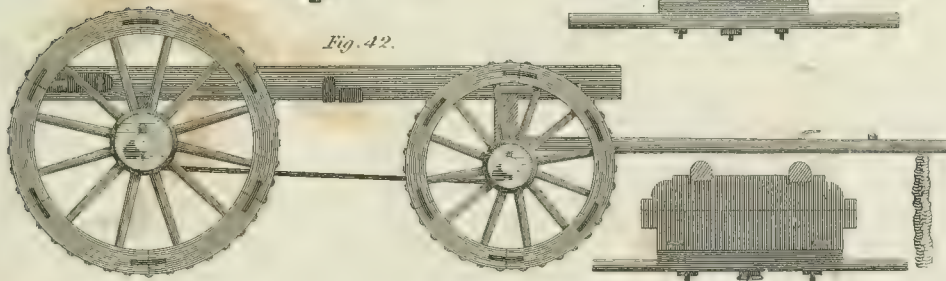


Fig. 42.

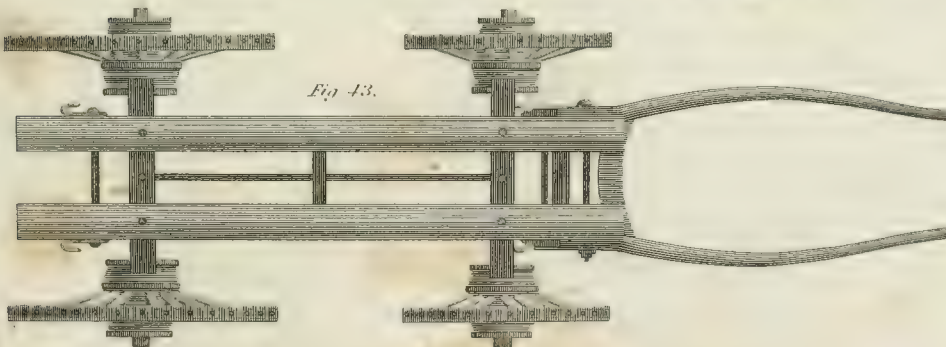
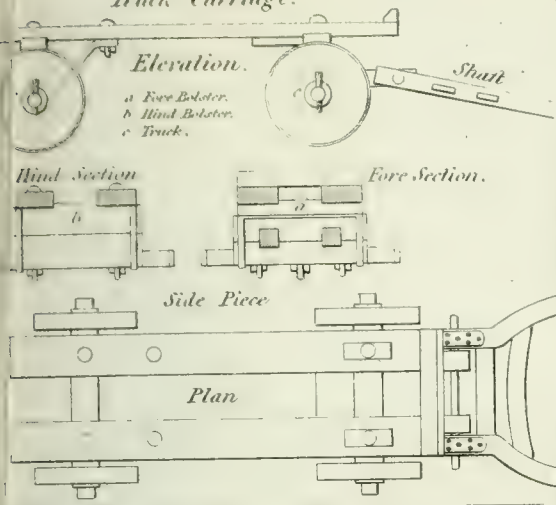


Fig. 43.



Truck Carriage.

Fig. 45 to 48.



Ammunition Waggon.

Fig. 49 to 52.

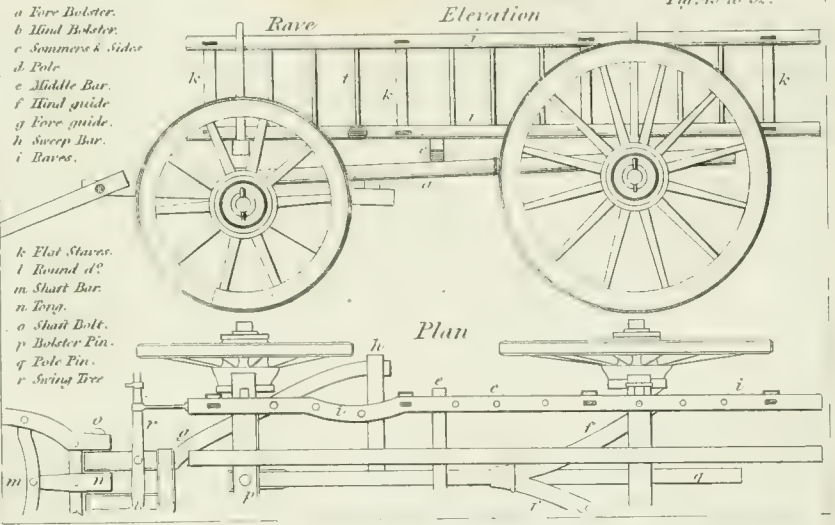


Fig. 53.

Powder Cart.

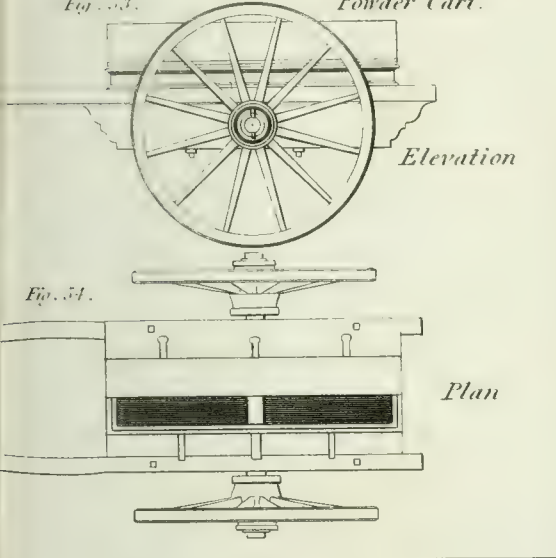
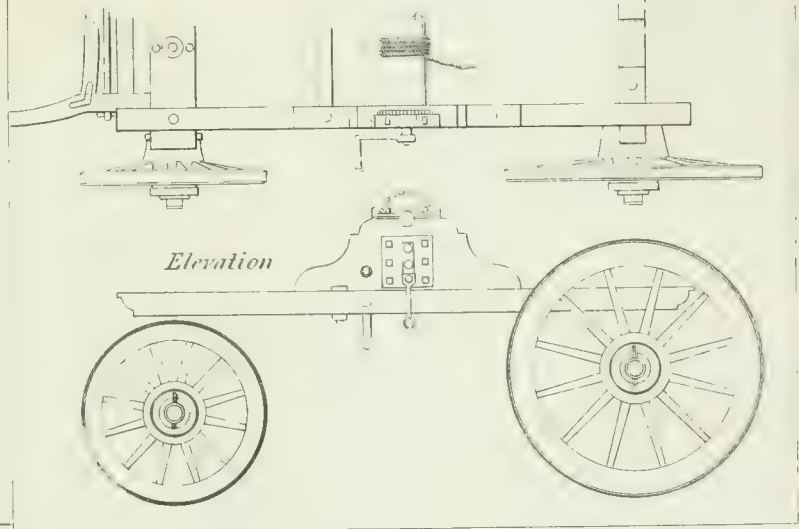


Fig. 54.

Plan of Sling Waggon.

Fig. 55 to 58.



Elevation of Sling Cart.

Fig. 59.

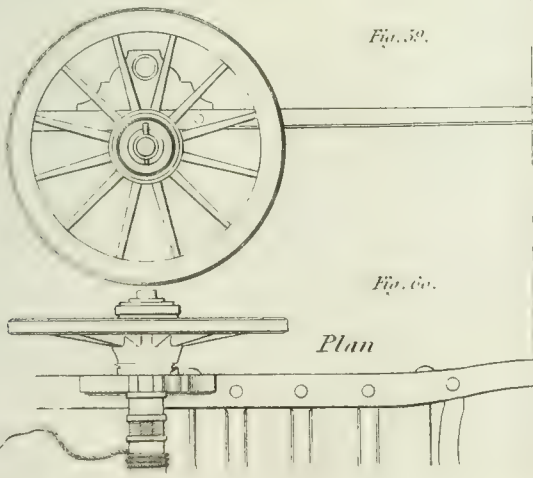
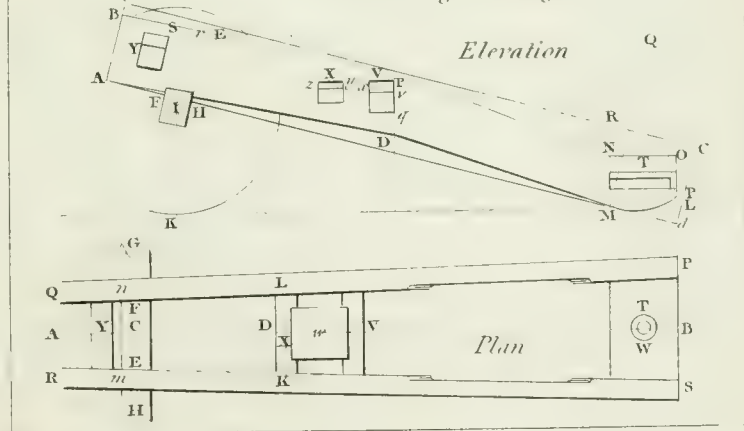


Fig. 60.

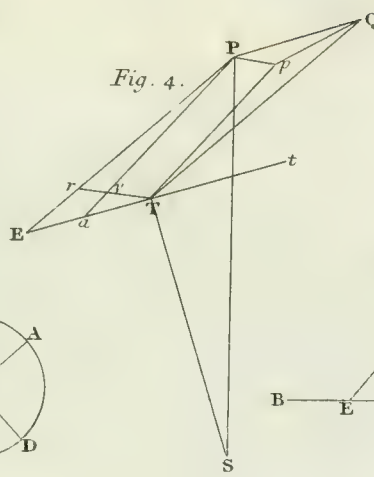
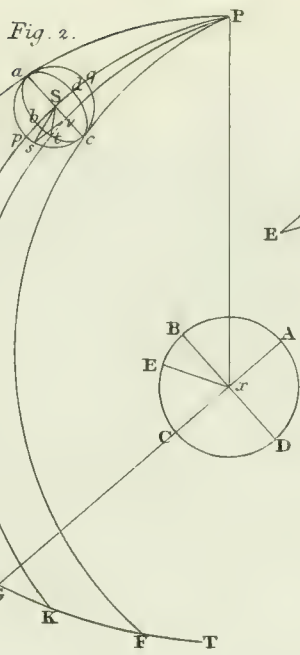
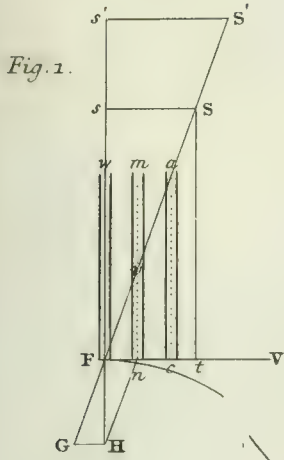
Fig. 61.

Travelling Carriage.

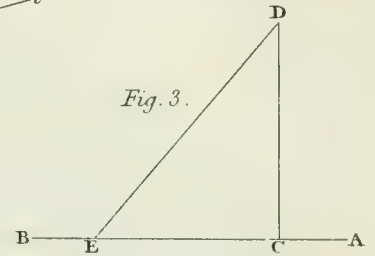




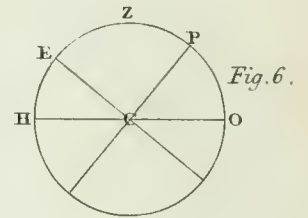
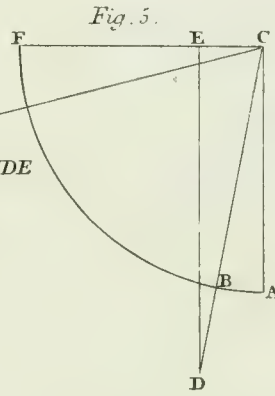
ABERRATION



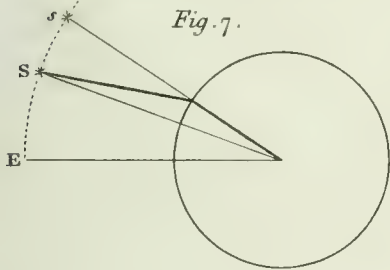
CULMINATION



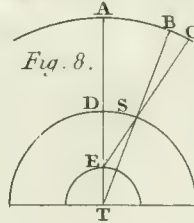
ALTITUDE



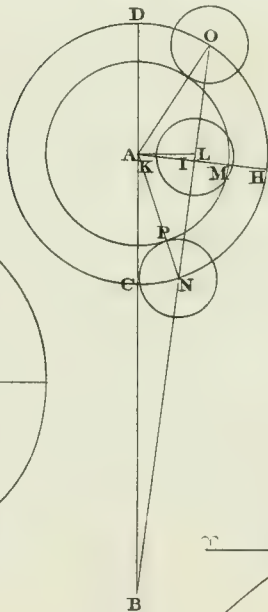
REFRACTION OF ALTITUDE



PARALLAX OF ALTITUDE



ARC
Fig. 11.*



ANOMALY

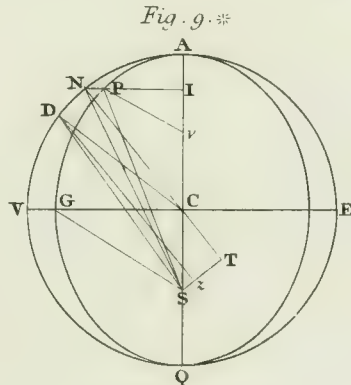
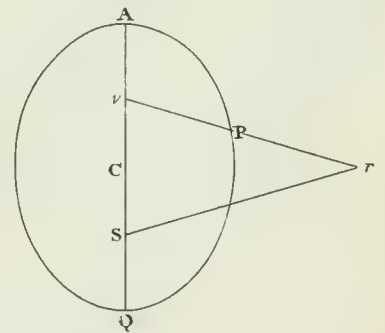
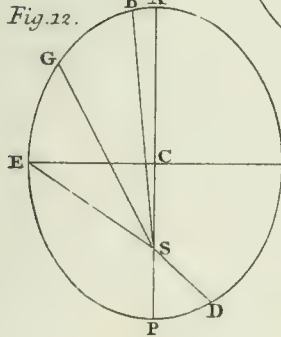


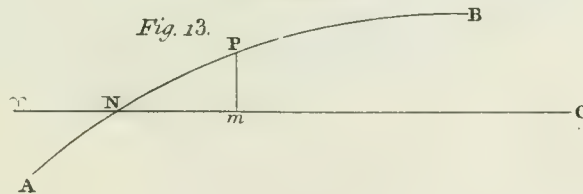
Fig. 10.*

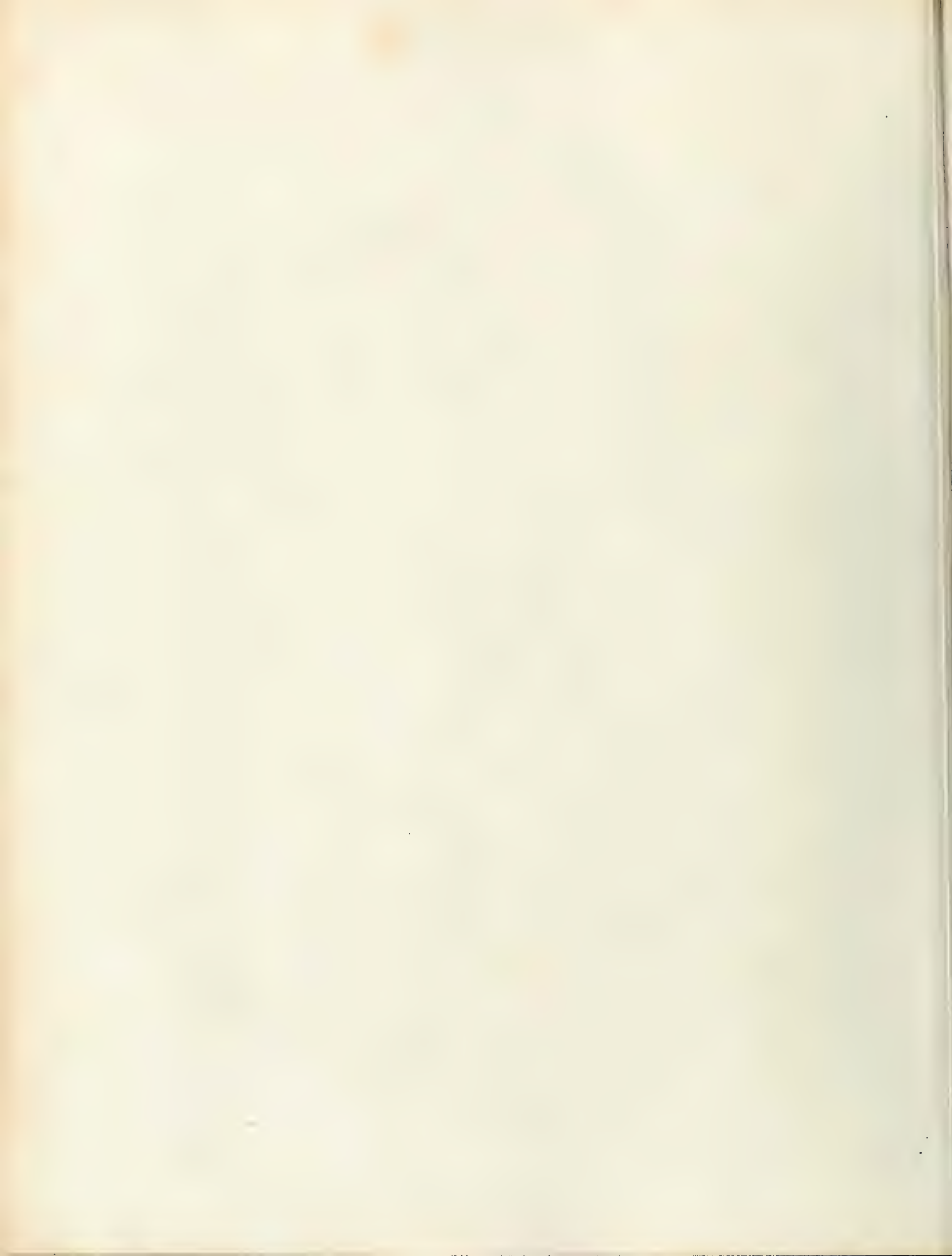


AREA



ARGUMENT





ASTRONOMY.

GENERAL VIEW OF THE SOLAR SYSTEM.
Fig. 9.

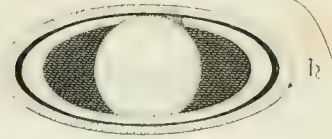
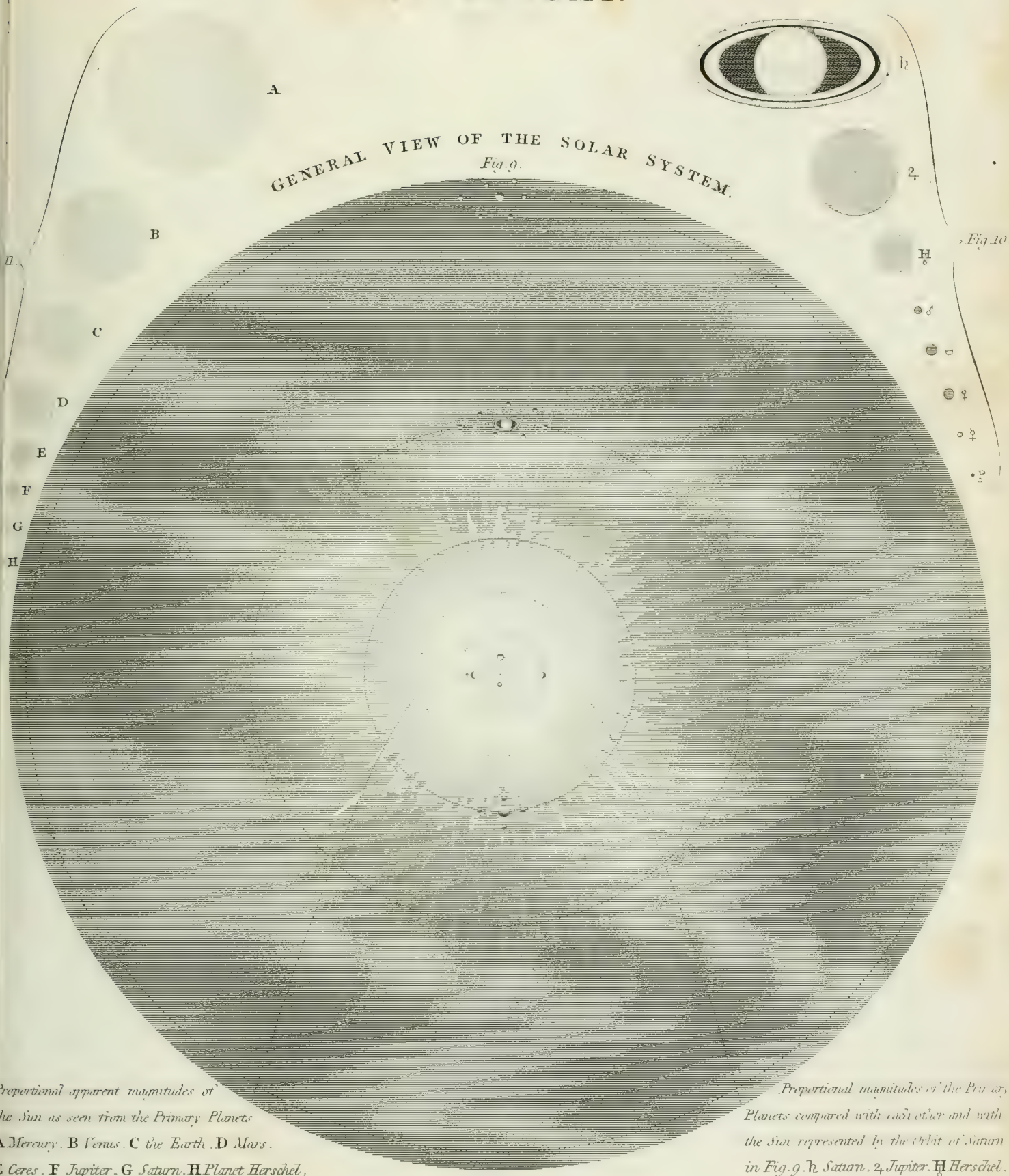
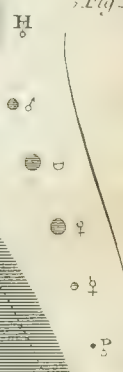


Fig. 10.



A
B
C
D
E
F
G
H

Proportional apparent magnitudes of
the Sun as seen from the Primary Planets
A Mercury. B Venus. C the Earth. D Mars.
E Ceres. F Jupiter. G Saturn. H Planet Herschel,
or Georgium Sidus.

Proportional magnitudes of the Primary
Planets compared with each other and with
the Sun represented by the orbit of Saturn
in Fig. 9. h Saturn. 2 Jupiter. H Herschel.
delta Mars. theta the Earth. phi Venus. psi Mercury.
P Ceres or Piazzi.



ASCENSION, &c

Fig. 15.

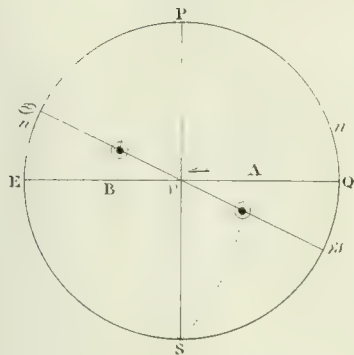


Fig. 16.

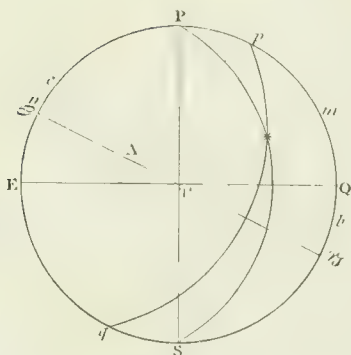
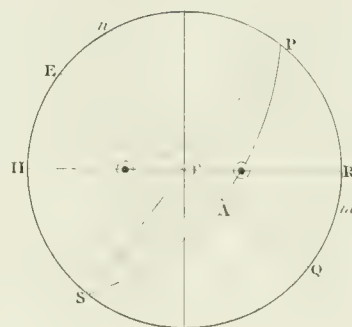
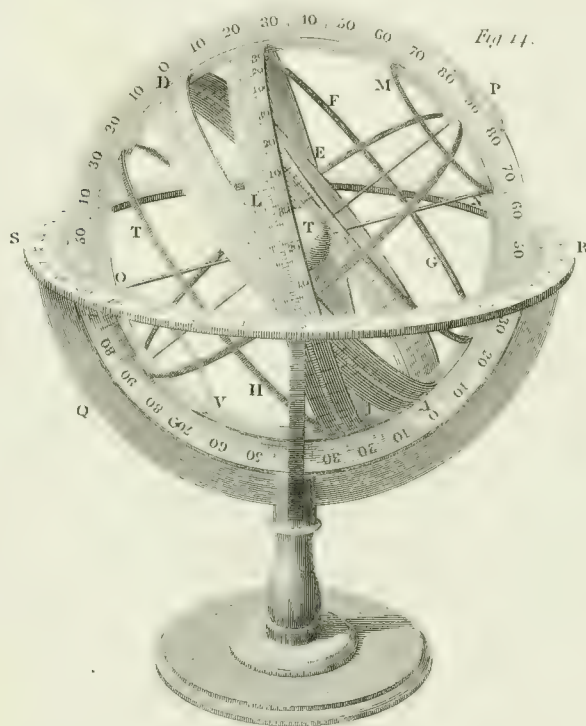


Fig. 17.



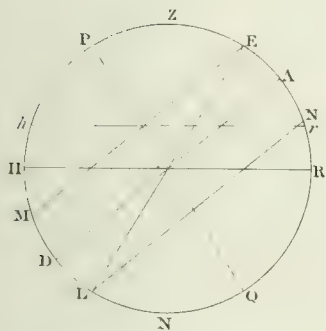
Armillary Sphere.

Fig. 14.



AXIS.

Fig. 18.

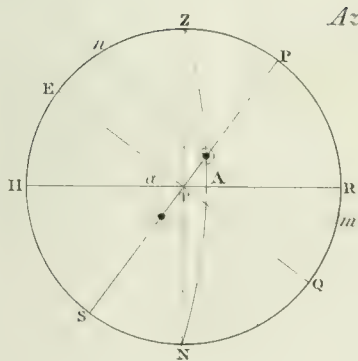


AXIS.

Fig. 19.

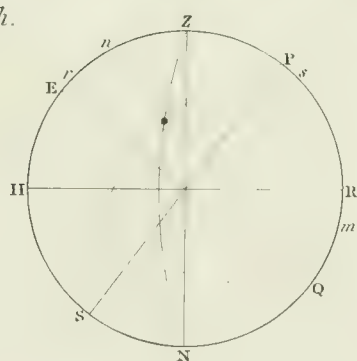


Fig. 20.



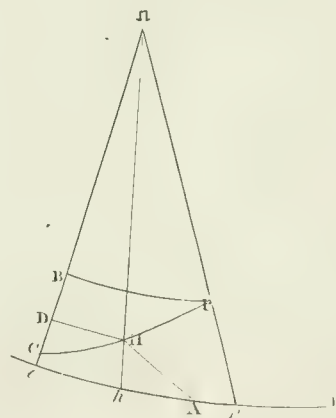
Azimuth.

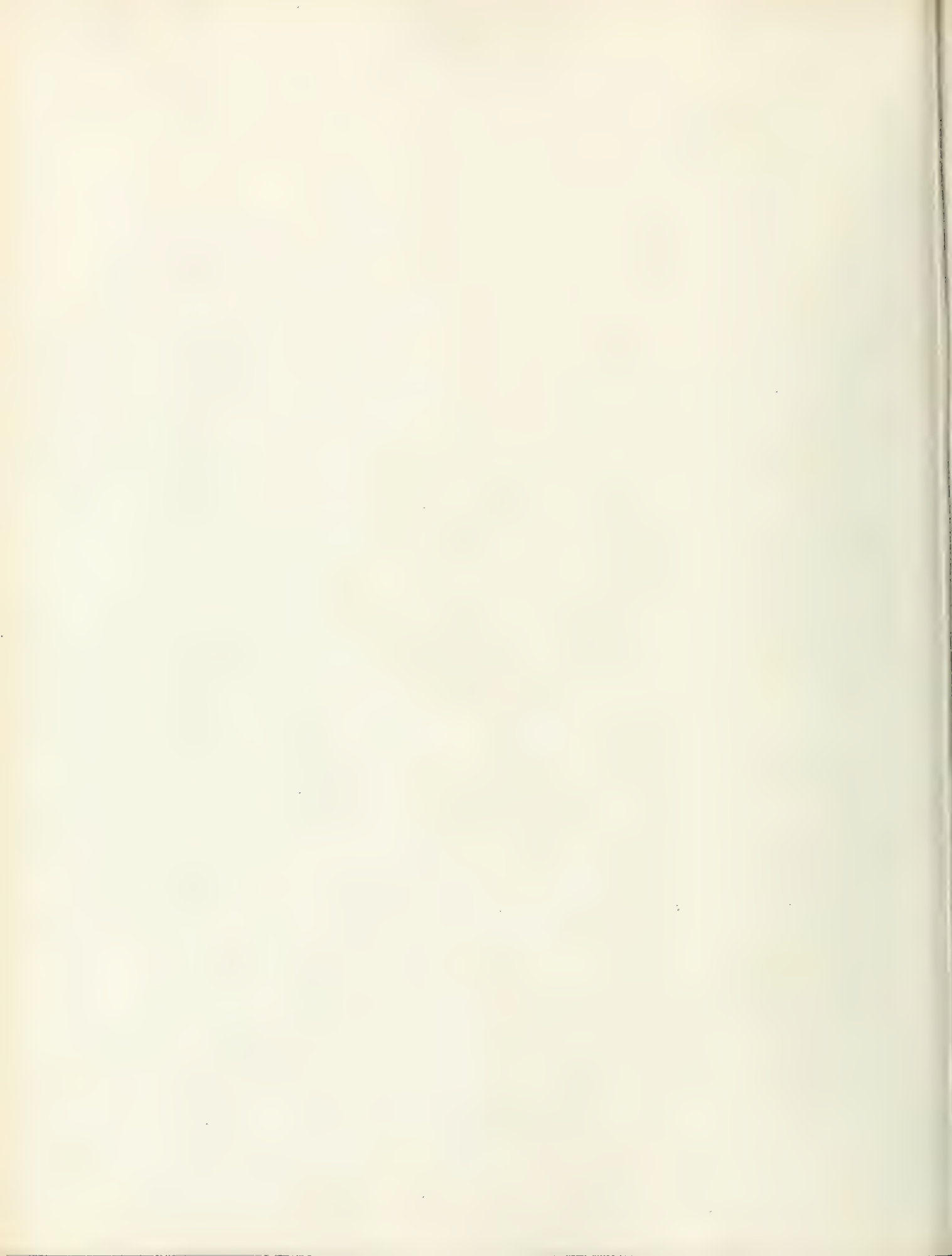
Fig. 21.



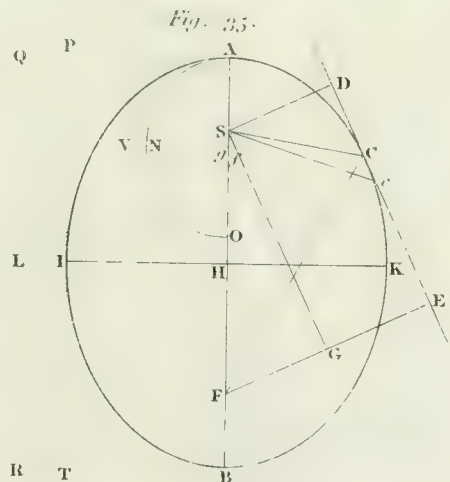
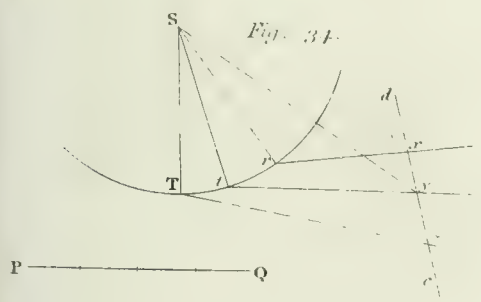
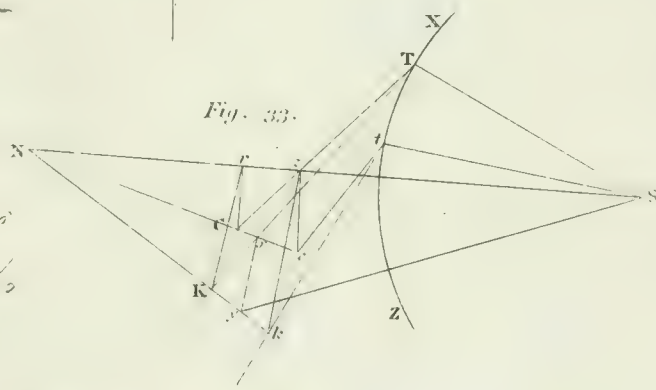
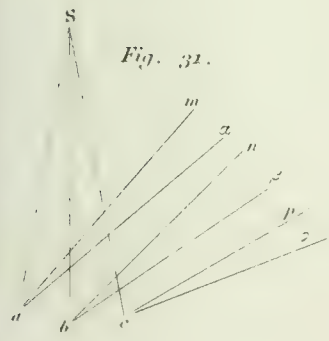
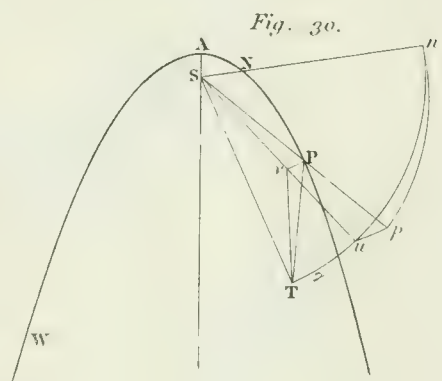
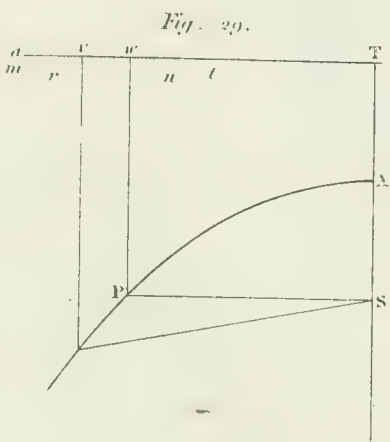
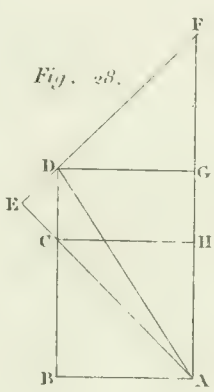
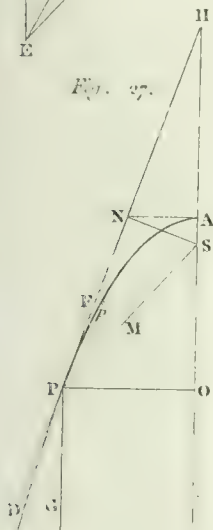
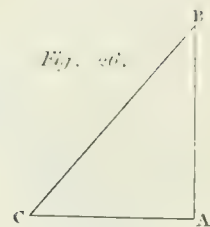
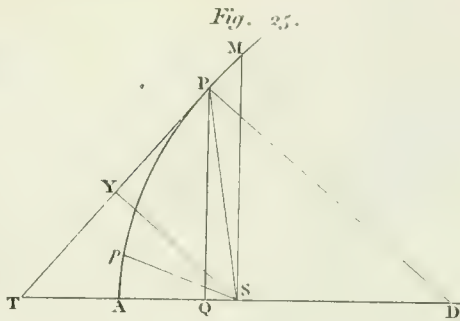
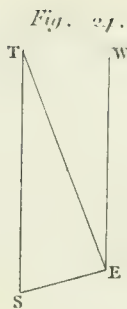
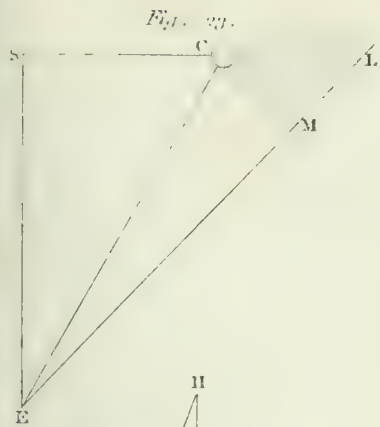
Chronology.

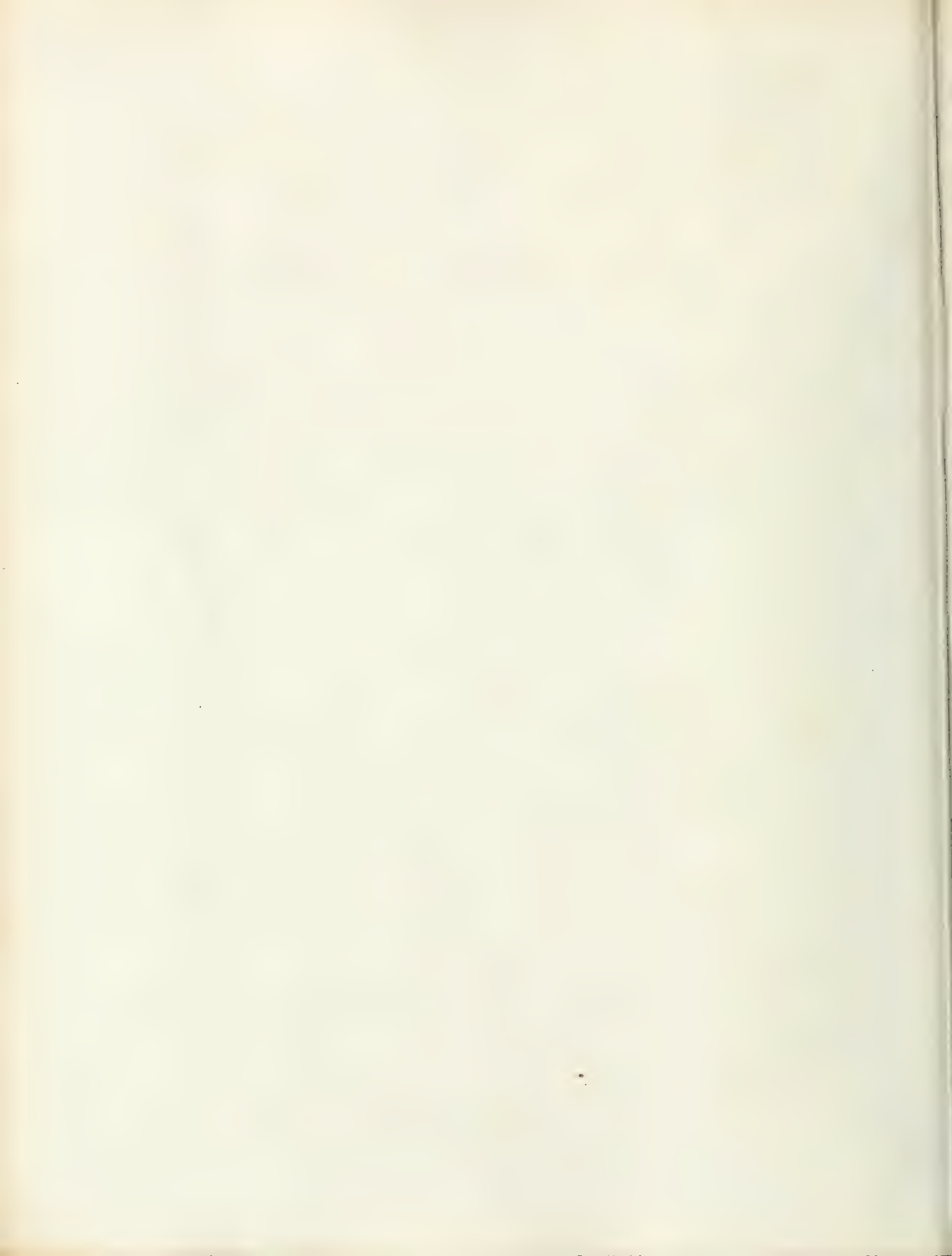
Fig. 22.





COMET





COMMUTATION

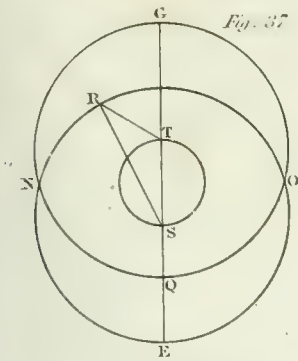
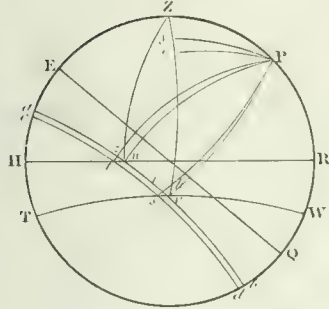


Fig. 10.



CREPUSCULUM

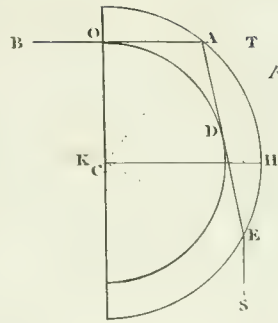


Fig. 38.

Fig. 11.

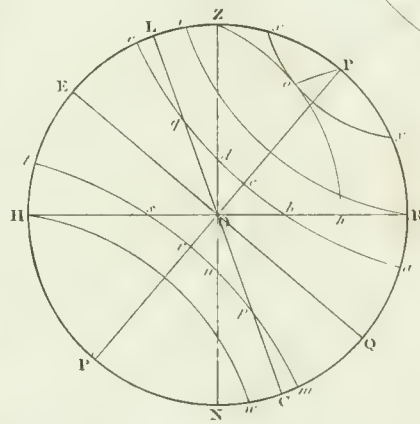
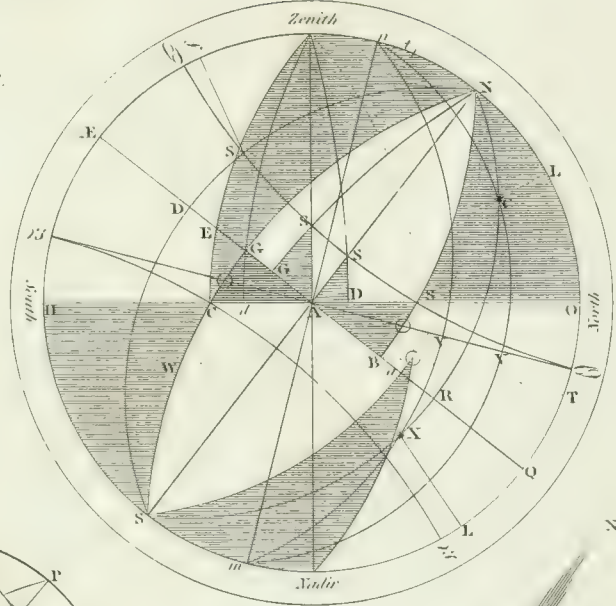
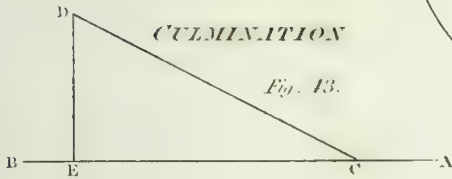


Fig. 39.



CULMINATION

Fig. 13.



DECLINATION

Fig. 44.

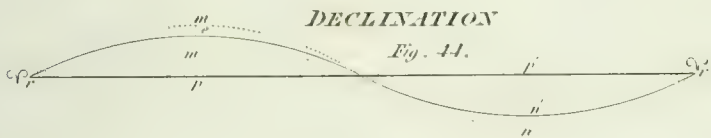
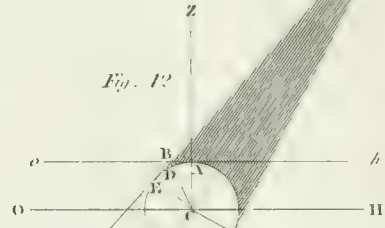


Fig. 12.



DIY

Fig. 13.

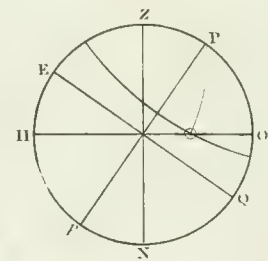
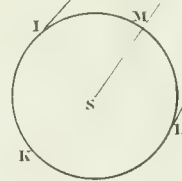


Fig. 15.

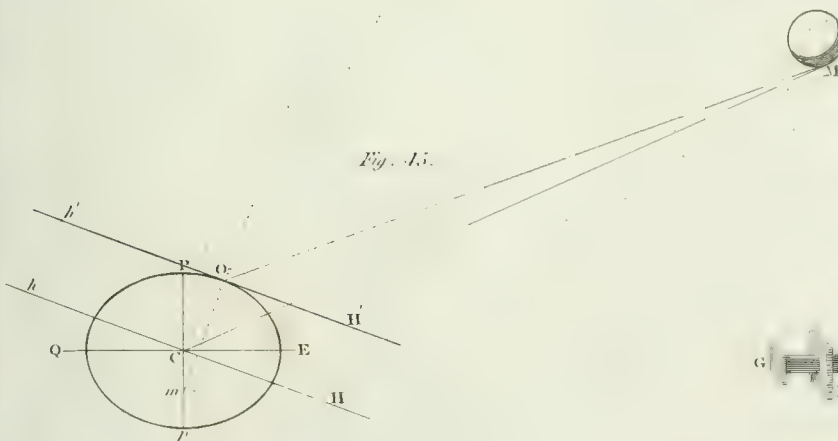
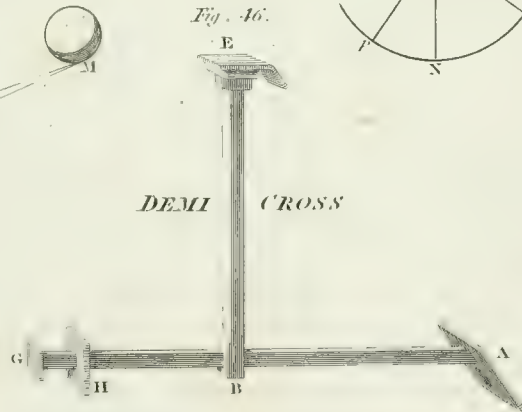


Fig. 46.

DEMI CROSS





DEGREE.

