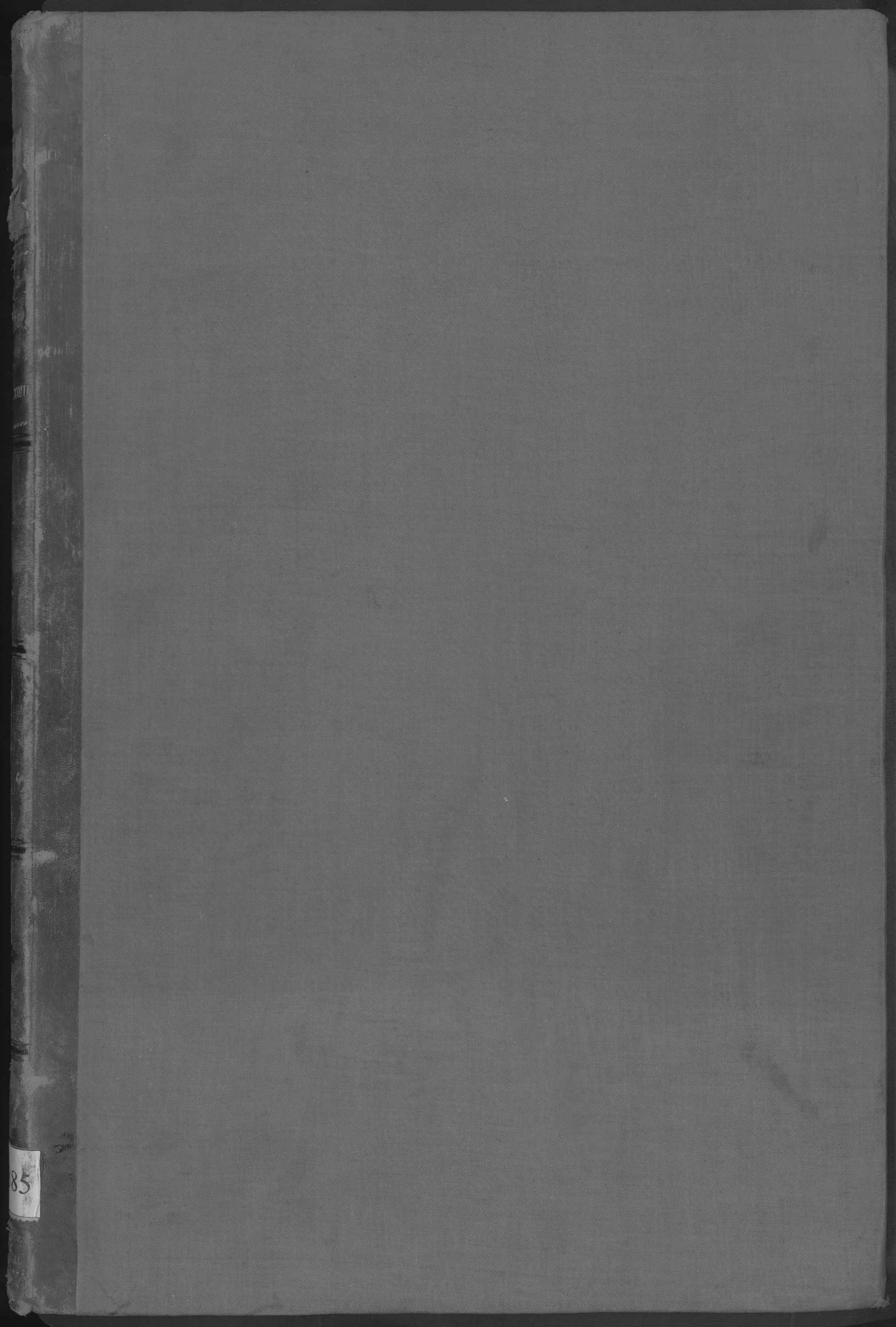
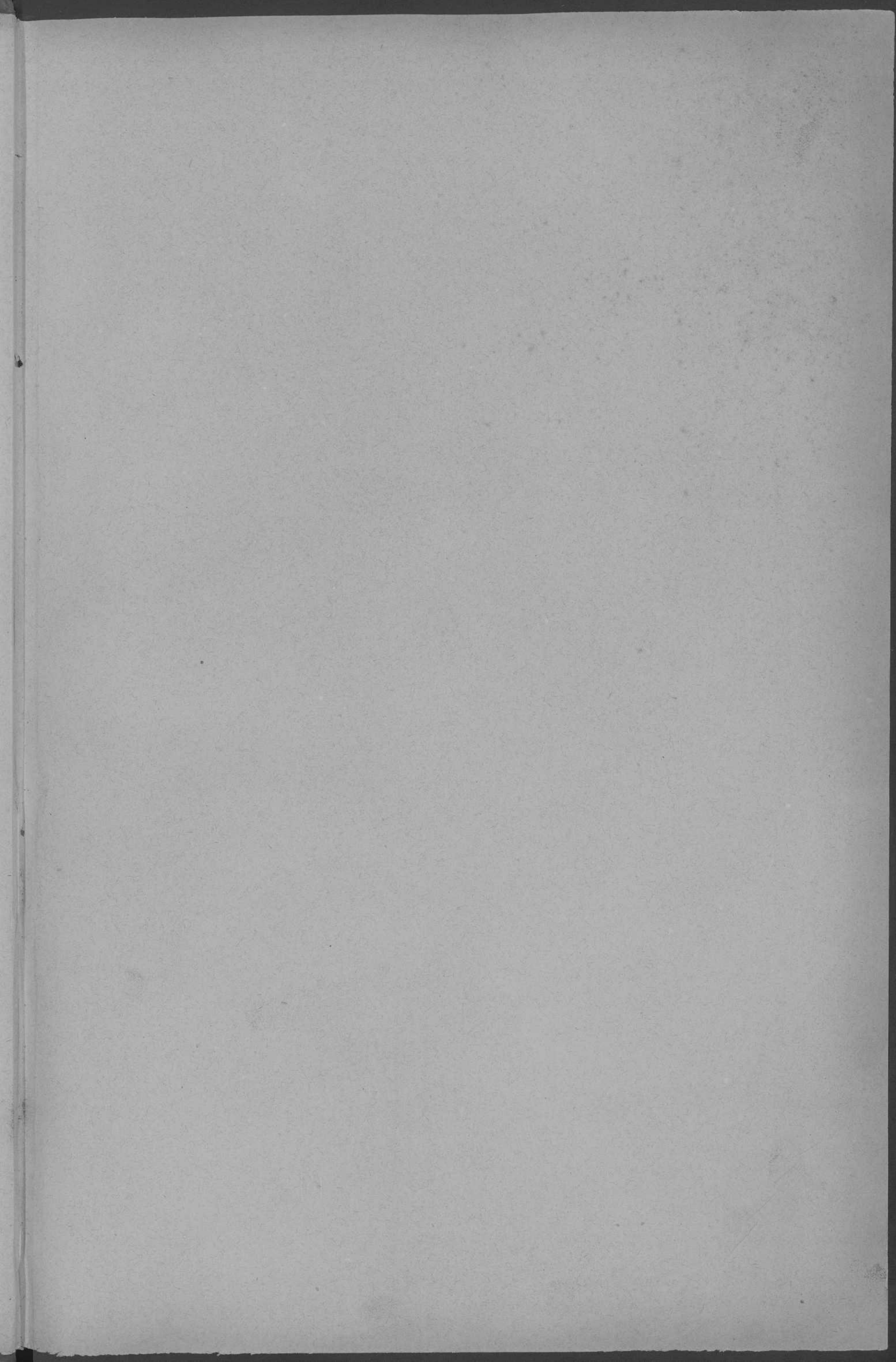




14885
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TRAITÉ
DE
STÉRÉOTOMIE.

Planches.

TRAITÉ

DE

STÉRÉOTOMIE,

COMPRENANT

LES APPLICATIONS DE LA GÉOMÉTRIE DESCRIPTIVE

A

LA THÉORIE DES OMBRES, LA PERSPECTIVE LINÉAIRE, LA GNOMONIQUE,
LA COUPE DES PIERRES ET LA CHARPENTE,

AVEC UN ATLAS COMPOSÉ DE 74 PLANCHES IN-FOLIO,

PAR M. C.-F.-A. LEROY,

Ancien Professeur à l'École Polytechnique et à l'École Normale supérieure,
Chevalier de la Légion d'honneur.

NEUVIÈME ÉDITION, REVUE ET ANNOTÉE

PAR M. E. MARTELET,

Ancien Élève de l'École Polytechnique, ex-Officier d'Artillerie, Professeur de Géométrie descriptive à l'École Centrale
des Arts et Manufactures, ancien Professeur au Conservatoire des Arts et Métiers.

Comme Deuxième. — Atlas.



PARIS,

GAUTHIER-VILLARS, IMPRIMEUR-LIBRAIRE

DU BUREAU DES LONGITUDES, DE L'ÉCOLE POLYTECHNIQUE, DE L'ÉCOLE CENTRALE DES ARTS ET MANUFACTURES,

SUCCESSEUR DE MALLET-BACHELIER,

Quai des Augustins, 55.

1883

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Gauthier Villars

AVIS AU RELIEUR.

Mettez en regard les planches.
7 et 8,
23 et 24,
35 et 36,
56 et 57.