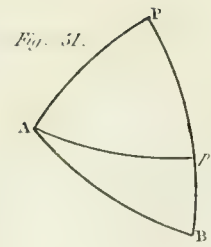
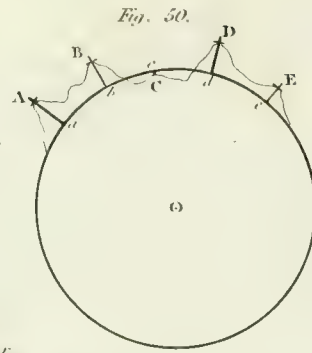
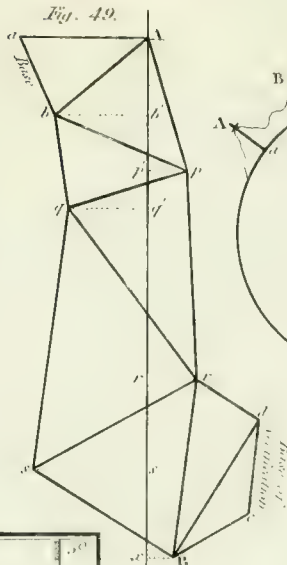
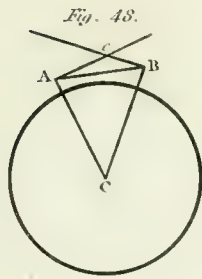
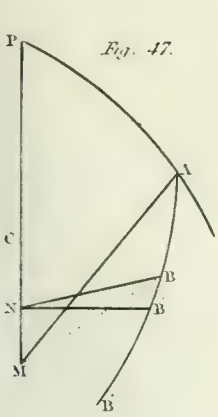
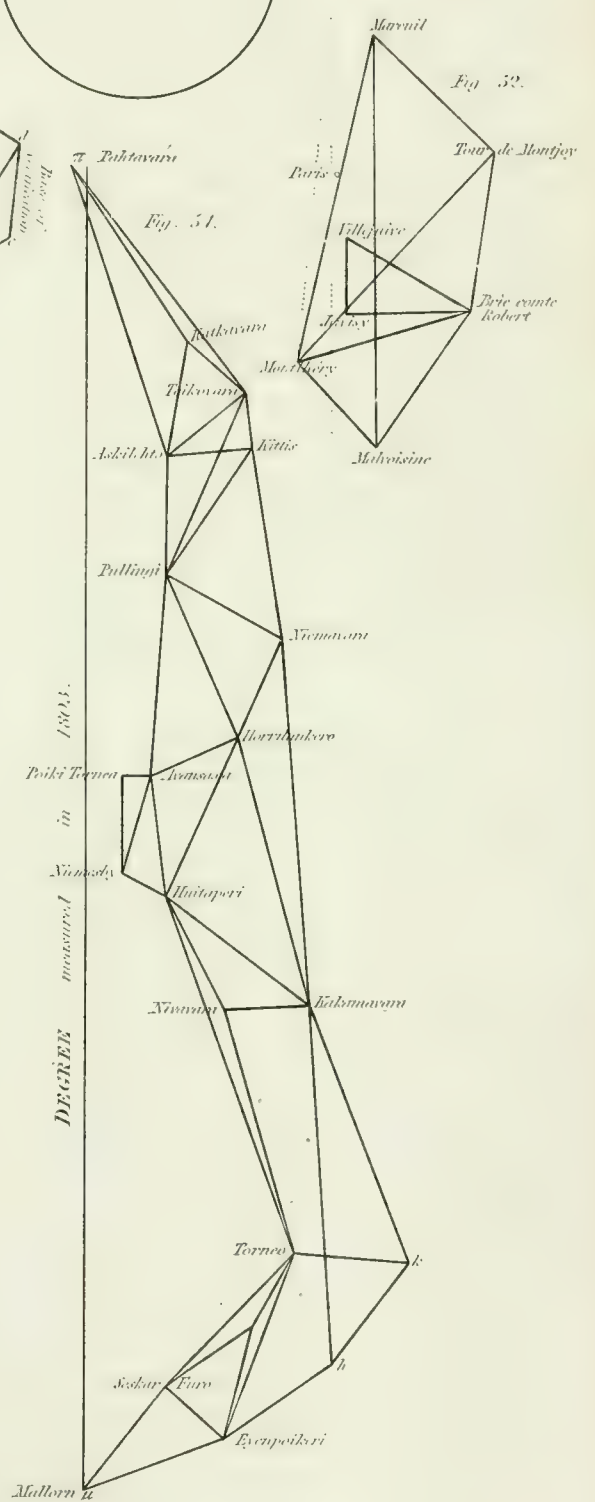
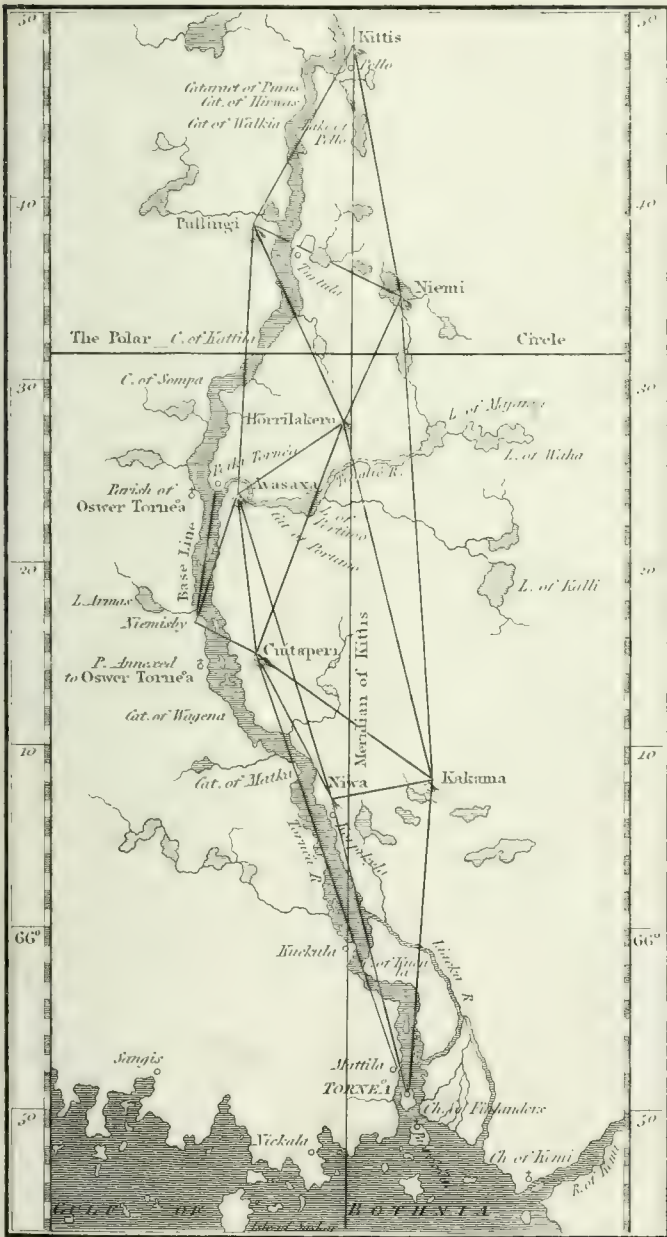


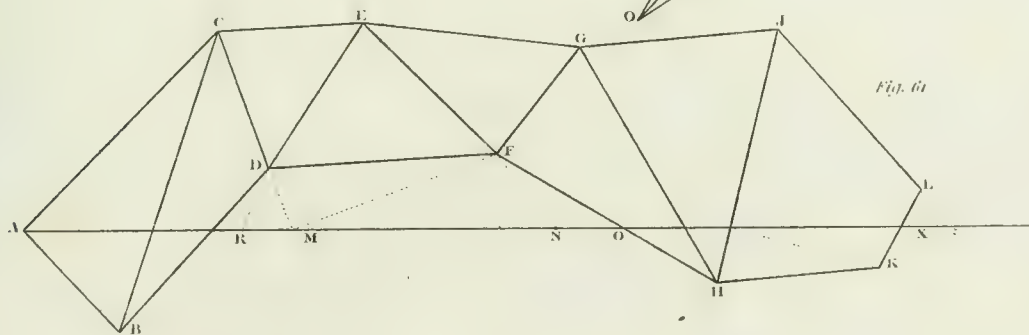
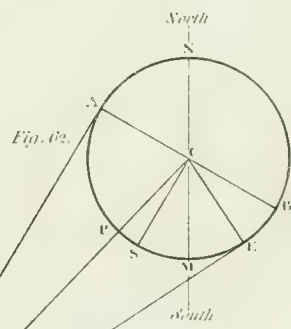
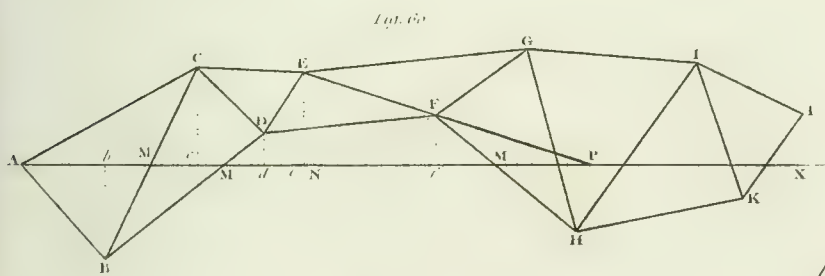
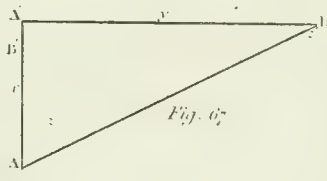
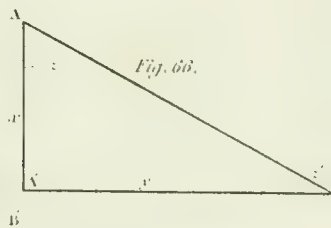
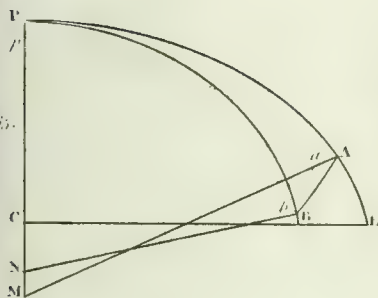
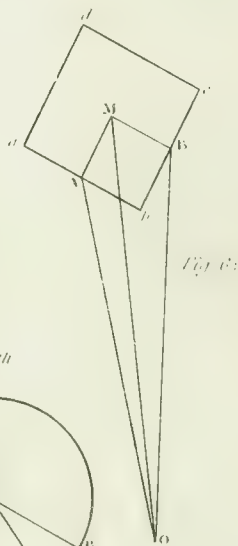
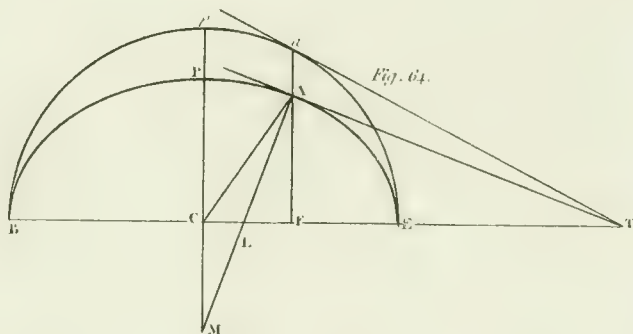
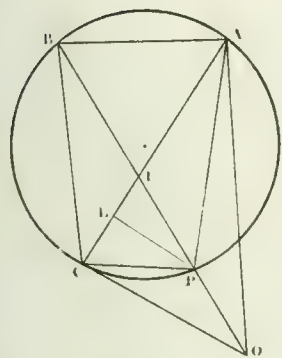
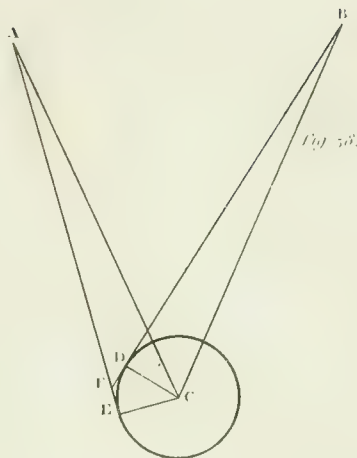
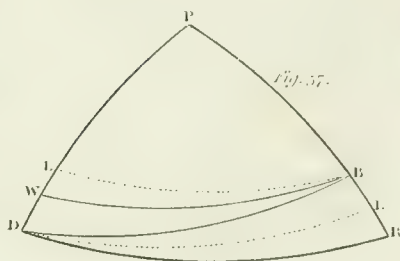
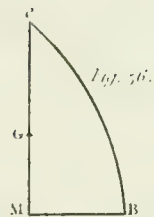
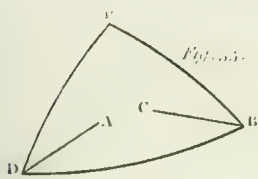
Fig. 53.

DEGREE measured in 1736.

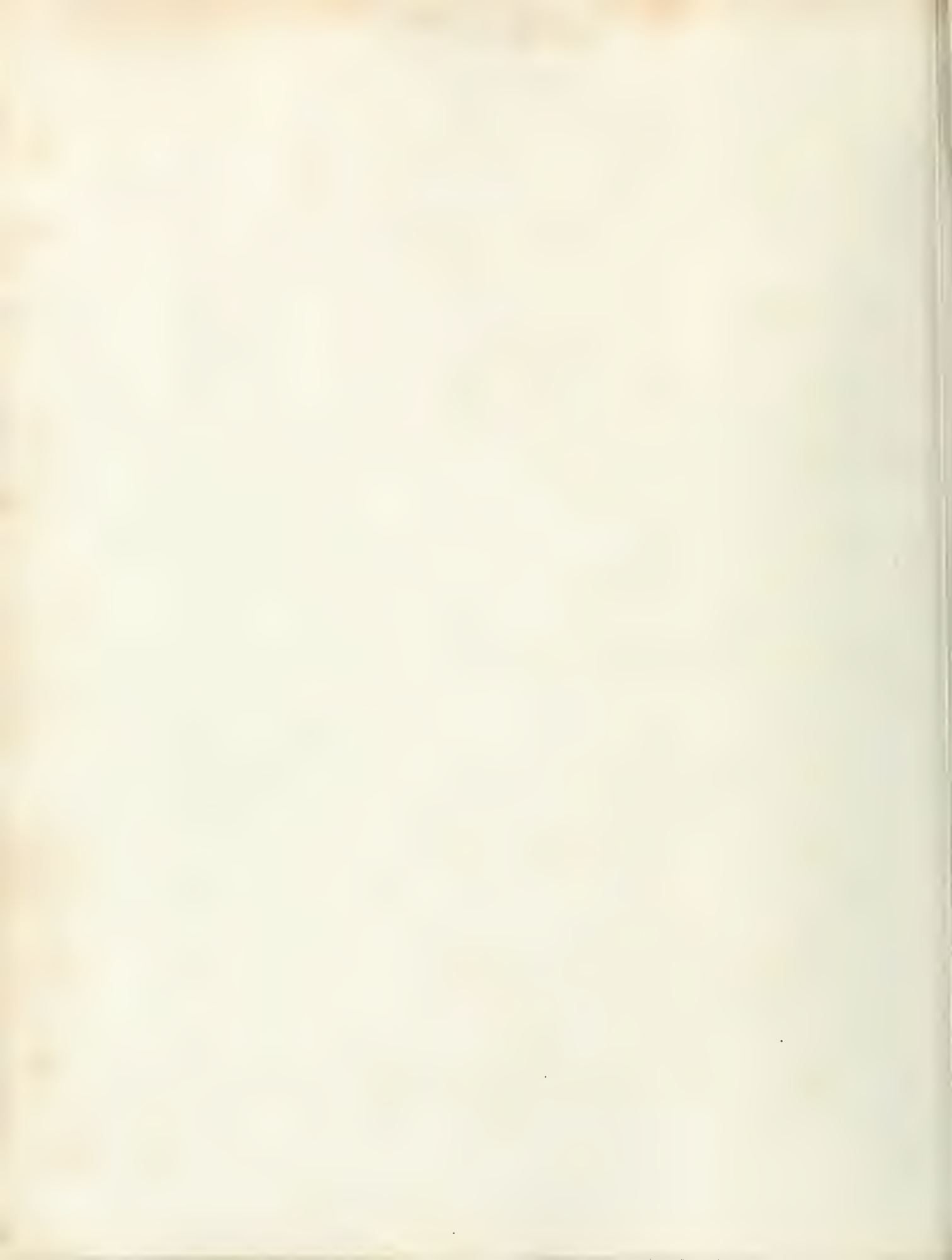




DEGREE.

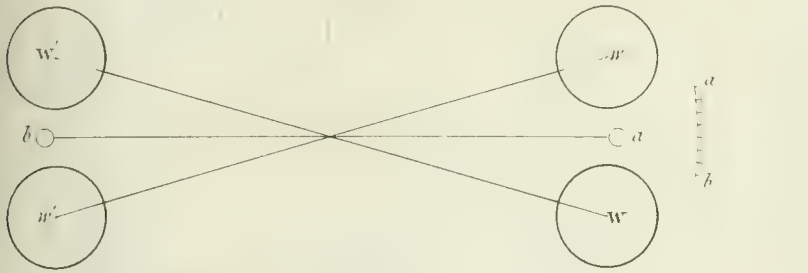


Engraved by Wilson Lowry.

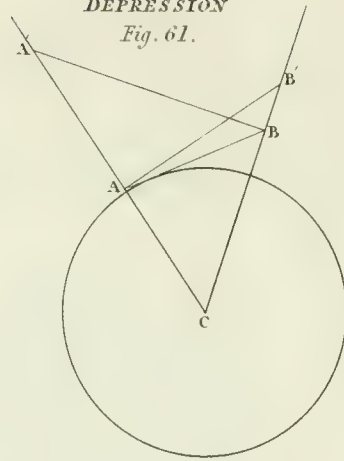




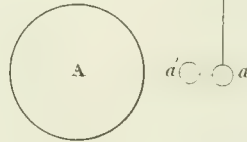
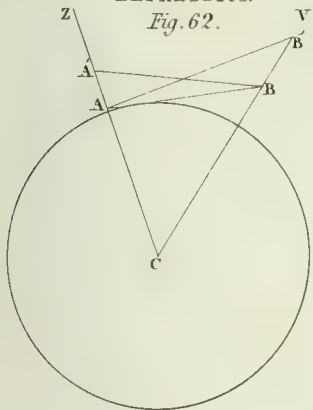
DENSITY
Fig. 60.



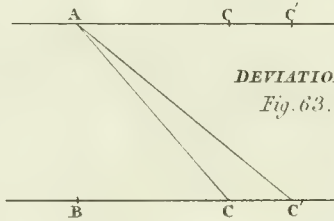
DEPRESSION
Fig. 61.



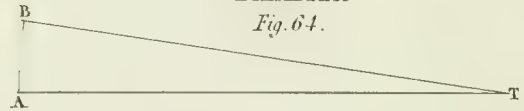
DEPRESSION
Fig. 62.



DEVIATION
Fig. 63.



DIAMETER
Fig. 64.



DIAMETER

Fig. 65.

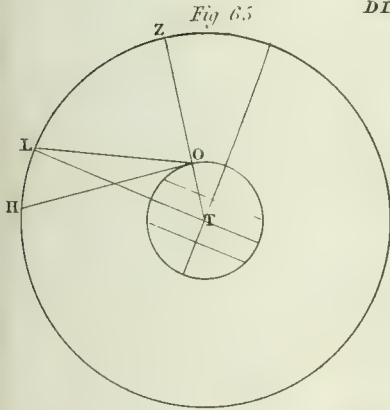
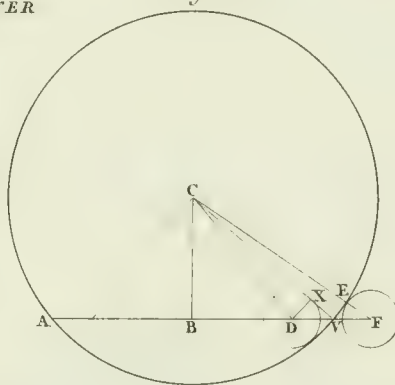
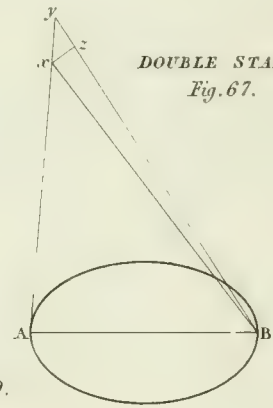


Fig. 66.



DOUBLE STAR
Fig. 67.



DICHOTOMY
* Fig. 67.

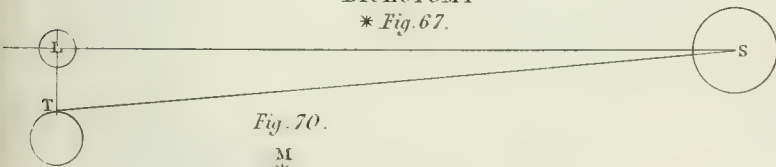
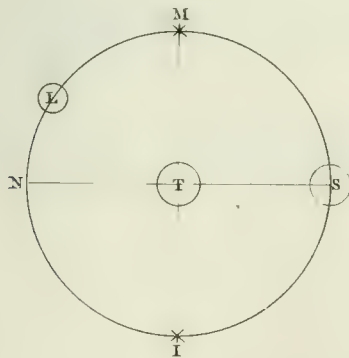


Fig. 70.



EARTH

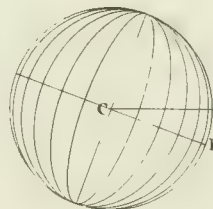


Fig. 68.

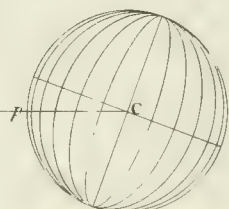
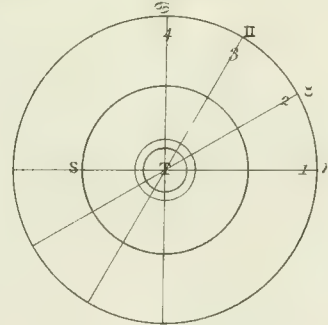
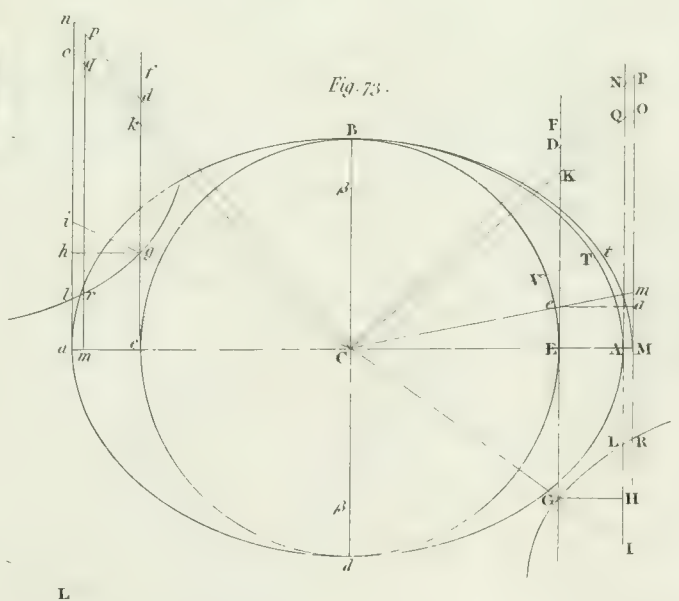
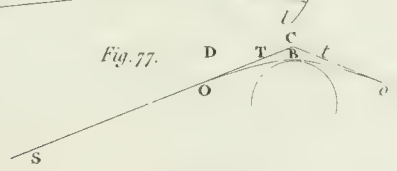
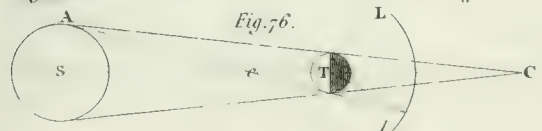
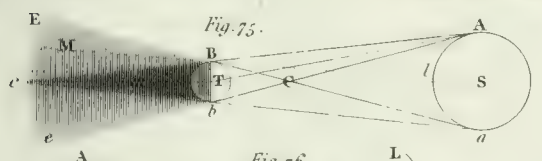
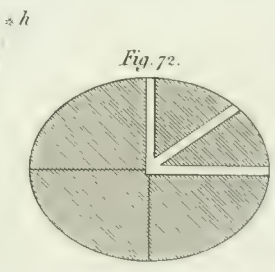
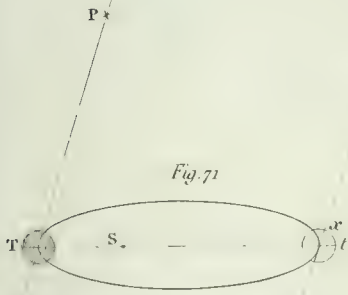
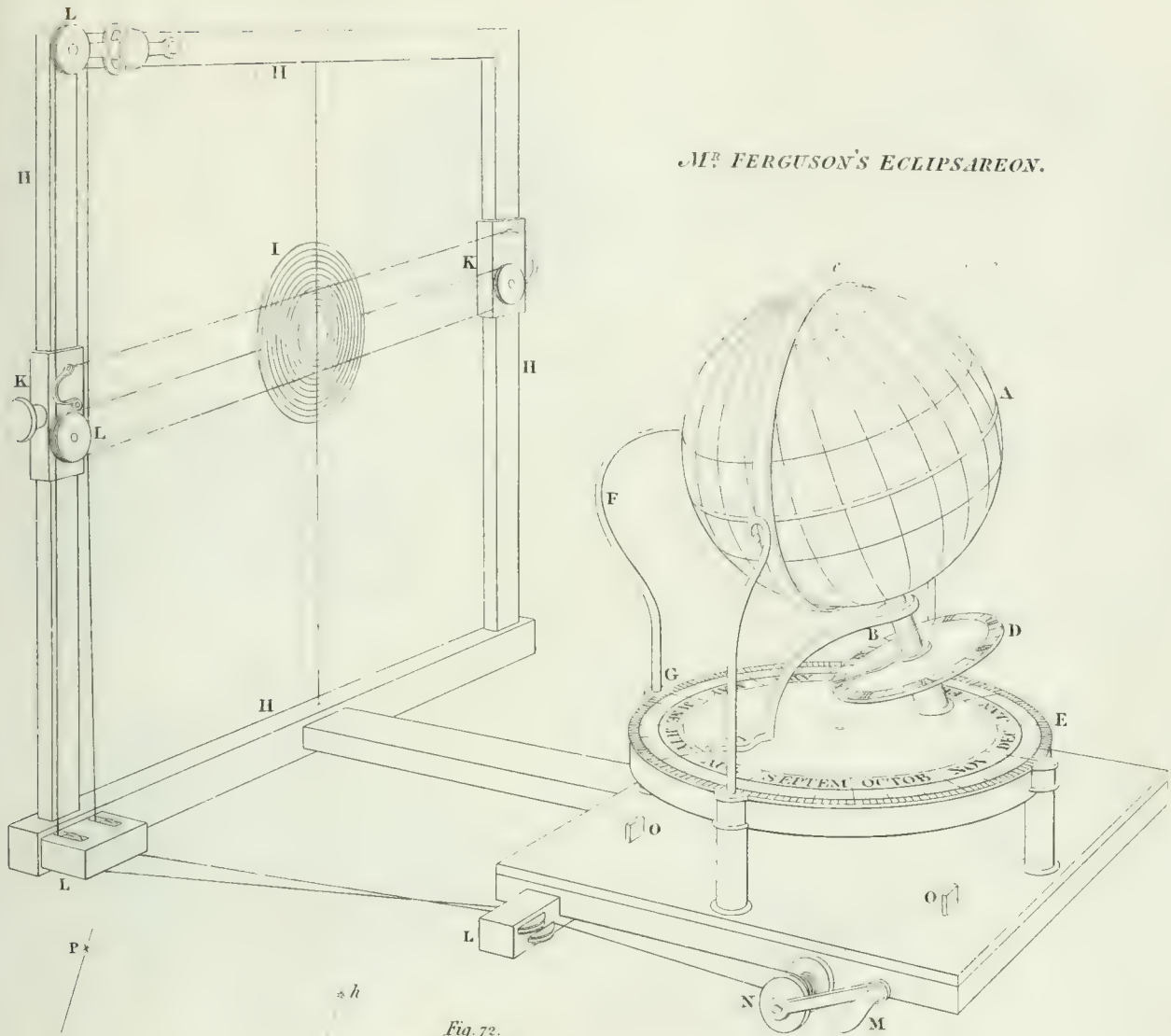


Fig. 69.





MR FERGUSON'S ECLIPSEON.





ECLIPSE.

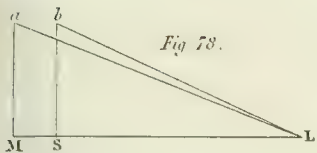


Fig. 78.

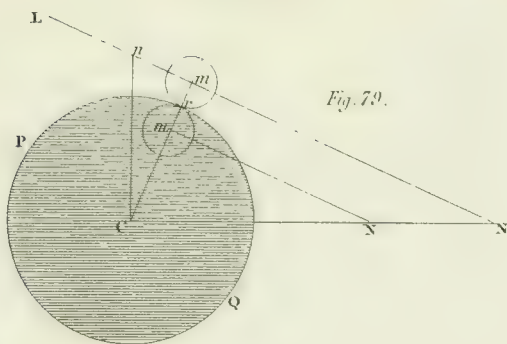


Fig. 79.

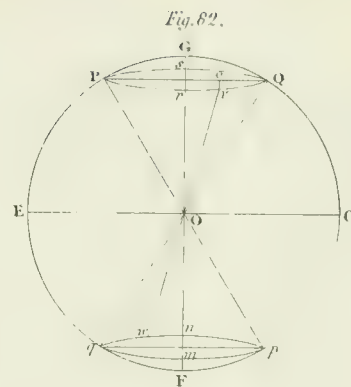


Fig. 82.

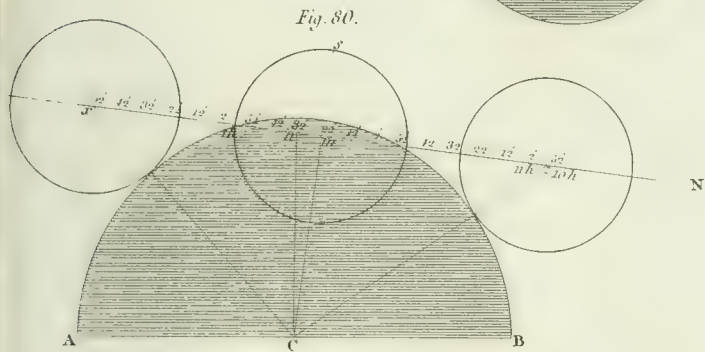


Fig. 80.

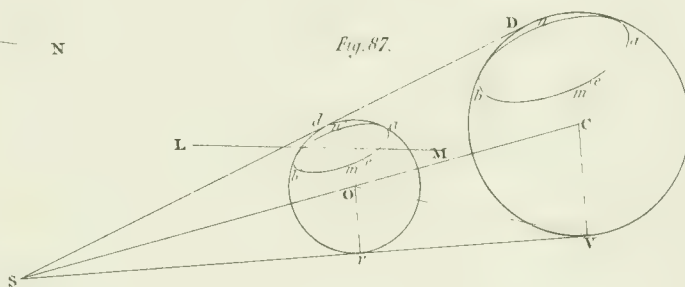


Fig. 87.

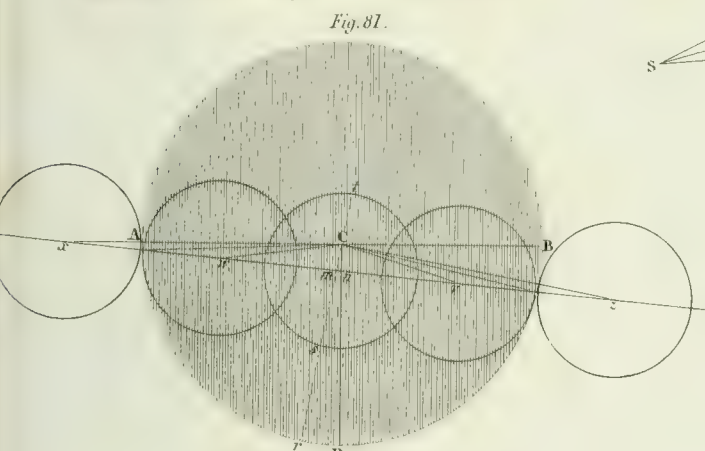


Fig. 81.

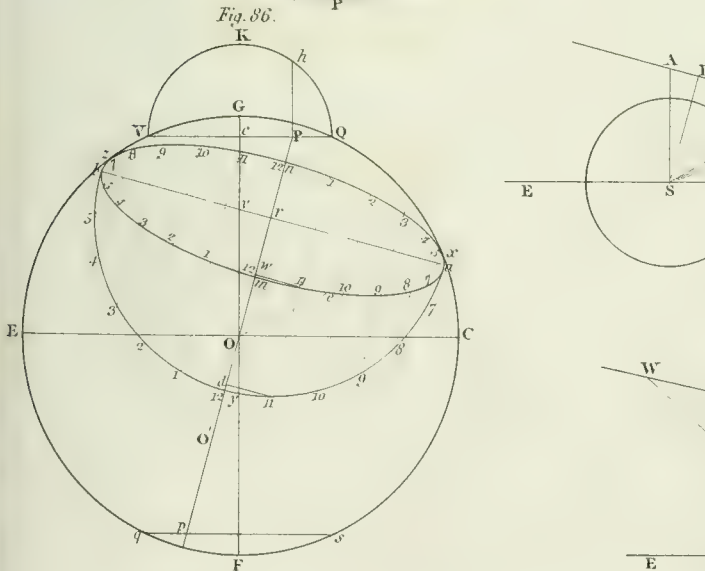


Fig. 86.

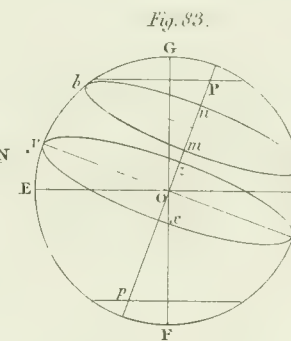


Fig. 83.

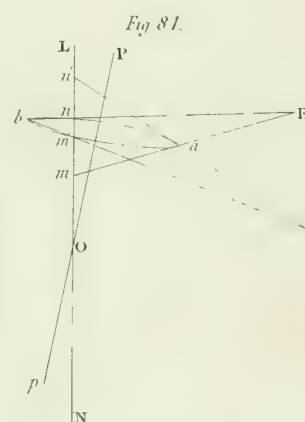


Fig. 84.

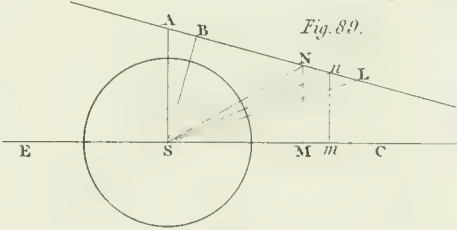


Fig. 89.

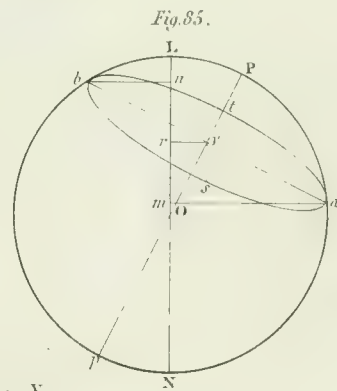


Fig. 85.

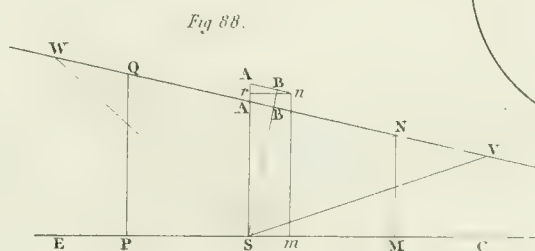


Fig. 88.



ECLIPSE.

Fig. 91 & 92.

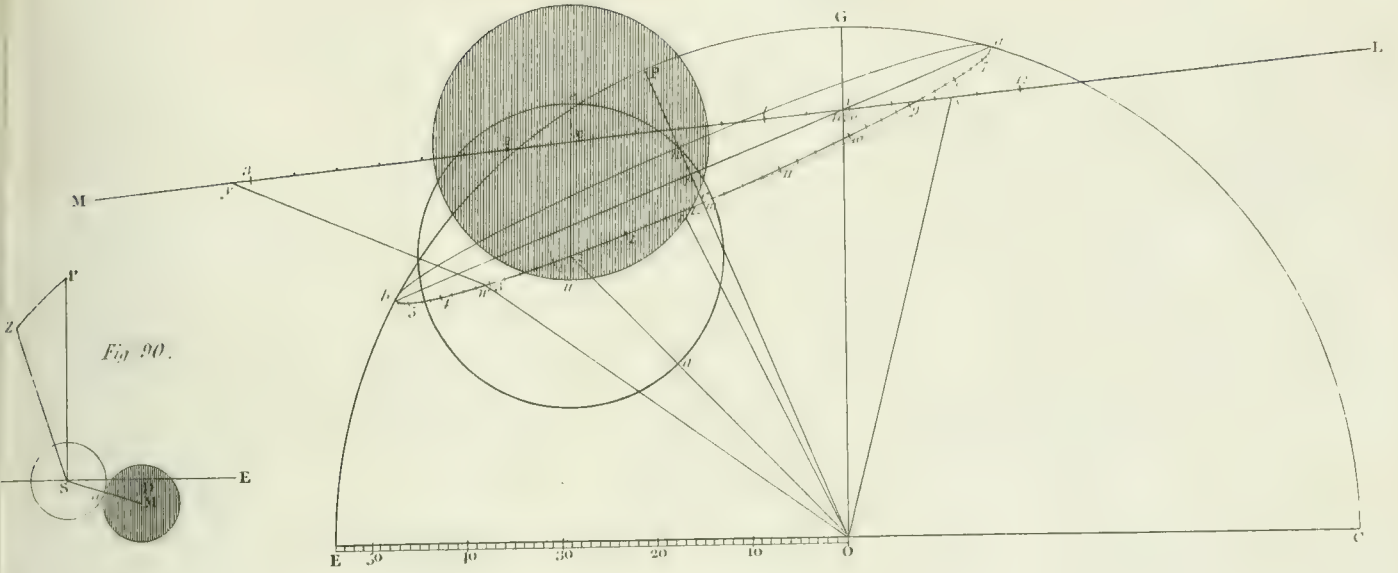


Fig. 93.

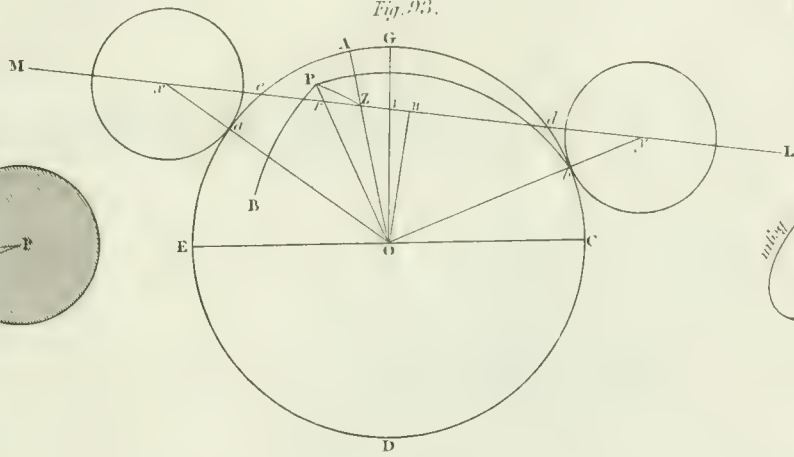


Fig. 92.

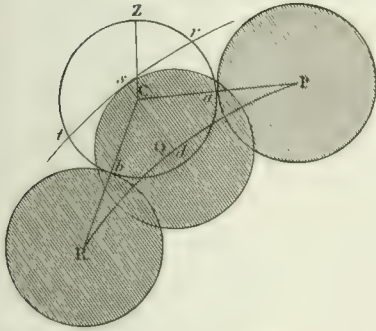


Fig. 98

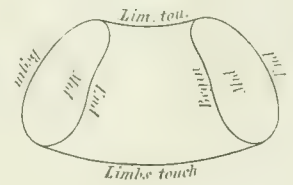


Fig. 95.

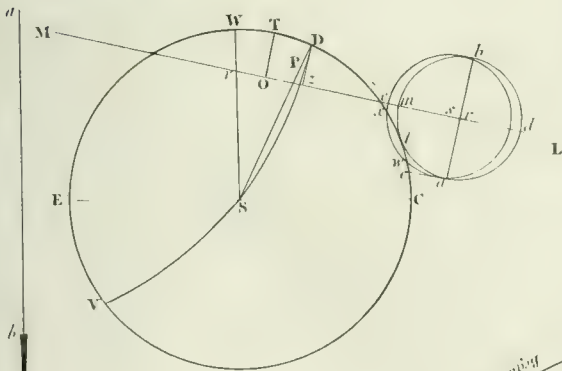


Fig. 97.

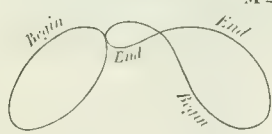


Fig. 94.

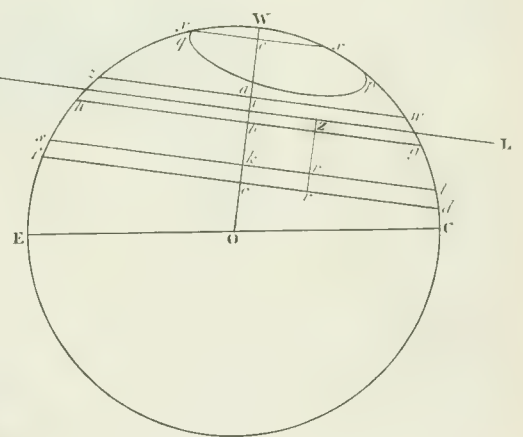


Fig. 96.

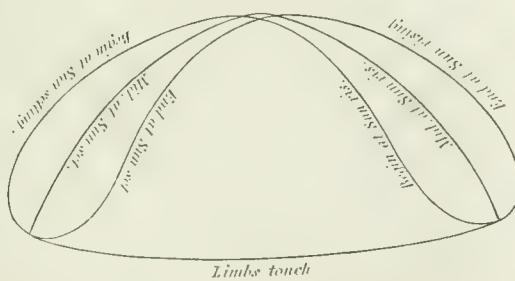




Fig. 99.
ECLIPSE



Fig. 101.
ECLIPTIC.

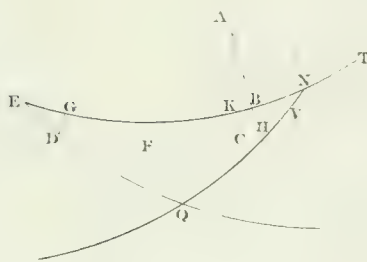
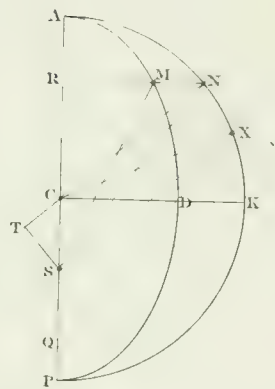


Fig. 103.
ELLIPTIC



EPICYCLE

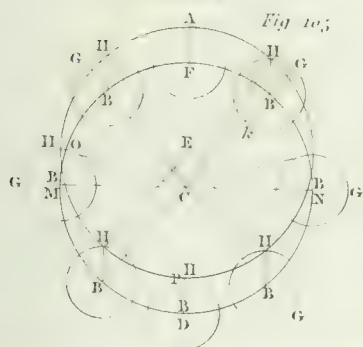
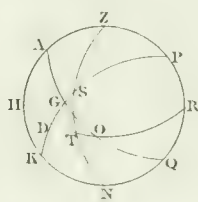


Fig. 102.

ELEVATION



EQUAL ALTITUDE

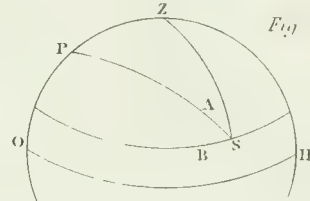


Fig. 106.

Fig. 100.
ECLIPSE

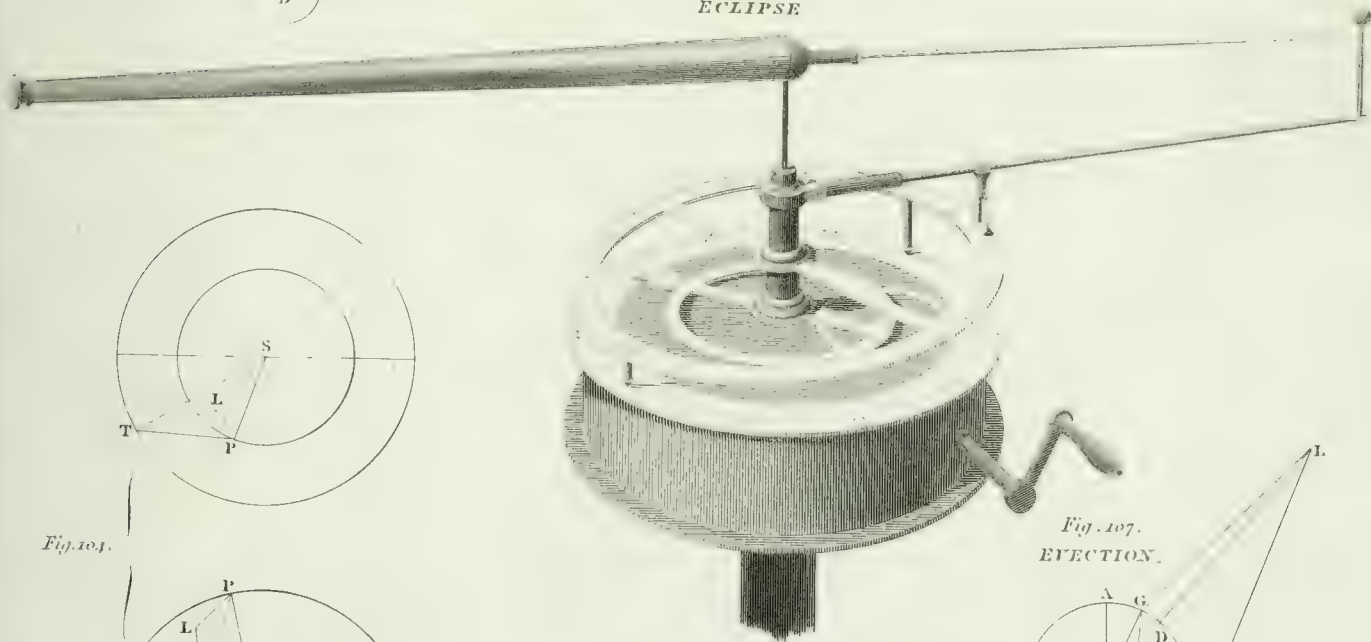


Fig. 104.

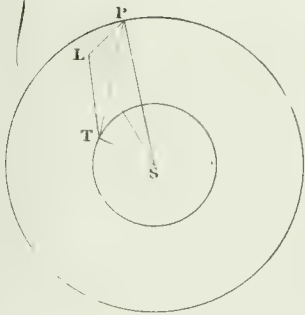
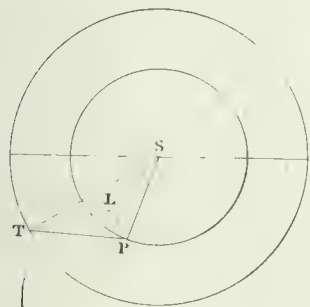


Fig. 107.
EVECTION.

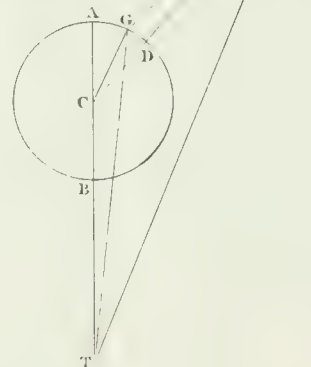
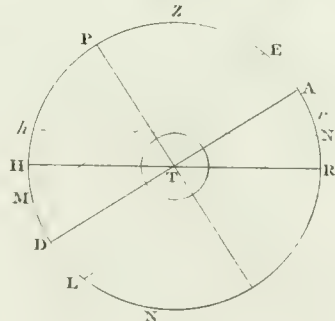


Fig. 109.*
EQUATOR





ASTRONOMY.
ECLIPTIC.

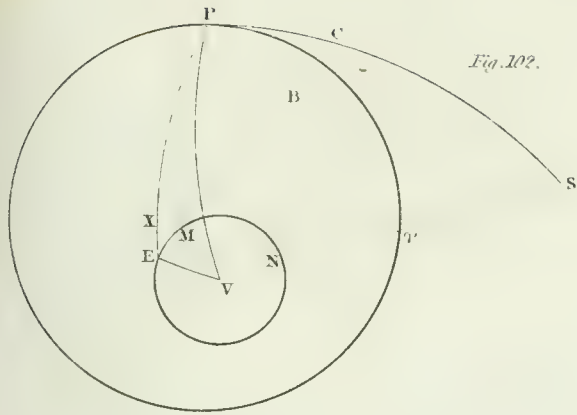


Fig. 102.

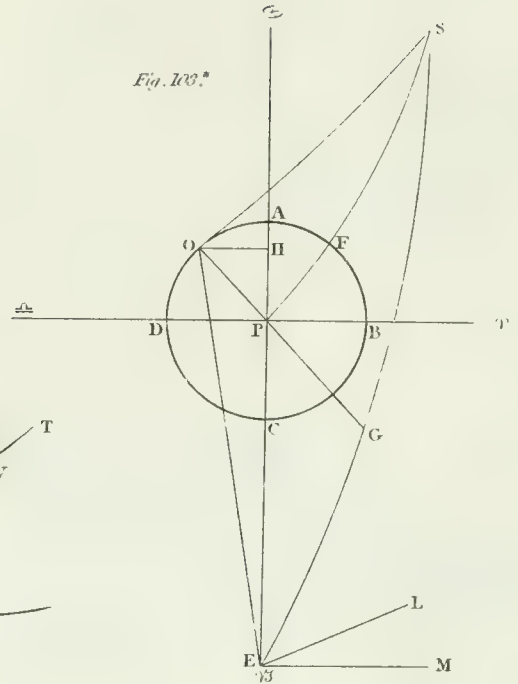


Fig. 103*.

EQUINOX
Fig. 110.

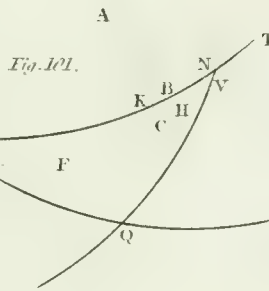
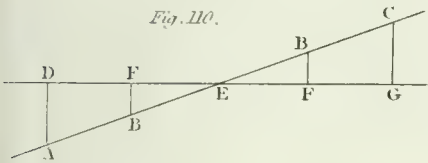


Fig. 101.

EQUATION of CENTER.

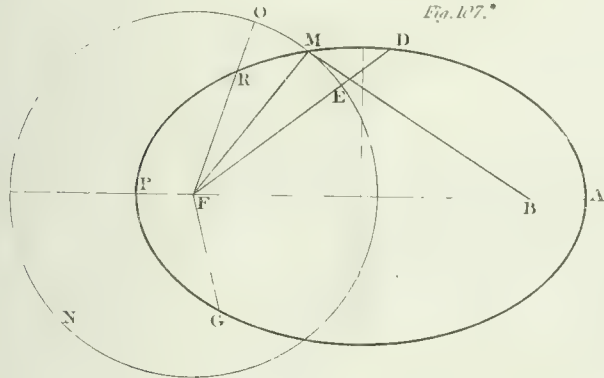
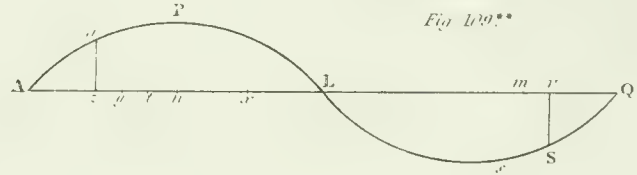


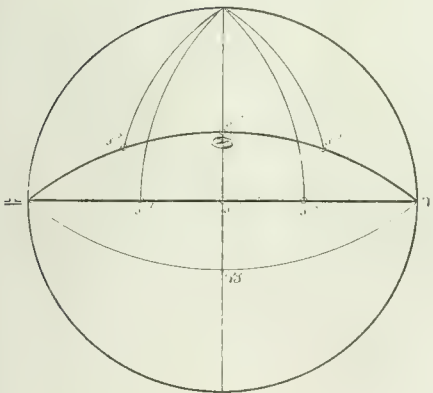
Fig. 107*.

EQUATION of TIME.

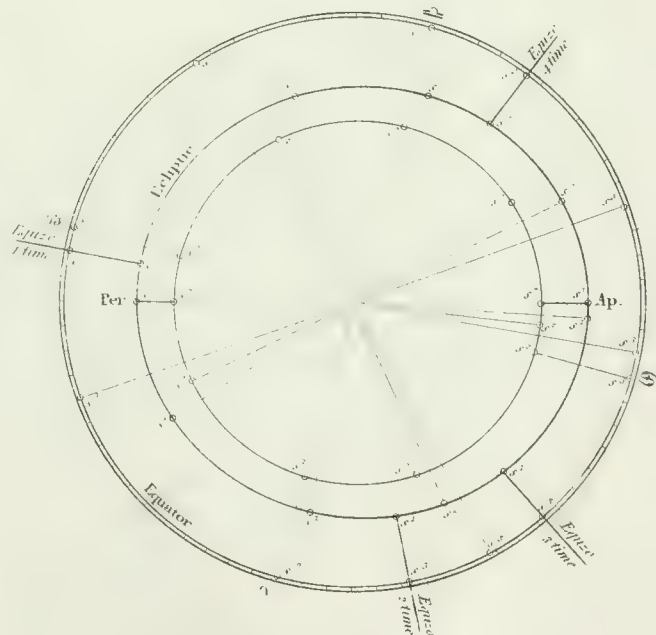
Fig. 109**.



N^o 1.

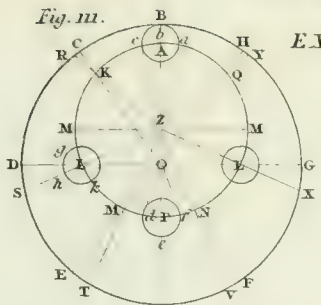
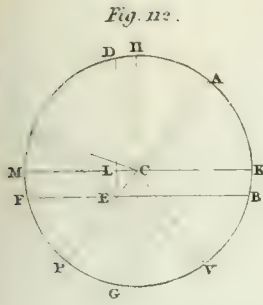


EQUATION of TIME
Fig. 108.



N^o 2.





EXCENTRIC.

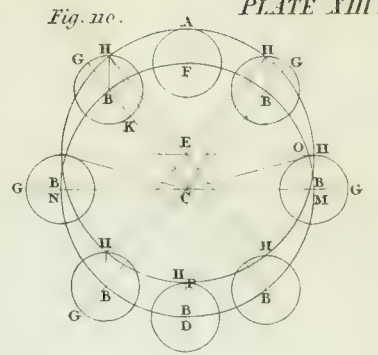
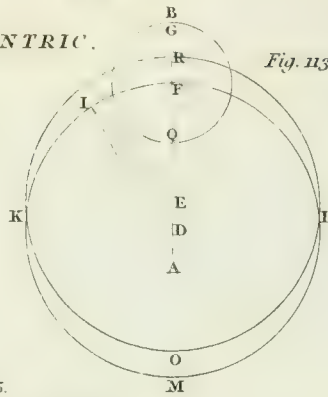


Fig. 5.