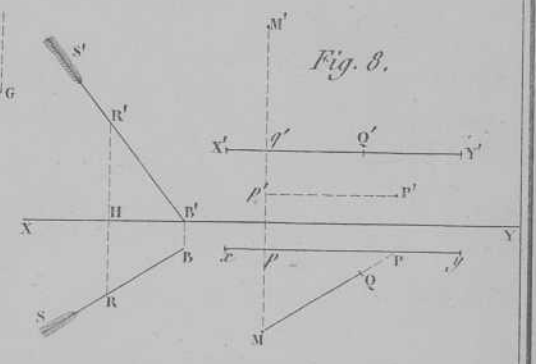
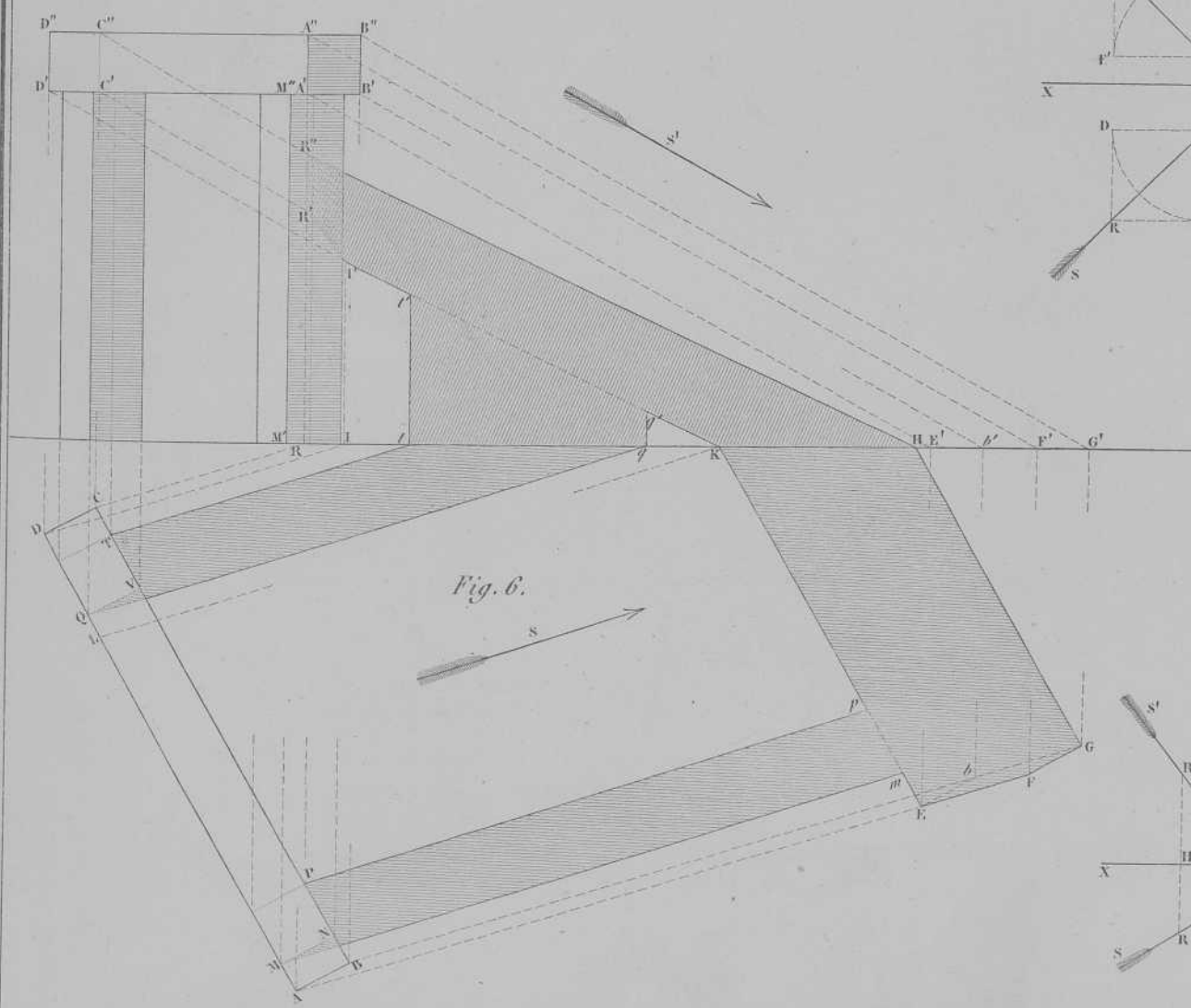
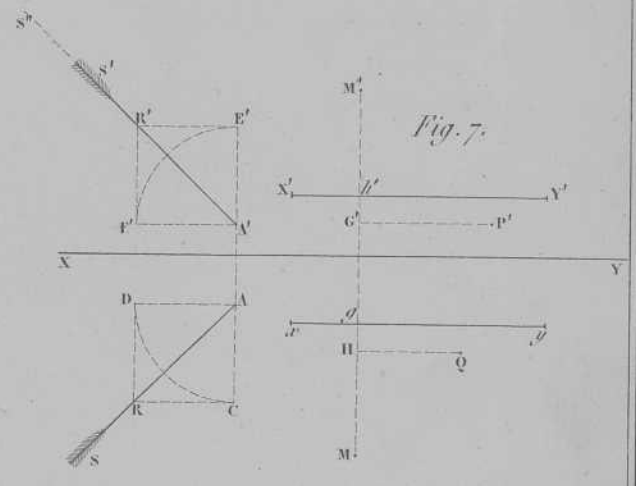
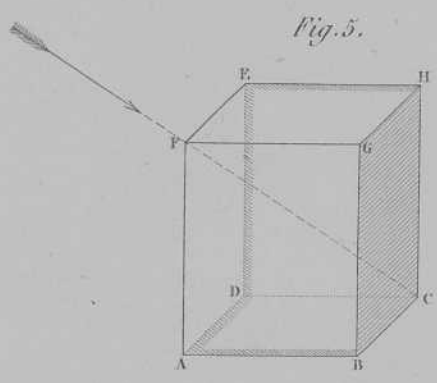
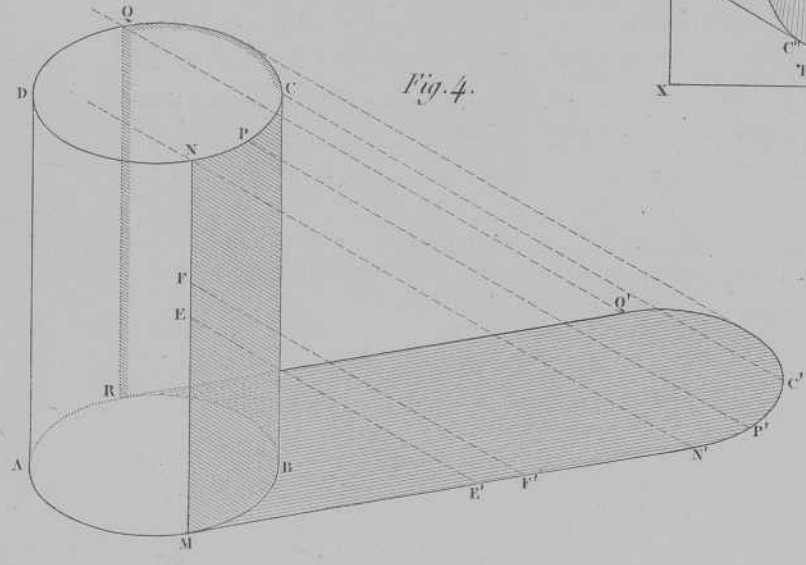
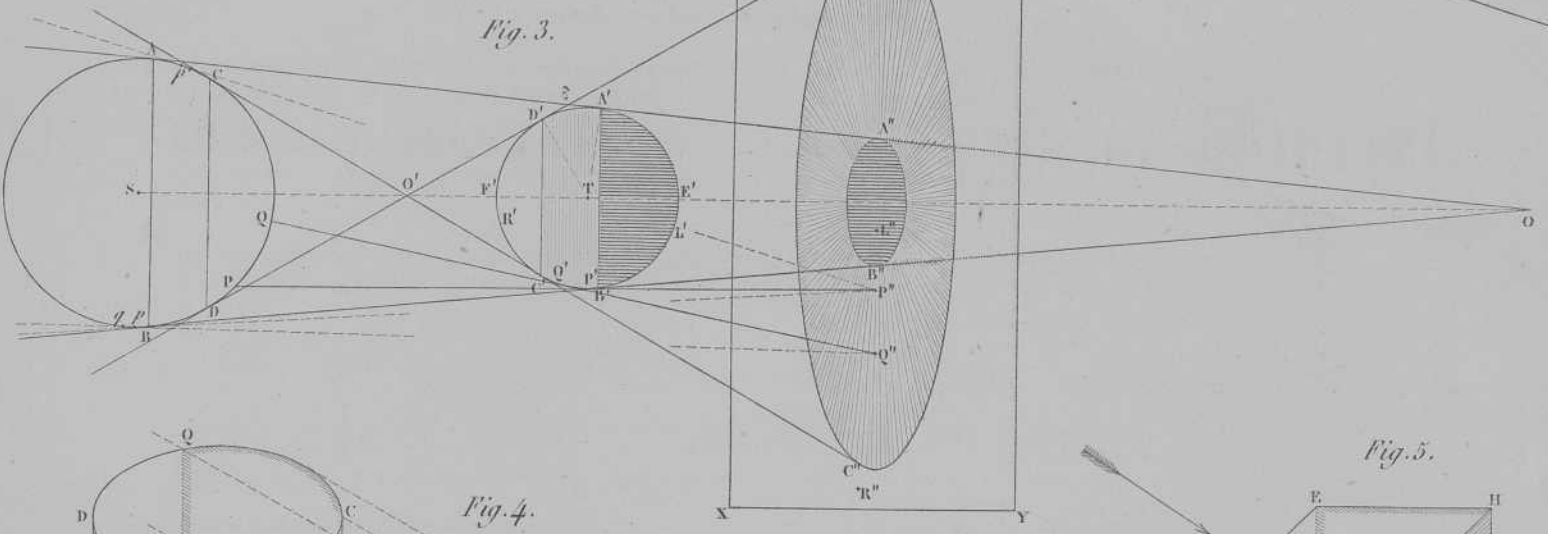
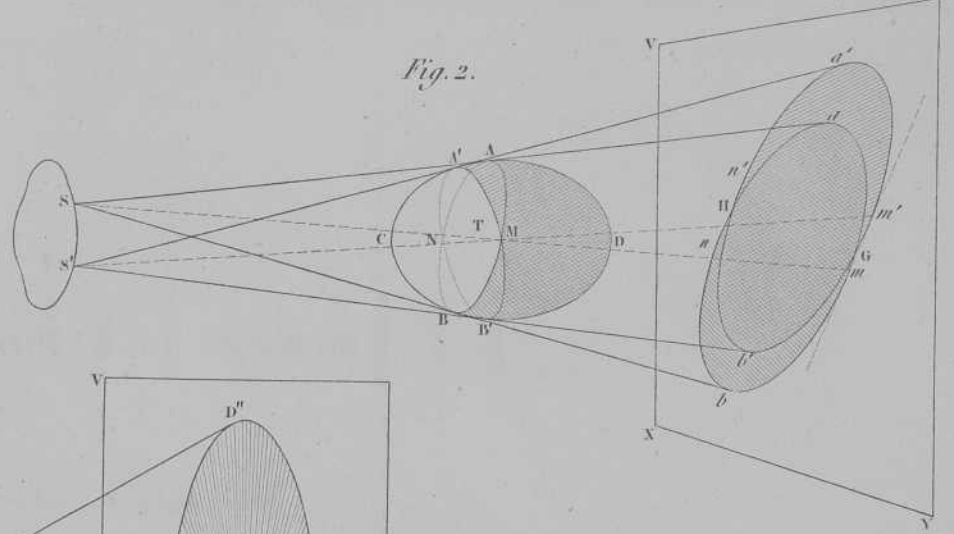
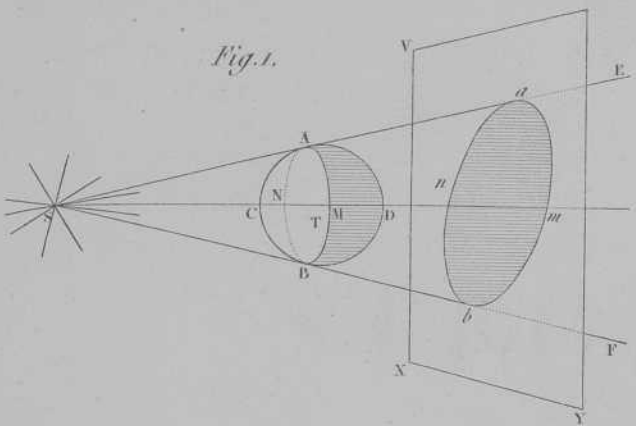