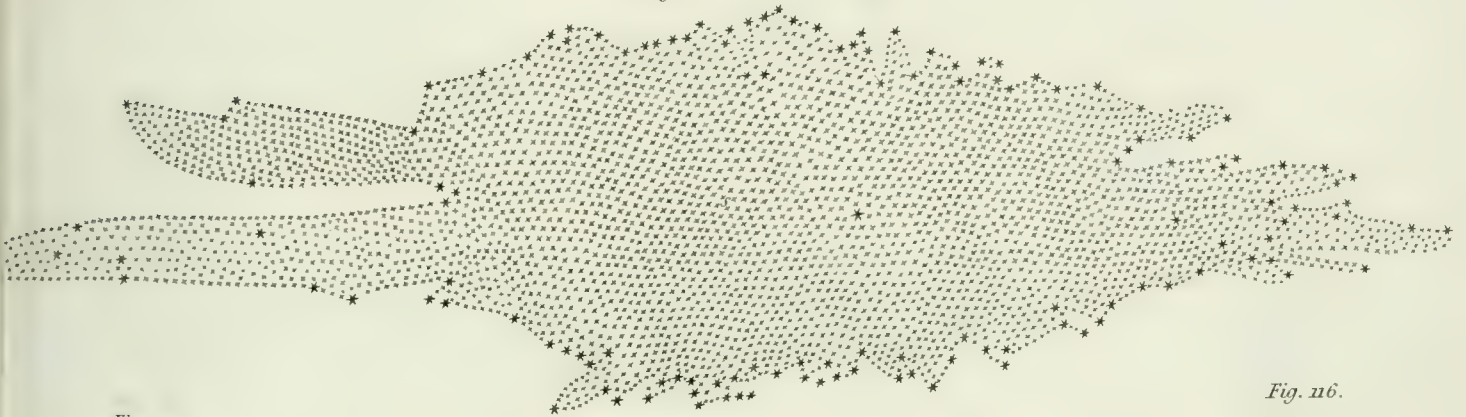
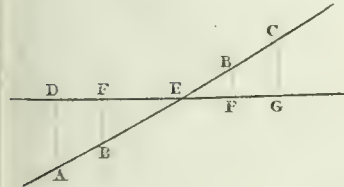


Fig. 10.



GALAXY

Fig. 14.

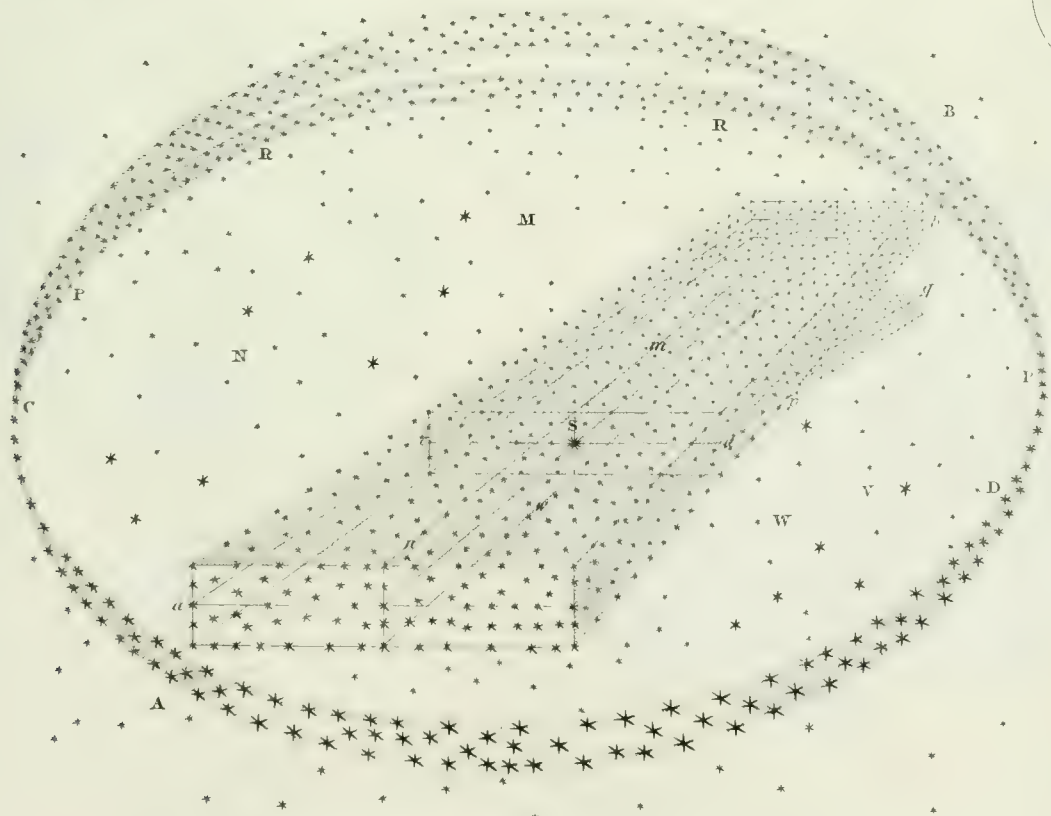
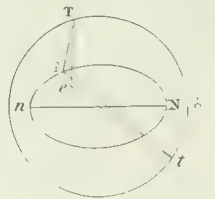
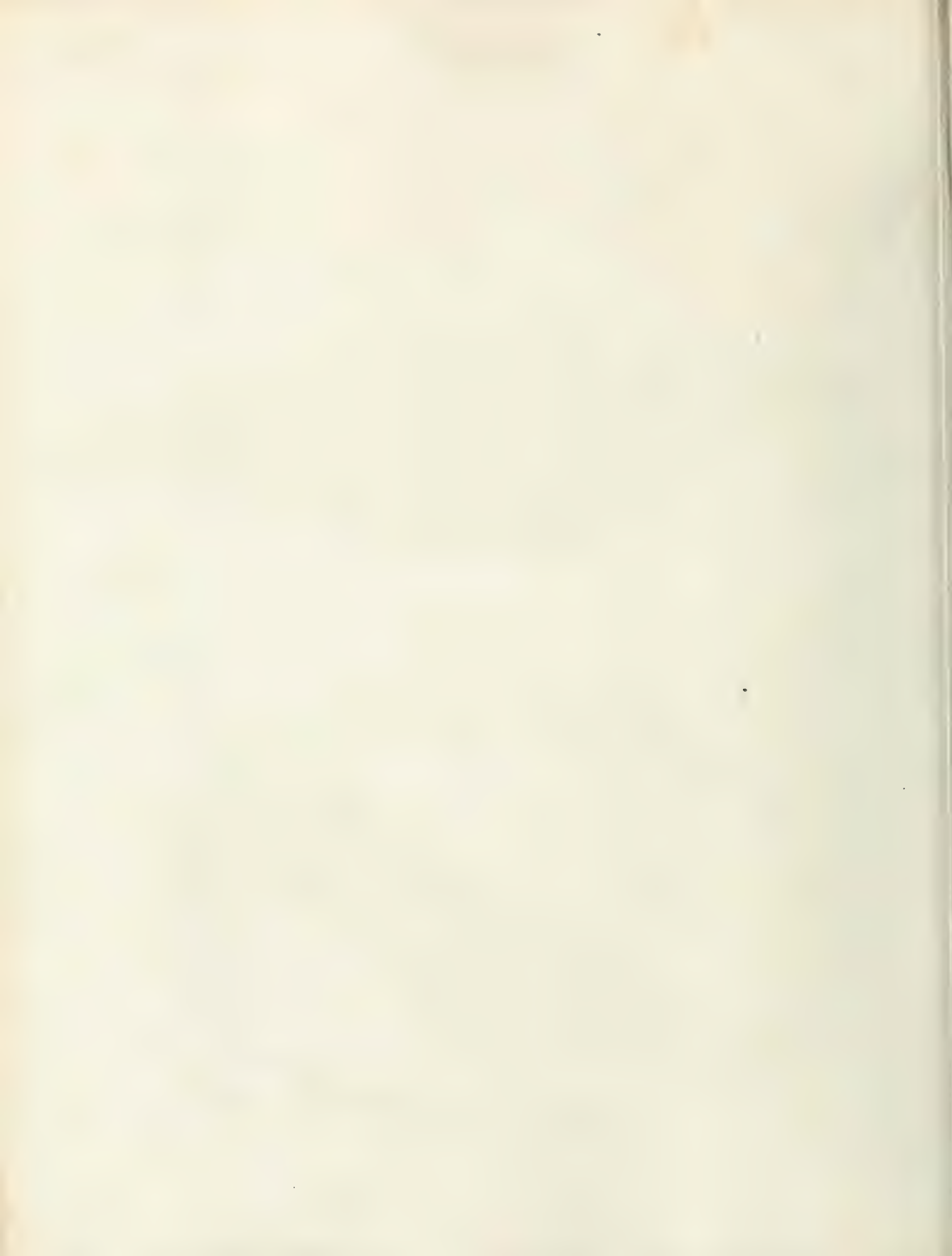


Fig. 16.

GEOCENTRIC.





GLOBE.

Fig. 117.

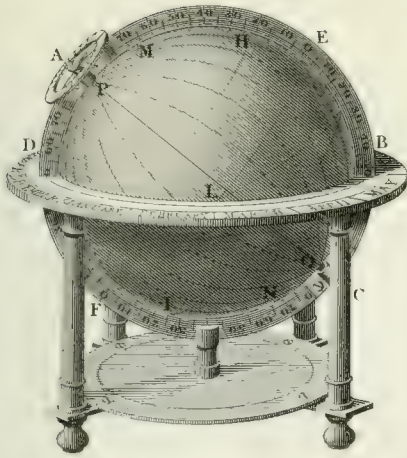


Fig. 118.

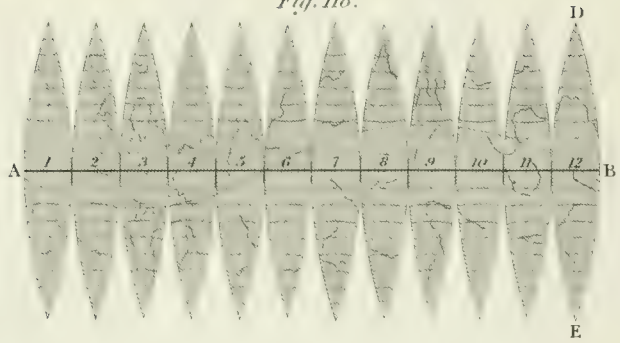


Fig. 119 & 121.

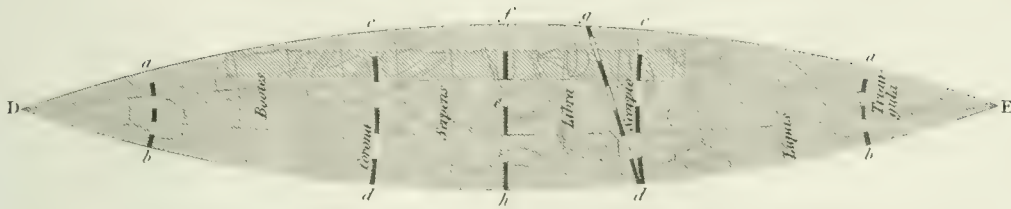


Fig. 120.

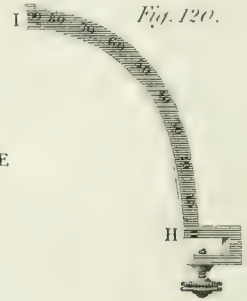


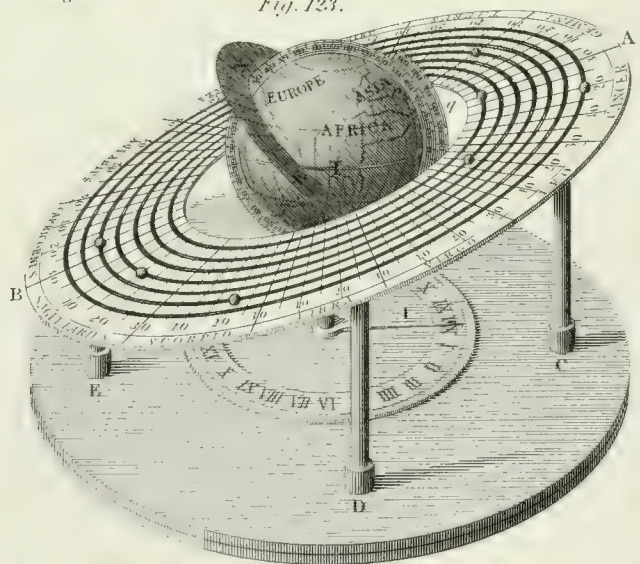
Fig. 122.

Ferguson's Celestial Globe.



Ferguson's Planetary Globe.

Fig. 123.





ASTRONOMY.
GRAVITATION.

Fig. 124.

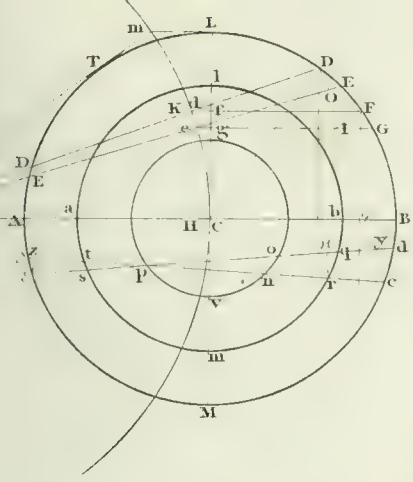


Fig. 125.

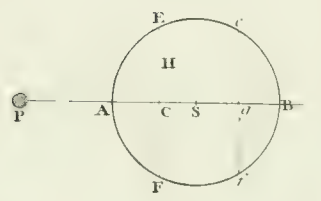


Fig. 127.

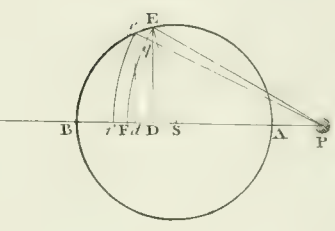


Fig. 126.

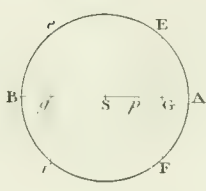


Fig. 128.

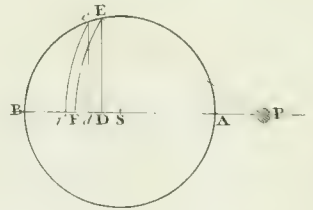


Fig. 130.

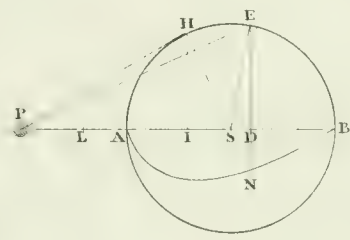


Fig. 129.

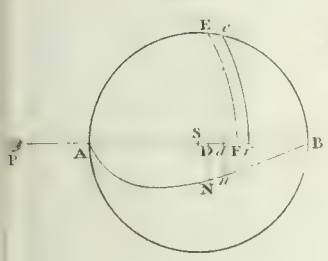


Fig. 131.

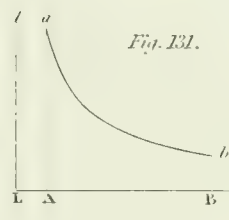


Fig. 132.

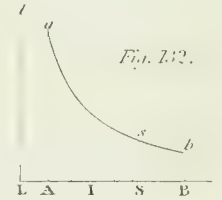


Fig. 134.

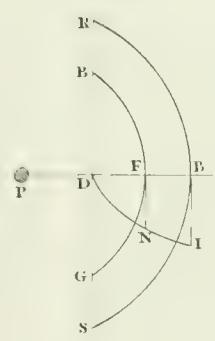


Fig. 135.

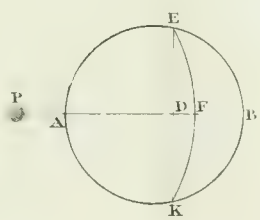


Fig. 138.

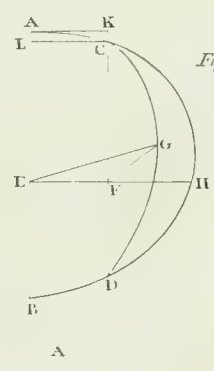


Fig. 136.

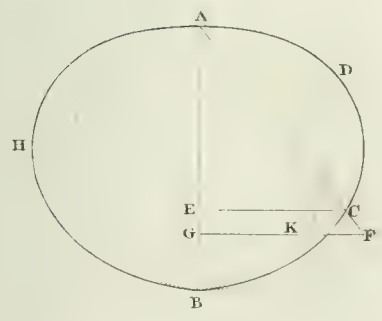


Fig. 137.

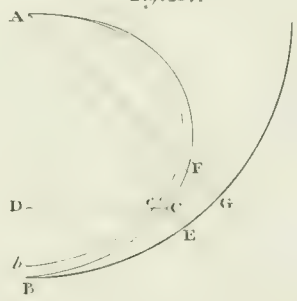
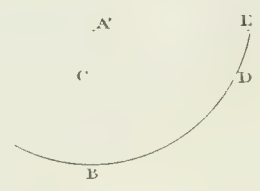
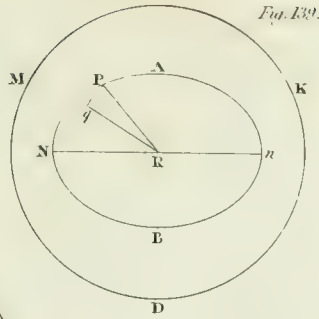


Fig. 137.

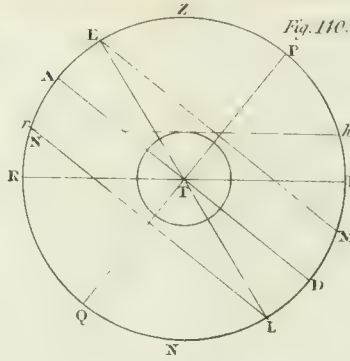




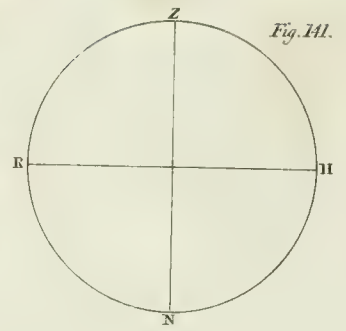
HELIOCENTRIC.
Latitude.



HEMISPHERE, HORIZON, TROPICS.



HORIZON.



HEAT.

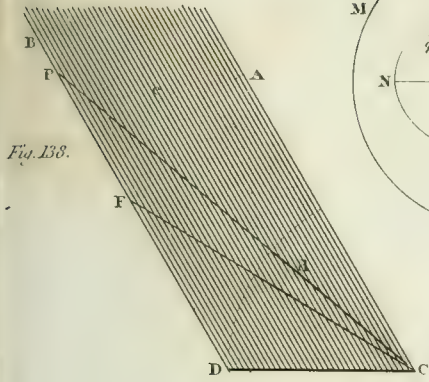
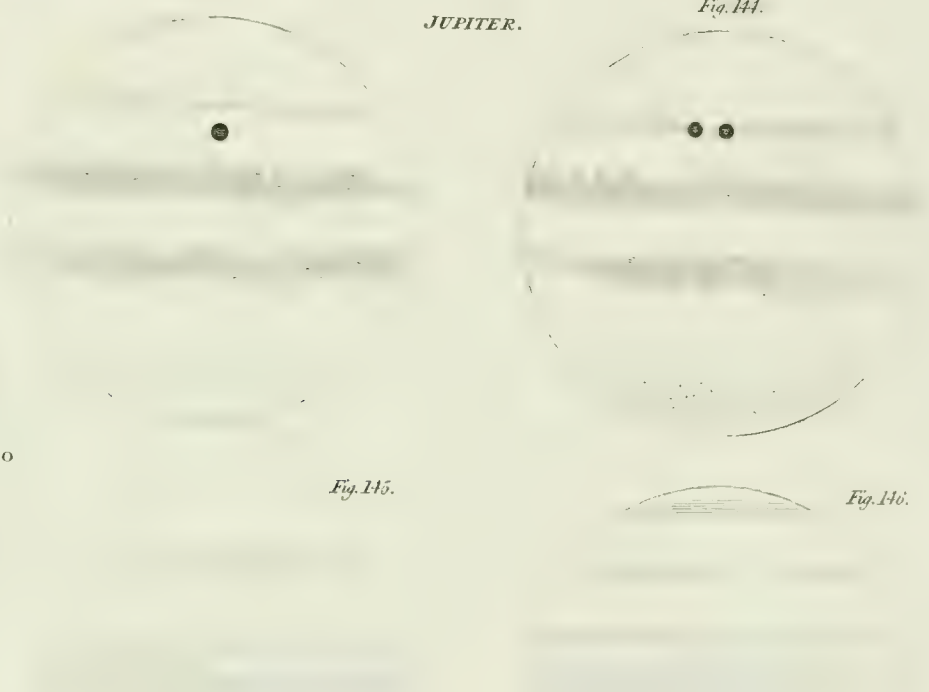


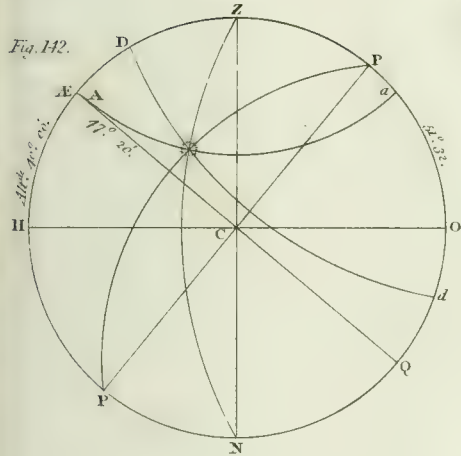
Fig. 143.

JUPITER.

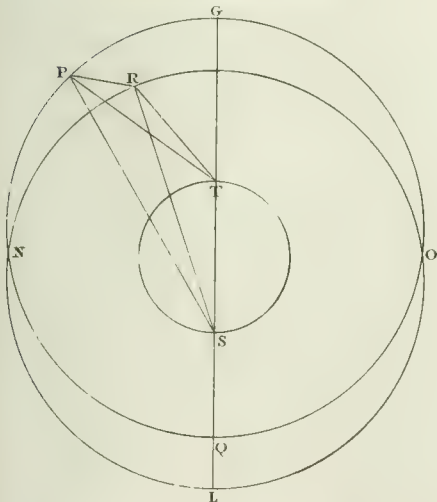
Fig. 144.



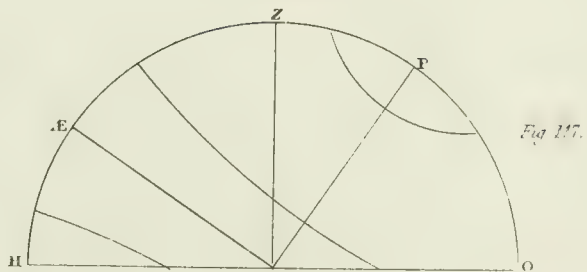
HOUR.



LATITUDE, REDUCTION.



LATITUDE.





LONGITUDE.

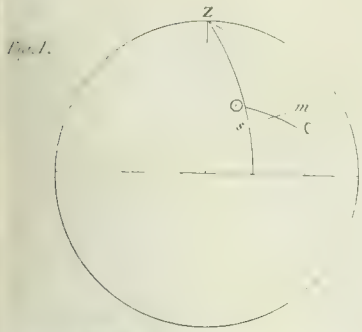
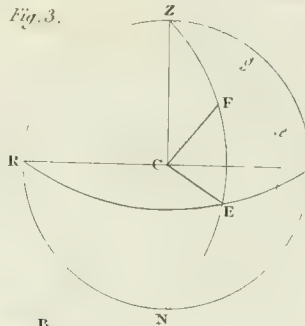


Fig. 2.

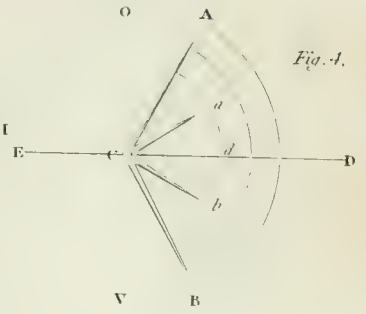
MARS.

Fig. 3.



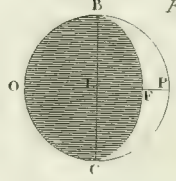
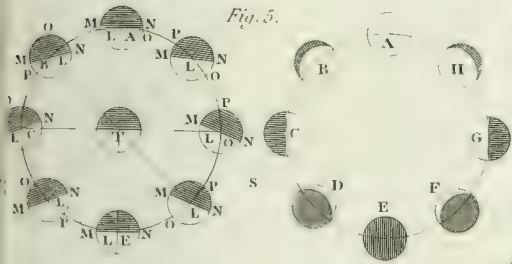
MERIDIAN LINE.

Fig. 4.



MOON

Fig. 5.



South

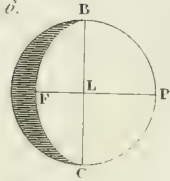


Fig. 10.

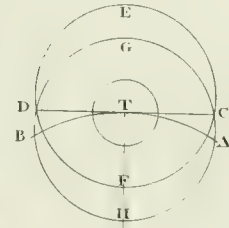
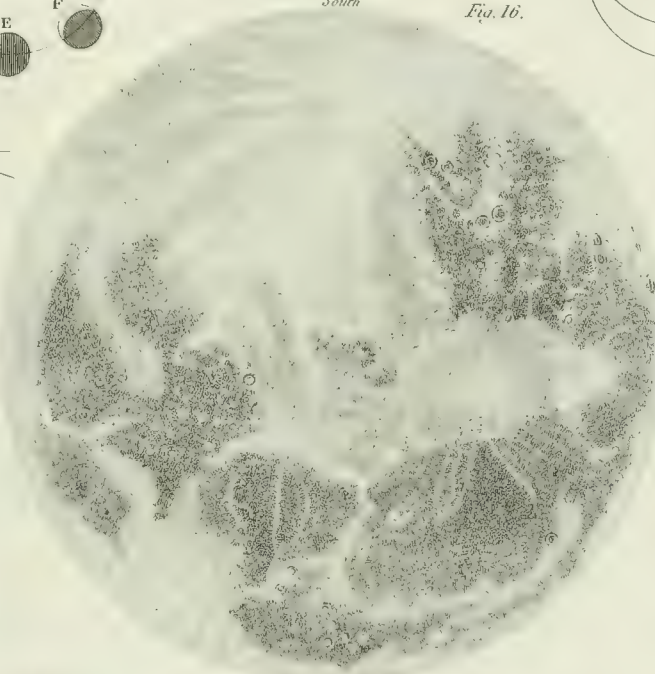
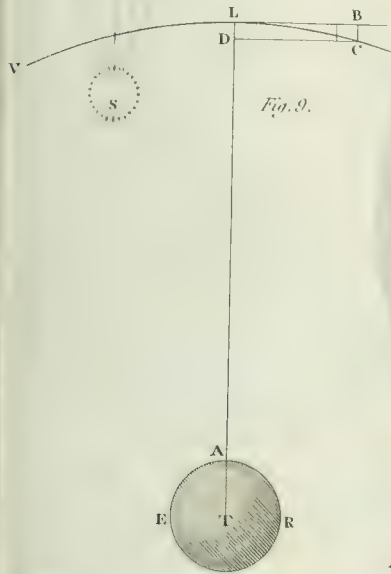


Fig. 9.



North

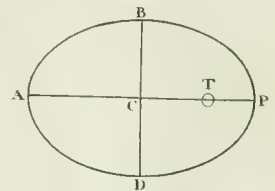


Fig. 12.

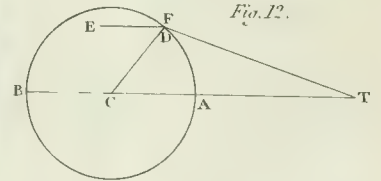
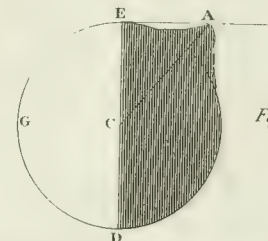


Fig. 14.



West

East

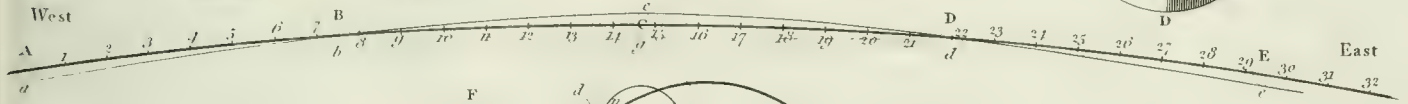


Fig. 13.

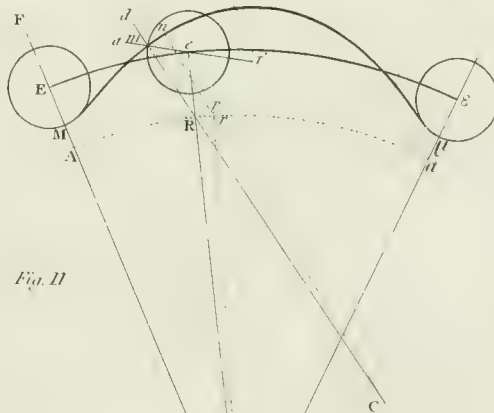
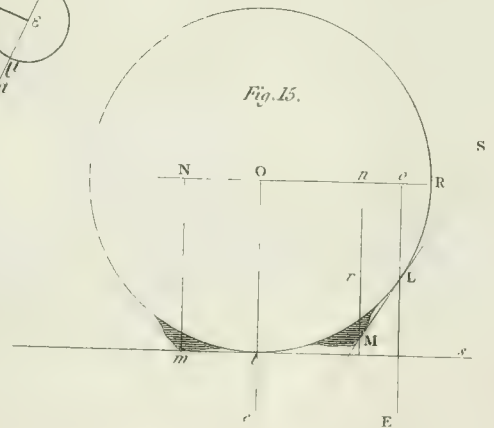
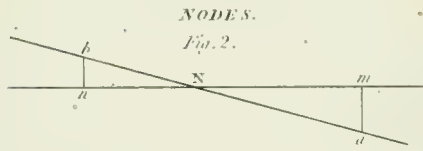
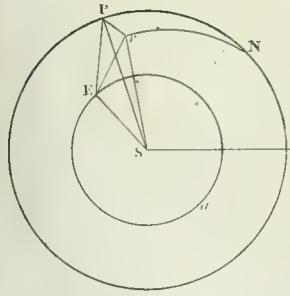


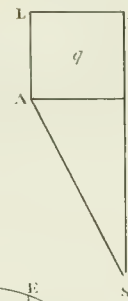
Fig. 15.







PARACENTRIC.
Fig. 3.



PARALLAX.

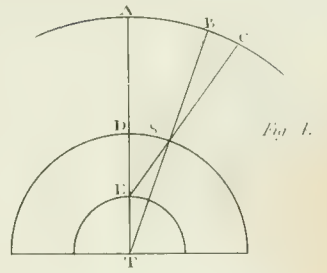


Fig. 6.

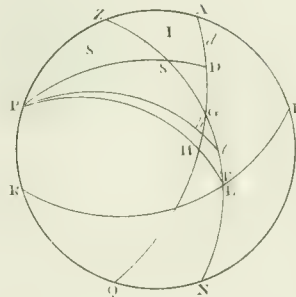


Fig. 7.

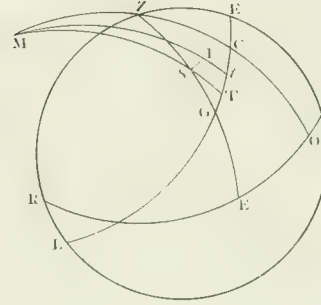
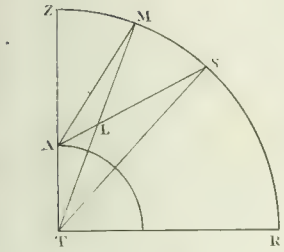
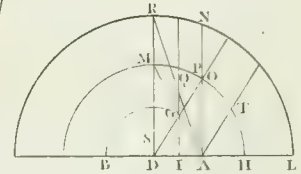


Fig. 11.



Moons
PARALLAX.

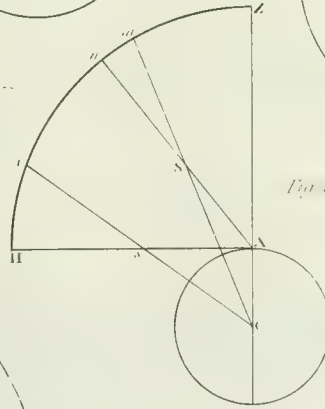
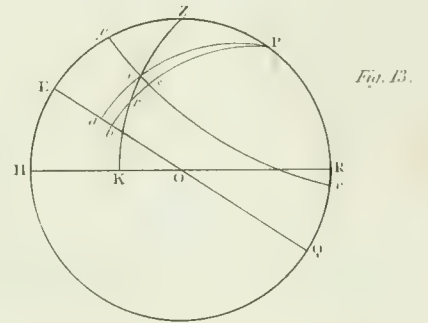
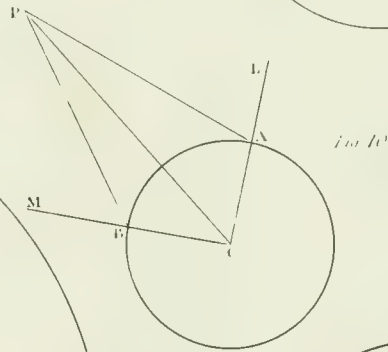
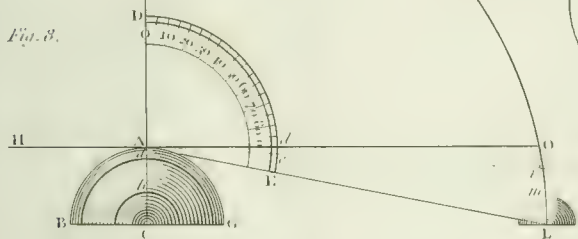
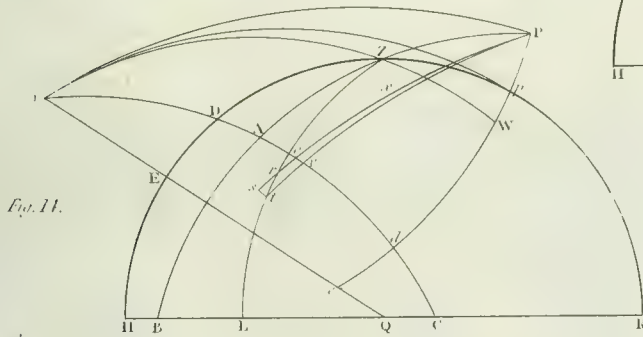
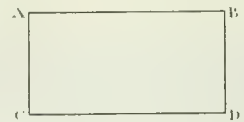
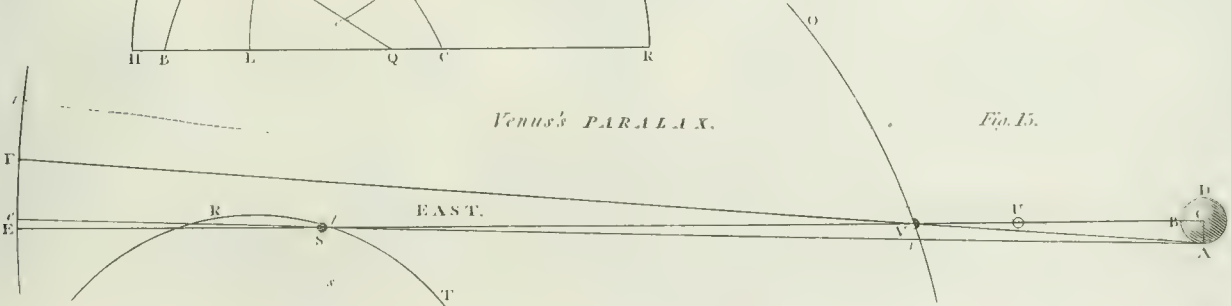


Fig. 12.



Venus's PARALLAX.

Fig. 15.





PARTICULA cersors

Fig. 1.

PENUMBRA

Fig. 2.

PLANET

Fig. 4.

Fig. 5.

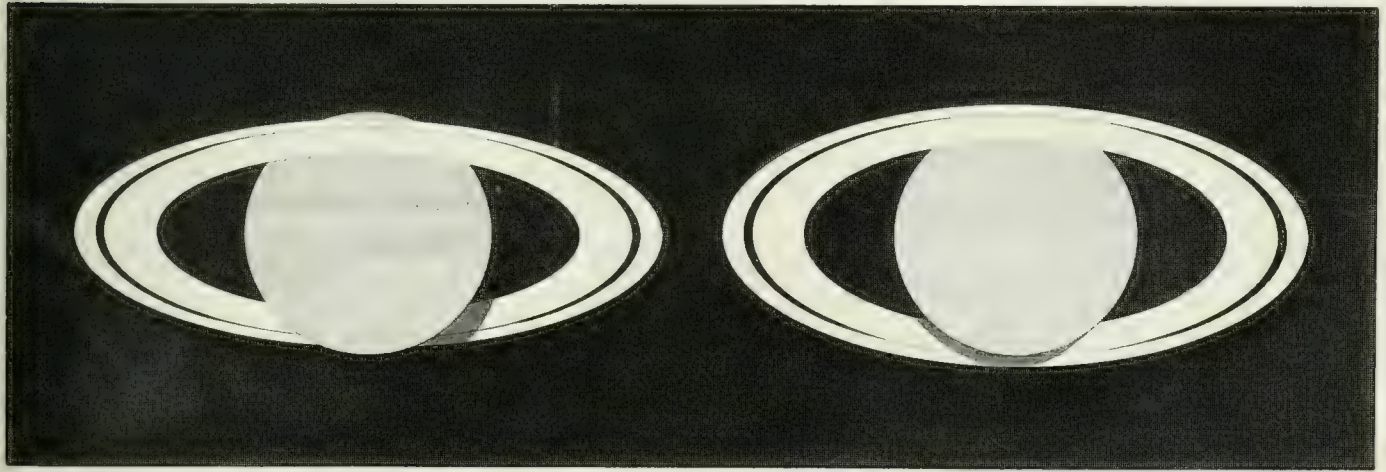
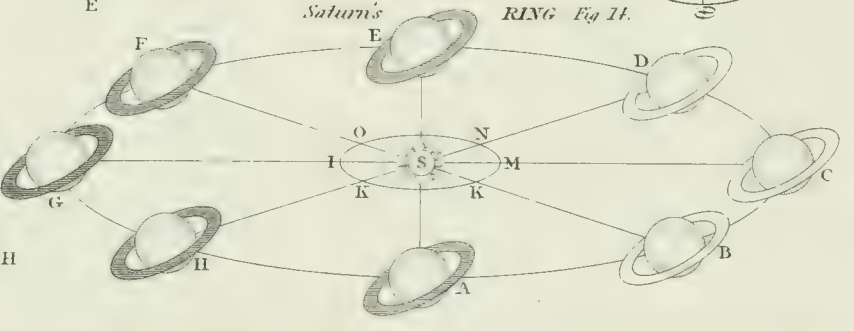
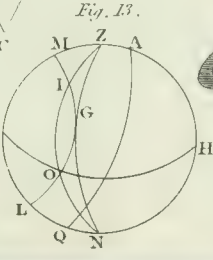
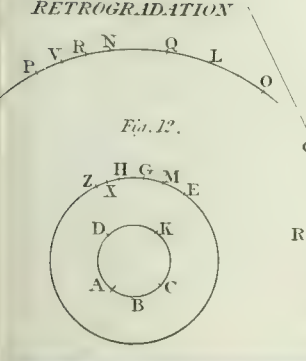
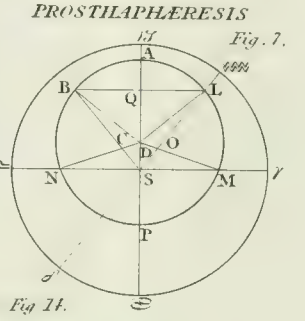
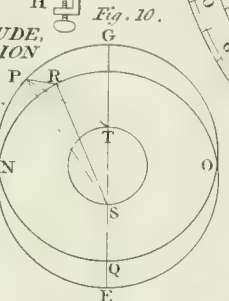
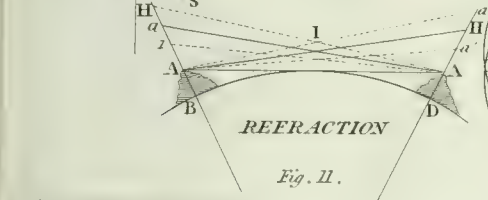
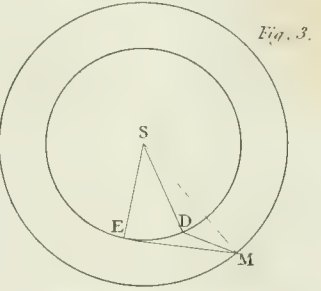
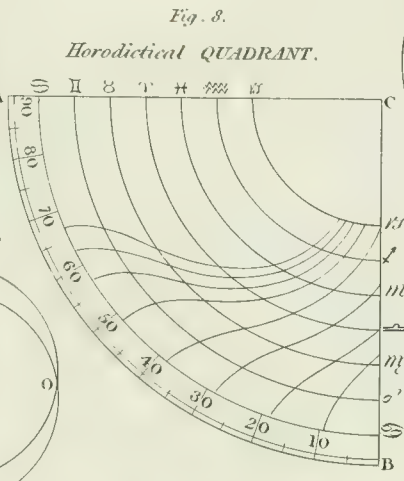
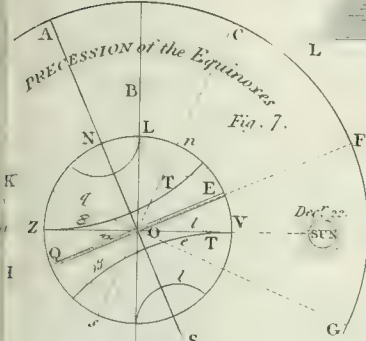
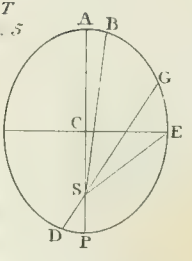
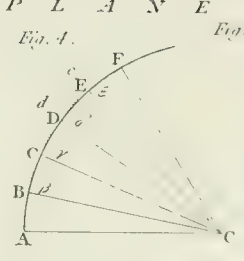
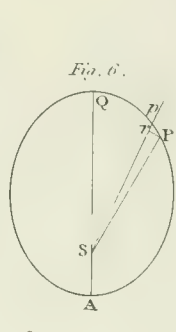
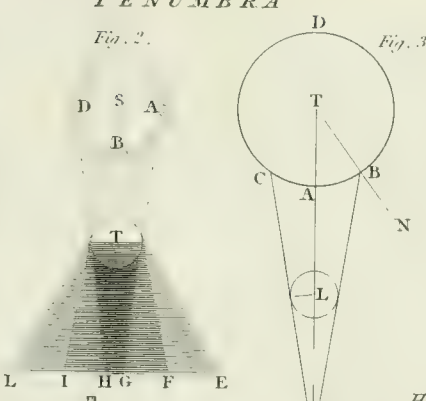
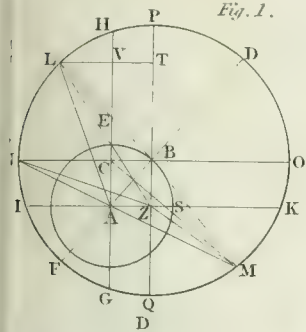
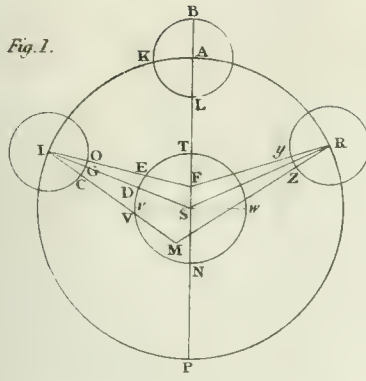


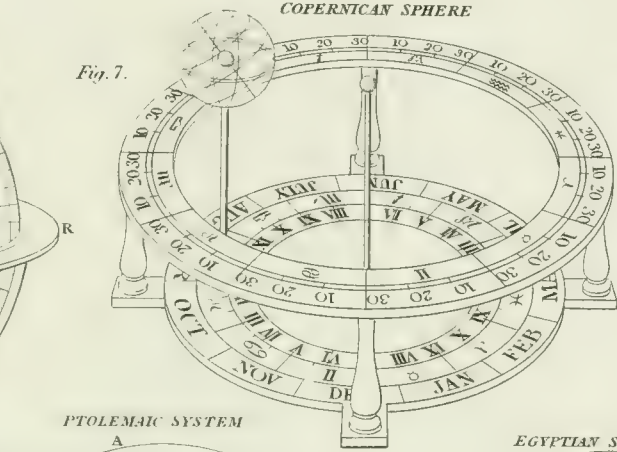
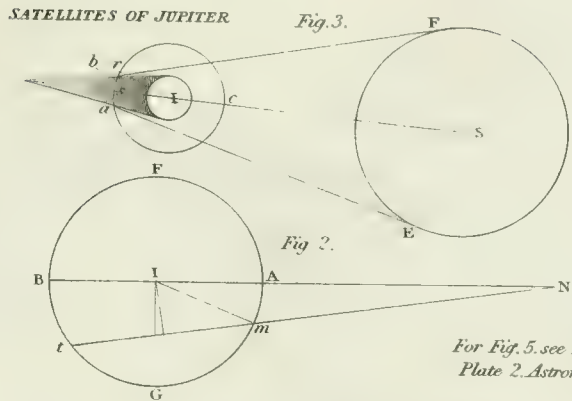
Fig. 15.

Fig. 16.