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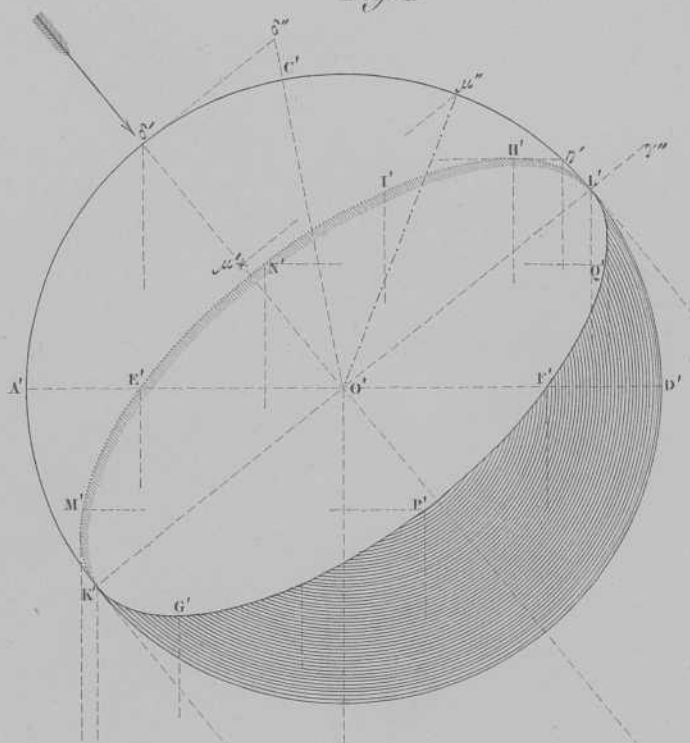