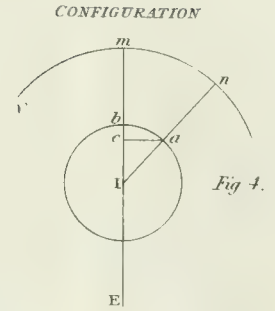




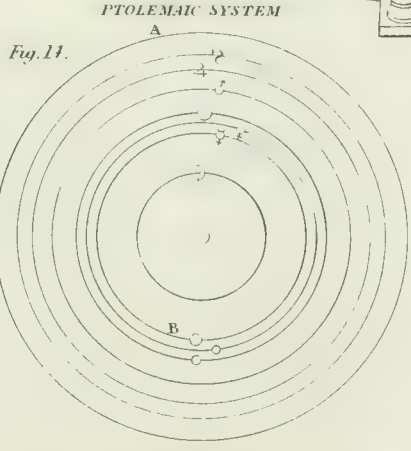
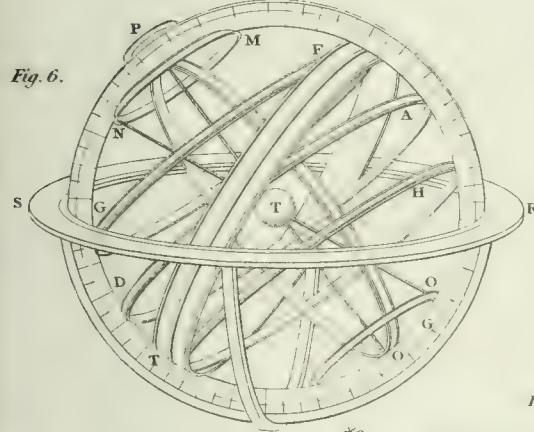
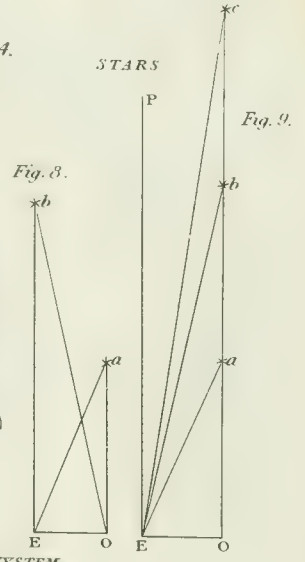
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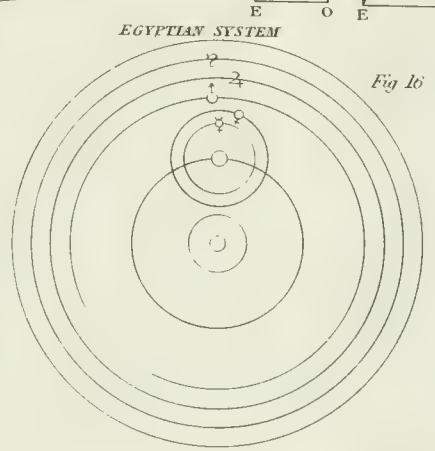
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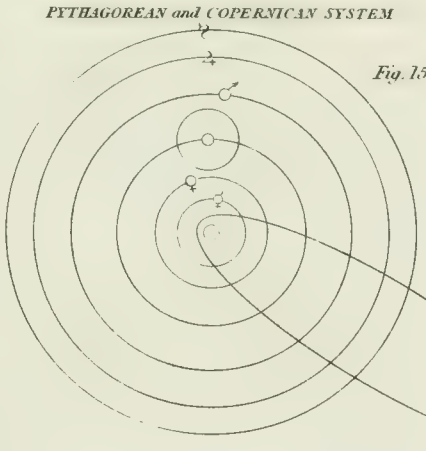
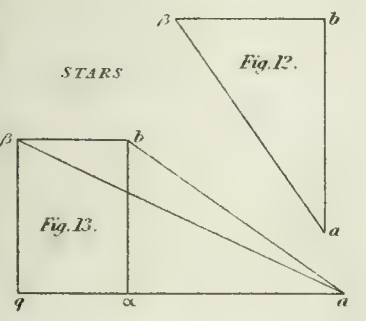
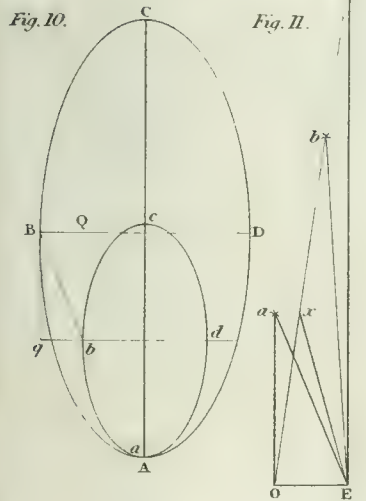
STARS



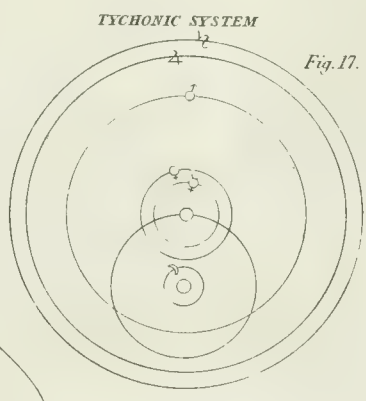
PTOLEMAIC SYSTEM



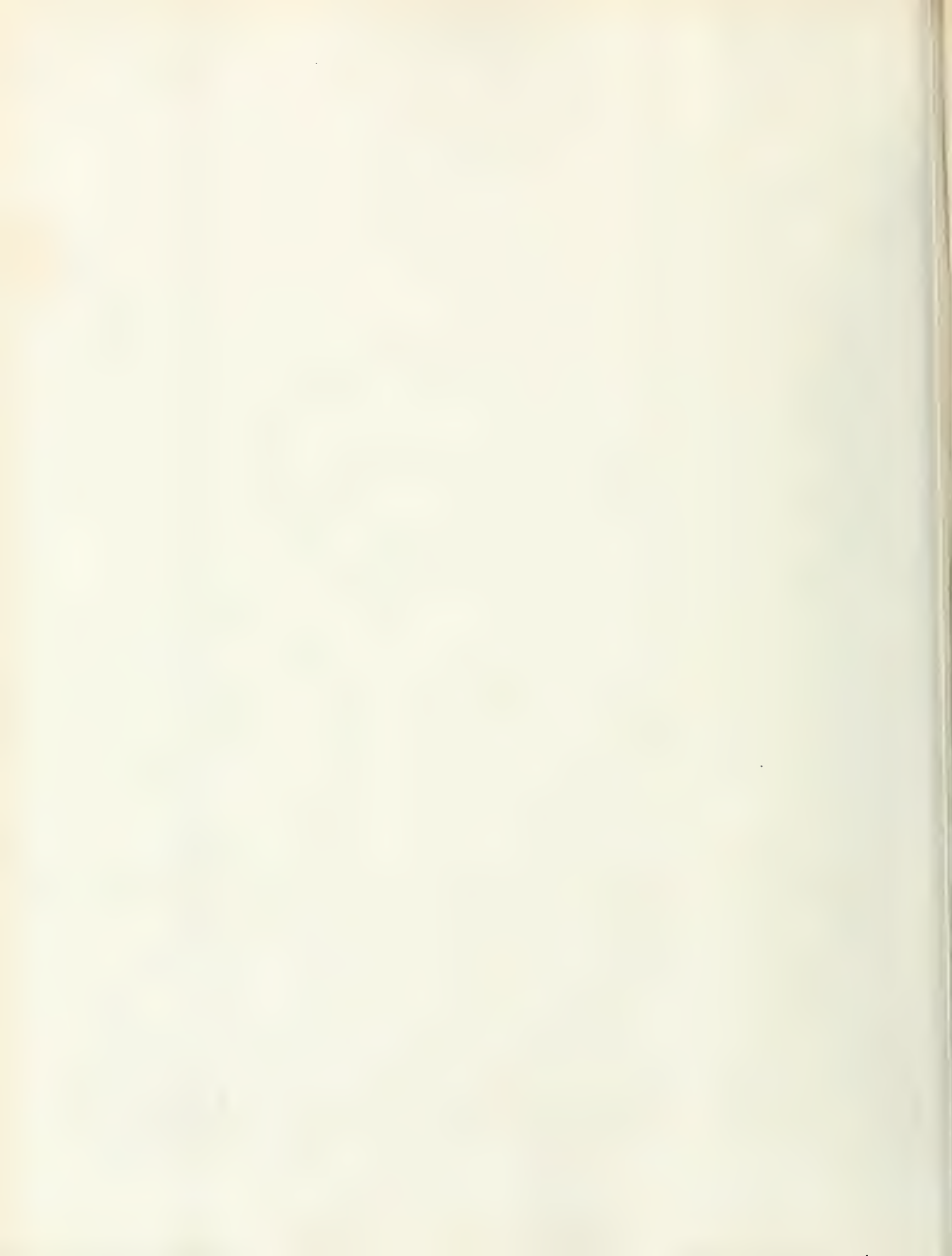
EGYPTIAN SYSTEM



PYTHAGOREAN and COPERNICAN SYSTEM

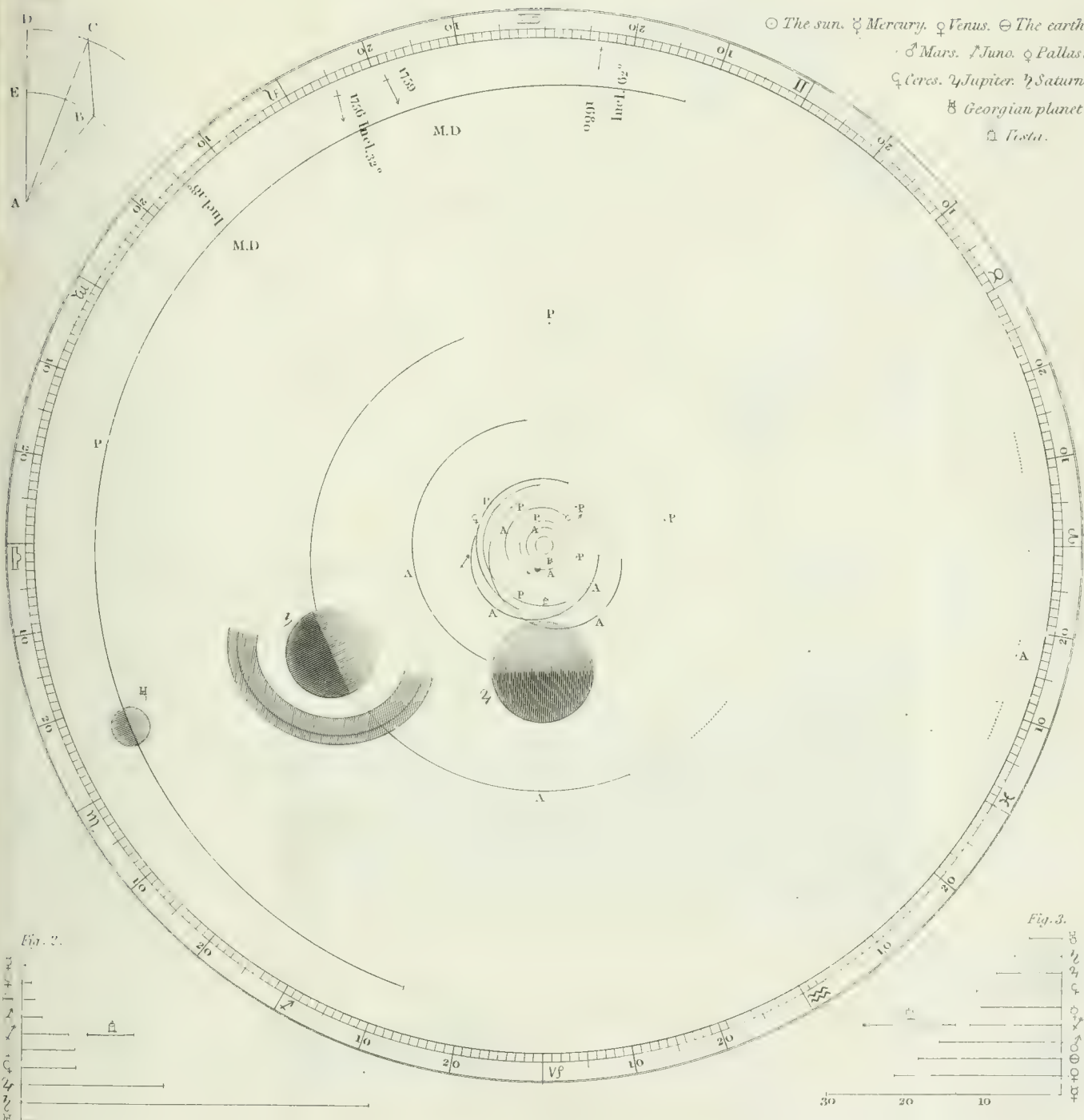


TYCHONIC SYSTEM



ASTRONOMY.
SOLAR SYSTEM

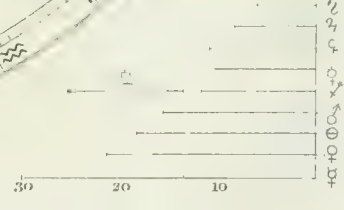
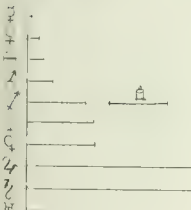
Fig. 1



☉ The sun. ☿ Mercury. ♀ Venus. ⊕ The earth.
♂ Mars. ♃ Juno. ♄ Pallas.
♁ Ceres. ♃ Jupiter. ♄ Saturn.
♁ Georgian planet.
♁ Vesta.

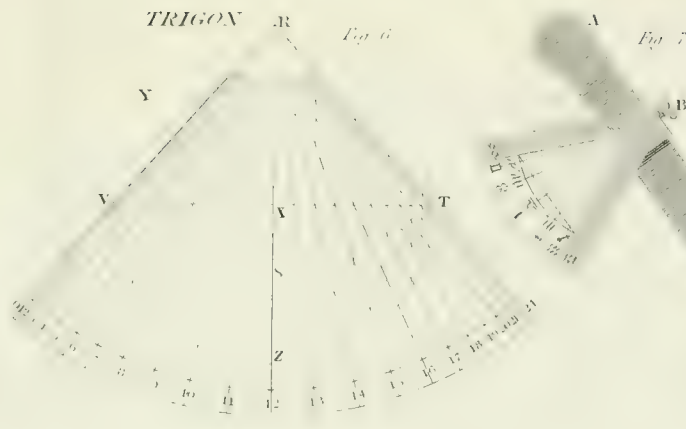
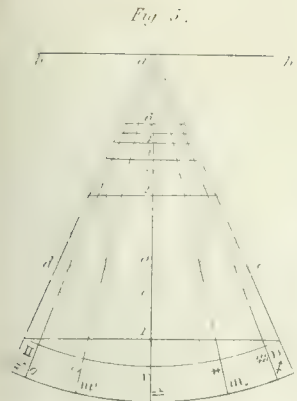
Fig. 2.

Fig. 3.





TRIGON



VENUS

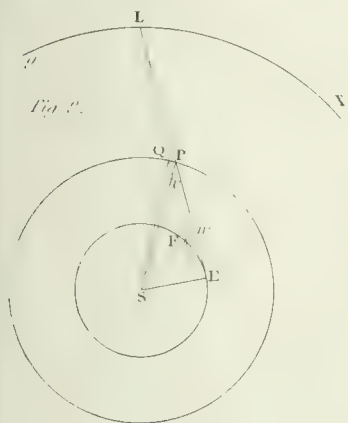
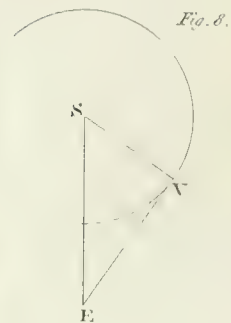


Fig. 10.

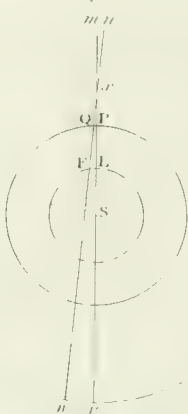


Fig. 11.

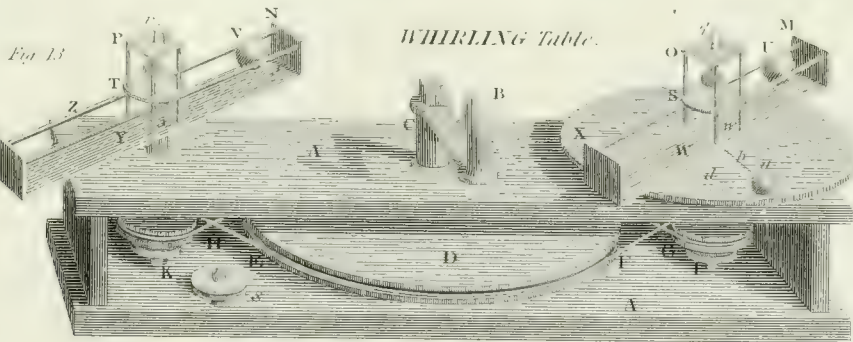
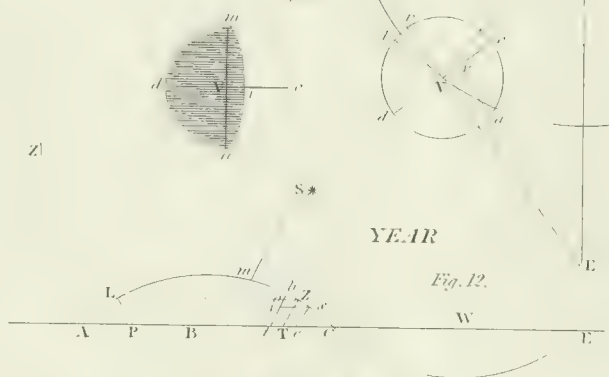


Fig. 14.



Fig. 17.



Fig. 18.

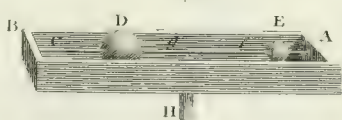


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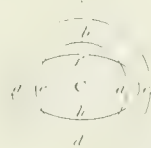


Fig. 20.

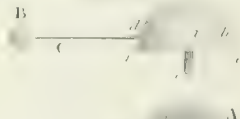


Fig. 21.

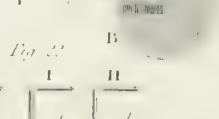


Fig. 22.

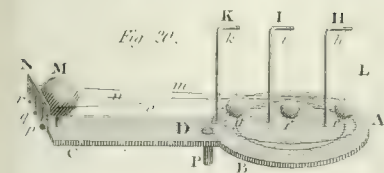


Fig. 24.

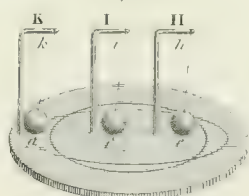
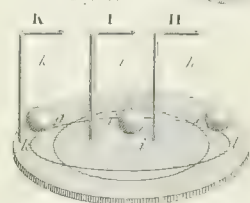
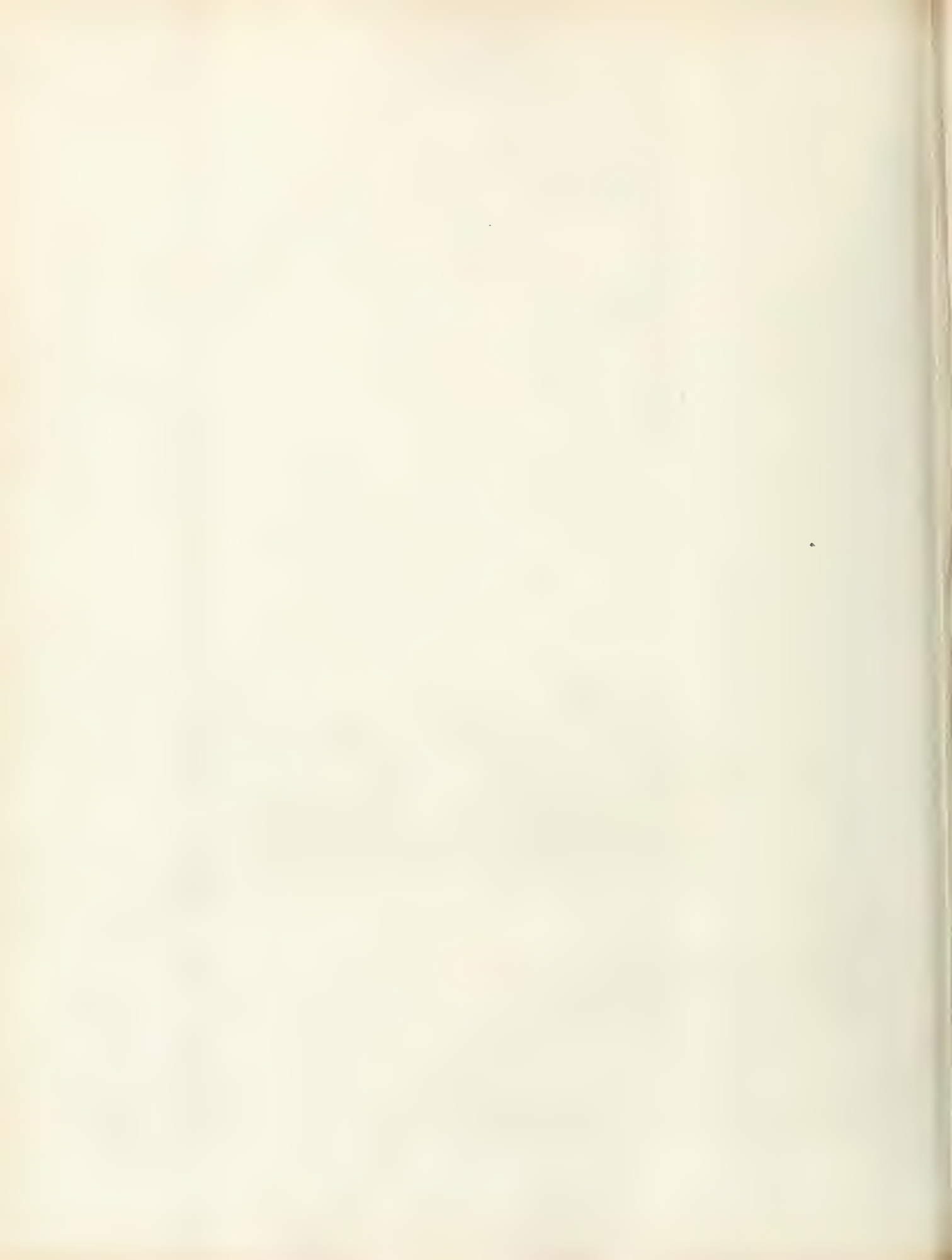


Fig. 25.





○ } Perih of the Comet in
 ○)

* Nearest approach to the Earth in

○ D° D° D° in

—— Comets whose Courses are

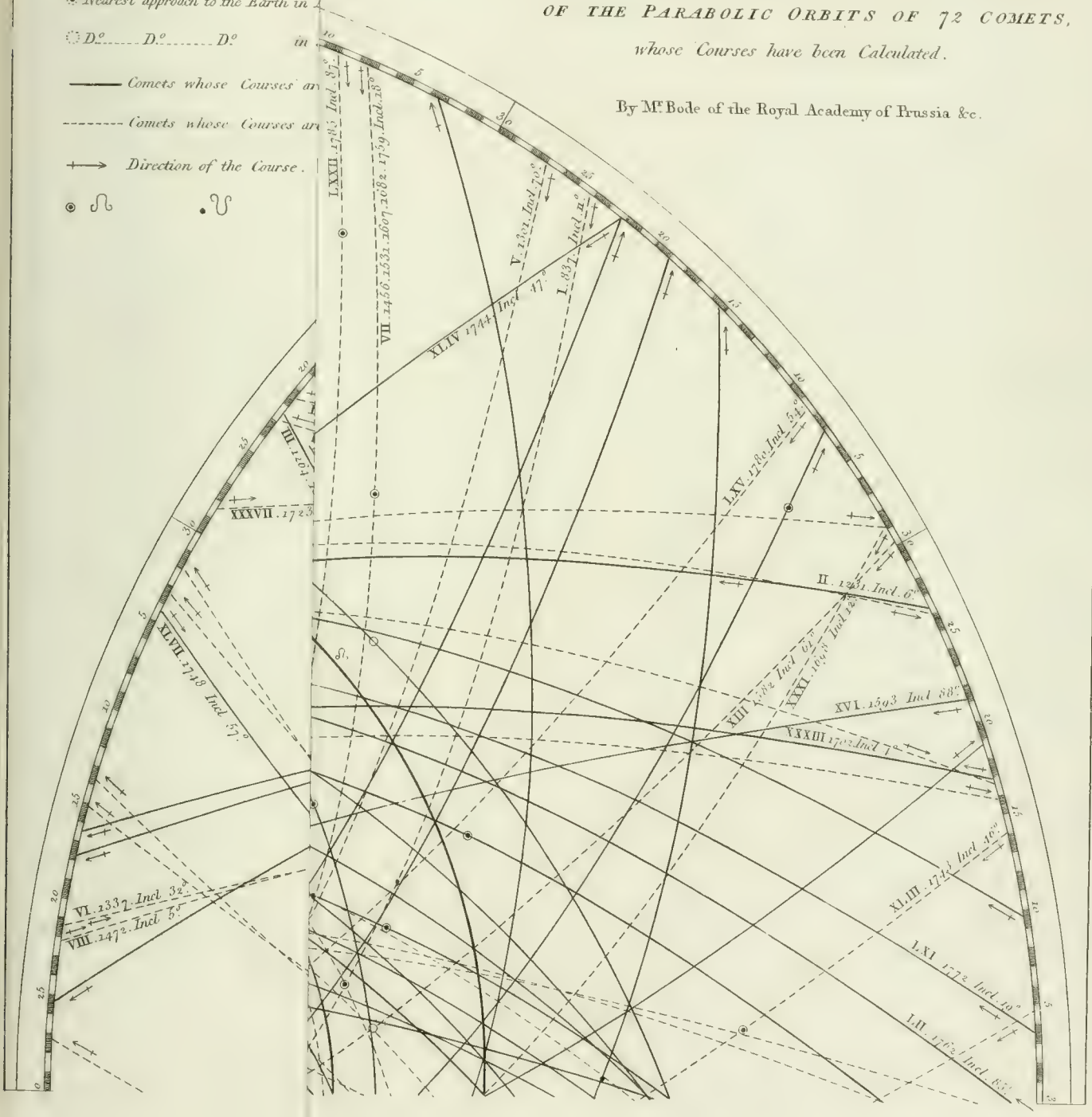
----- Comets whose Courses are

→ Direction of the Course.

○ ∩ ∪

PROJECTION ON THE PLANE OF THE ECLIPTIC OF THE PARABOLIC ORBITS OF 72 COMETS, whose Courses have been Calculated.

By M^r Bode of the Royal Academy of Prussia &c.



ASTRONOMY.

PROJECTION ON THE PLANE OF THE ECLIPTIC OF THE PARABOLIC ORBITS OF 72 COMETS, whose Courses have been Calculated.

By M^r Bode of the Royal Academy of Prussia &c.

} Perih of the Comet in } North Latitude.
} South Latitude.

• Nearest approach to the Earth in North Latitude.

○ D°.....D°.....D°..... in South Latitude.

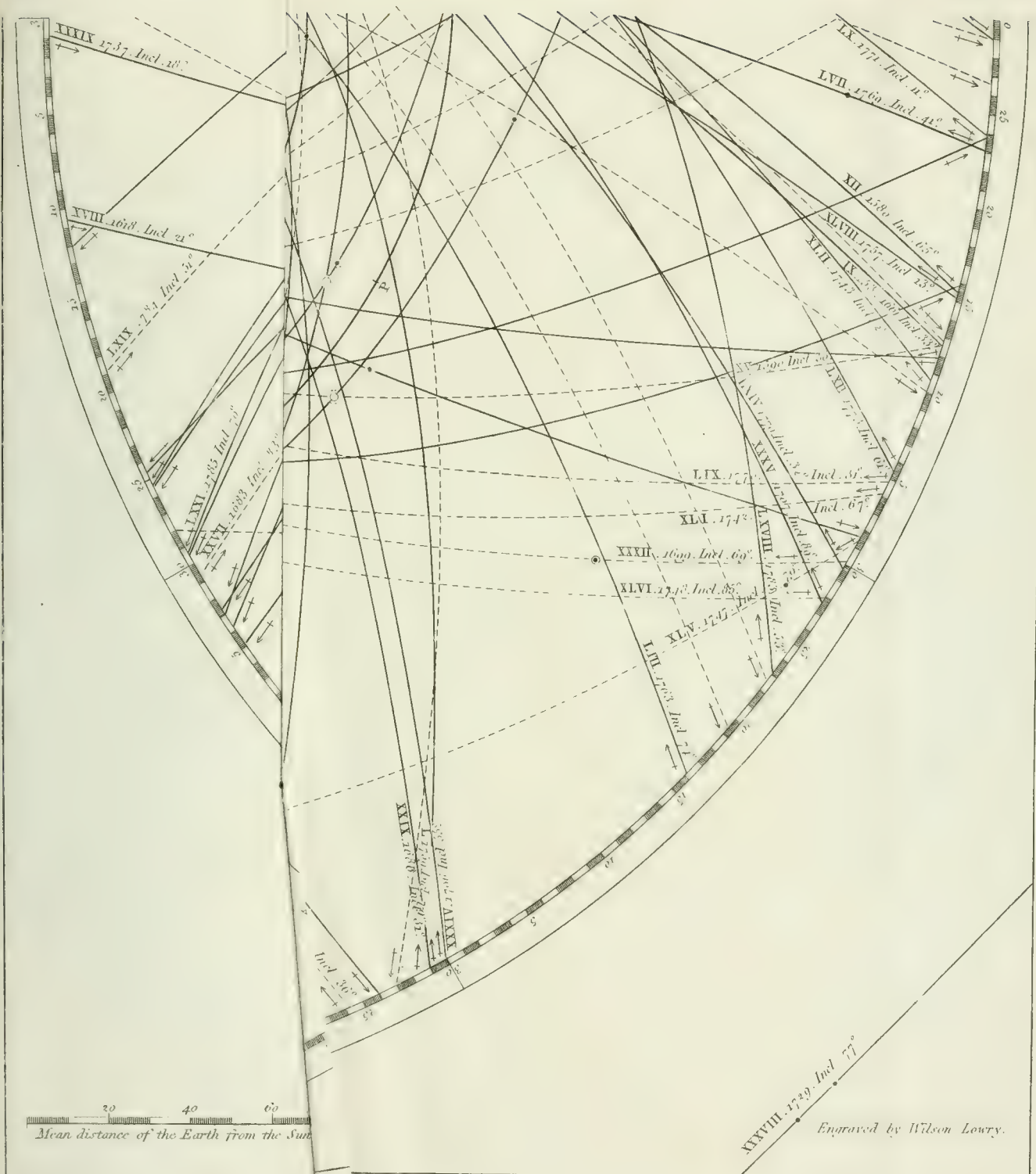
— Comets whose Courses are direct.

- - - Comets whose Courses are retrograd.

→ Direction of the Course.

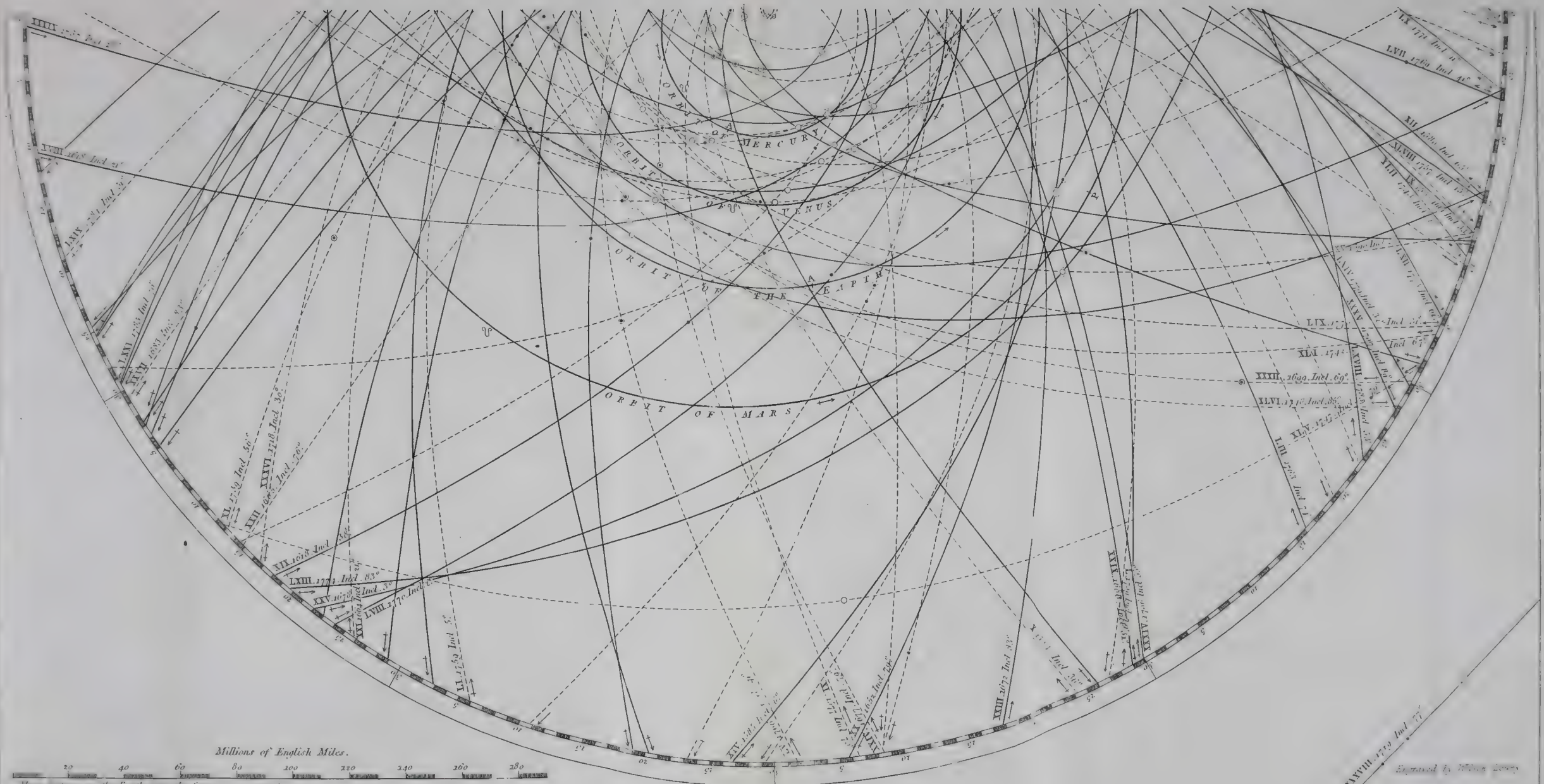
○ ∩ ∪



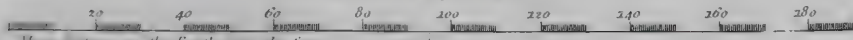


20 40 60
 Mean distance of the Earth from the Sun

LXXVIII. 1729. Incl. 77°
 Engraved by Wilson Lowry.



Millions of English Miles.



Distance of the Earth from the Sun.

Published as the Act Directs, May 1826, by Longman & Rees, Paternoster Row

Designed by William Jones

ASTRONOMY.

NORTHERN HEMISPHERE



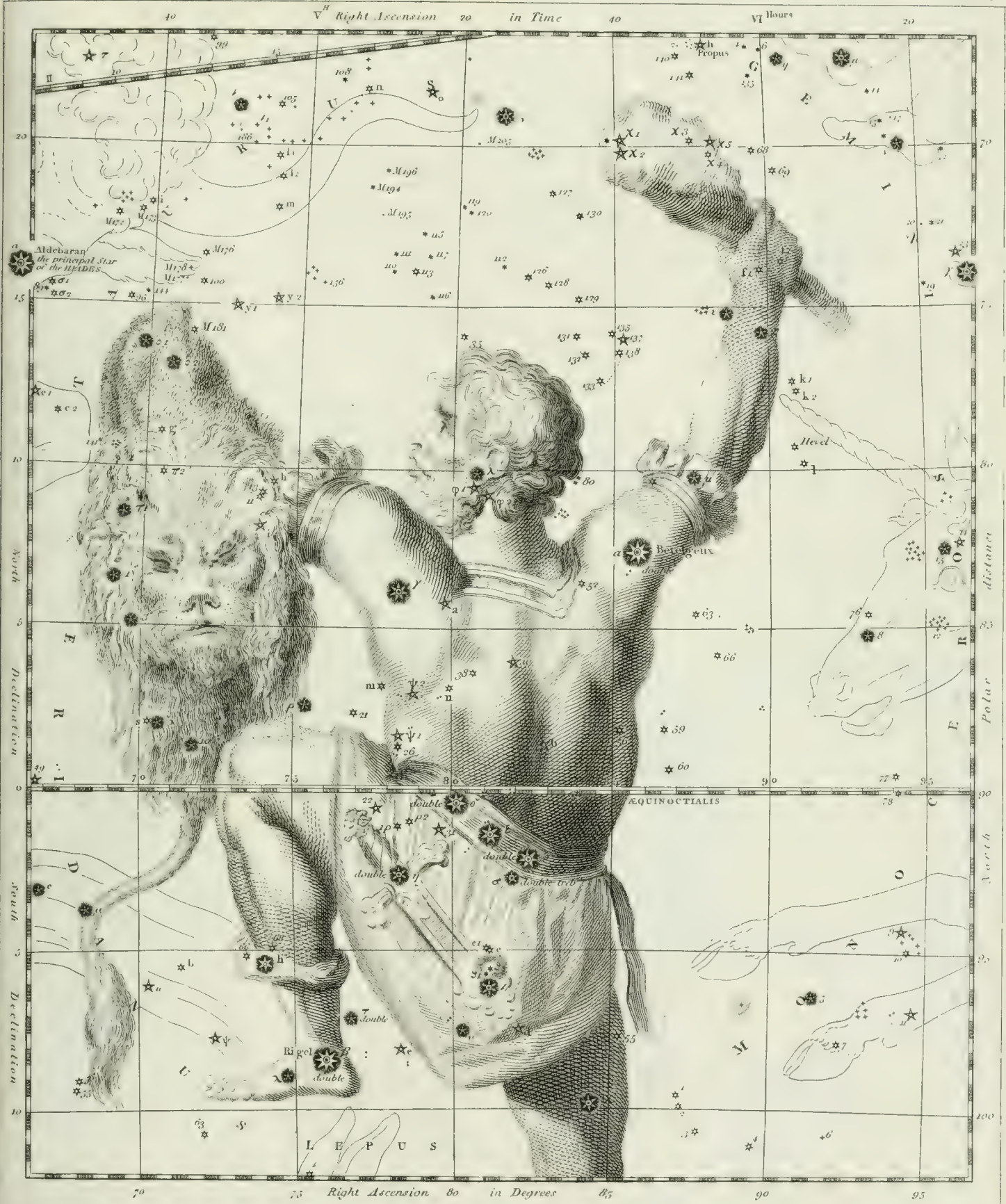
SOUTHERN HEMISPHERE.



1 2 3 4 5 6
★ ☆ ◆ ○ ● ◆ ★
Magnitudes
● Nebula



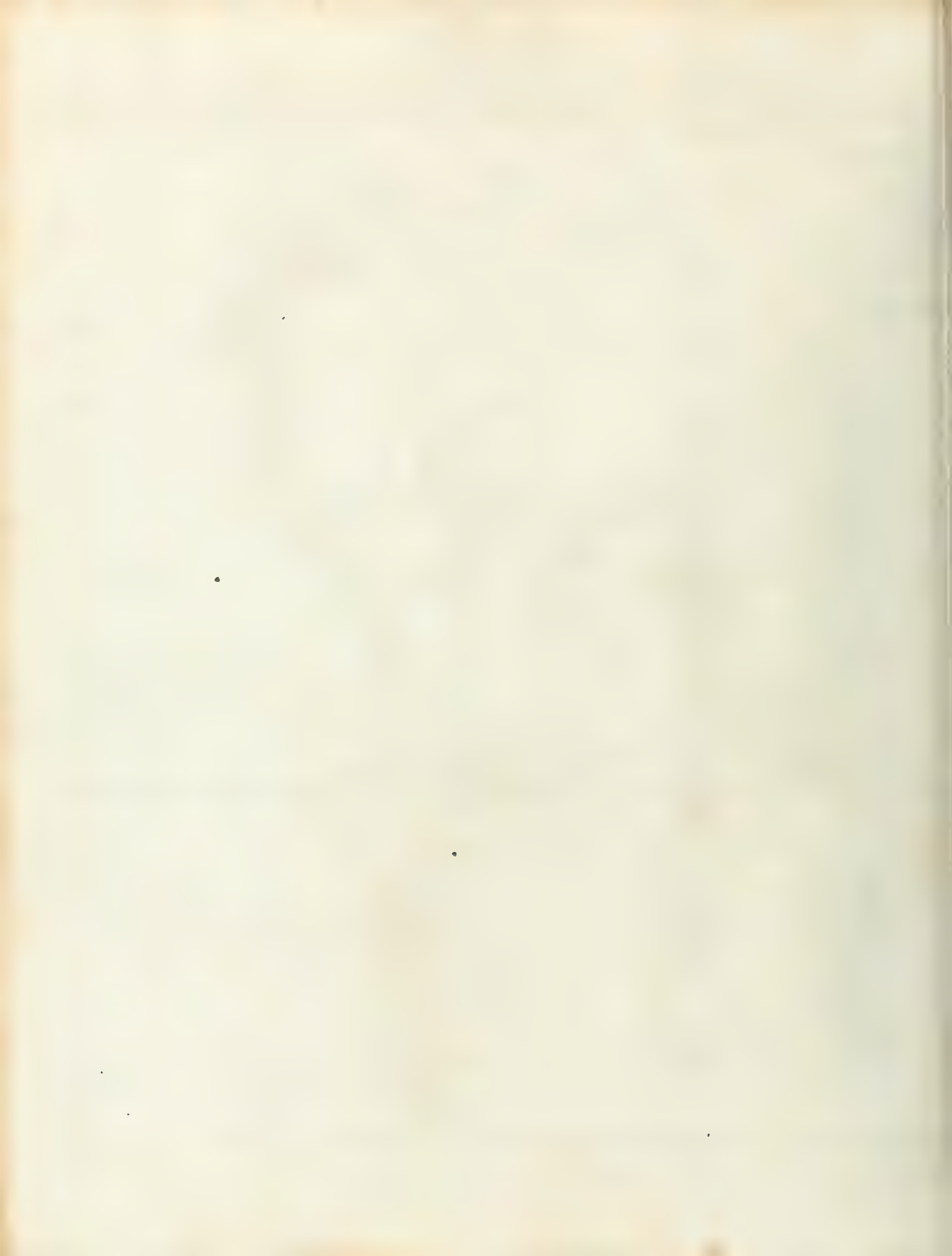
CONSTELLATION. ORION.



L. Robert del.

1 2 3 4 5 6 7 8 double Clust. Nebulae.

Milton fec.

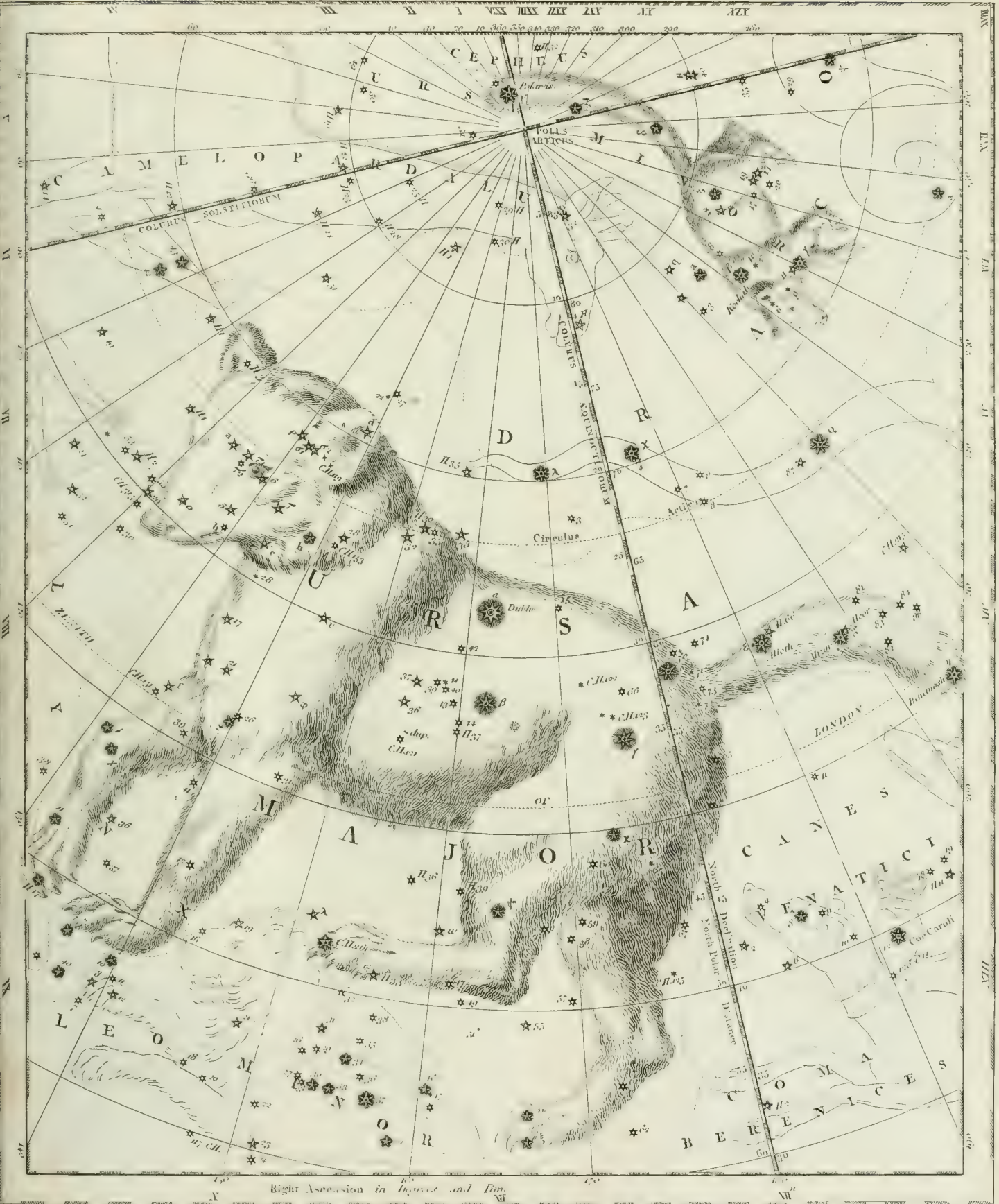


CONSTELLATIONS.

URSA MAJOR and URSA MINOR

projected by right Ascension and Declination — corrected to the beginning of the Year 1808.

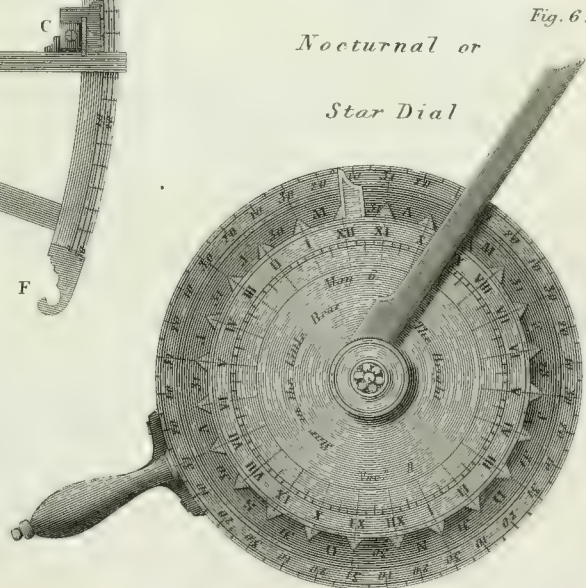
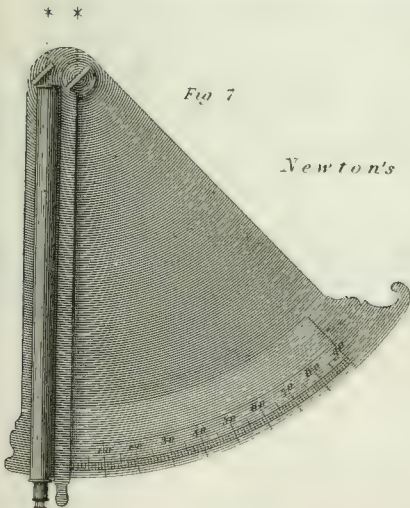
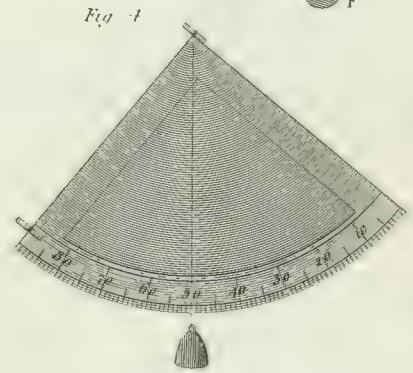
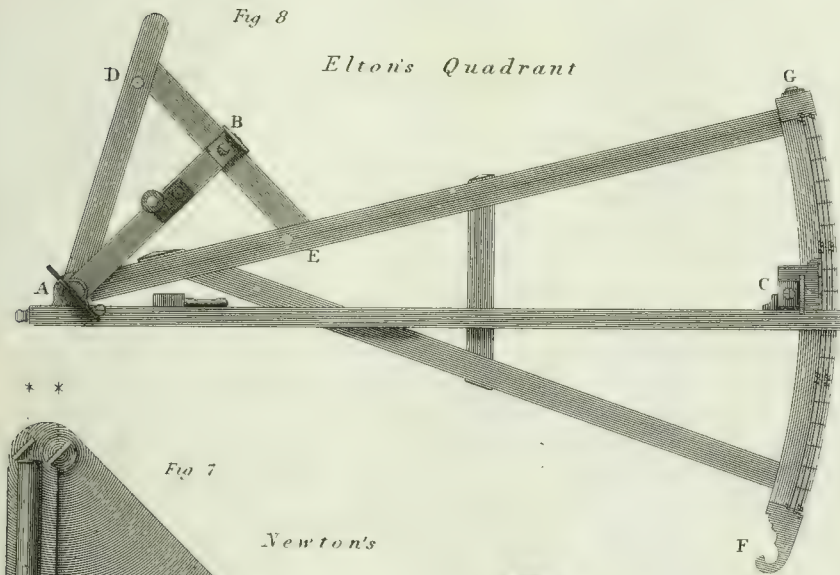
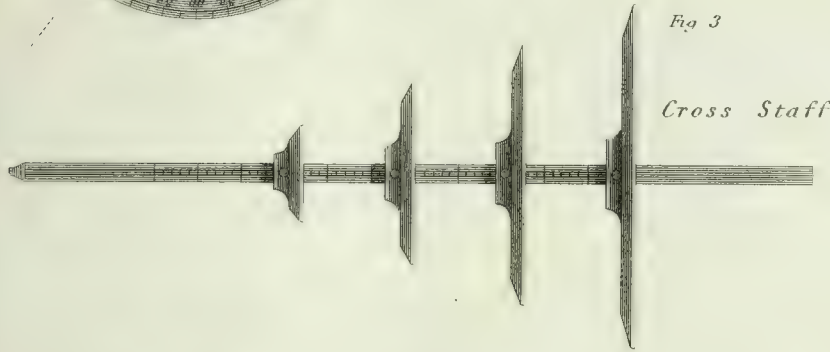
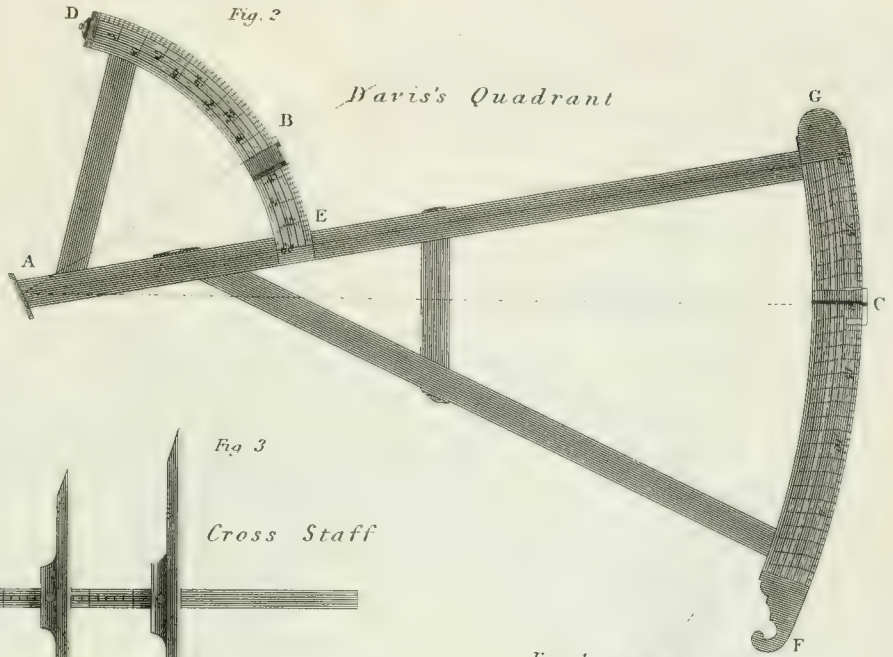
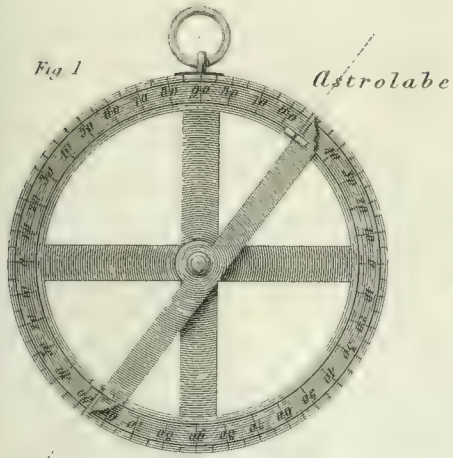
PLATE II



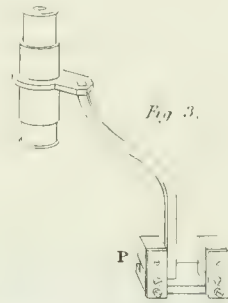
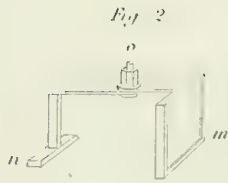
Right Ascension in Degrees and Minutes

L. Robert del. The numbers, letters & Greek Characters refer to the British Catalogue. H. to Hevelius's, CH. to Chershevel's.

Published by the Art Director, 1808, by Longman Hurst, Rose & Orme, Stationers, London.

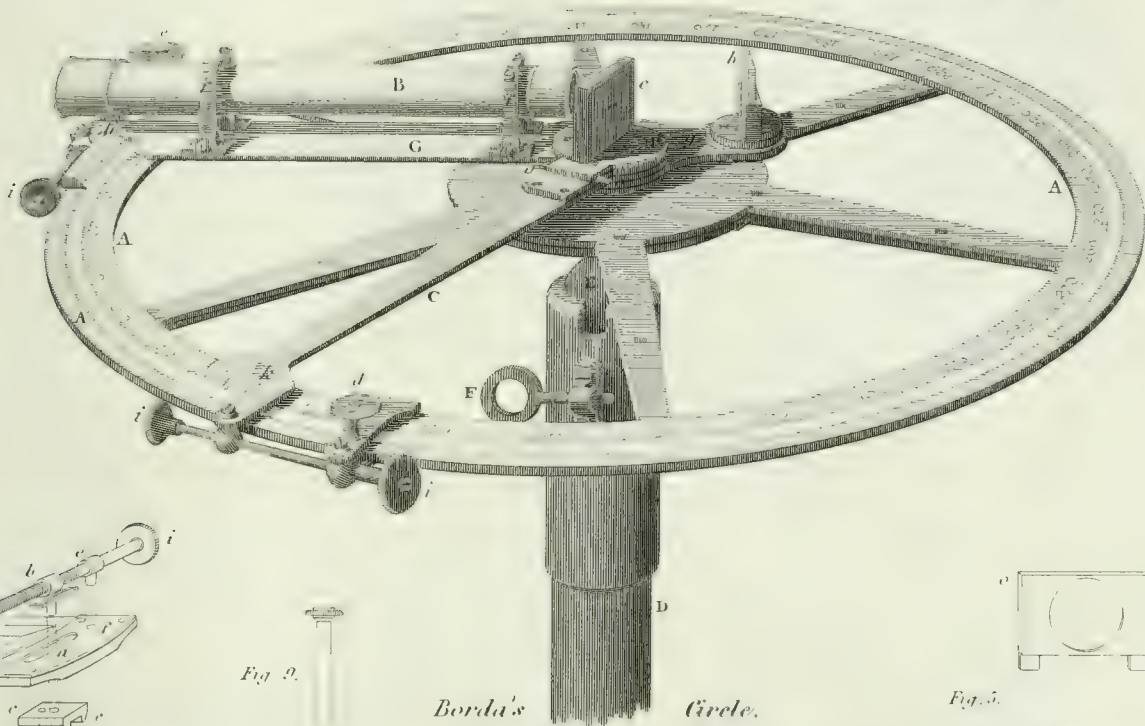


CIRCLE.