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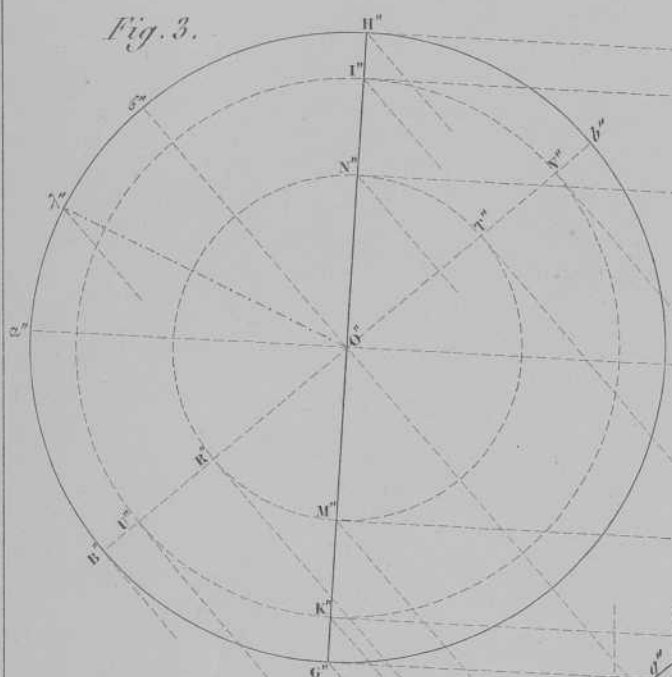