Mayer's Circle.

Fig. 1.



Borda's Circle.

Fig. 4.

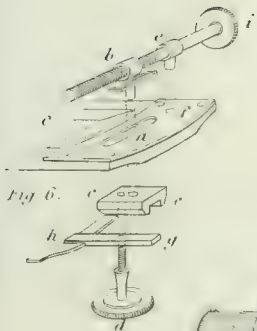


Fig. 9.

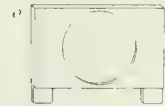


Fig. 5.

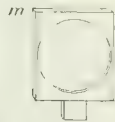


Fig. 7.

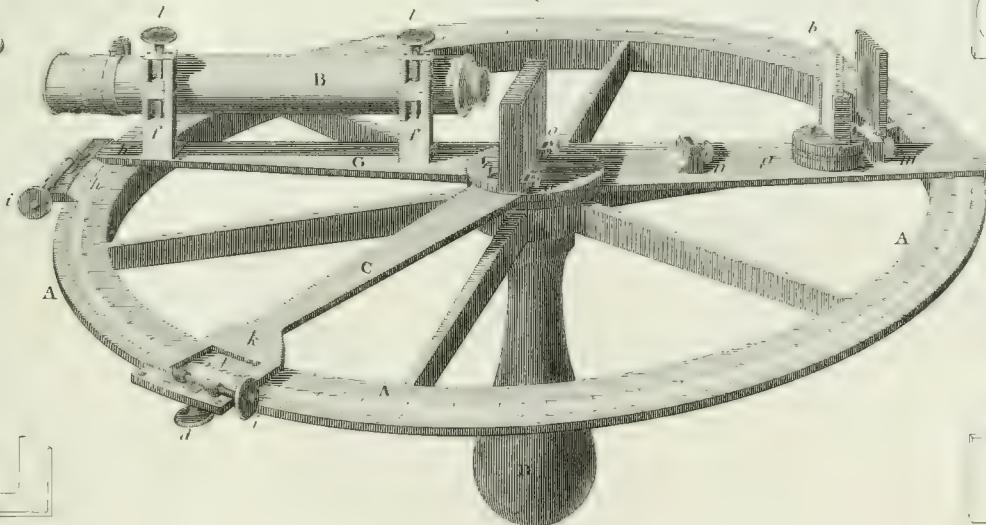


Fig. 8.



ASTRONOMICAL INSTRUMENTS.
The English REFLECTING CIRCLE by Troughton.

PLATE III.

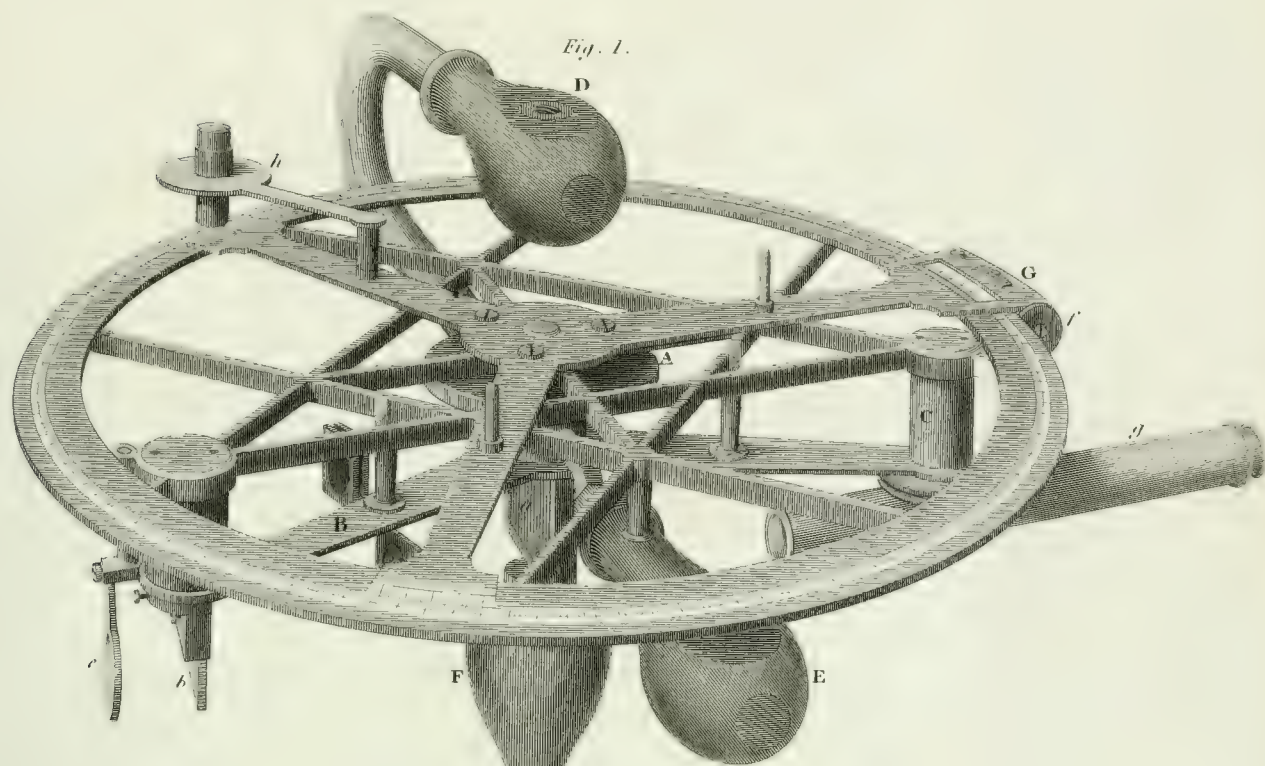


Fig. 2.

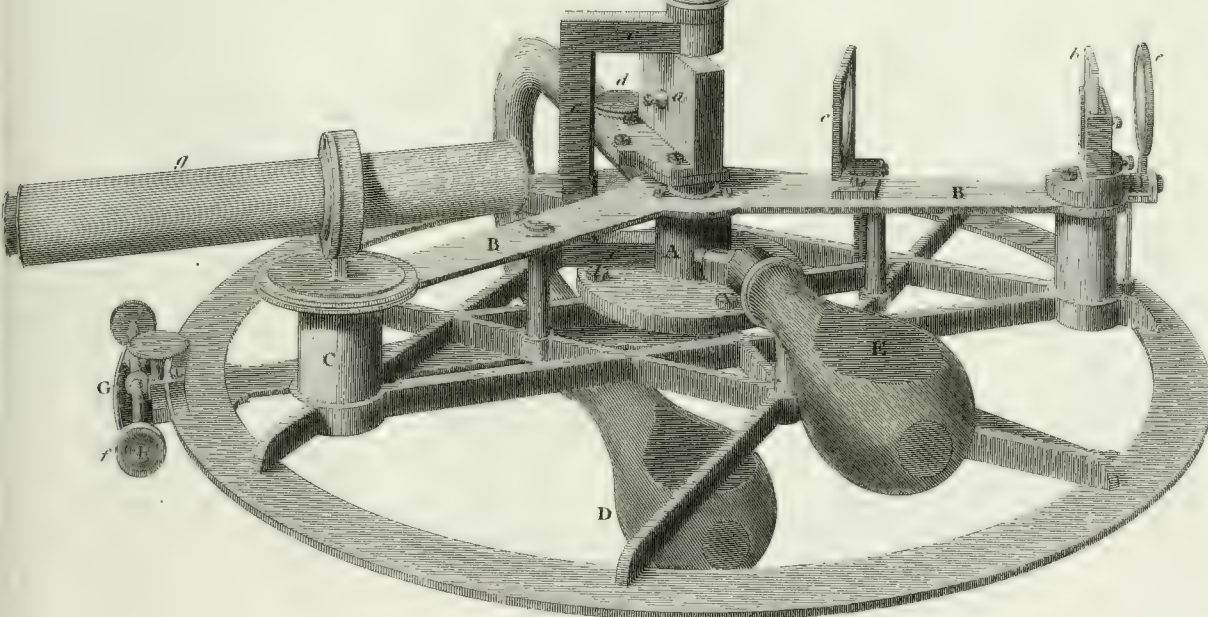


Fig. 1.

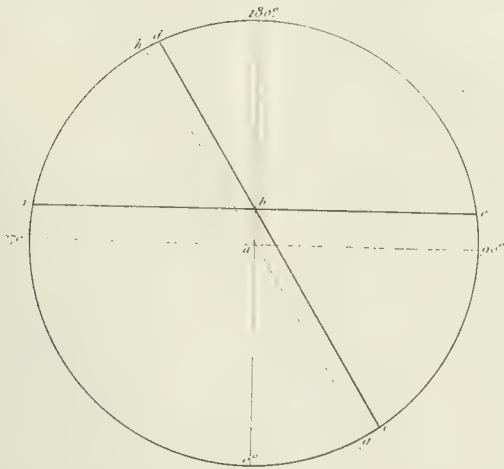


Fig. 2.

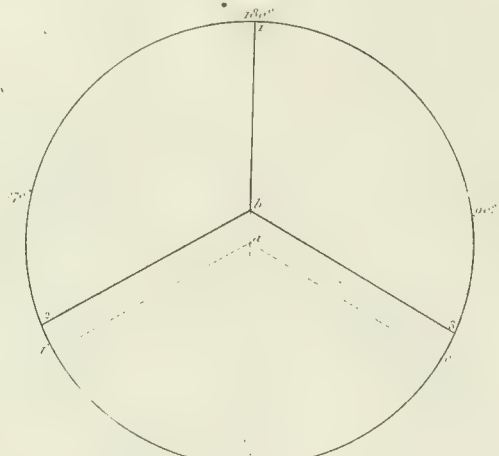


Fig. 3.

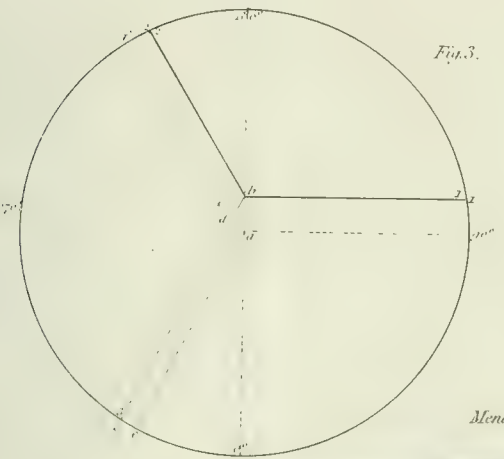
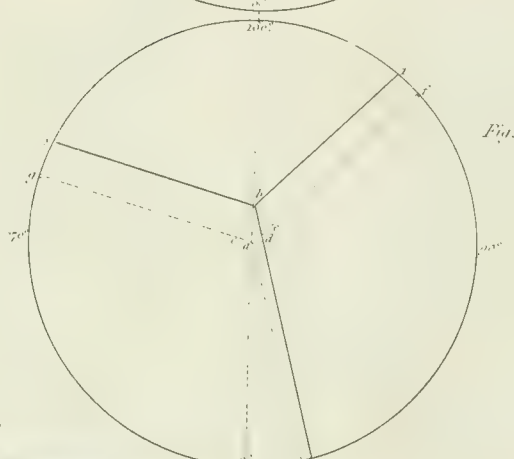
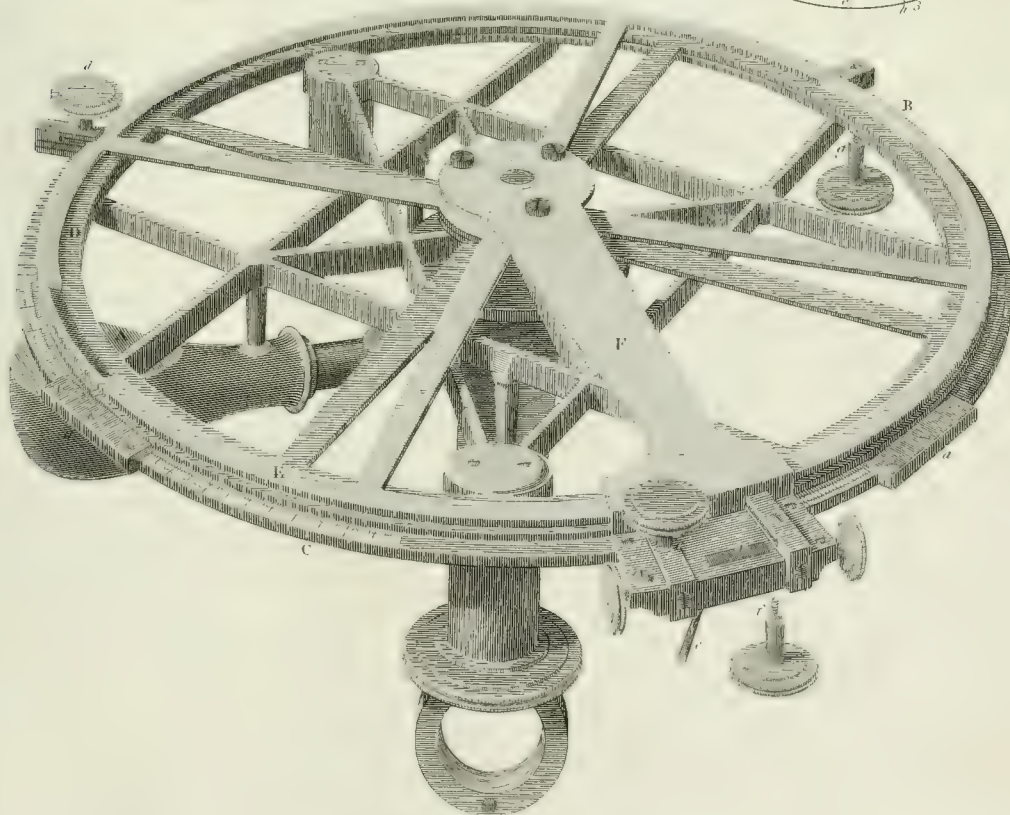


Fig. 4.

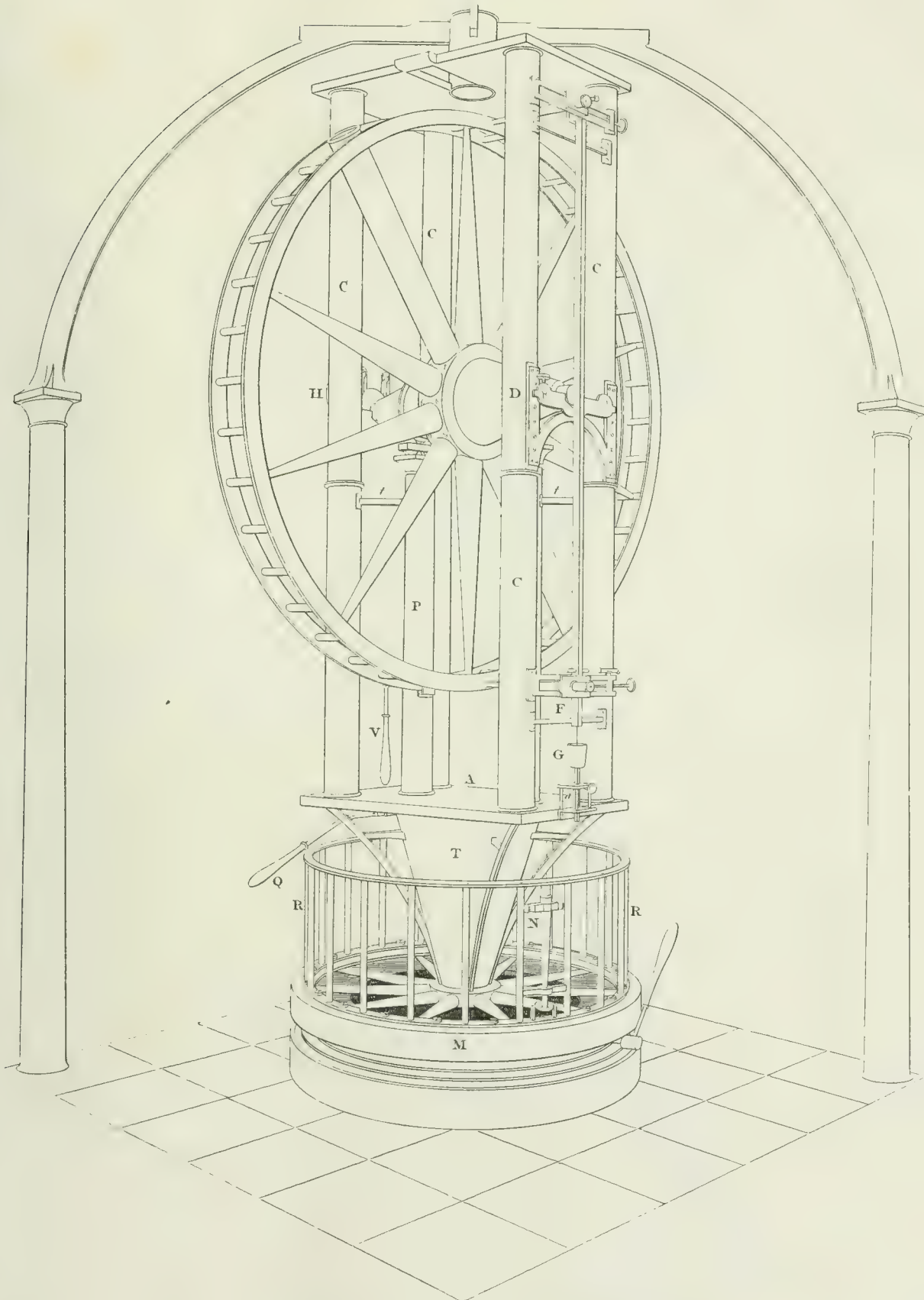


Mendoza's Circle Fig. 5.

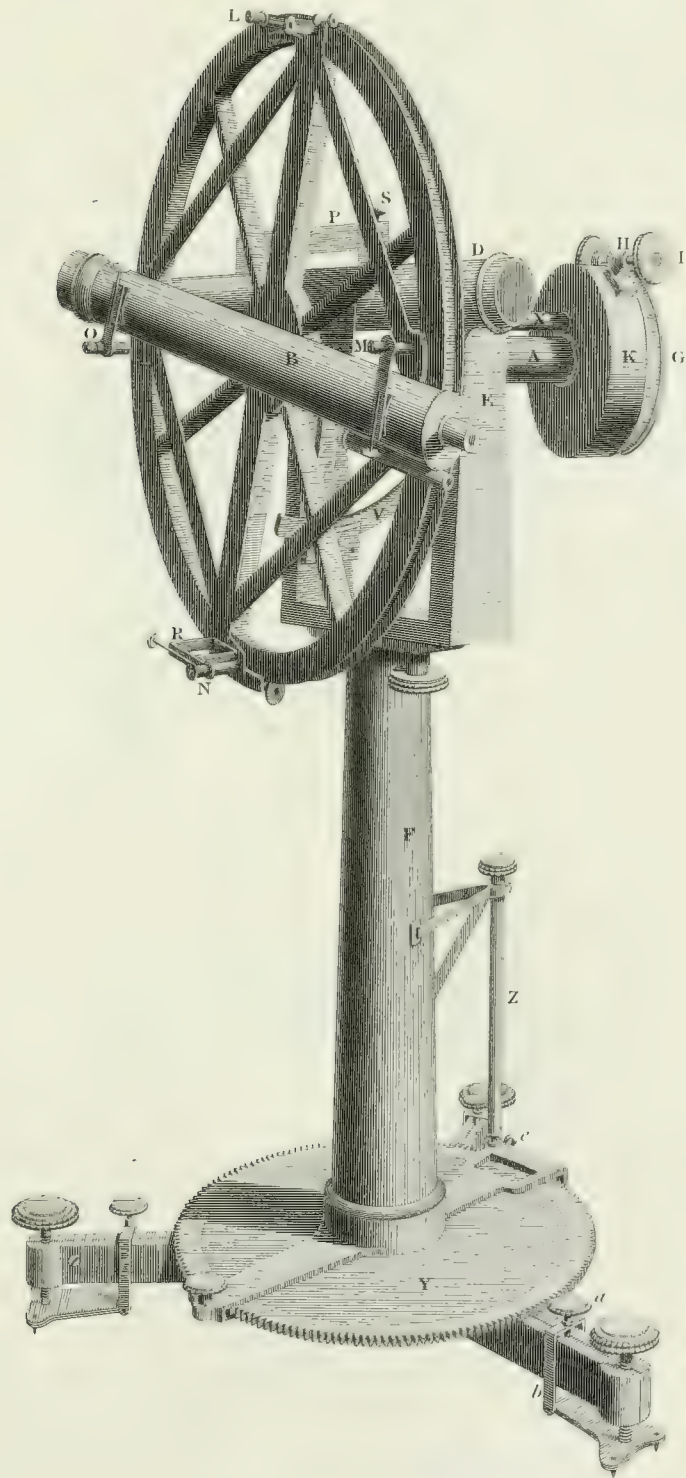


ASTRONOMICAL INSTRUMENTS.
Ramsden's, CIRCLE.

PLATE V.

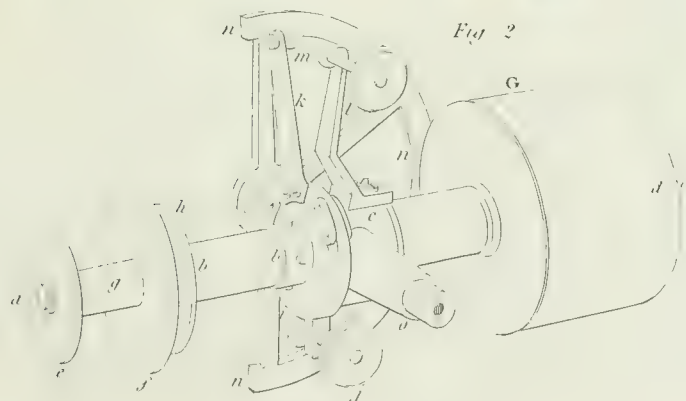
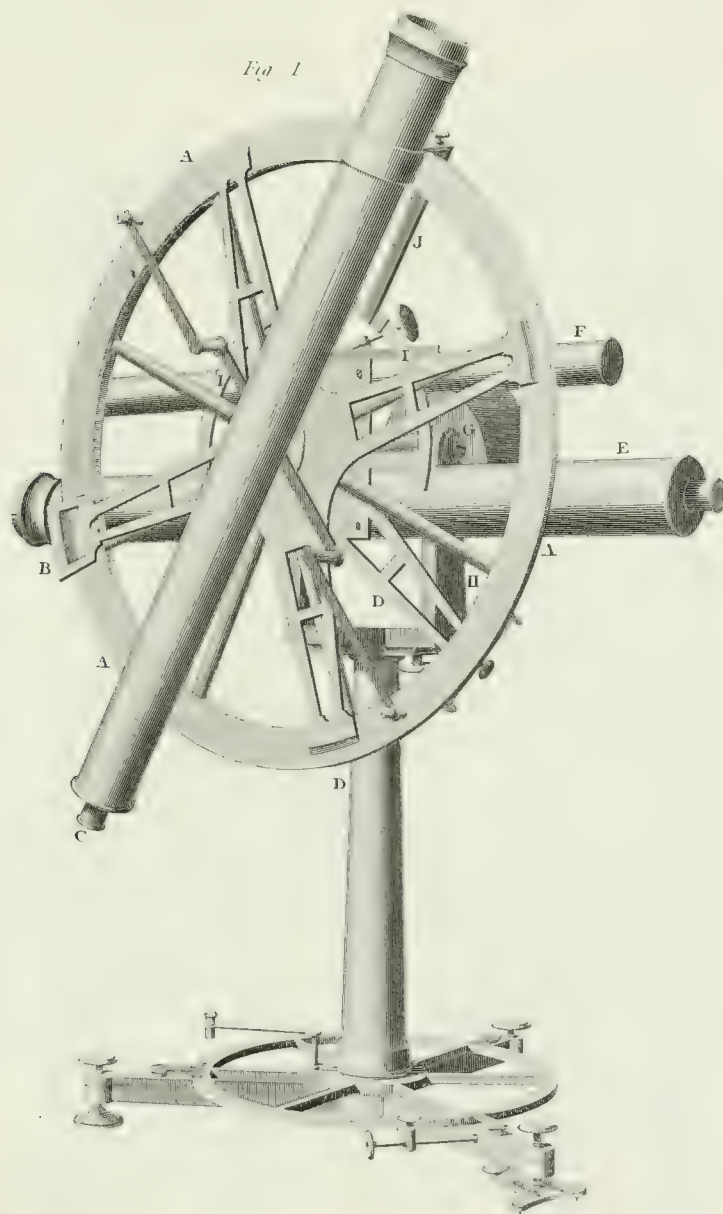


Borda's repeating circle without reflection.





The Repeating CIRCLE without reflection by Troughton.



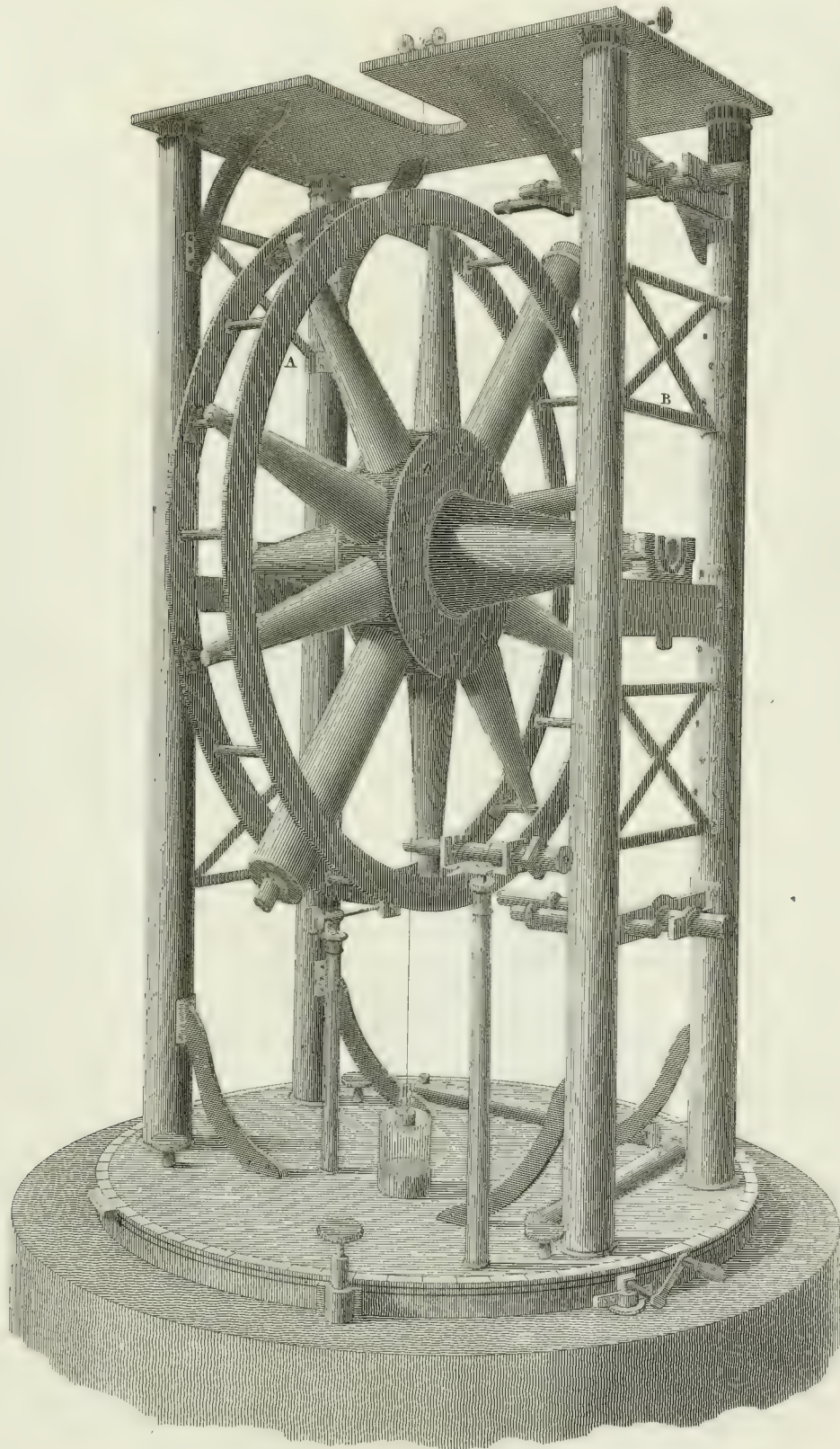


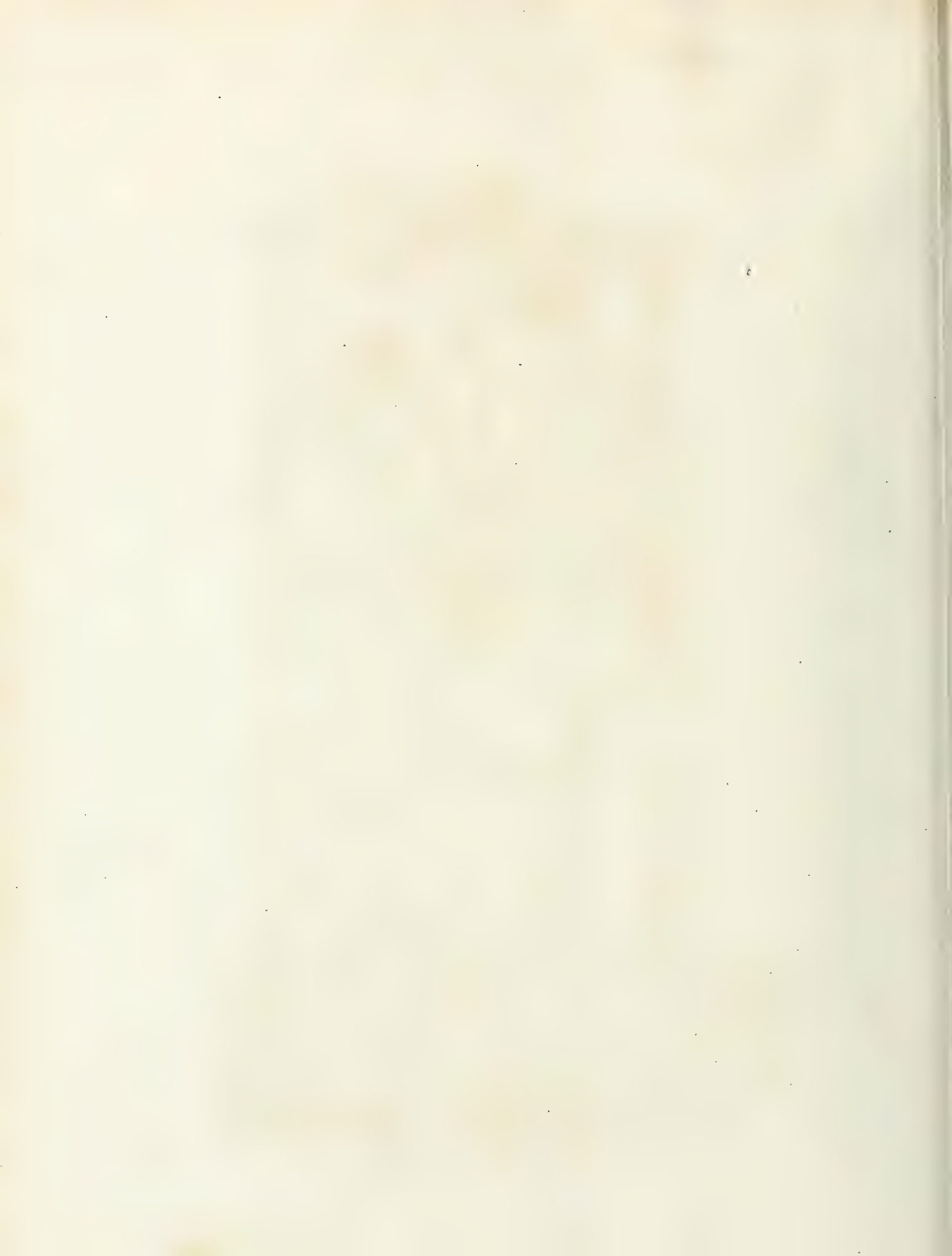
ASTRONOMICAL INSTRUMENTS.

PLATE VIII.

CIRCLE

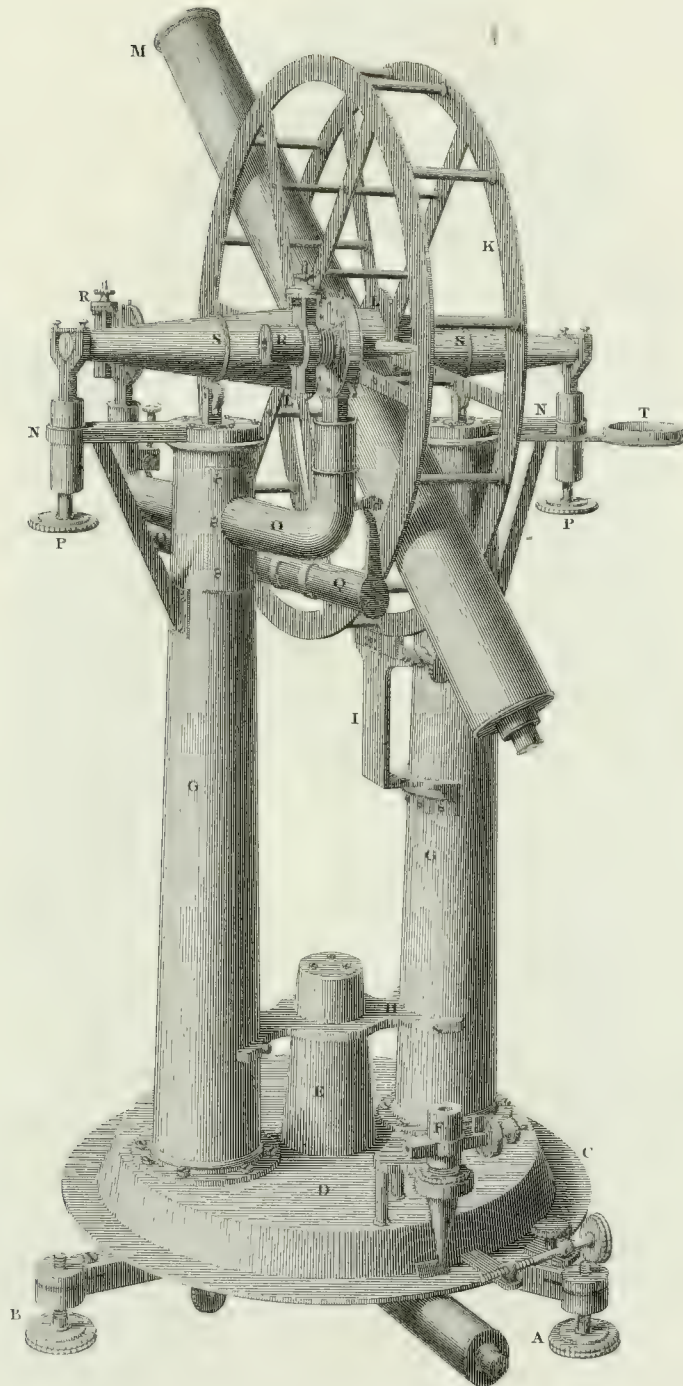
by the Rev^d Francis Woollaston.





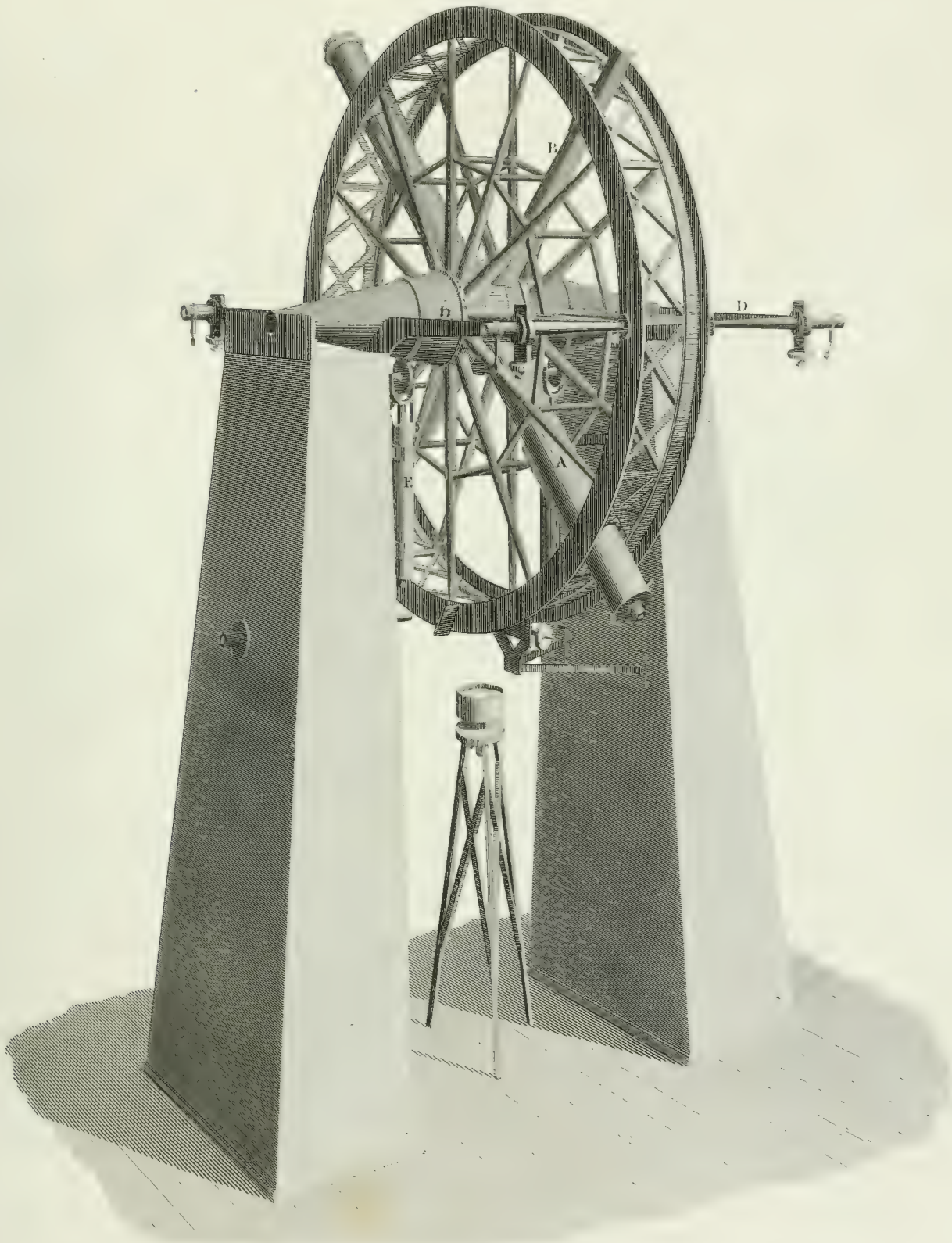
ASTRONOMICAL INSTRUMENTS.

Portable CIRCLE by Troughton.

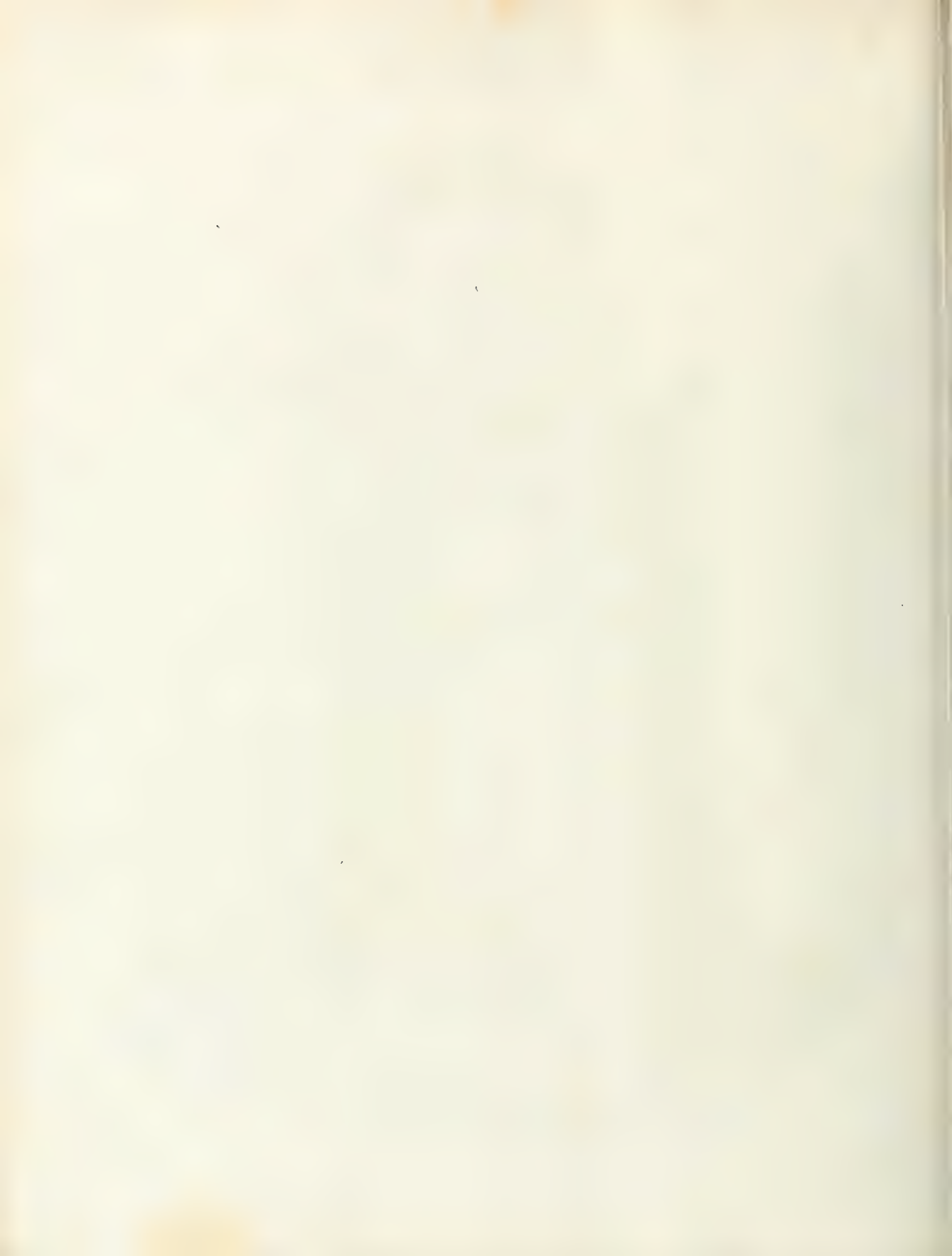




TROUGHTON'S MURAL CIRCLE.



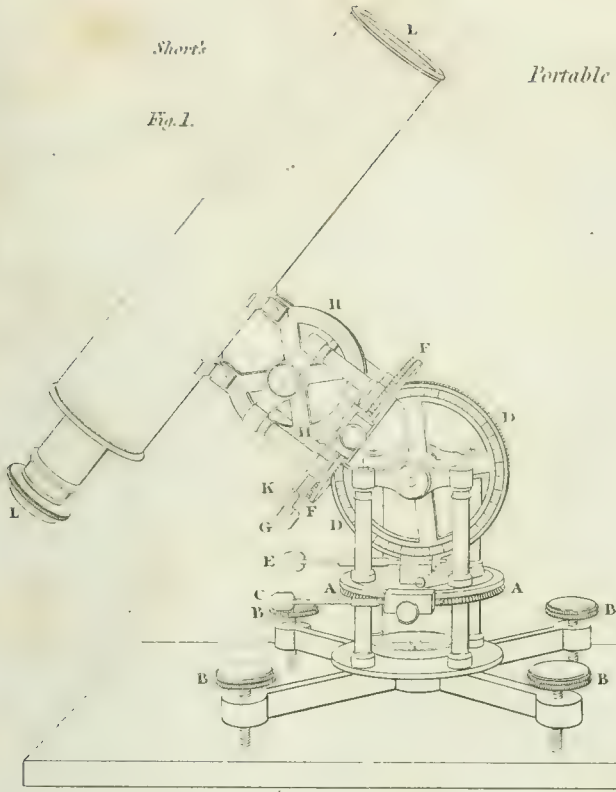
*Drawn by J. Fary, Jun^r, from the Instrument
in the possession of S. Groombridge Esq*



Portable Equatorial Instruments

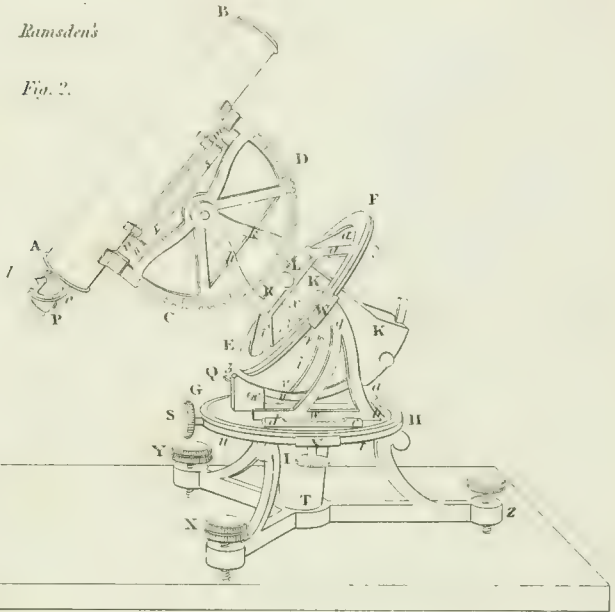
Short's

Fig. 1.



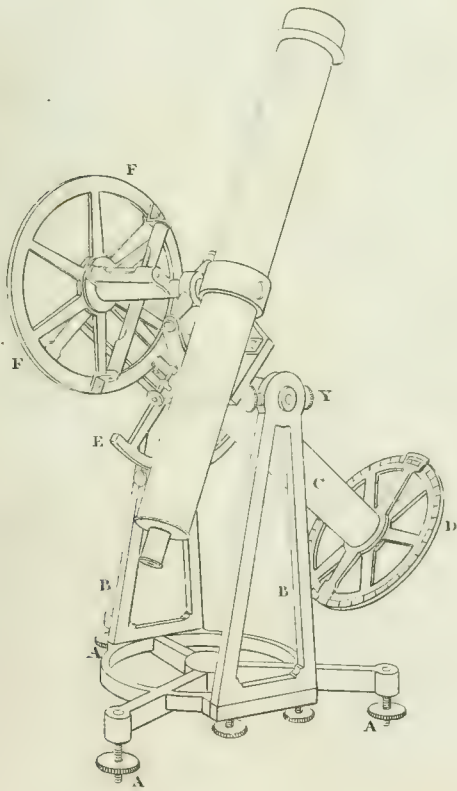
Ramsden's

Fig. 2.



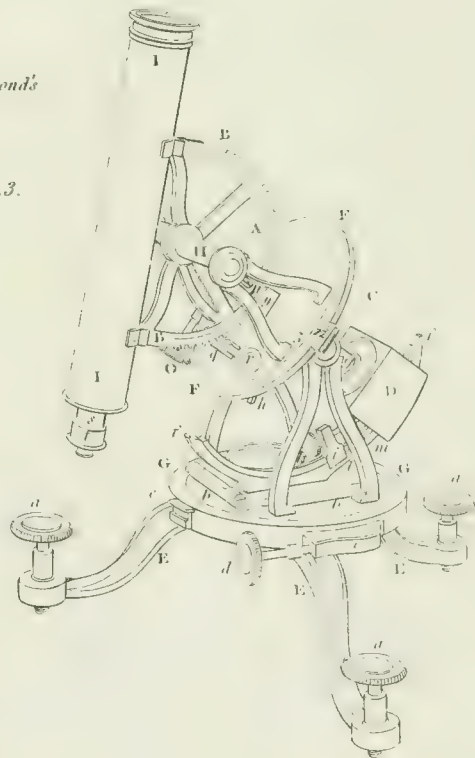
Fayrer's

Fig. 4.



Dollond's

Fig. 3.





Dollond's,
OBJECT GLASS, MICROMETER.

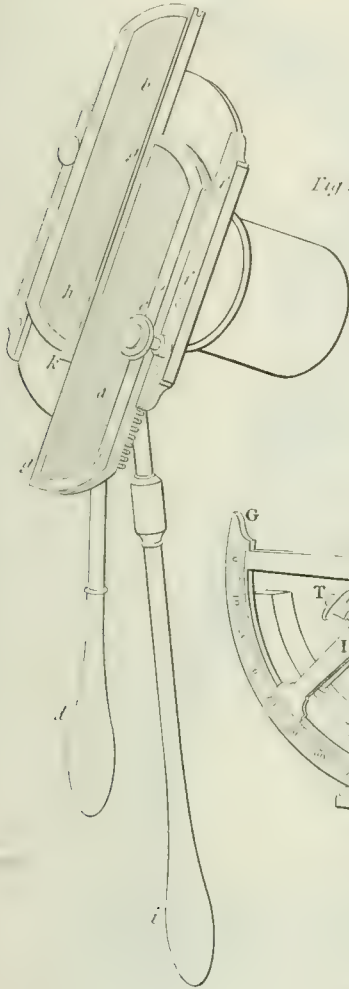


Fig. 4.

Nairne's,
Portable EQUATORIAL
Instrument.