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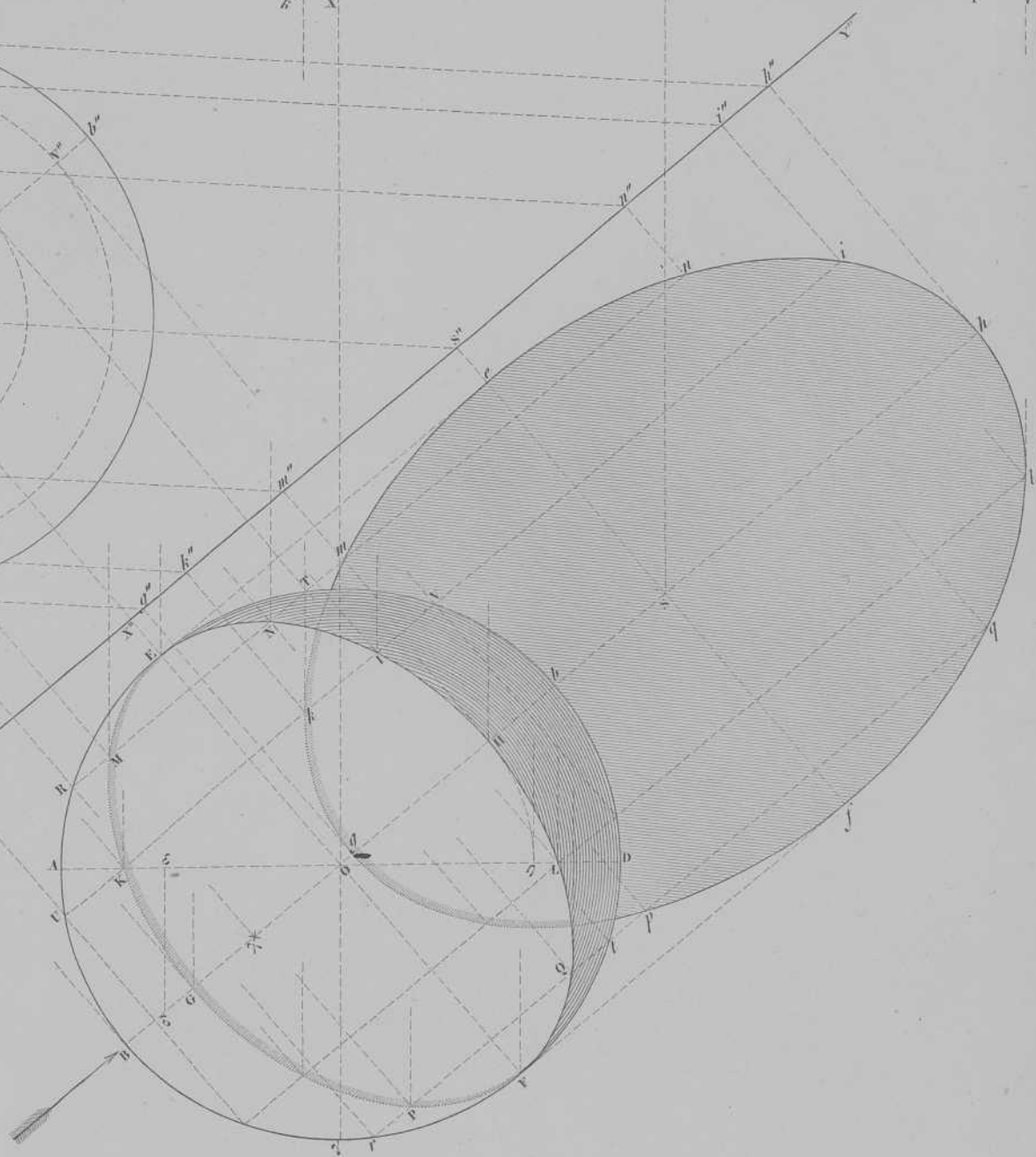