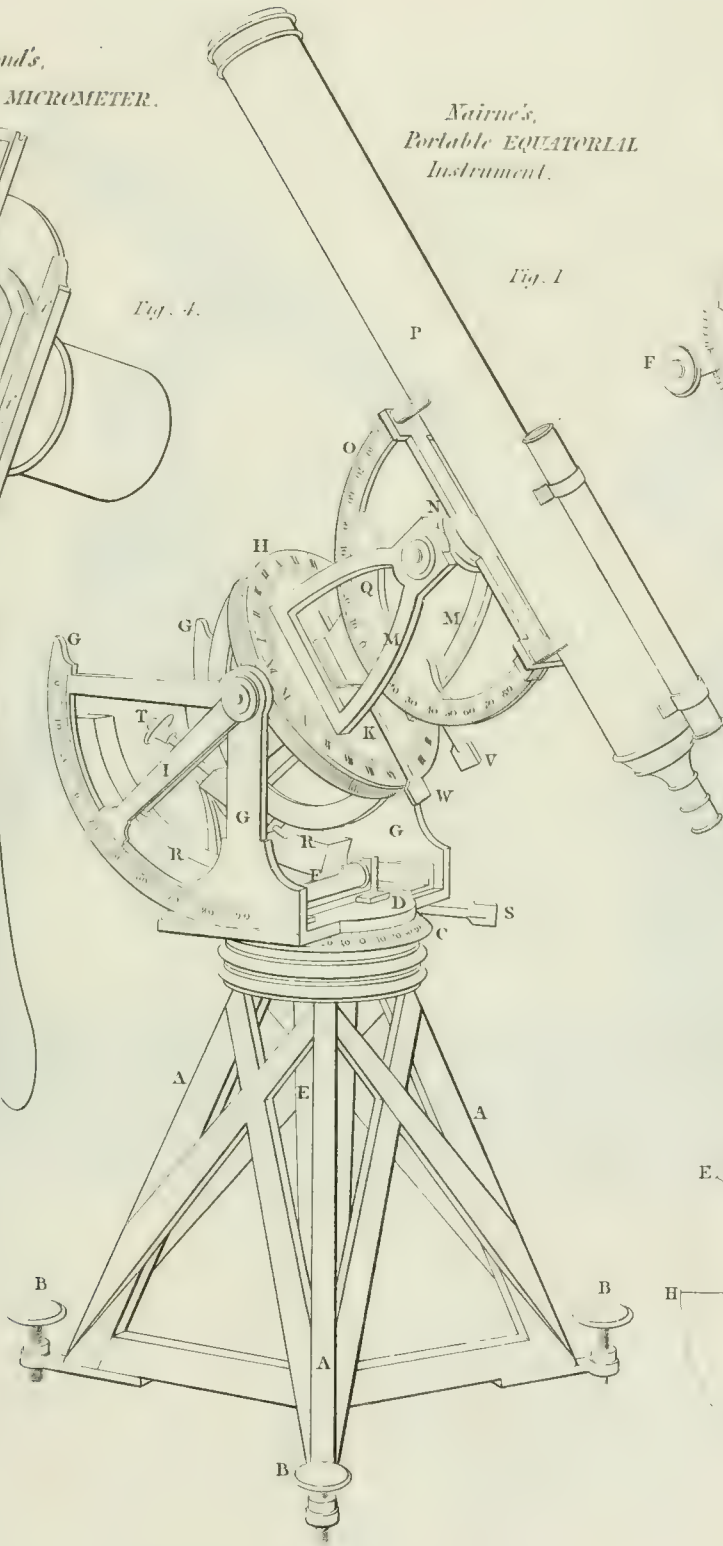


Fig. 1.

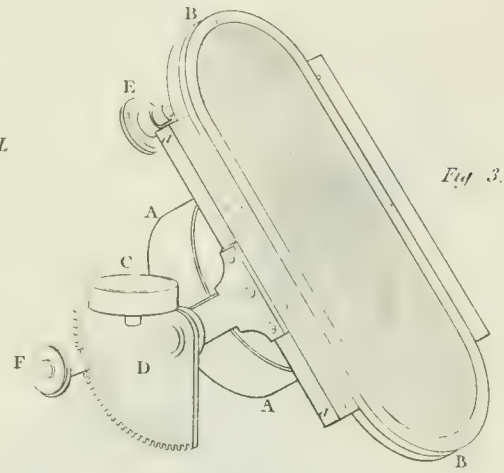
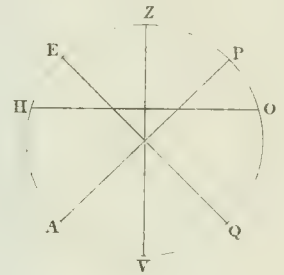


Fig. 3.

Dollond's,
REFRACTION Apparatus.

Fig. 4.



Ramsden's,
REFRACTION Apparatus.

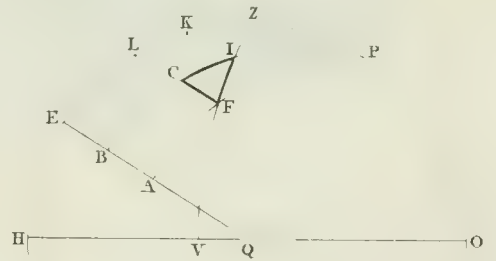
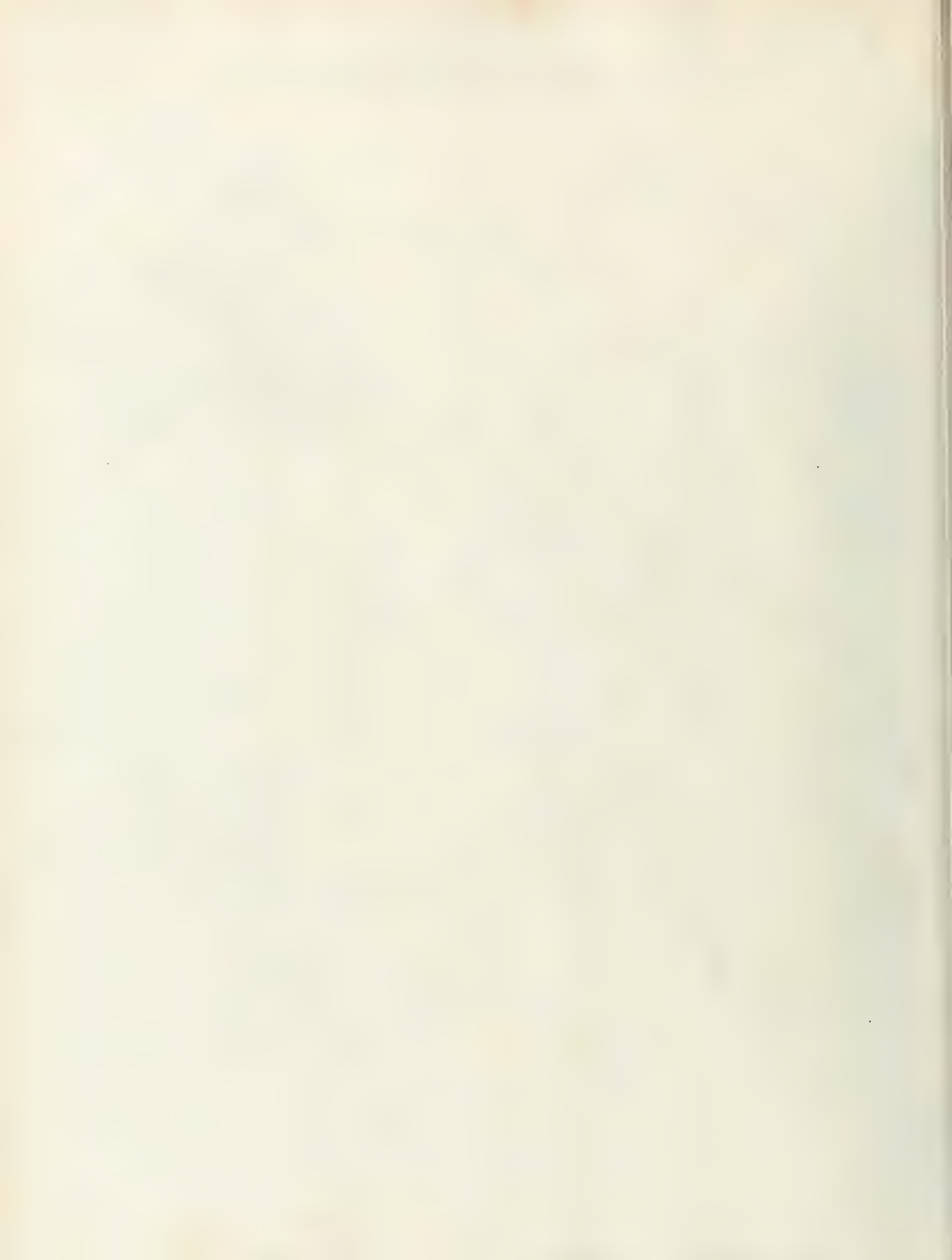


Fig. 2.



*Equatorial Stand of a
Telescope.*

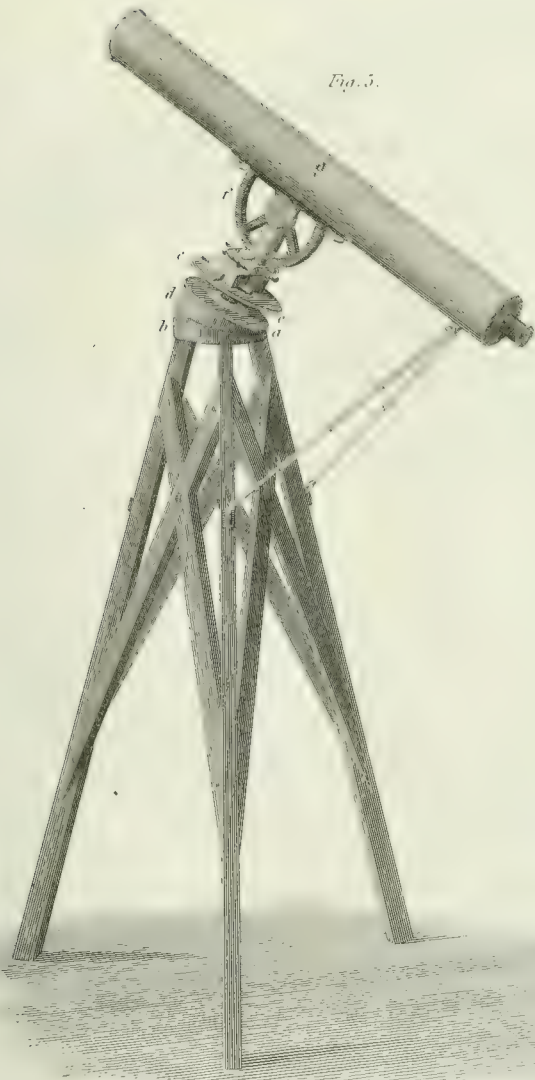


Fig. 5.

*M. Graham's Equatorial
Sector.*

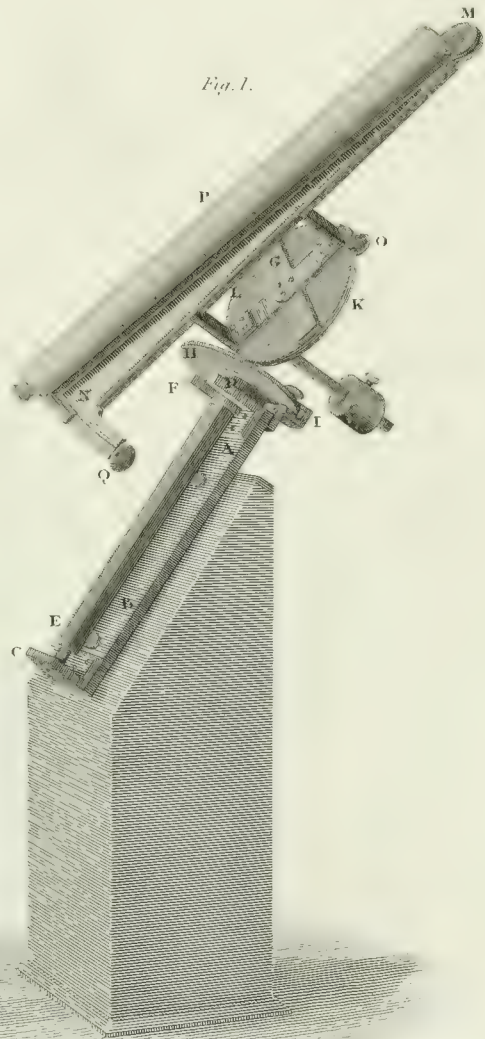


Fig. 1.

Fig. 2.

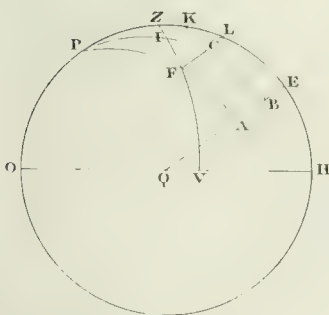


Fig. 3.

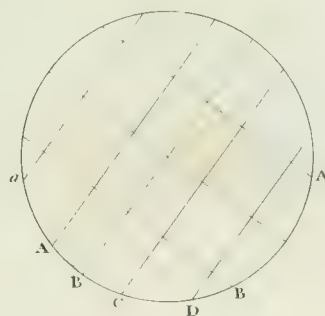
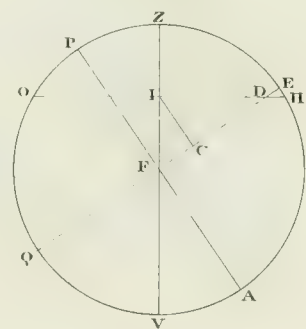
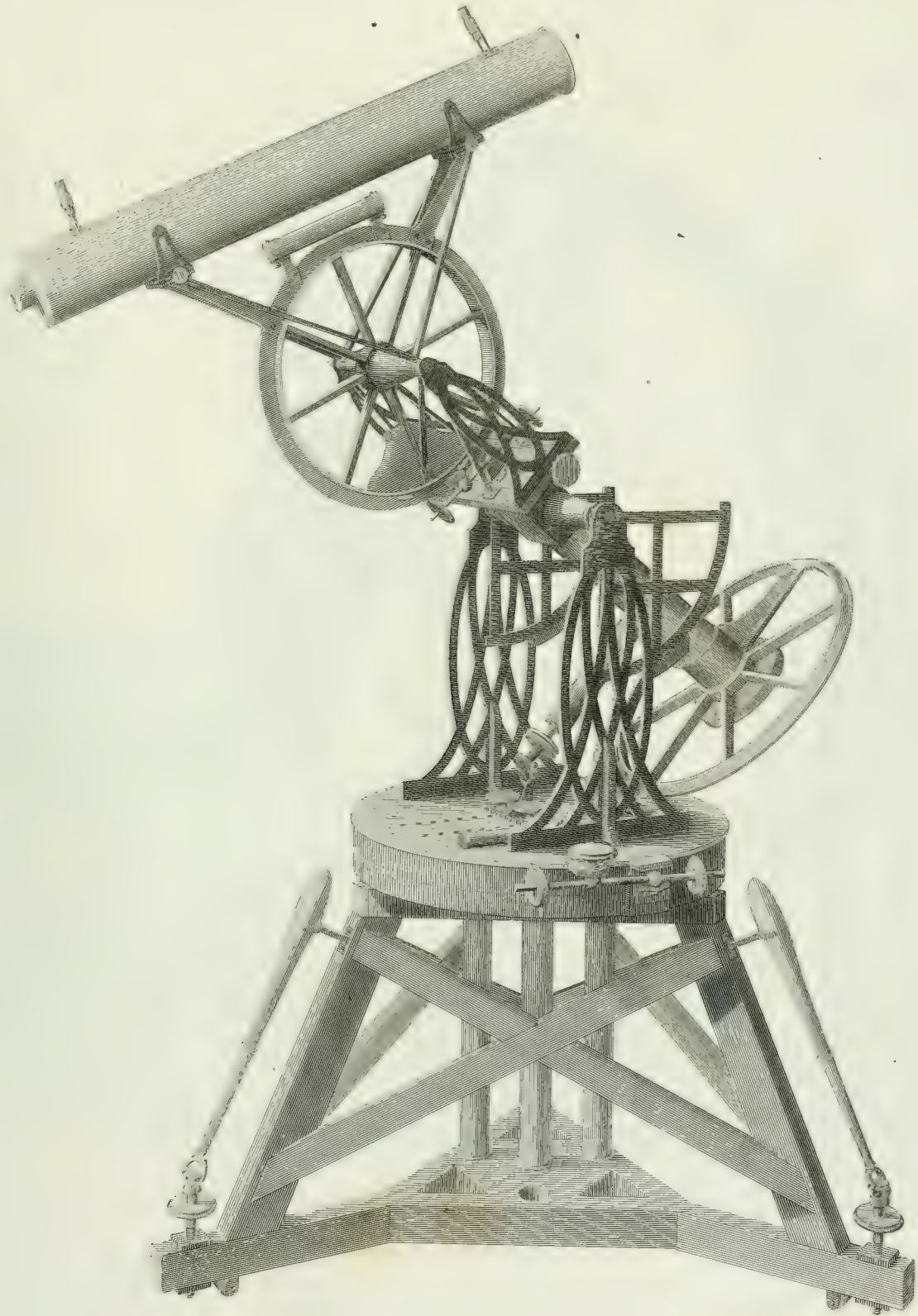


Fig. 4.



Universal EQUATORIAL, Instrument. by Troughton.

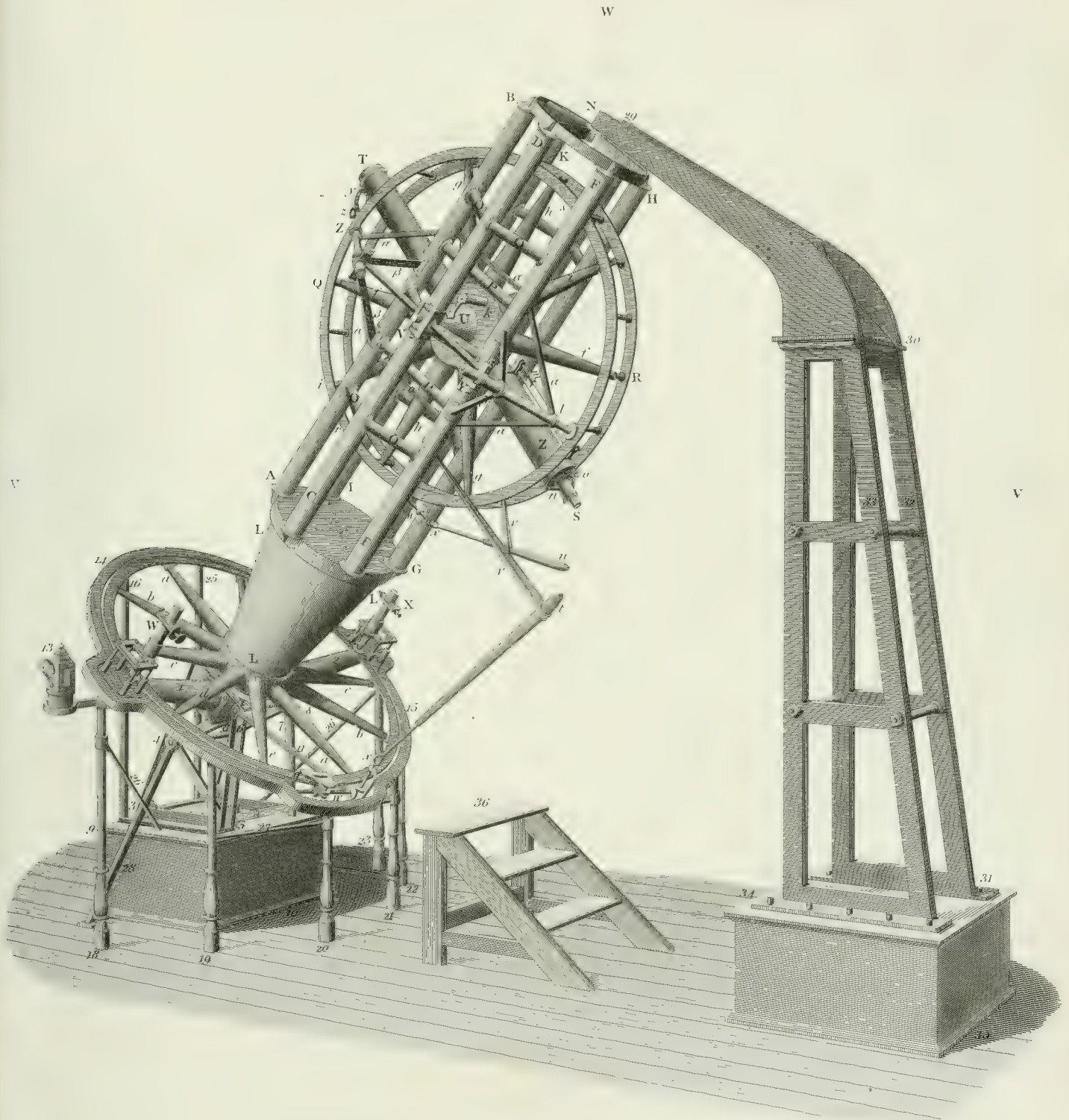




ASTRONOMICAL INSTRUMENTS.

PLATE XVI.

Equatorial Instrument made by Ramsden for Sir Geo. Shuckburgh.



In viewing this picture, the eye of the Spectator should be placed at 12 inches perpendicular distance from the intersections of the lines V.V. .W.W.

ASTRONOMICAL INSTRUMENTS.

EQUATORIAL Instrument at Armagh.

made by Troughton.

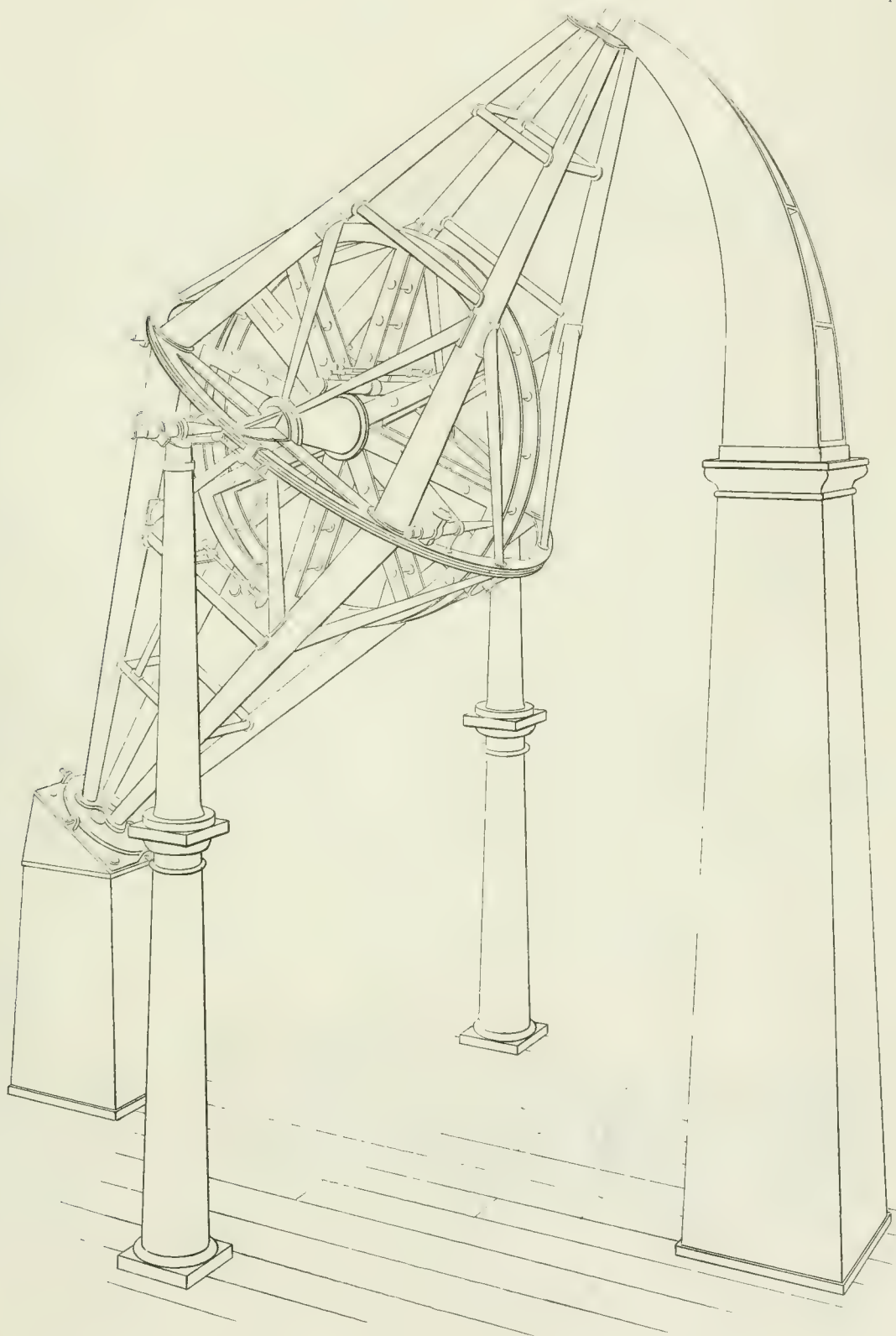






Fig. 1.
Sisson's Equatorial Sector.



Fig. 2.

Earl of Ray's Equal Altitude Instrument.

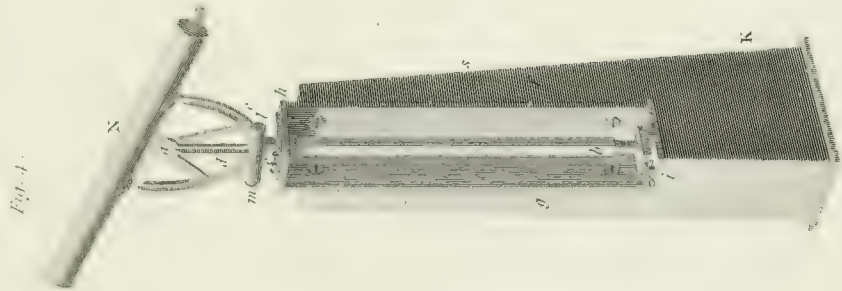


Fig. 3.

M. Cole's Equal Altitude Instrument.

Fig. 4.

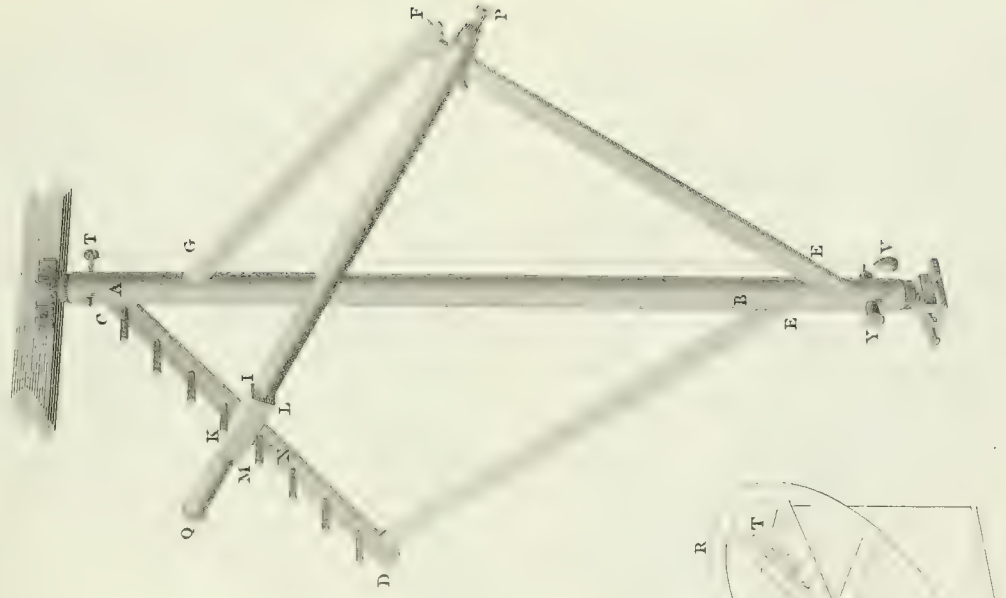
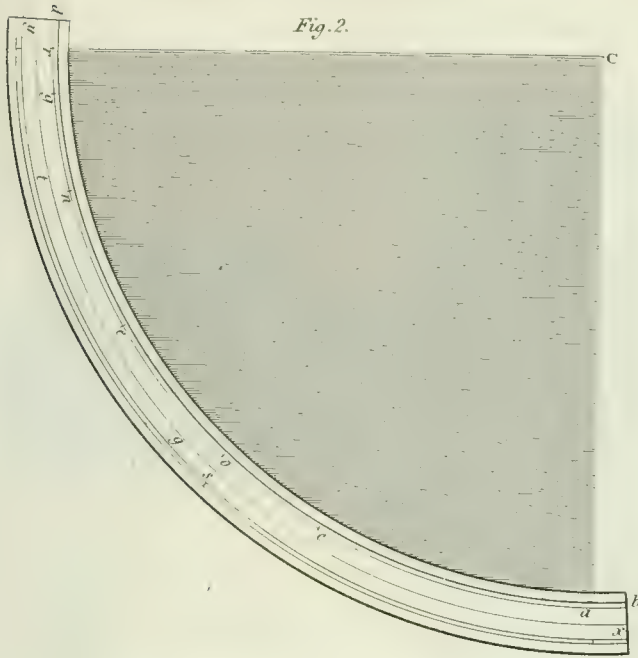


Fig. 5.

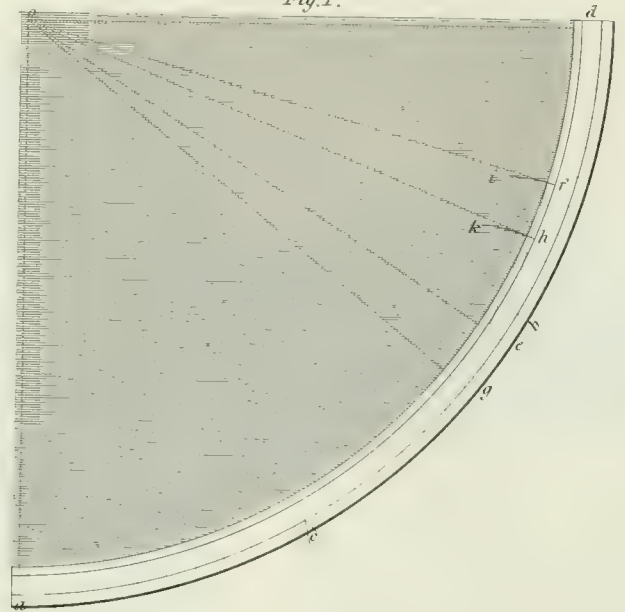
Division of Bird's Quadrant.

Fig. 2.



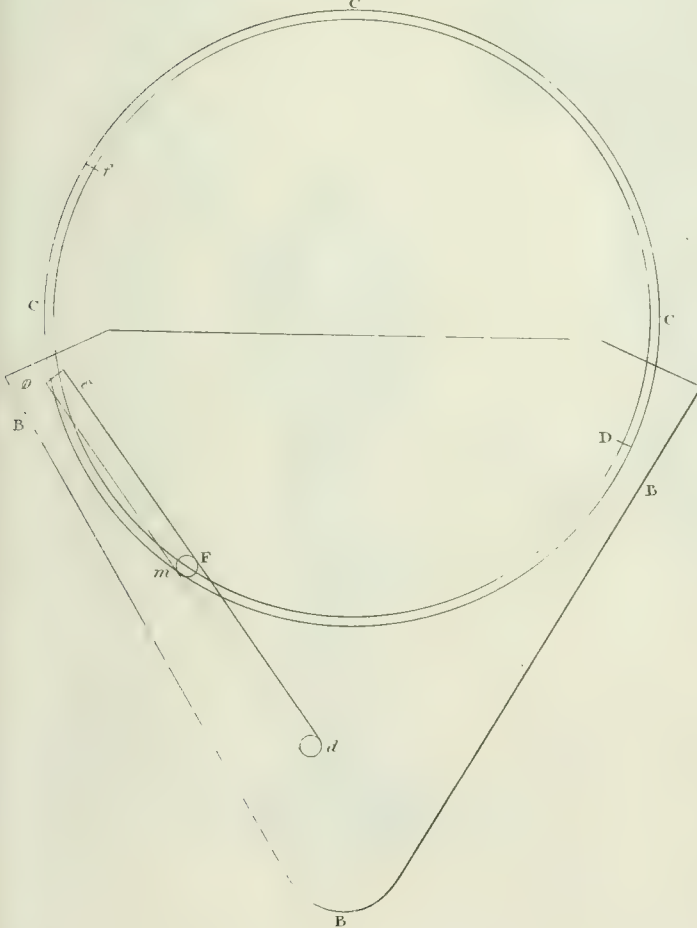
Division of Graham's Quadrant.

Fig. 1.



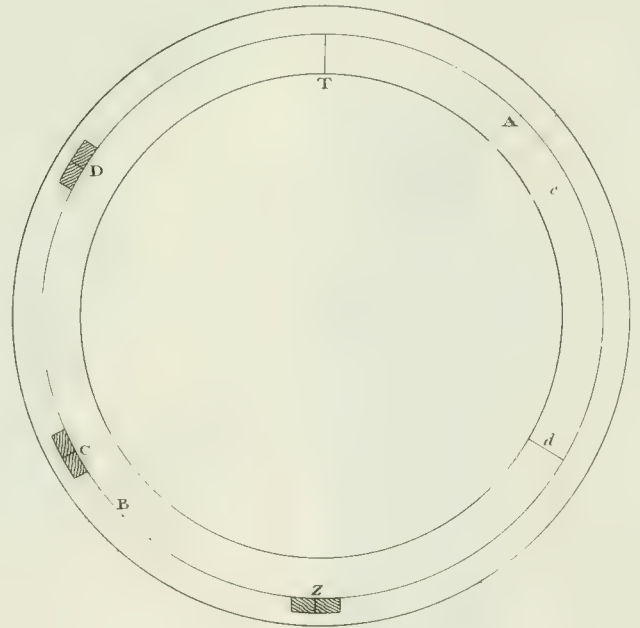
M^r Cavendish's Dividing.

Fig. 4.



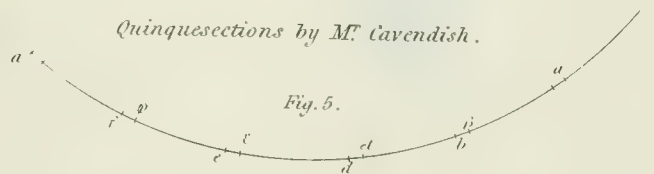
duc de Chaulne's Dividing.

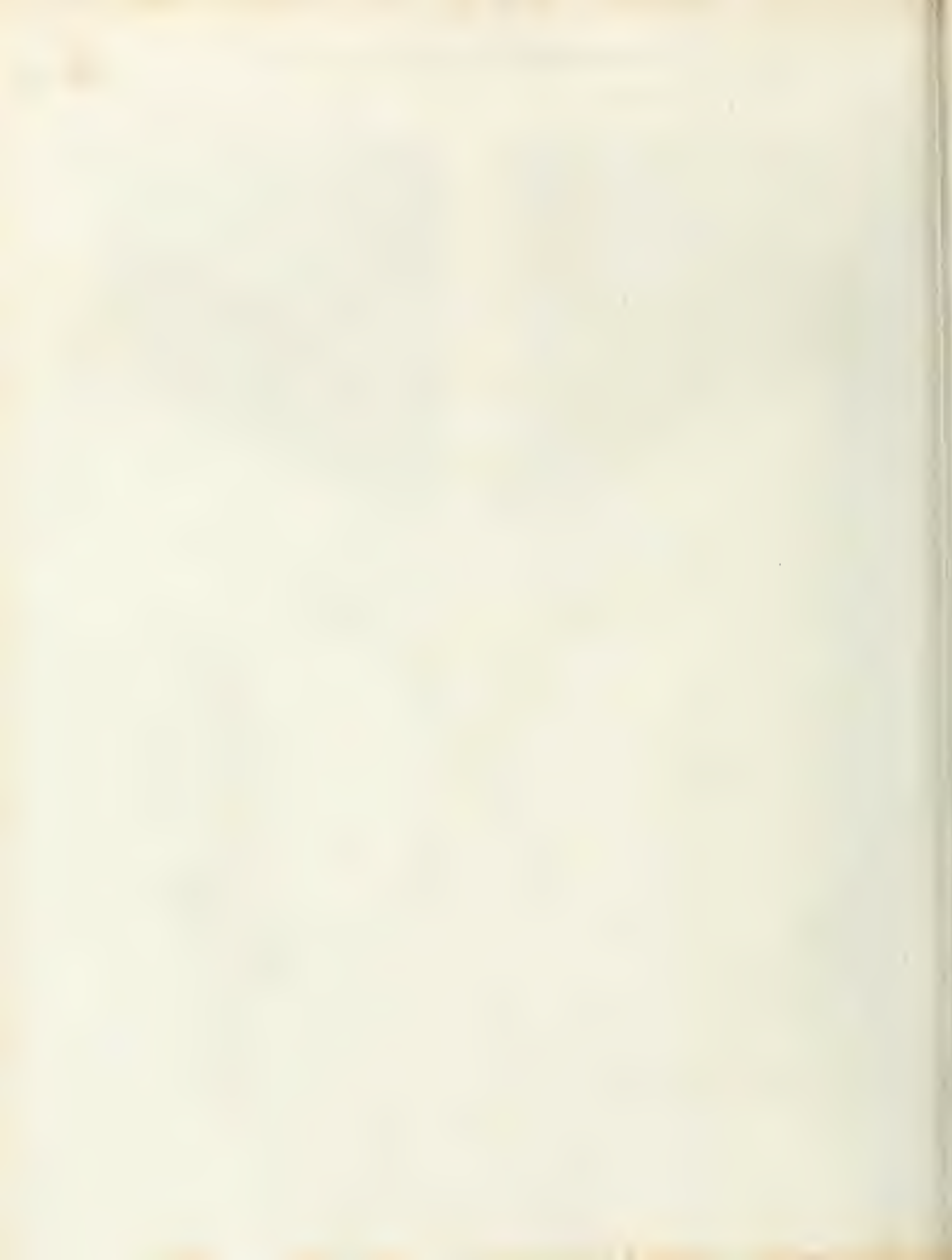
Fig. 3.



Quinquesections by M^r Cavendish.

Fig. 5.





GRADUATION.

Troughton's method of Graduating a Circle.

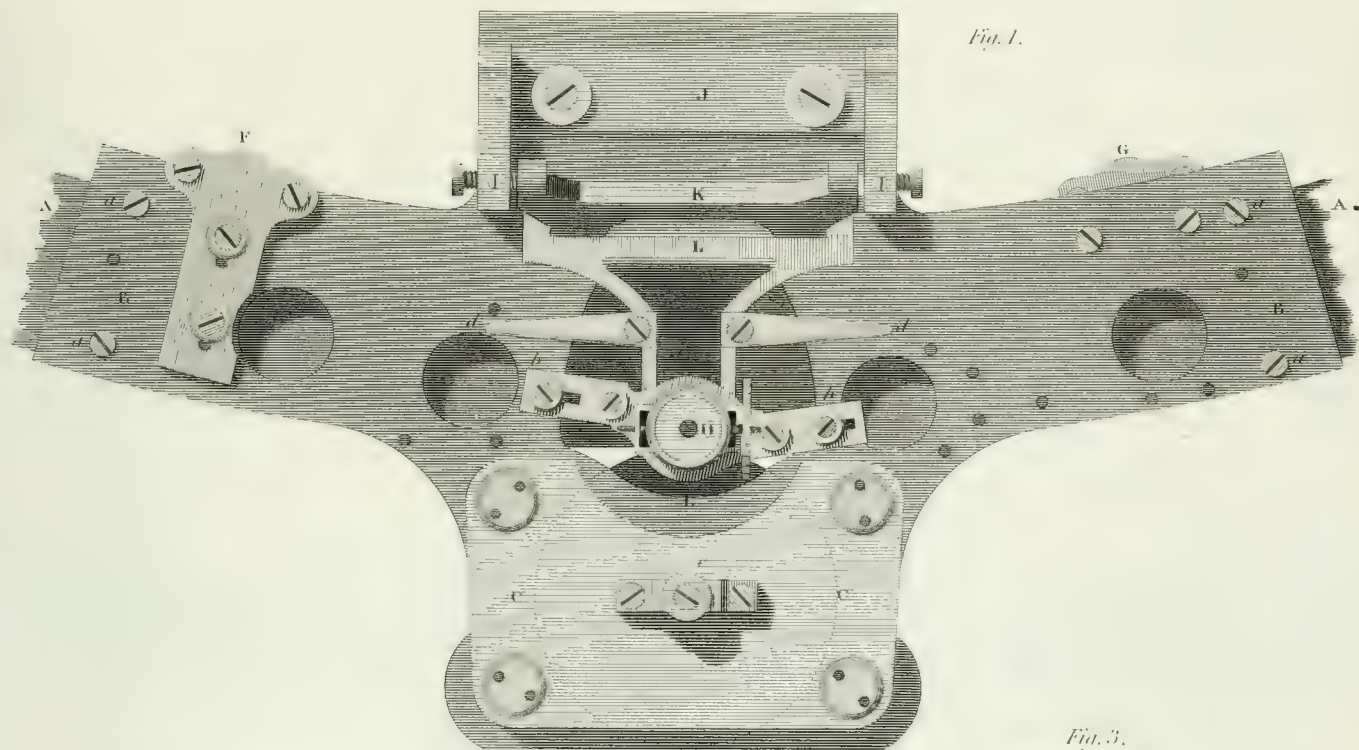


Fig. 1.

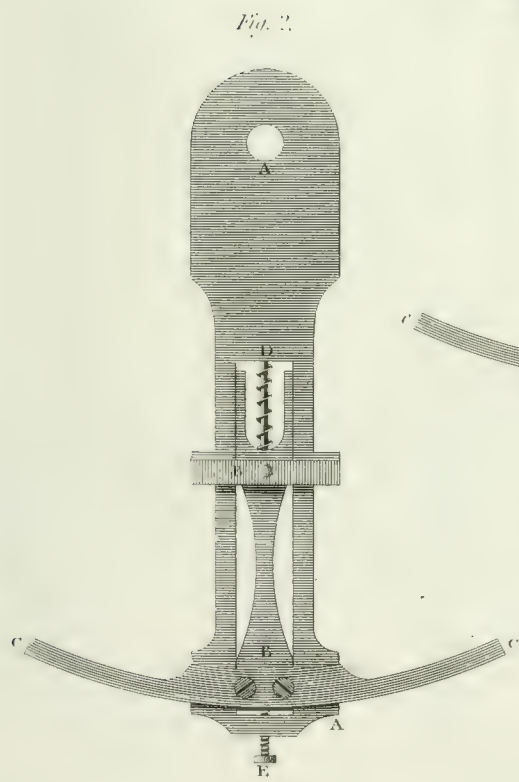


Fig. 2.

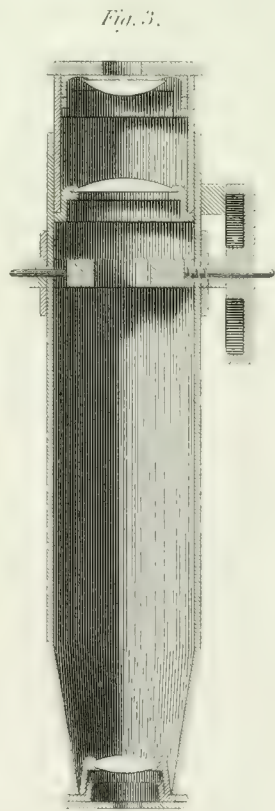


Fig. 3.



ASTRONOMICAL INSTRUMENTS.

Troughton's method of Graduating a Circle.

Fig. 4.

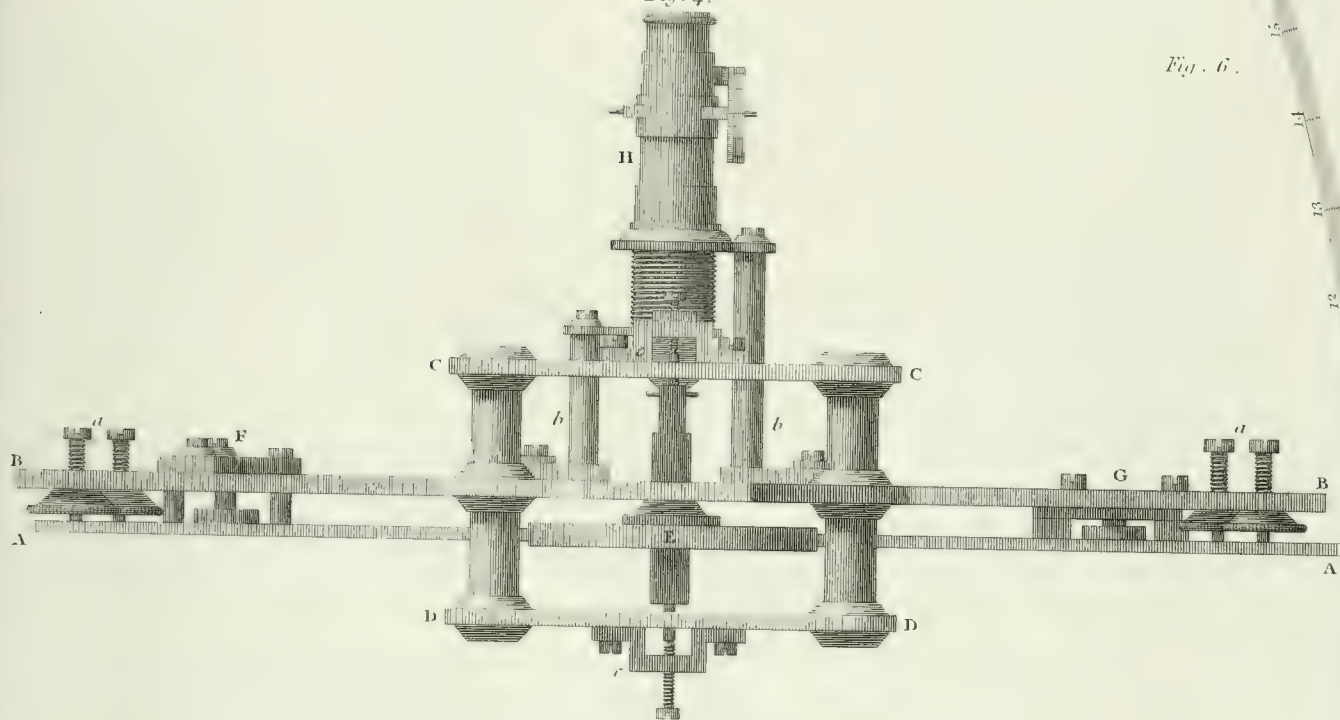


Fig. 5.

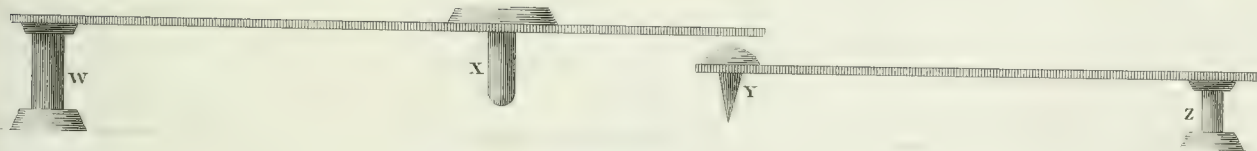
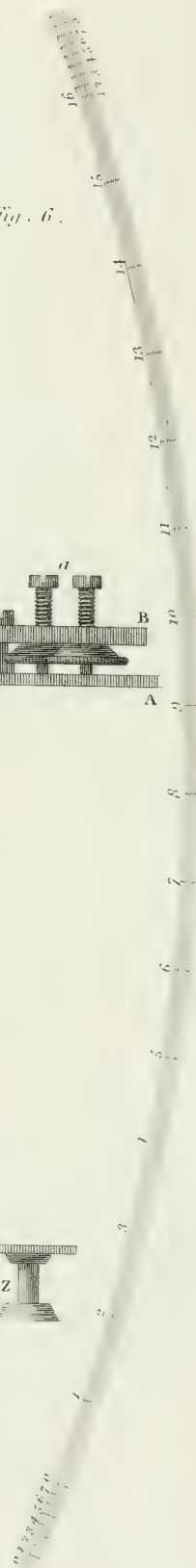
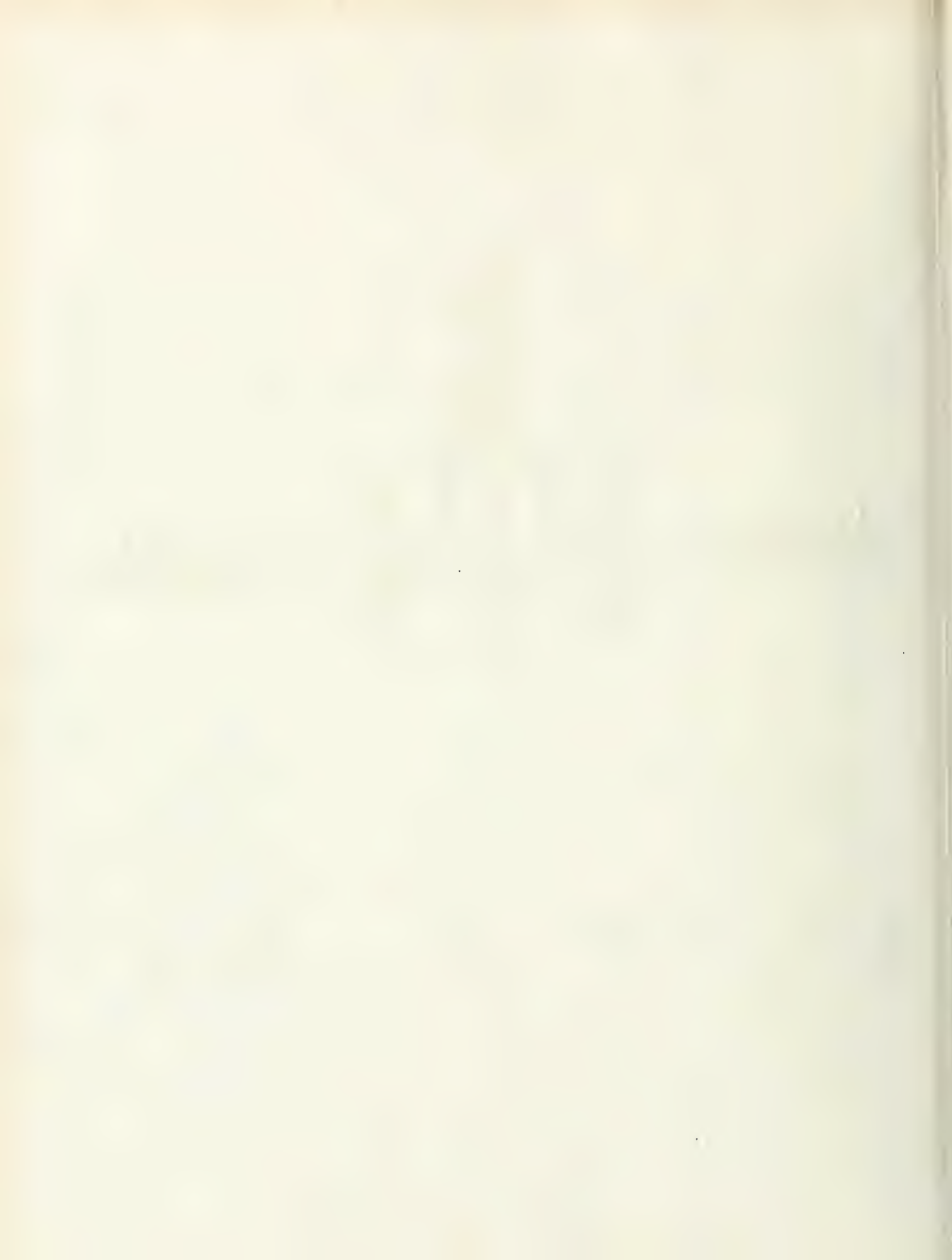


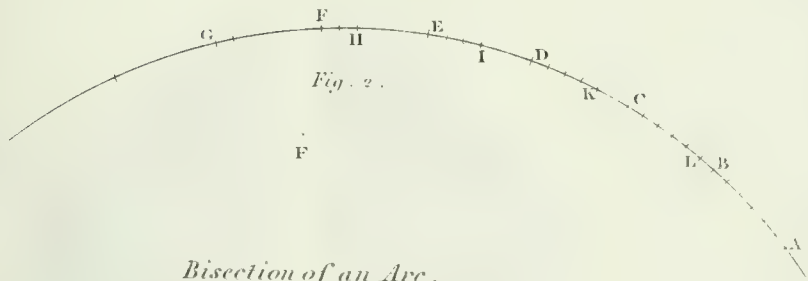
Fig. 6.





GRADUATION.

by Clavius



Bisection of an Arc.

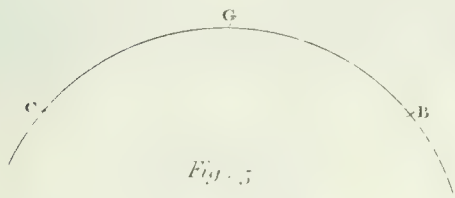
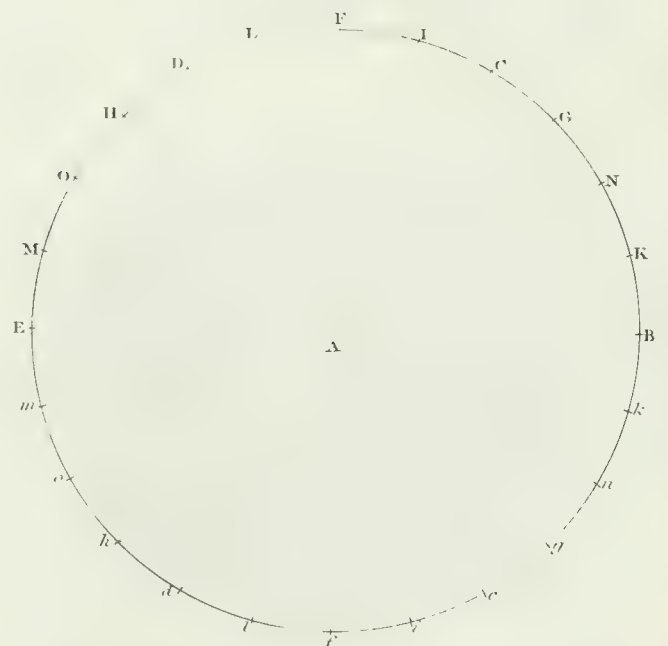
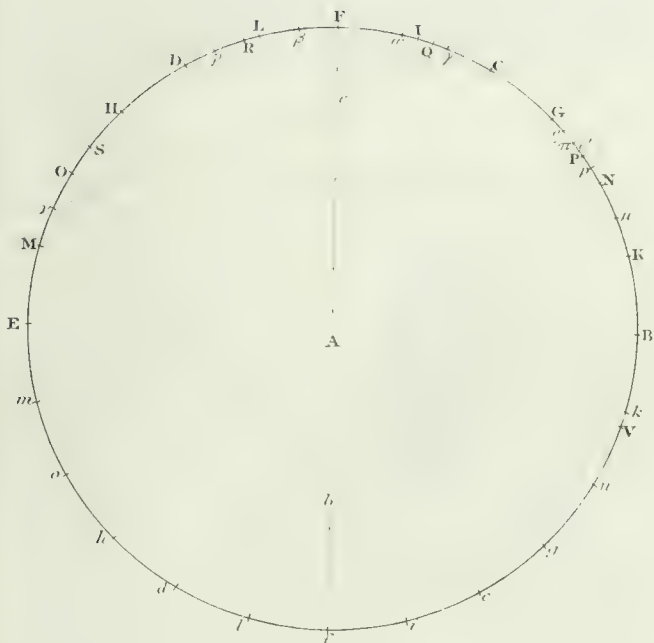
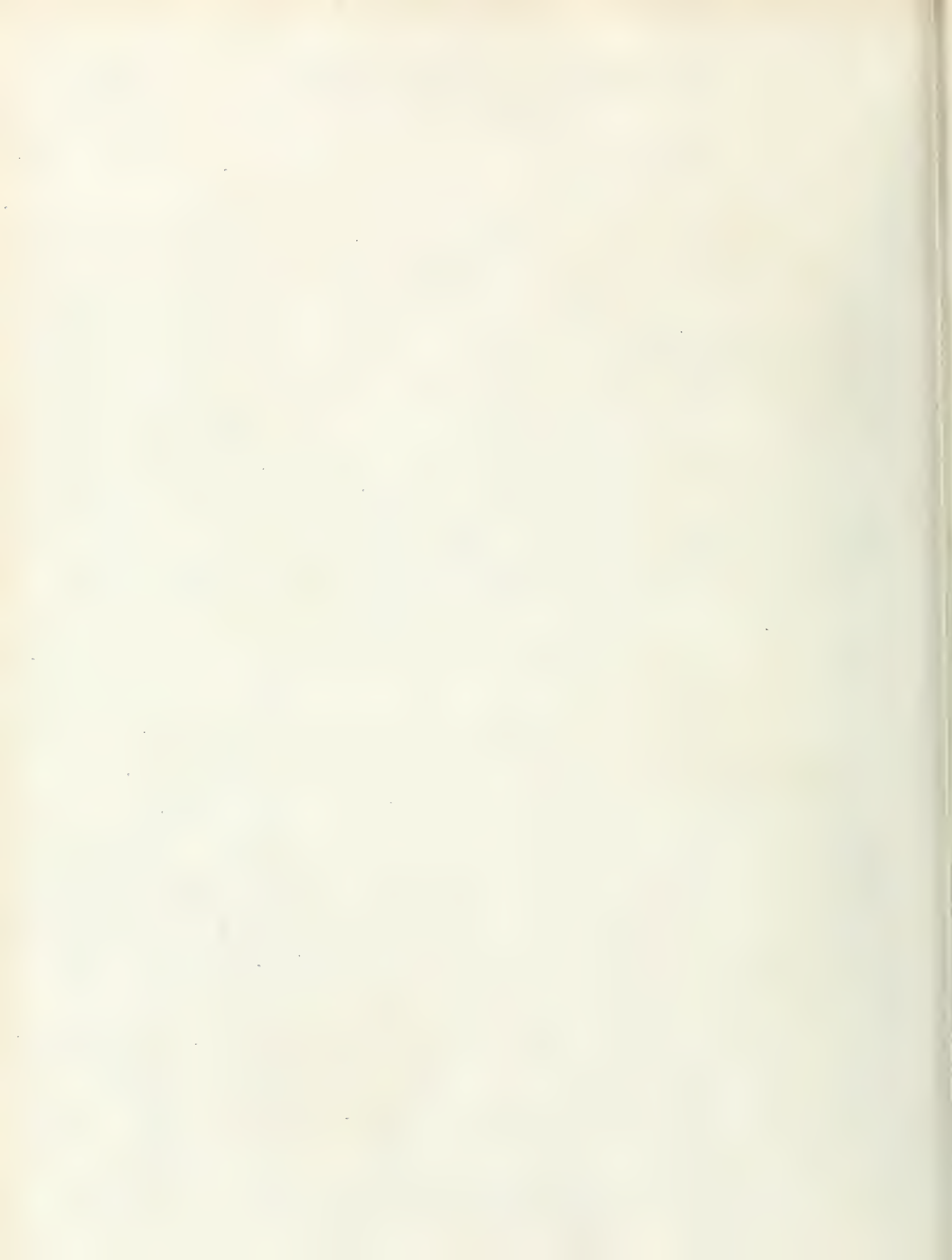


Fig. 4.

a

by Mascheroni





ROTATIVE ROOF.

Rev.^d W. Pearson's.

Fig. 5.

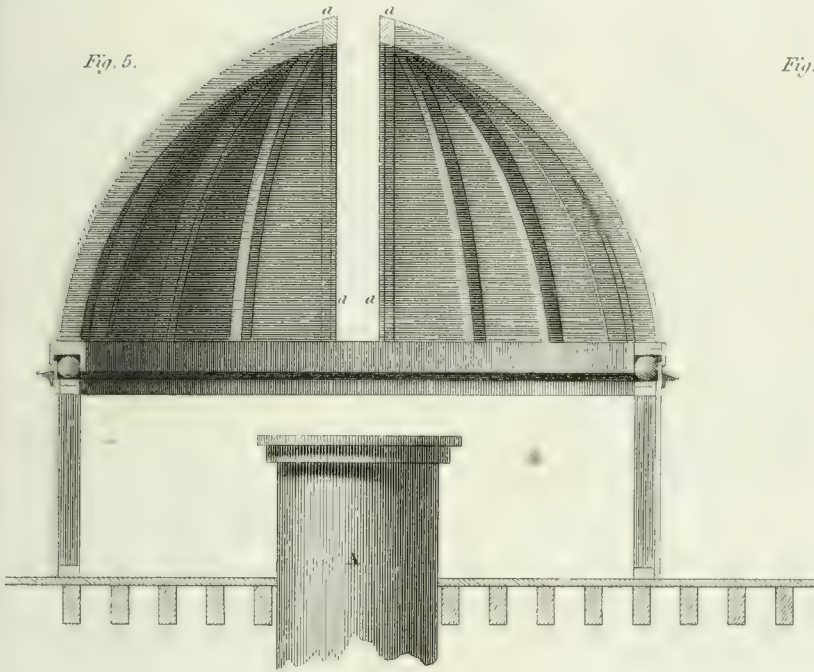


Fig. 6.

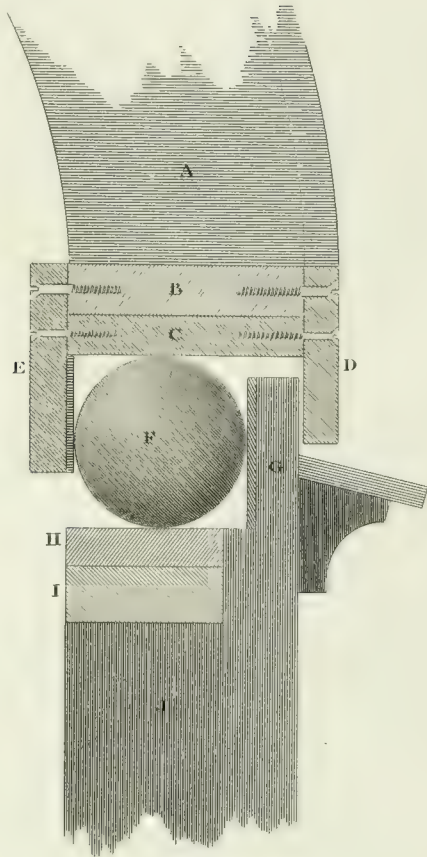
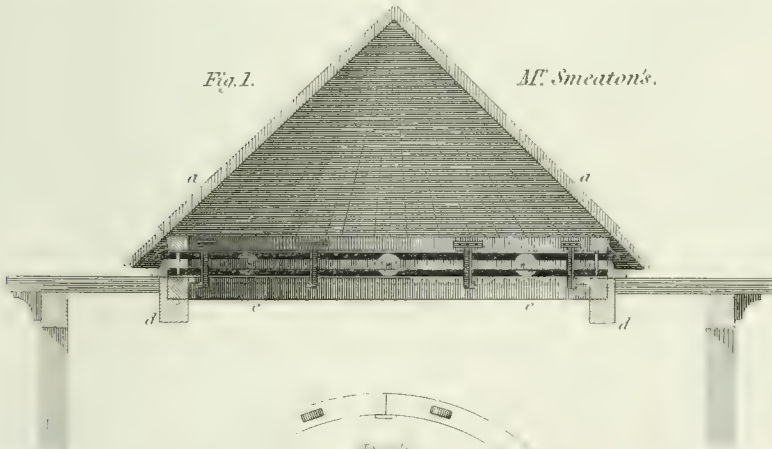


Fig. 1.

M^r. Smeaton's.



Section of the Lids.

Fig. 3.

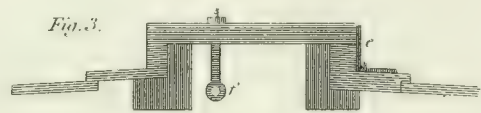


Fig. 2.

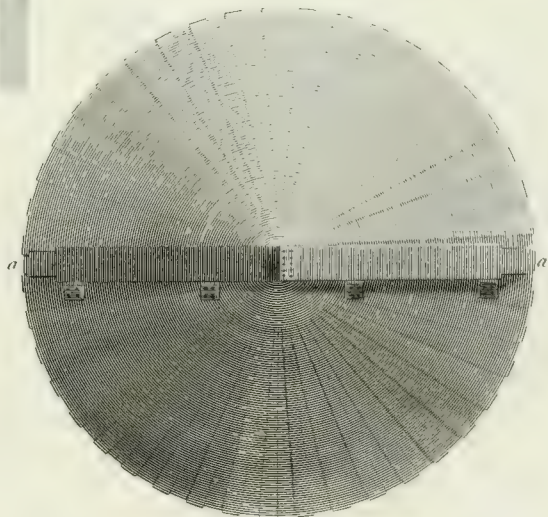
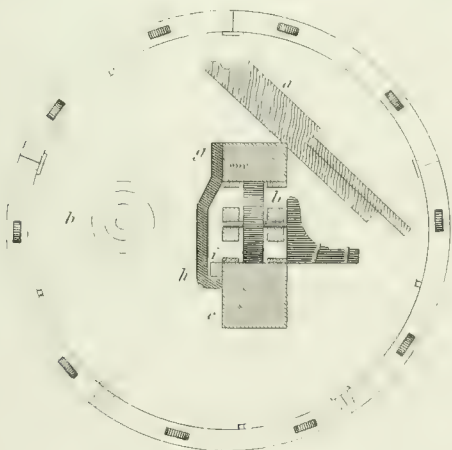
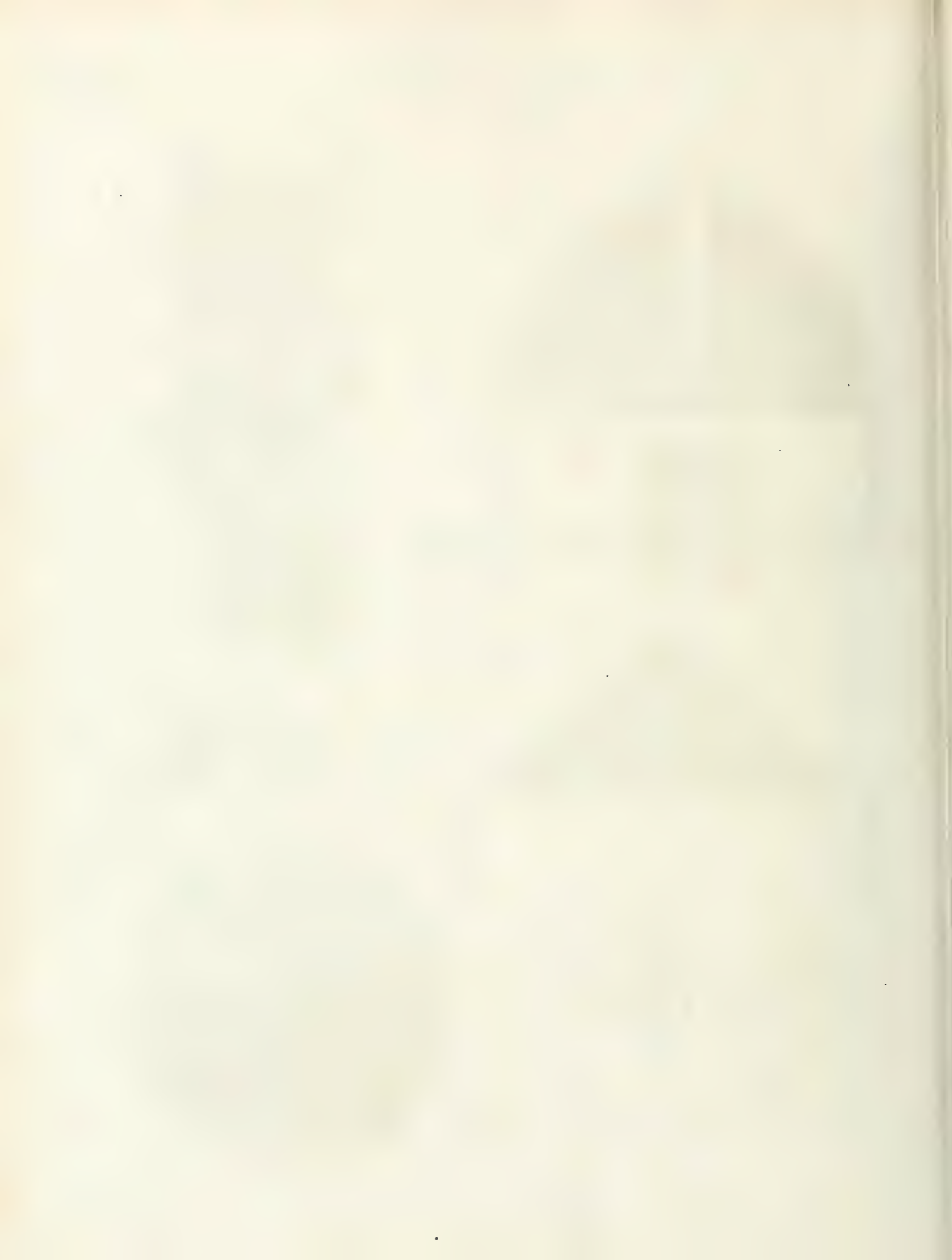


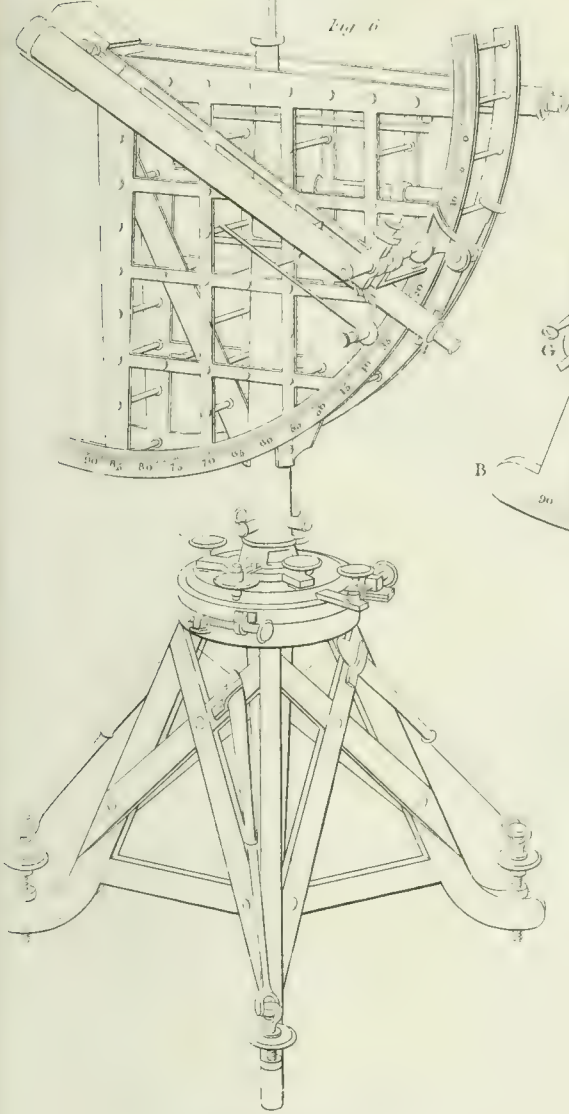
Fig. 4.





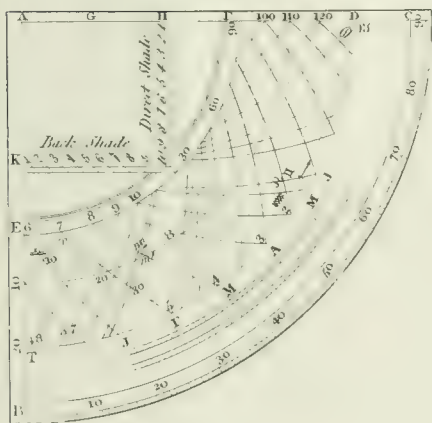
Troughton's QUADRANT.

Fig. 6



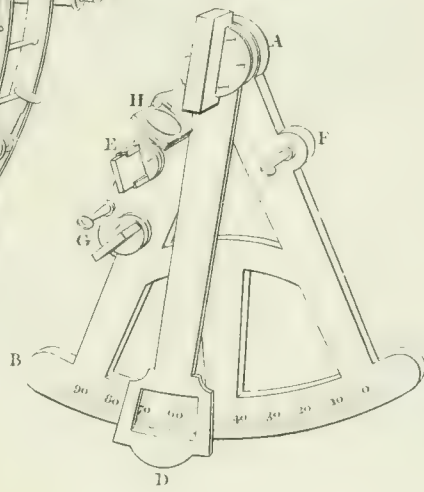
Gunter's QUADRANT.

Fig. 3.



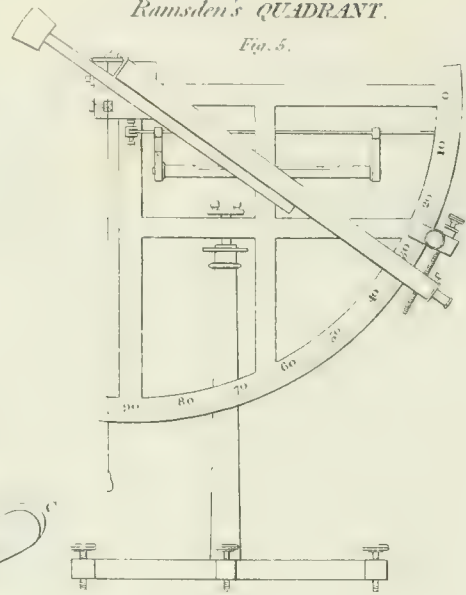
Hally's OCTANT

Fig. 1



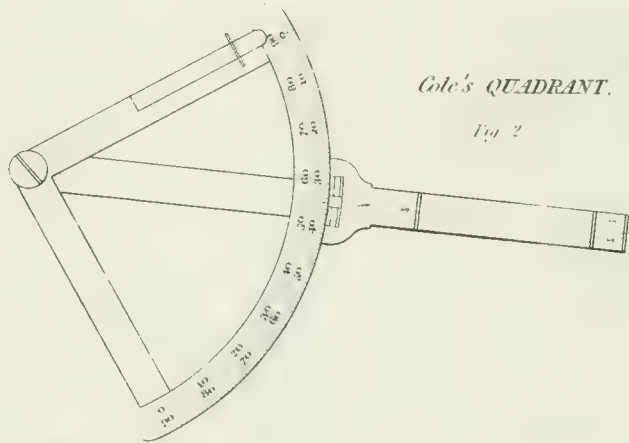
Ramsden's QUADRANT.

Fig. 5.



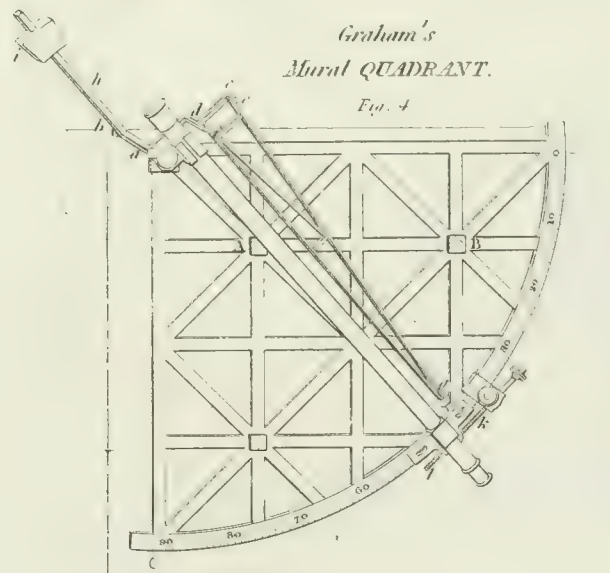
Cole's QUADRANT.

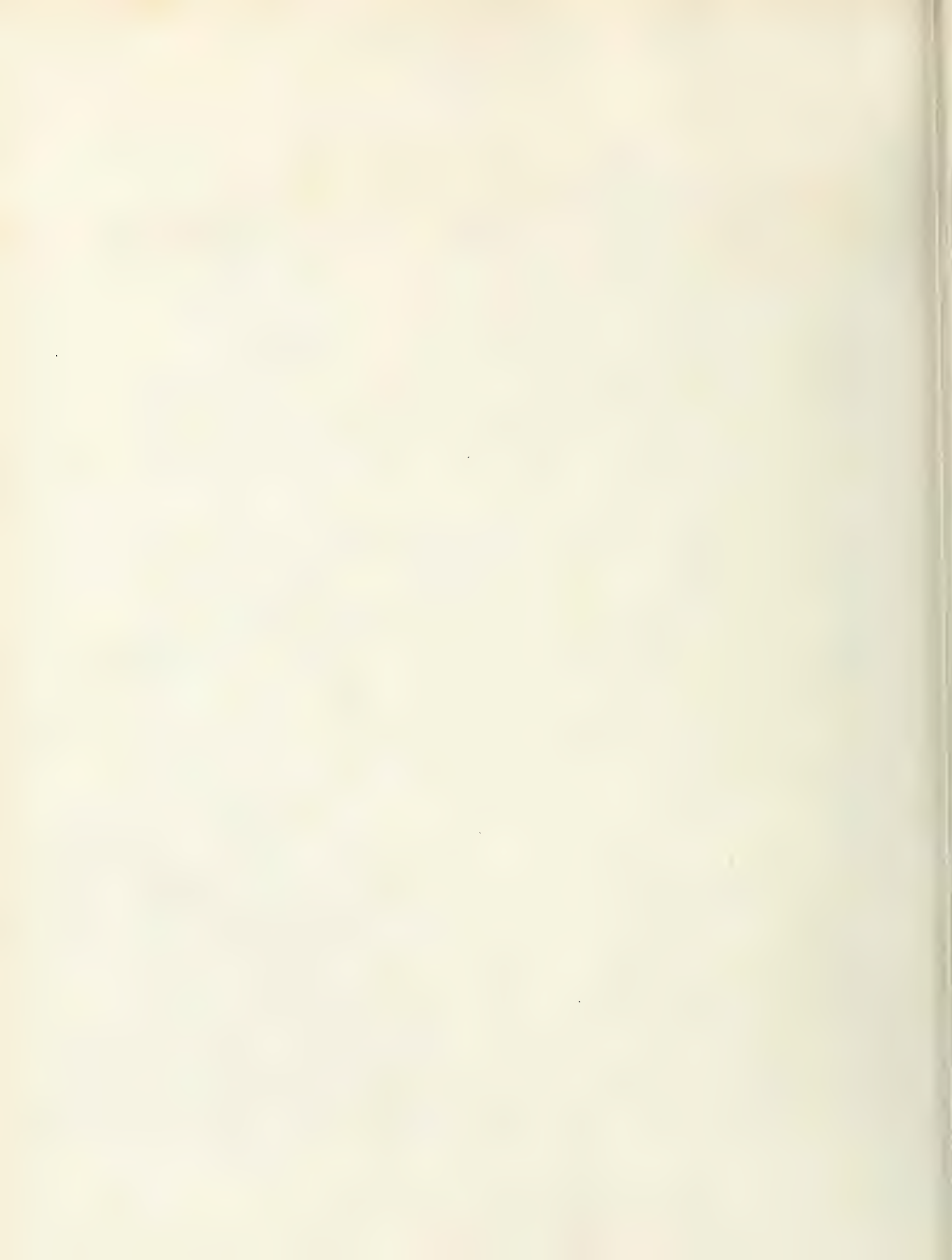
Fig. 2

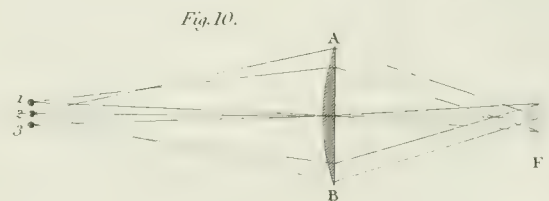
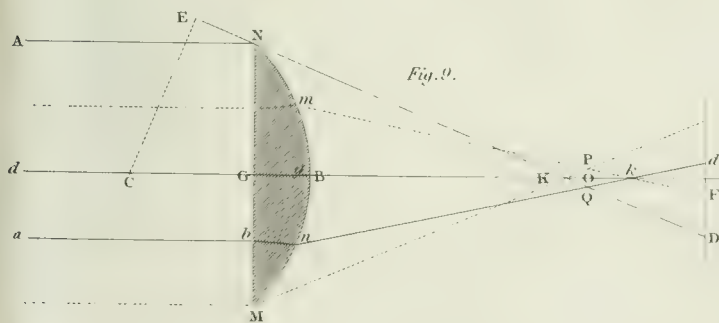
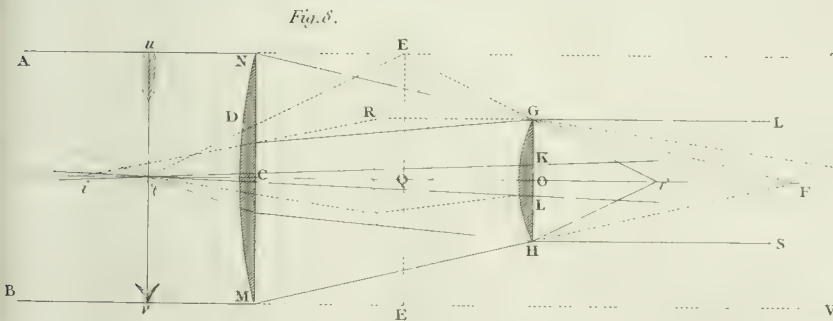
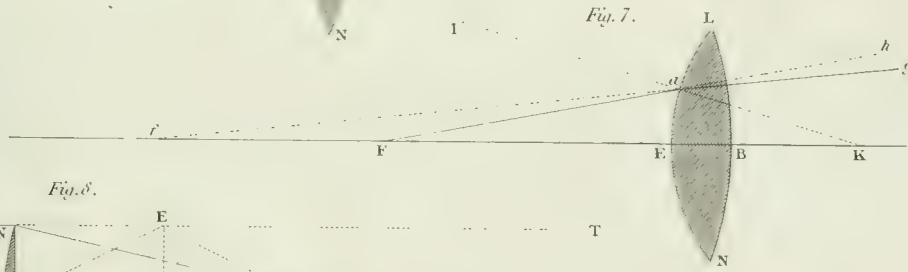
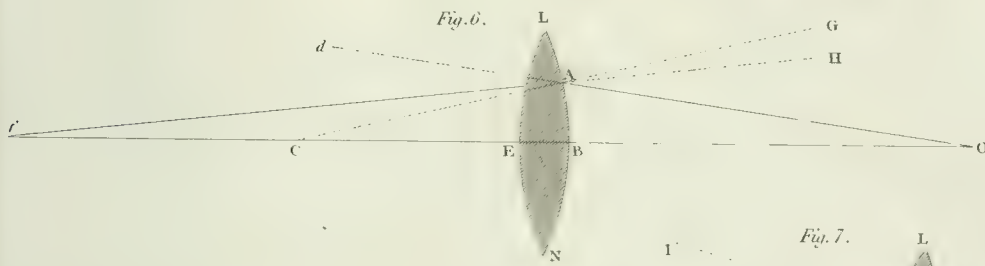
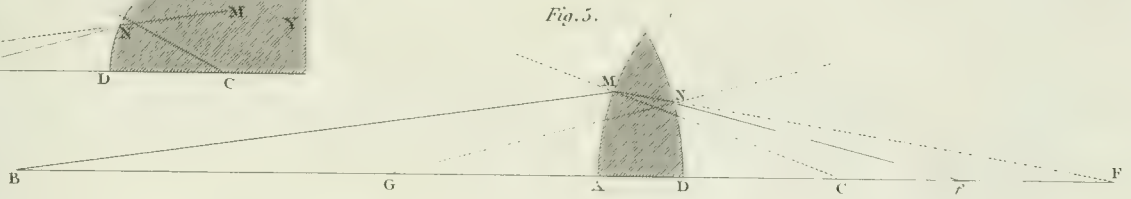
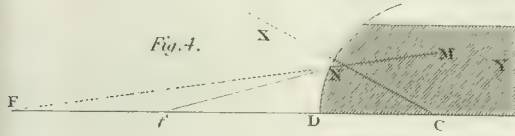
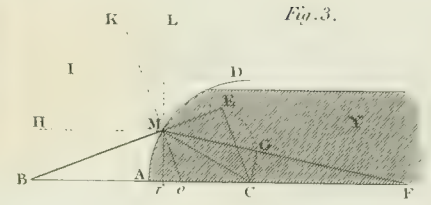
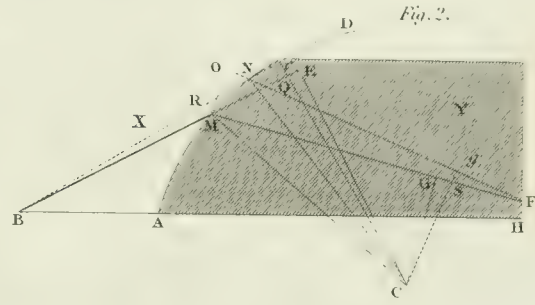
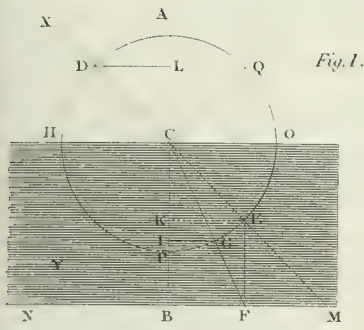


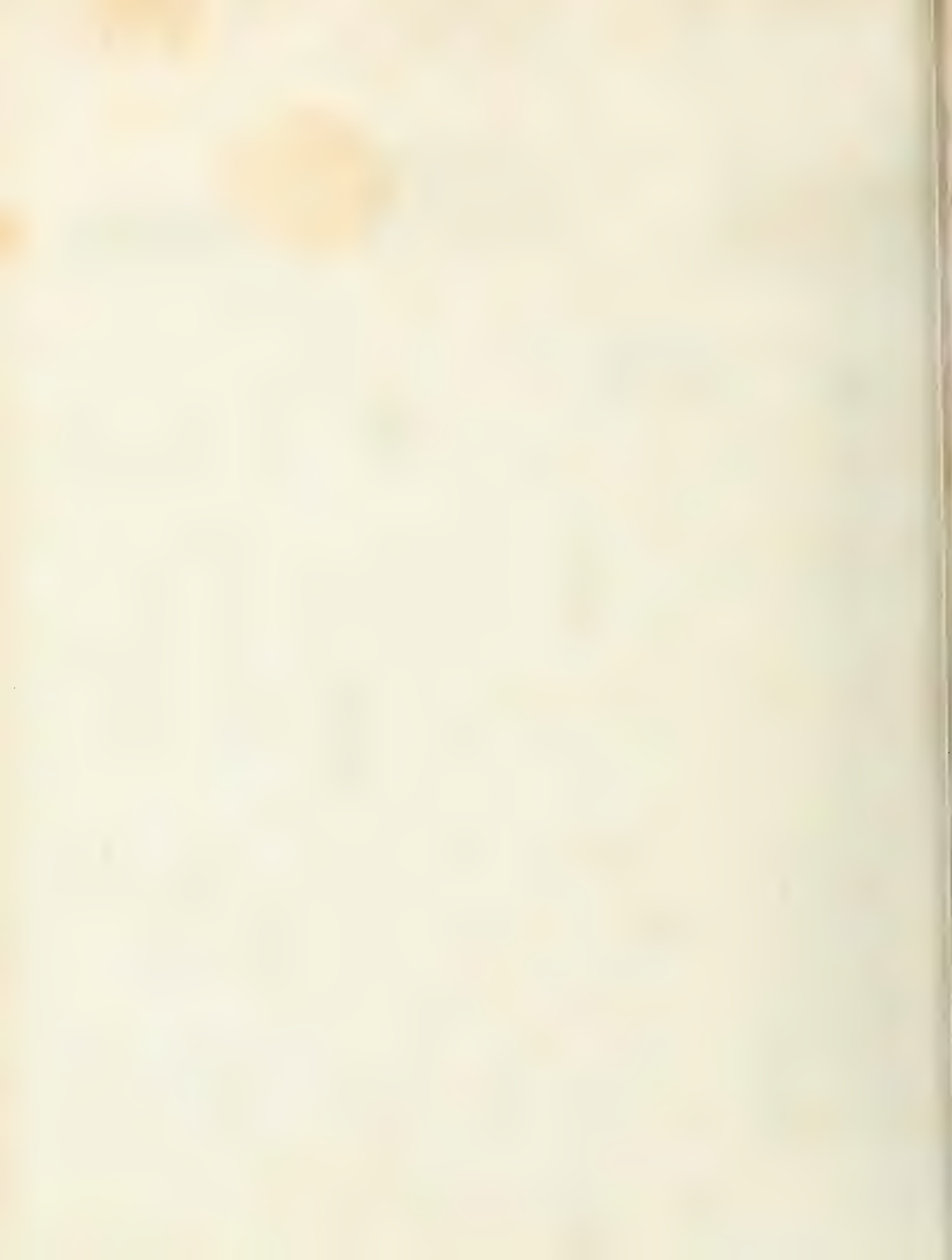
Graham's Mural QUADRANT.

Fig. 4









The Theory of refracting TELESCOPES, and of the compound MICROSCOPE.

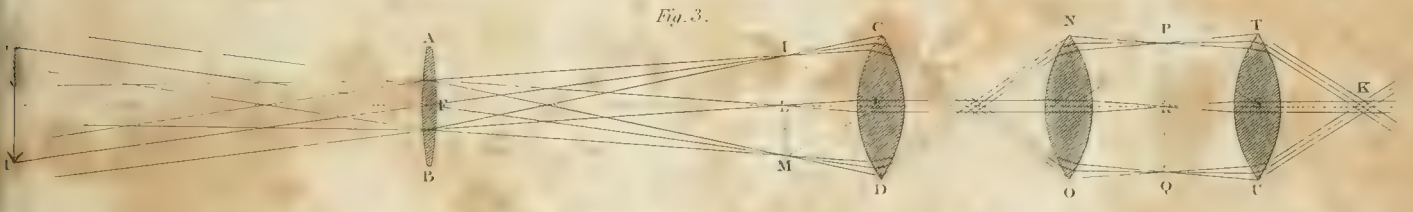
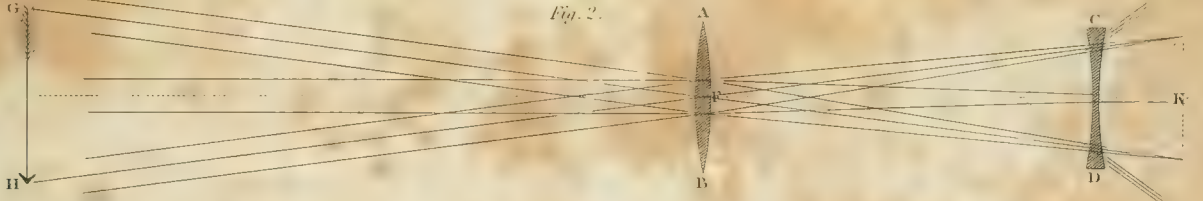
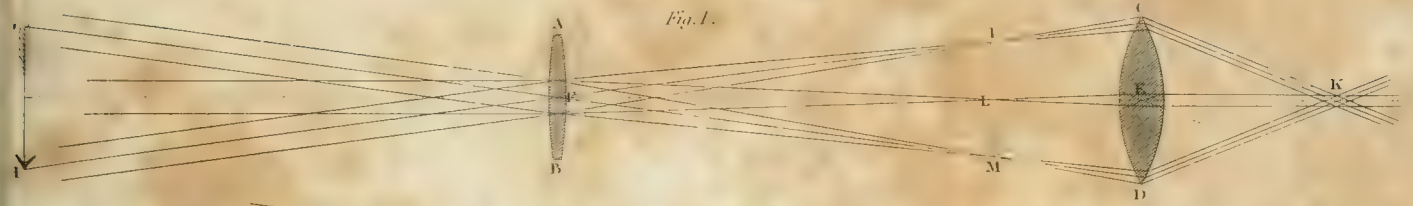


Fig. 4.

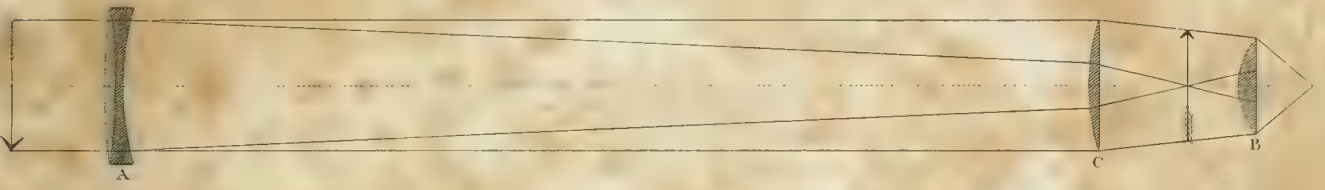


Fig. 5.

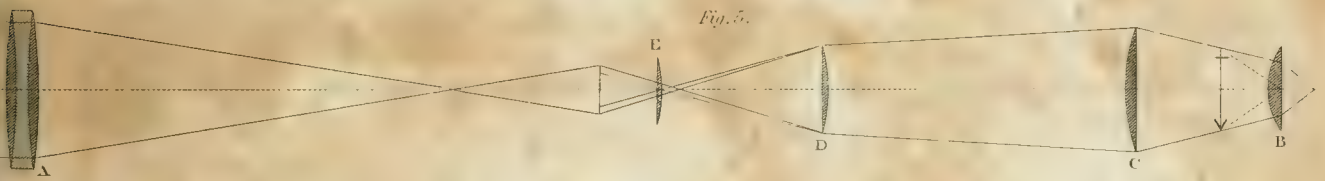


Fig. 6.

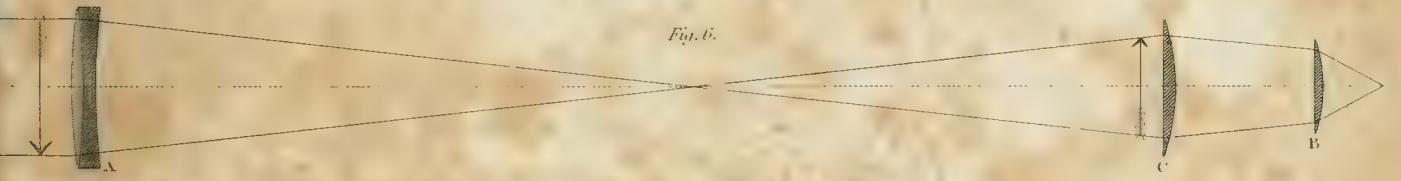


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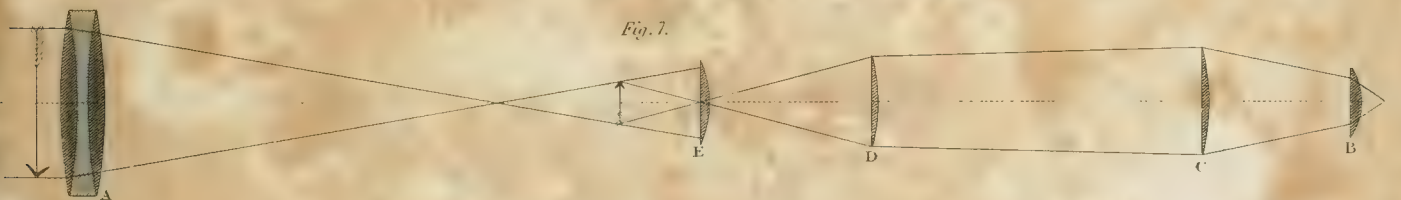
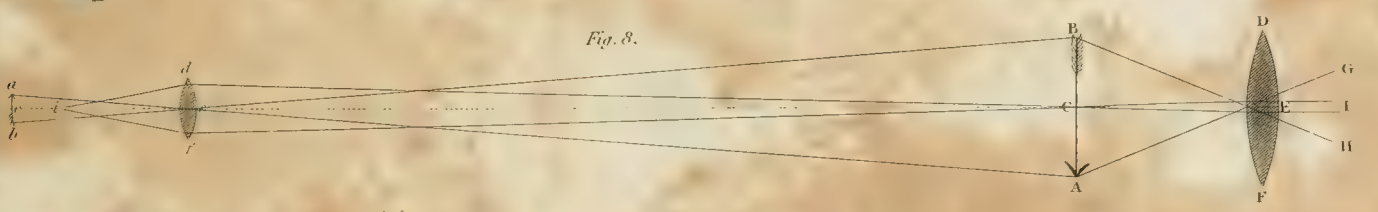
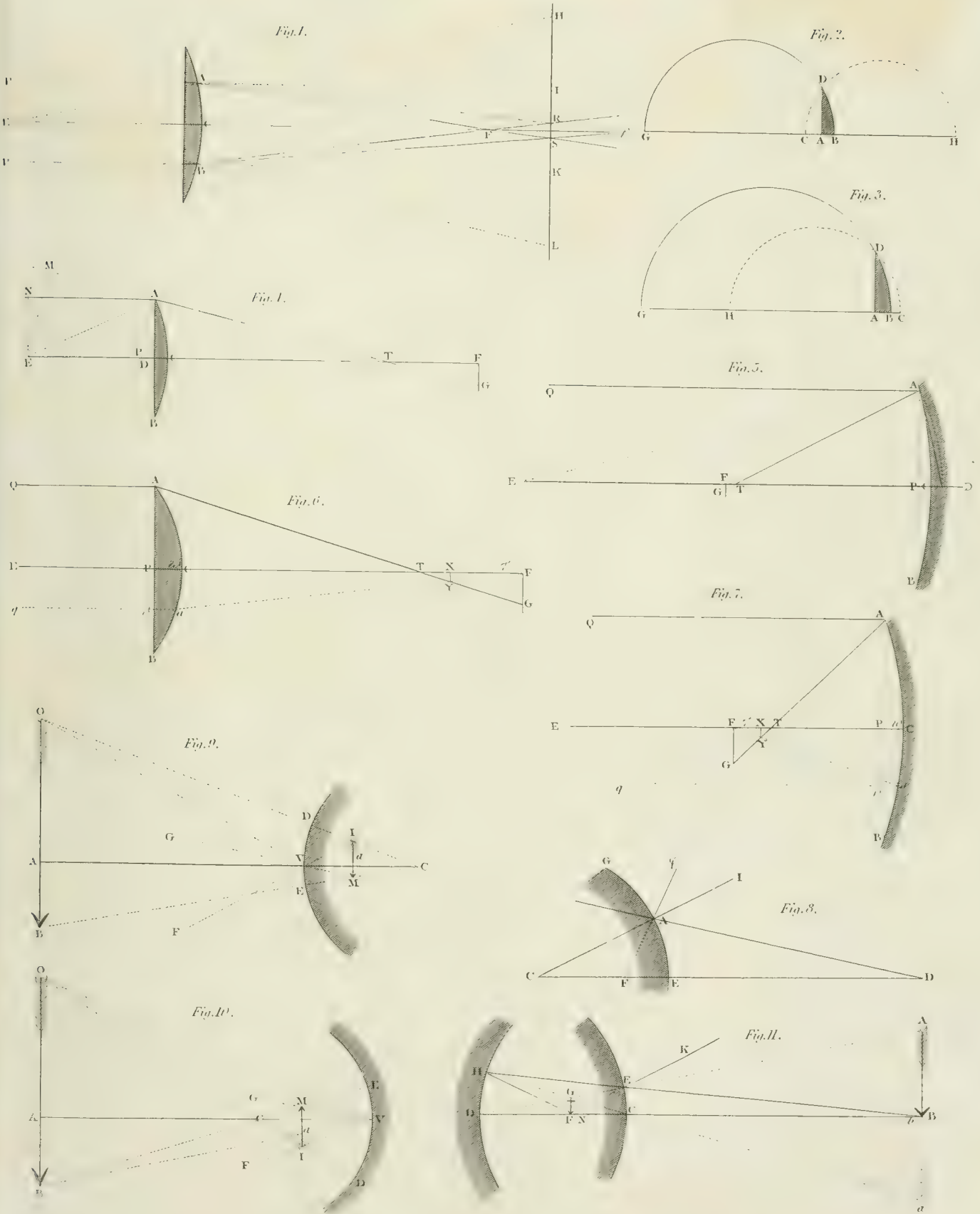


Fig. 8.

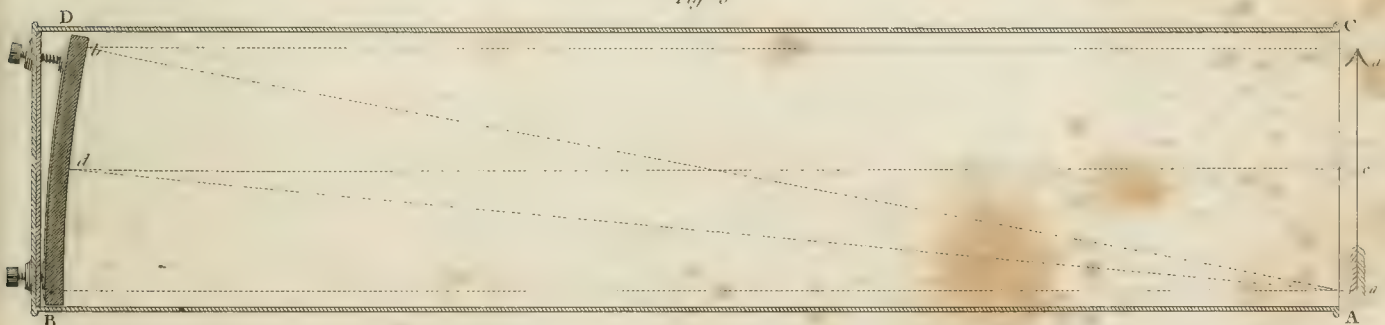
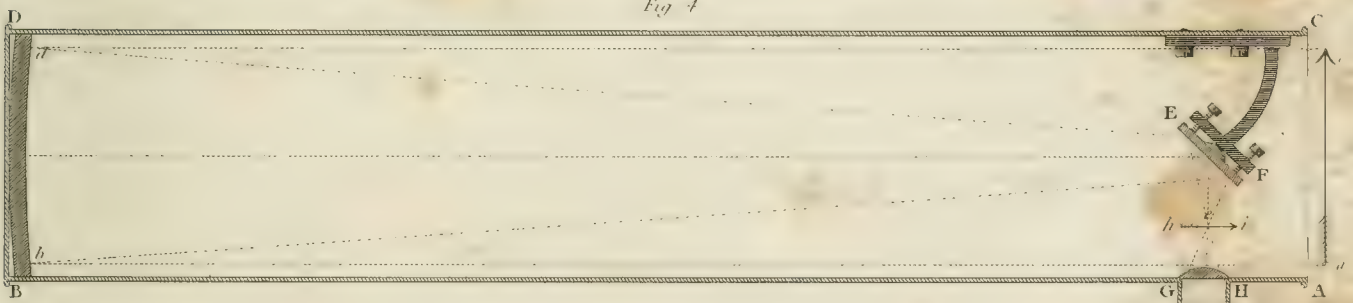
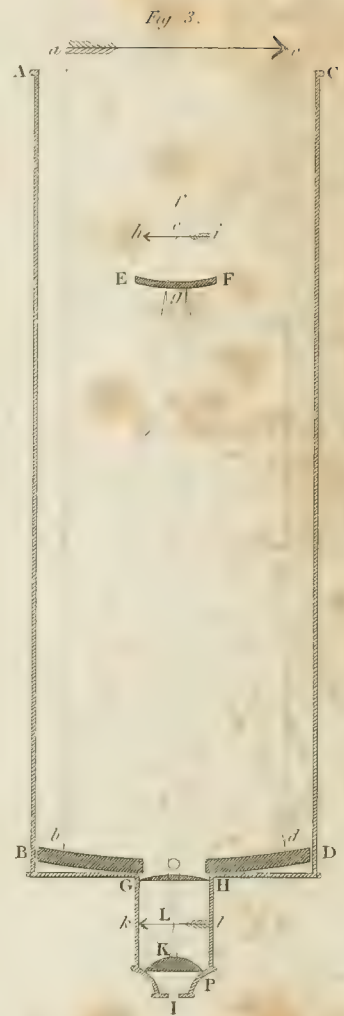
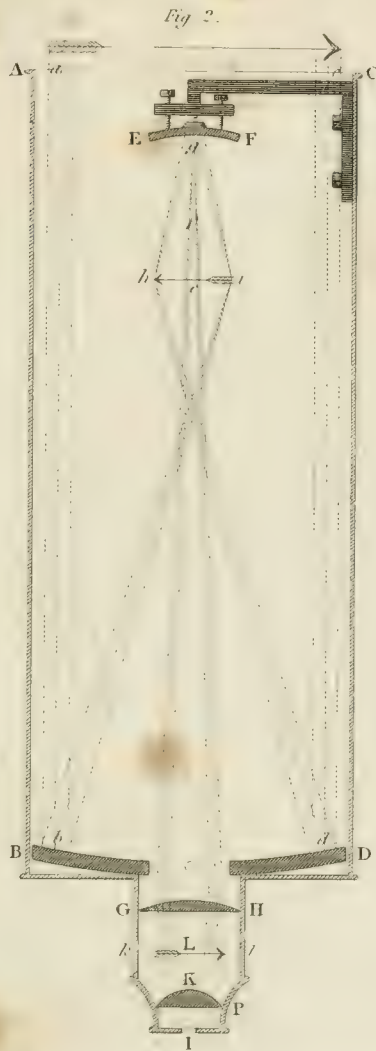
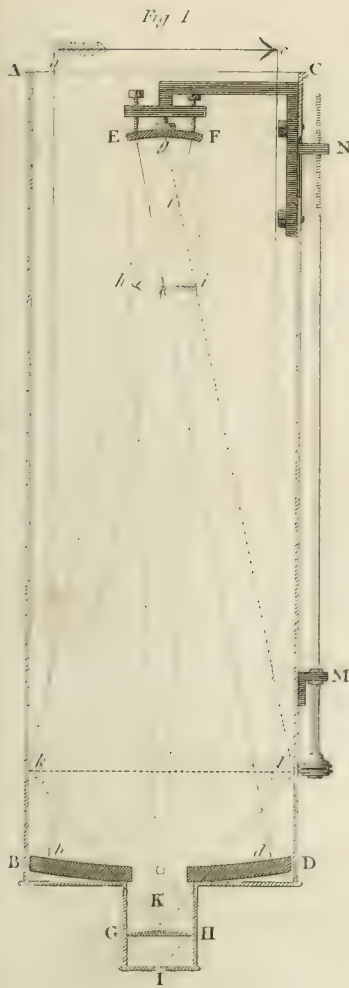




Theory of the TELESCOPE with respect to aberrations &c.



Theory of Reflecting TELESCOPES.





Principles of Achromatic TELESCOPES.

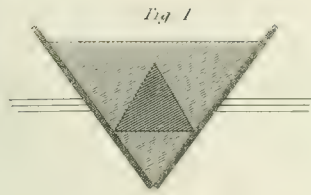


Fig. 1.

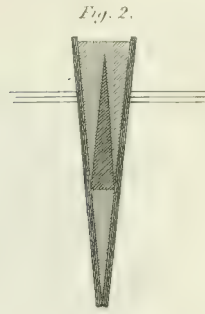


Fig. 2.

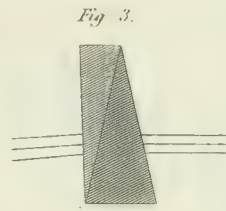


Fig. 3.

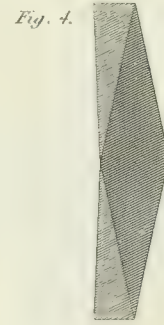


Fig. 4.



Fig. 5.



Fig. 6.



Fig. 7.

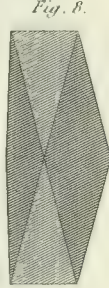


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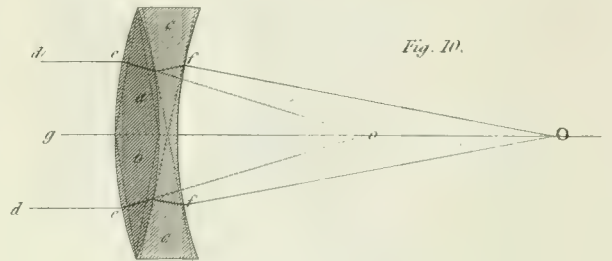


Fig. 10.

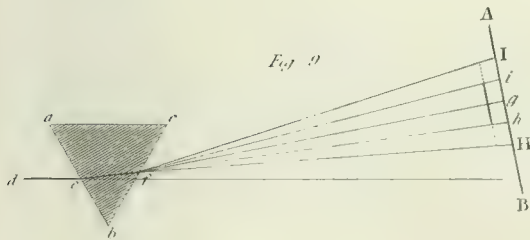


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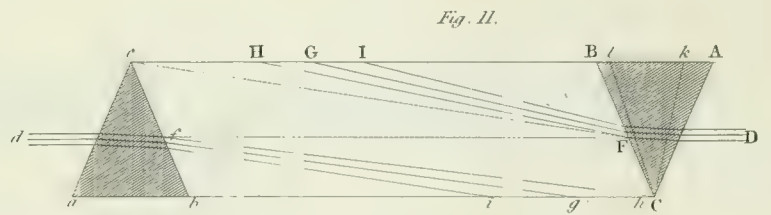


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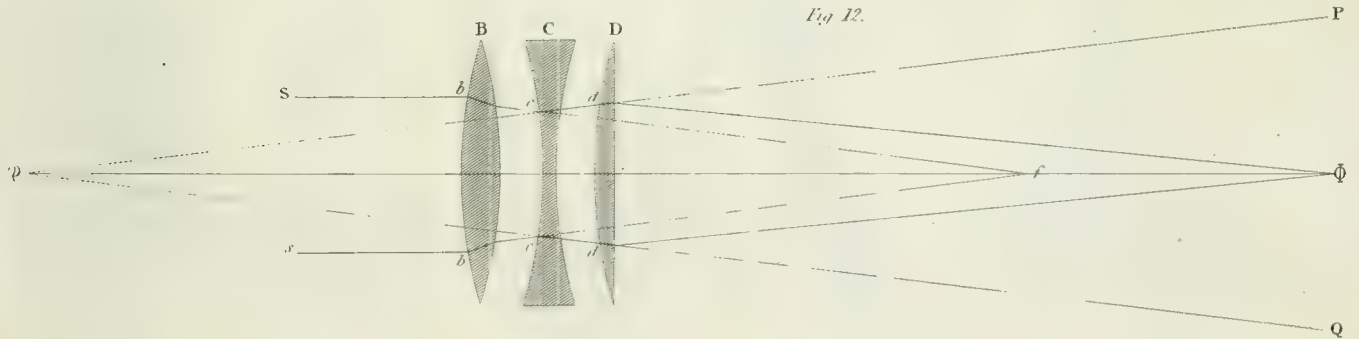


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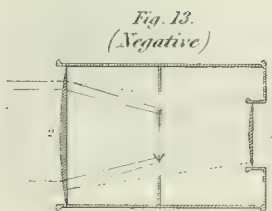


Fig. 13.
(Negative)

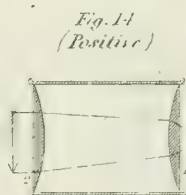


Fig. 14.
(Positive)

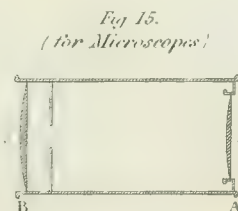


Fig. 15.
(for Microscopes)

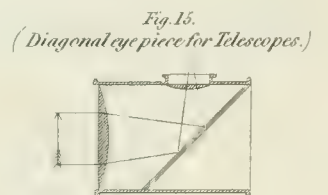
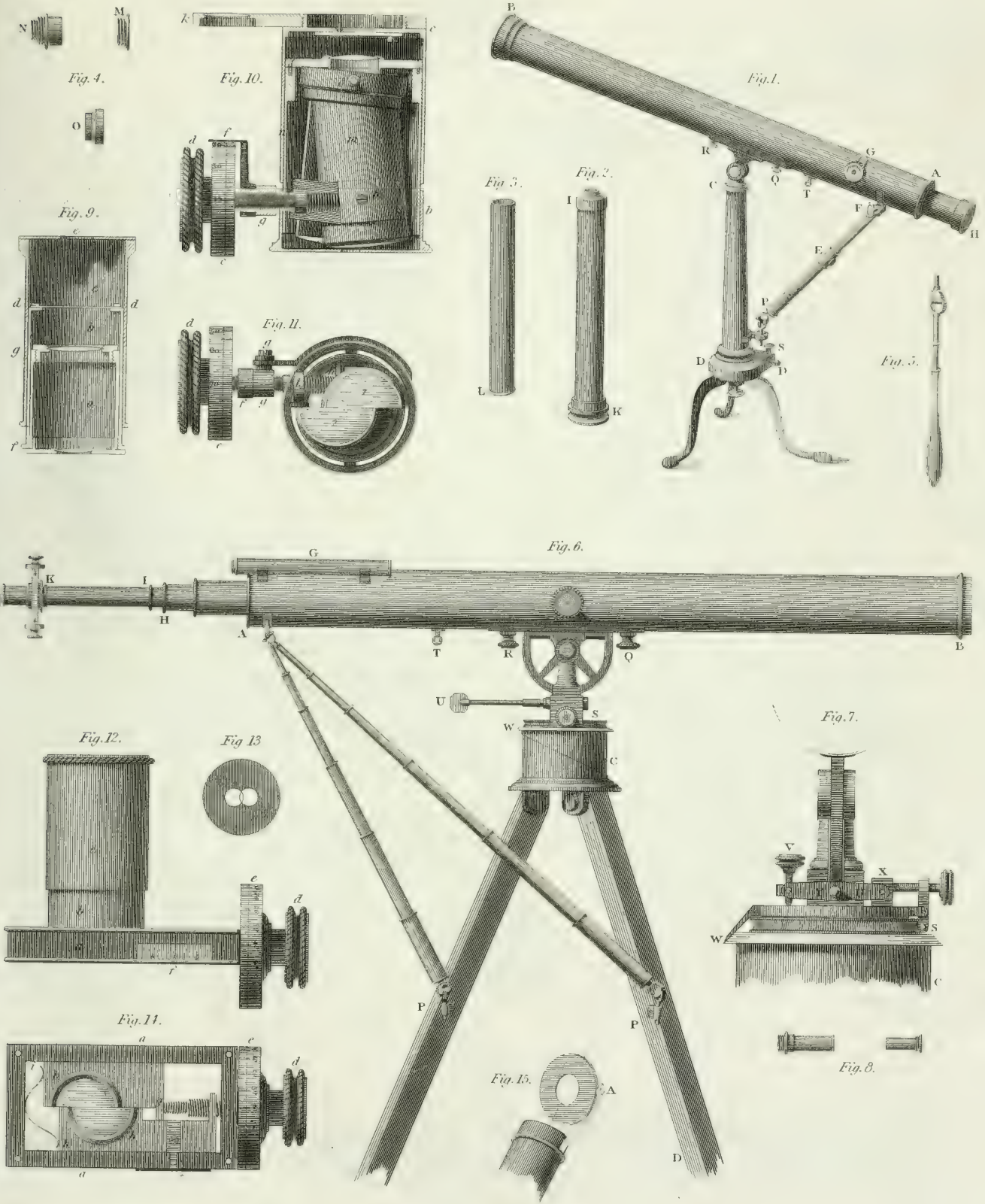
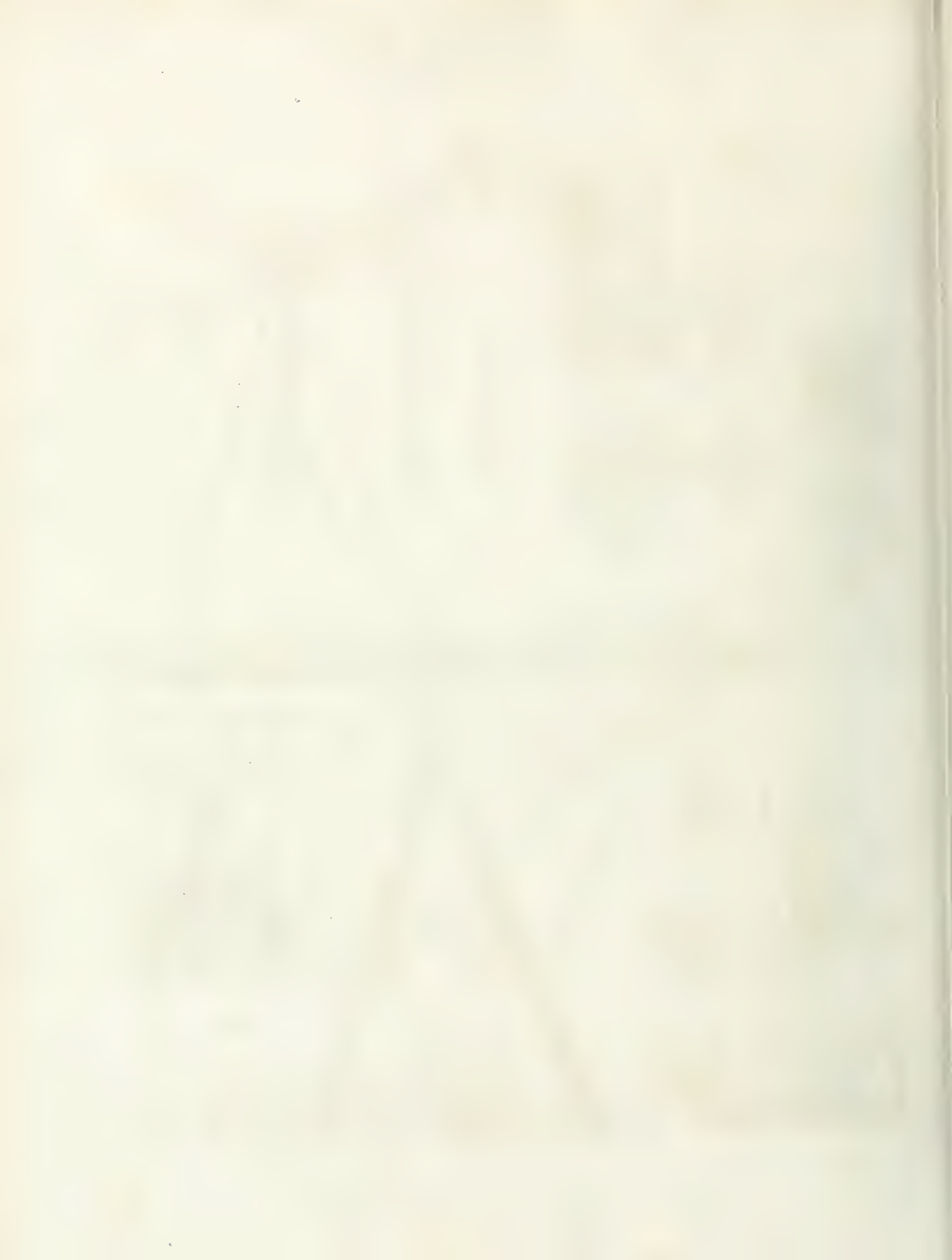
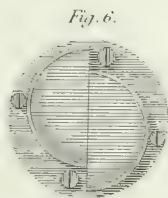
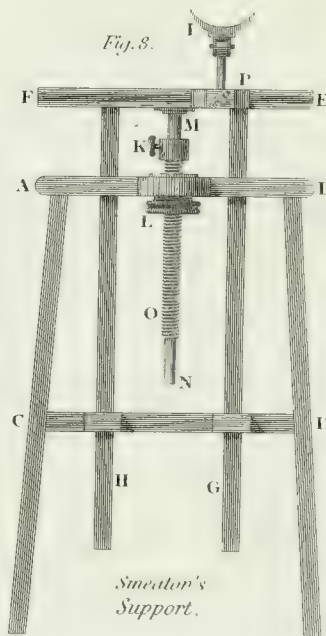
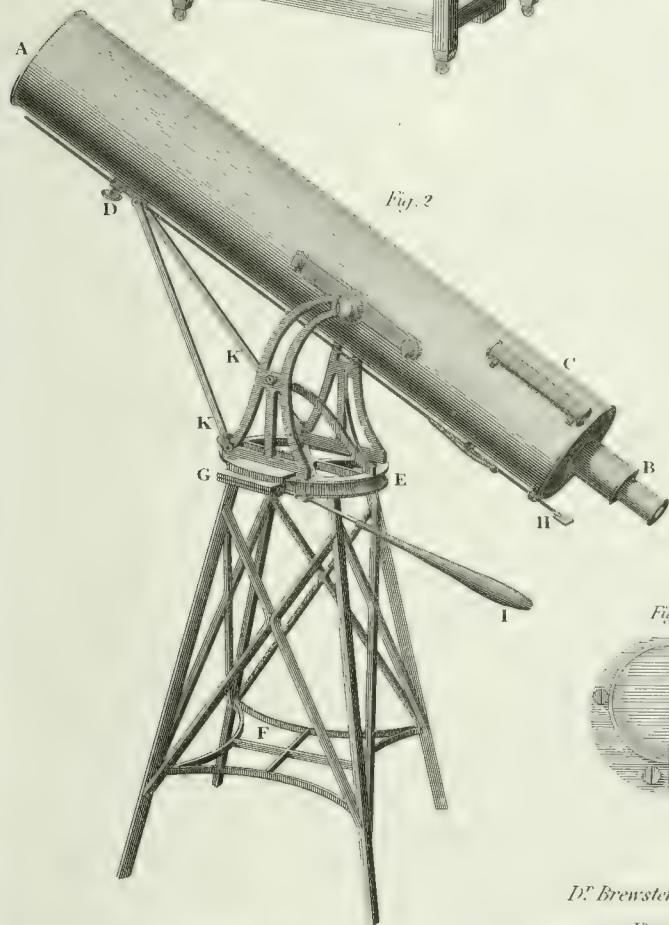
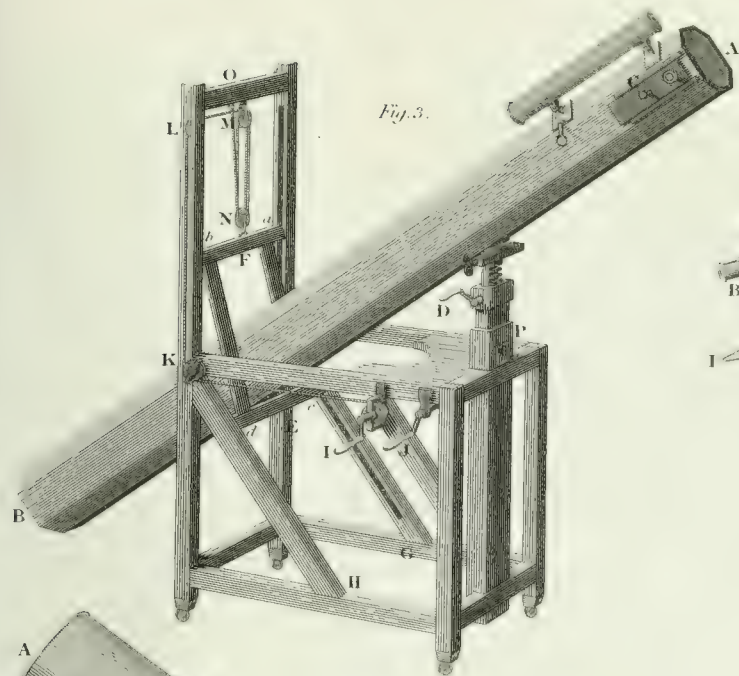


Fig. 16.
(Diagonal eye piece for Telescopes.)

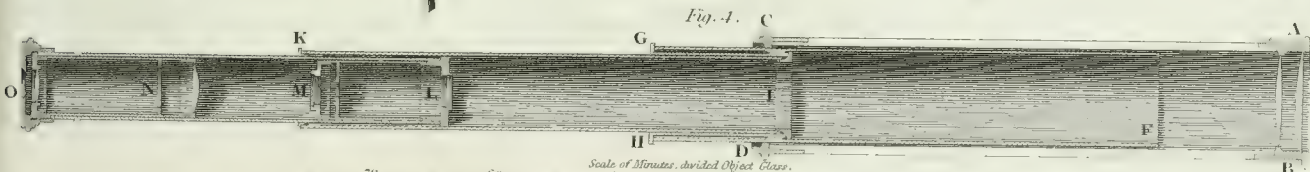




TELESOPES chiefly Reflecting.



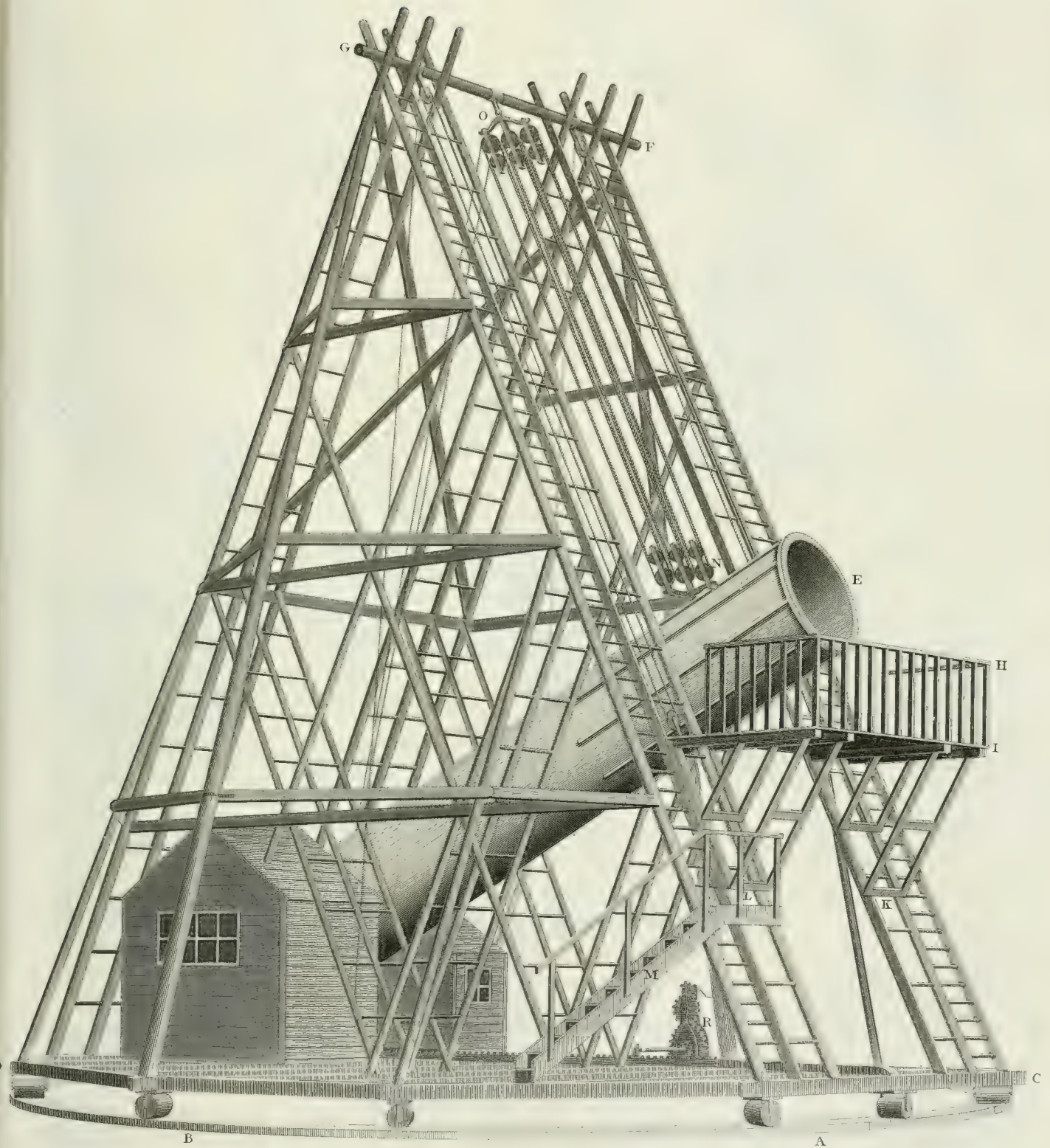
Dr Brewster's Patent.

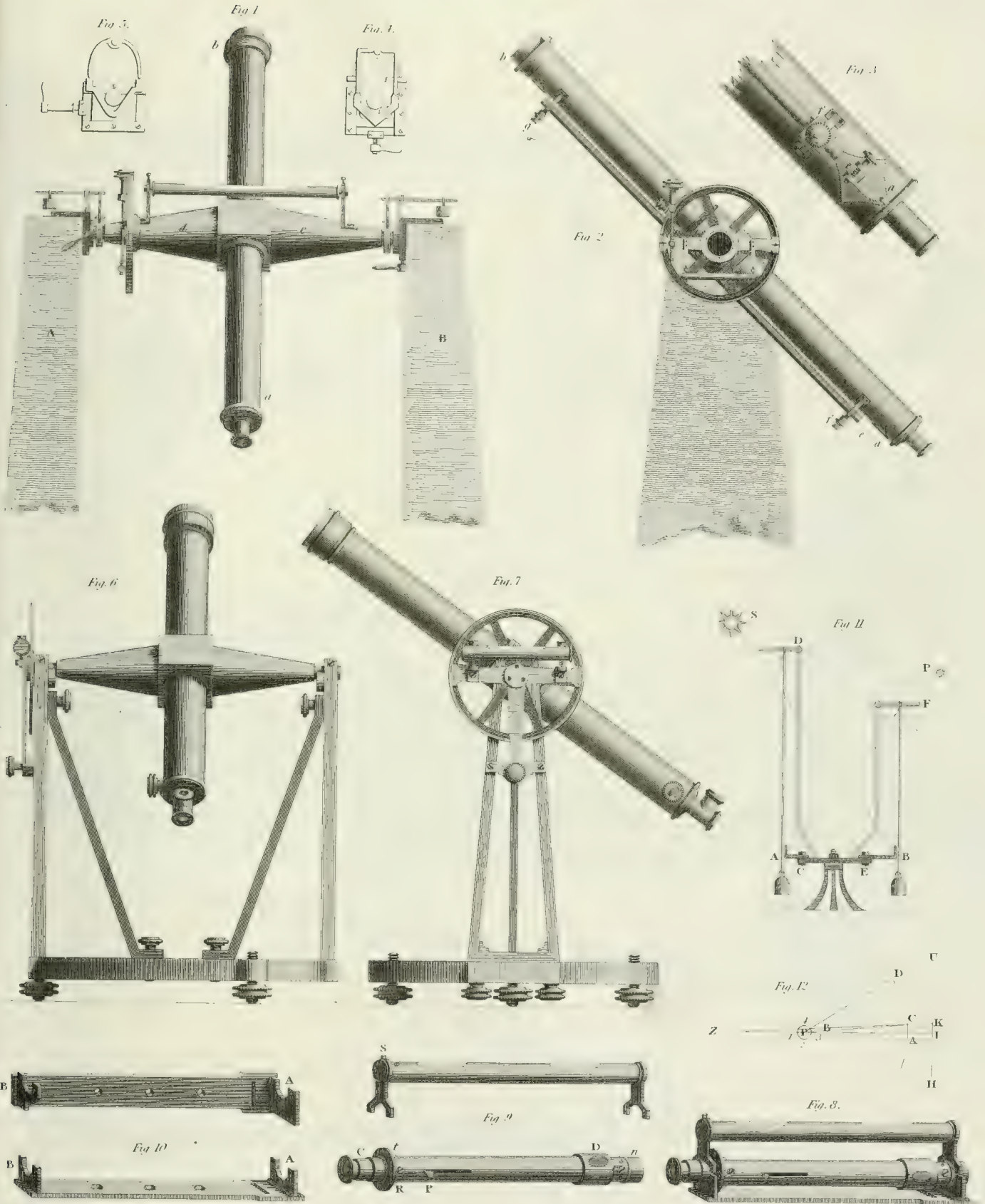


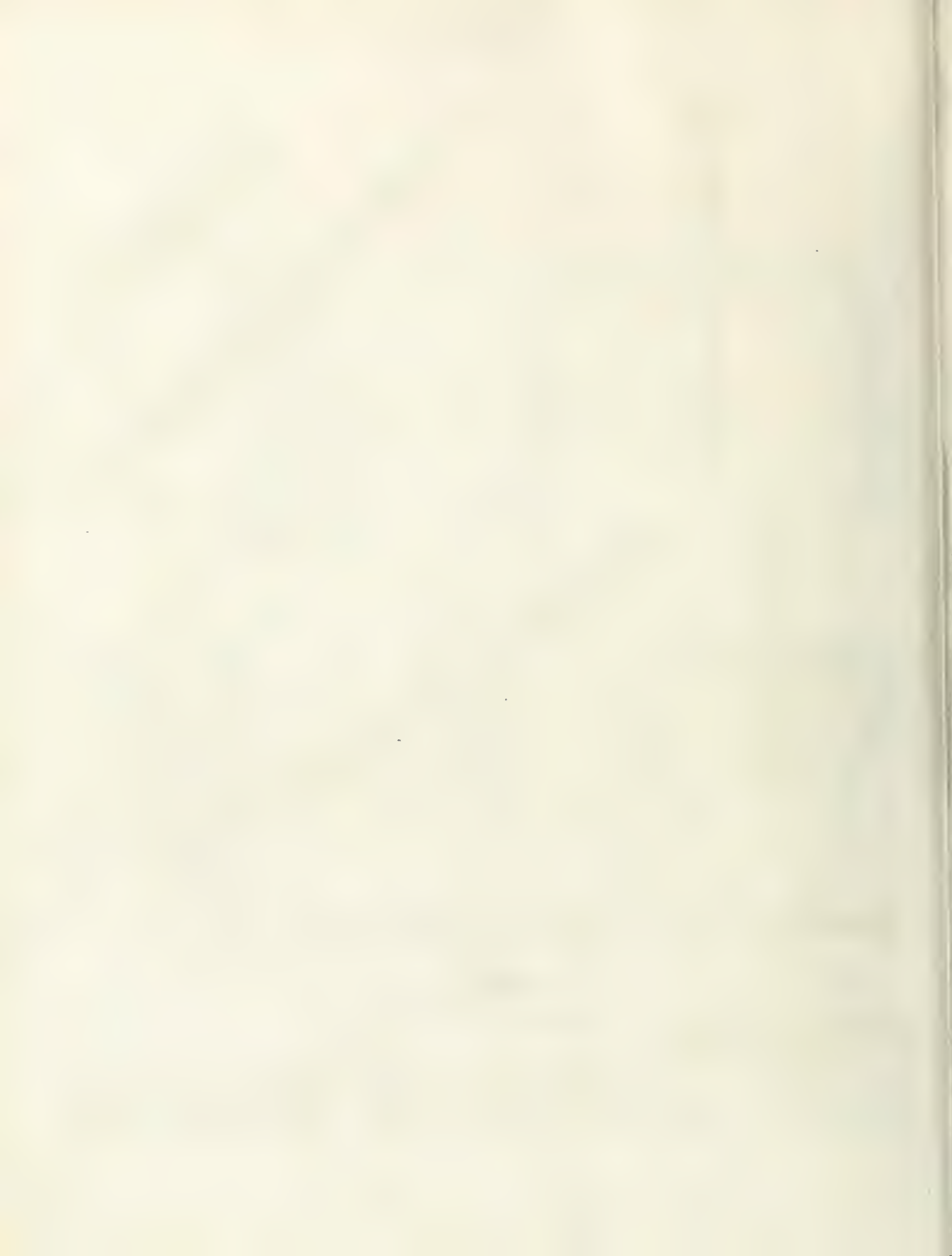
Scale of Minutes, divided Object Glass.
Scale of Minutes, single Object Glass.



D^r HERSCHEL'S,
Forty Feet Reflecting
TELESCOPE.







ZENITH SECTOR.

Graham's Zenith Sector.

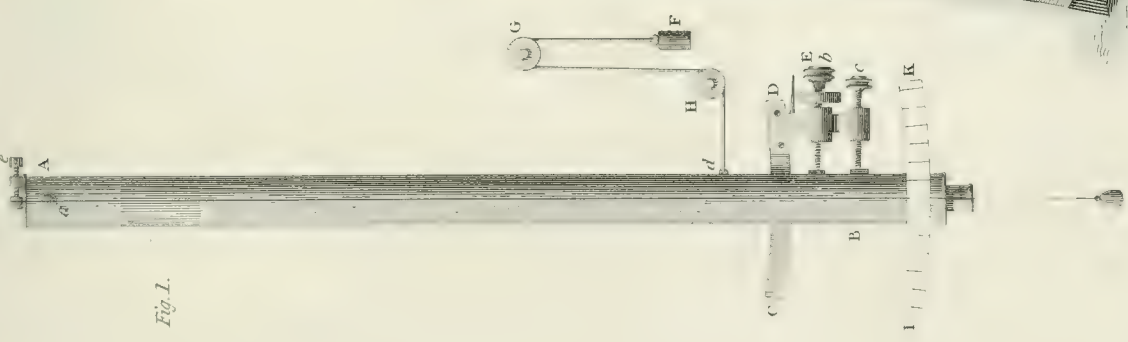


Fig. 1.

Ramsden's Zenith Sector.

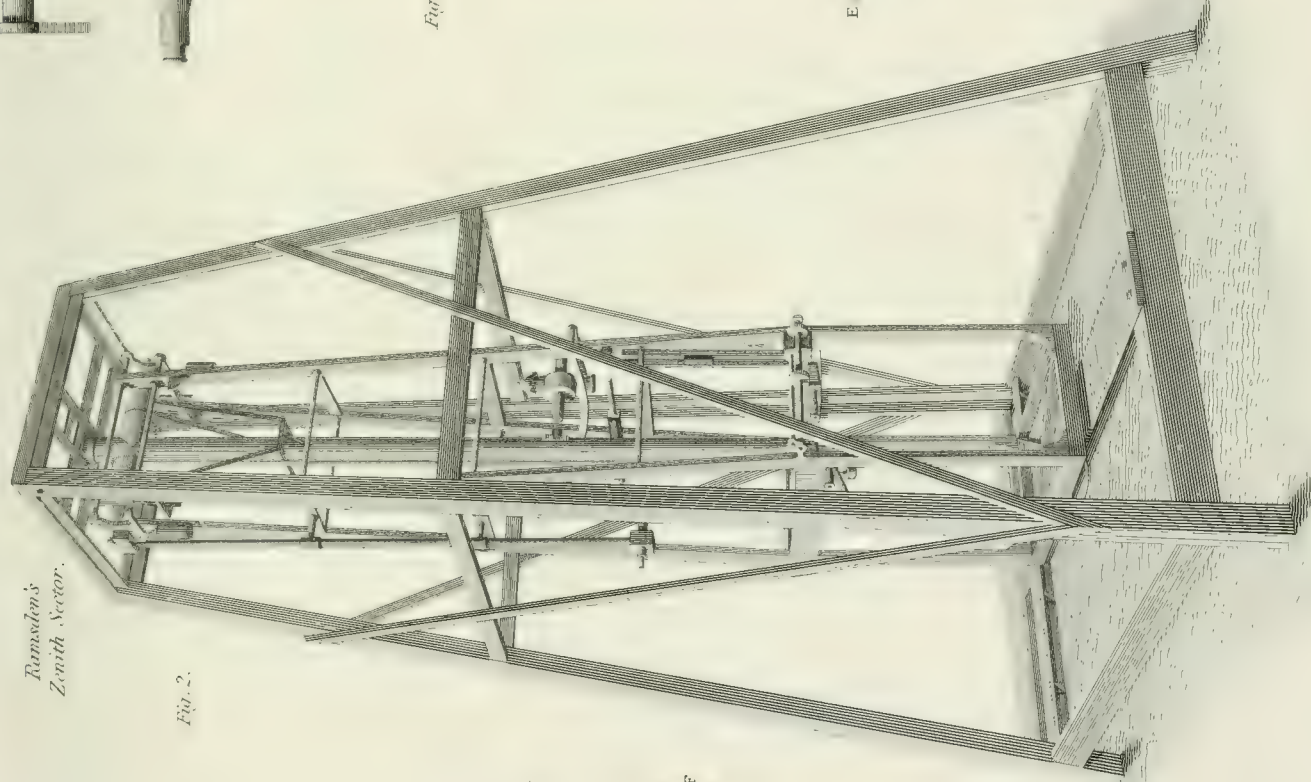


Fig. 2.

Holland's Zenith Micrometer.

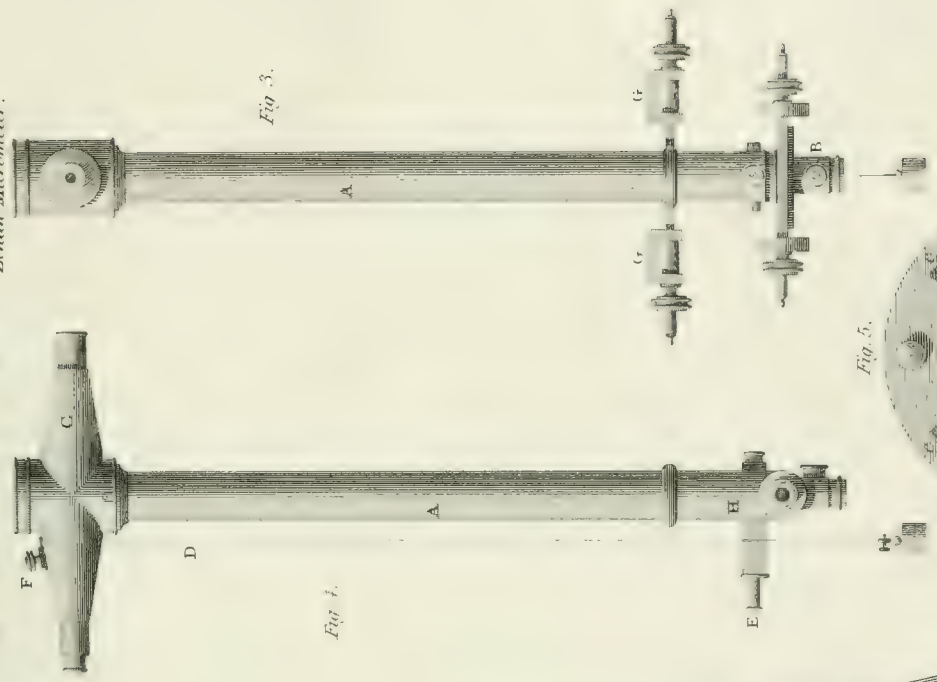


Fig. 3.

Fig. 4.

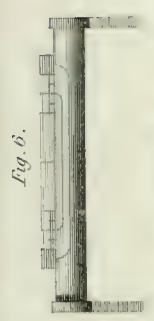
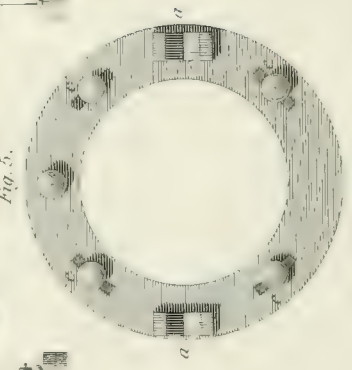
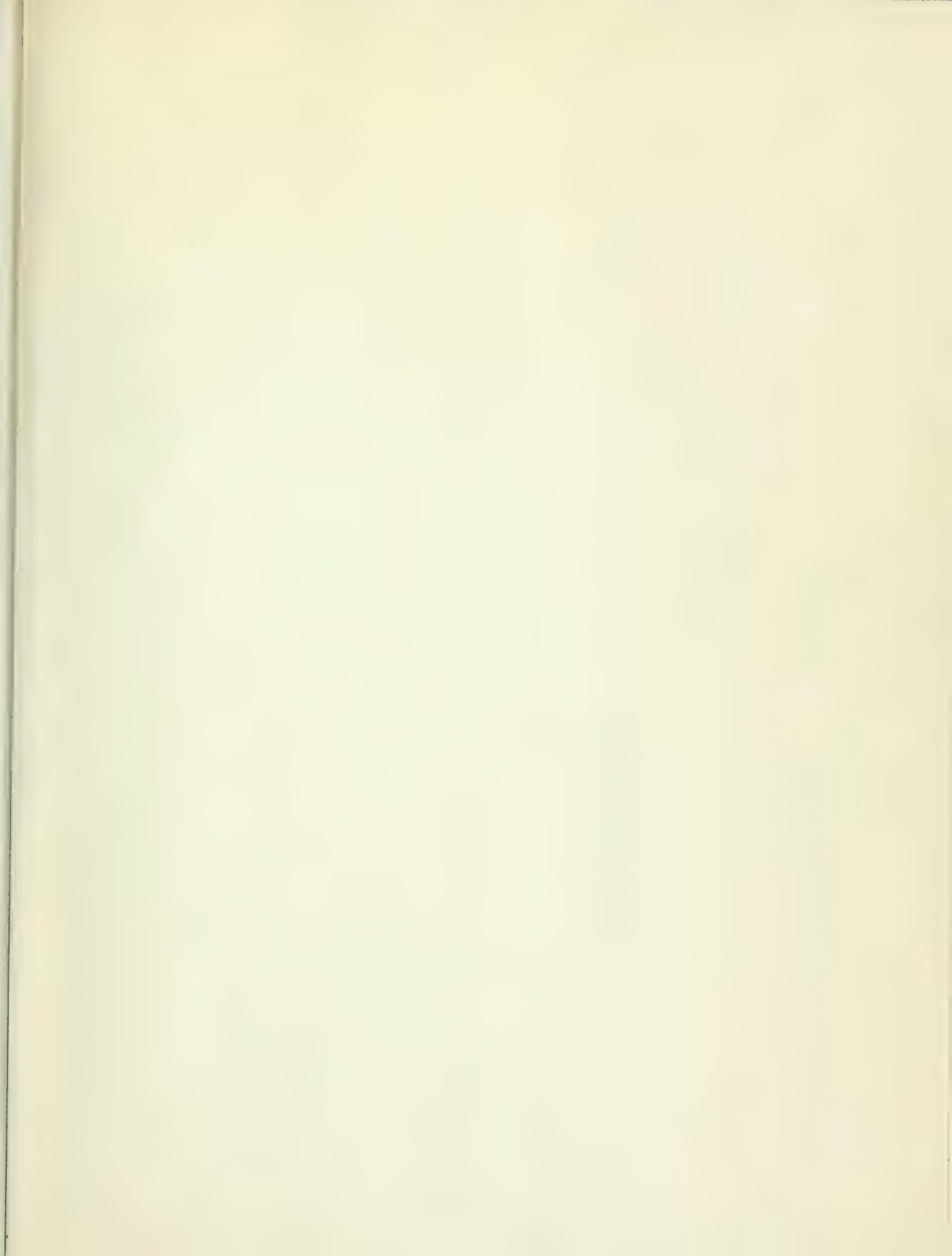


Fig. 6.

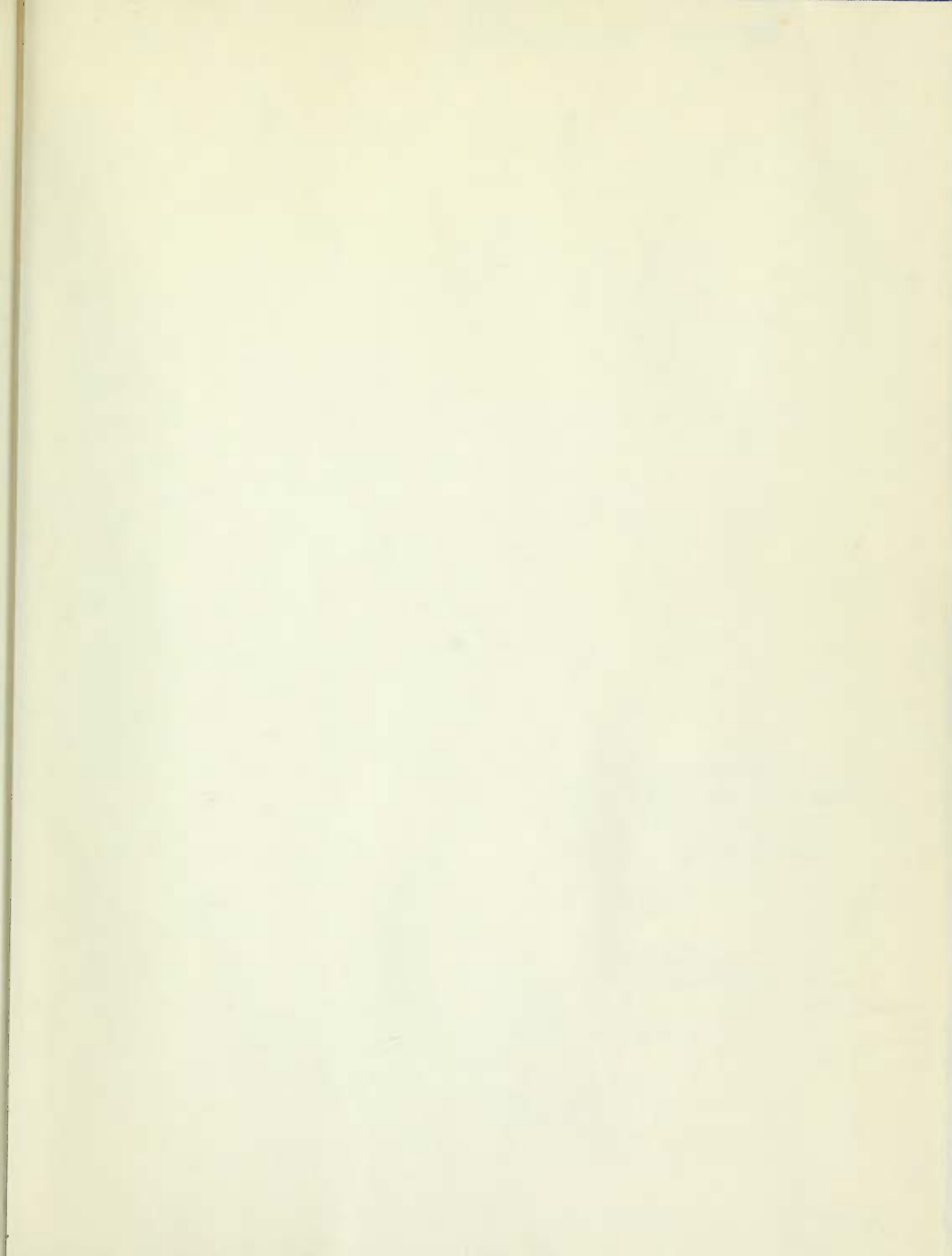
Fig. 5.

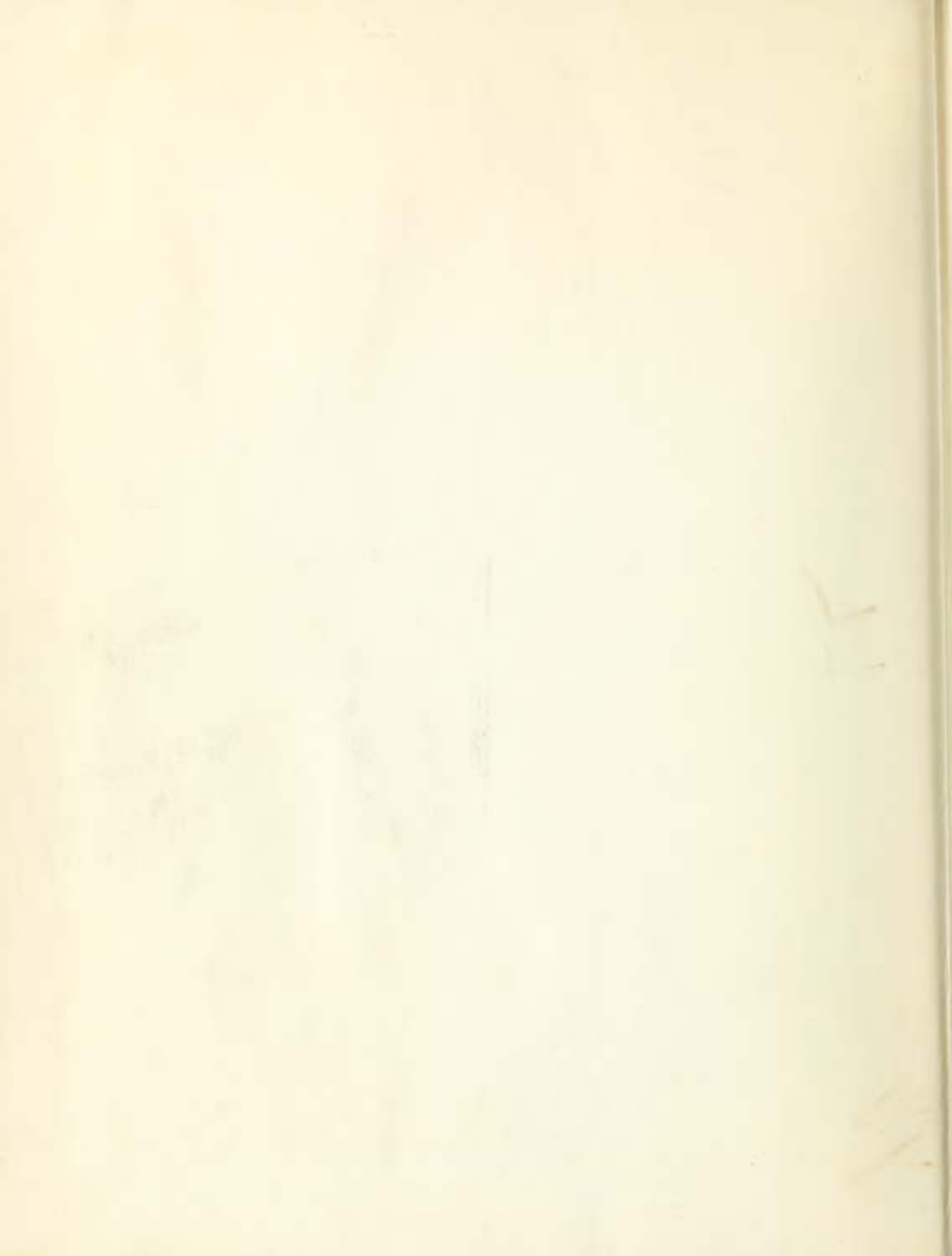













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