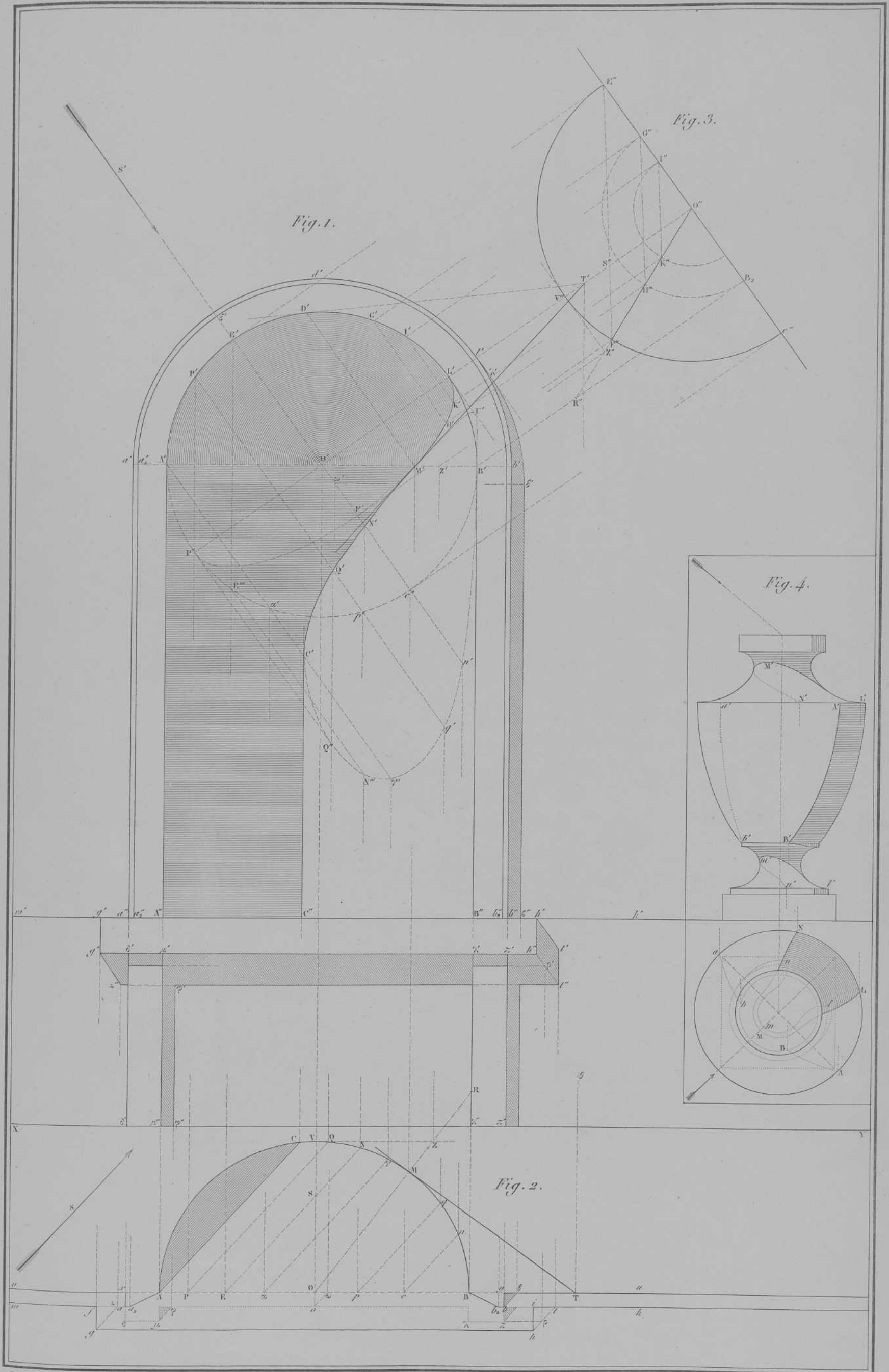
Fig. 1.

Fig. 3.

Fig. 2.

Echelle de 0,02 pour mètre.

0 1 2 3 4 5 mètres.



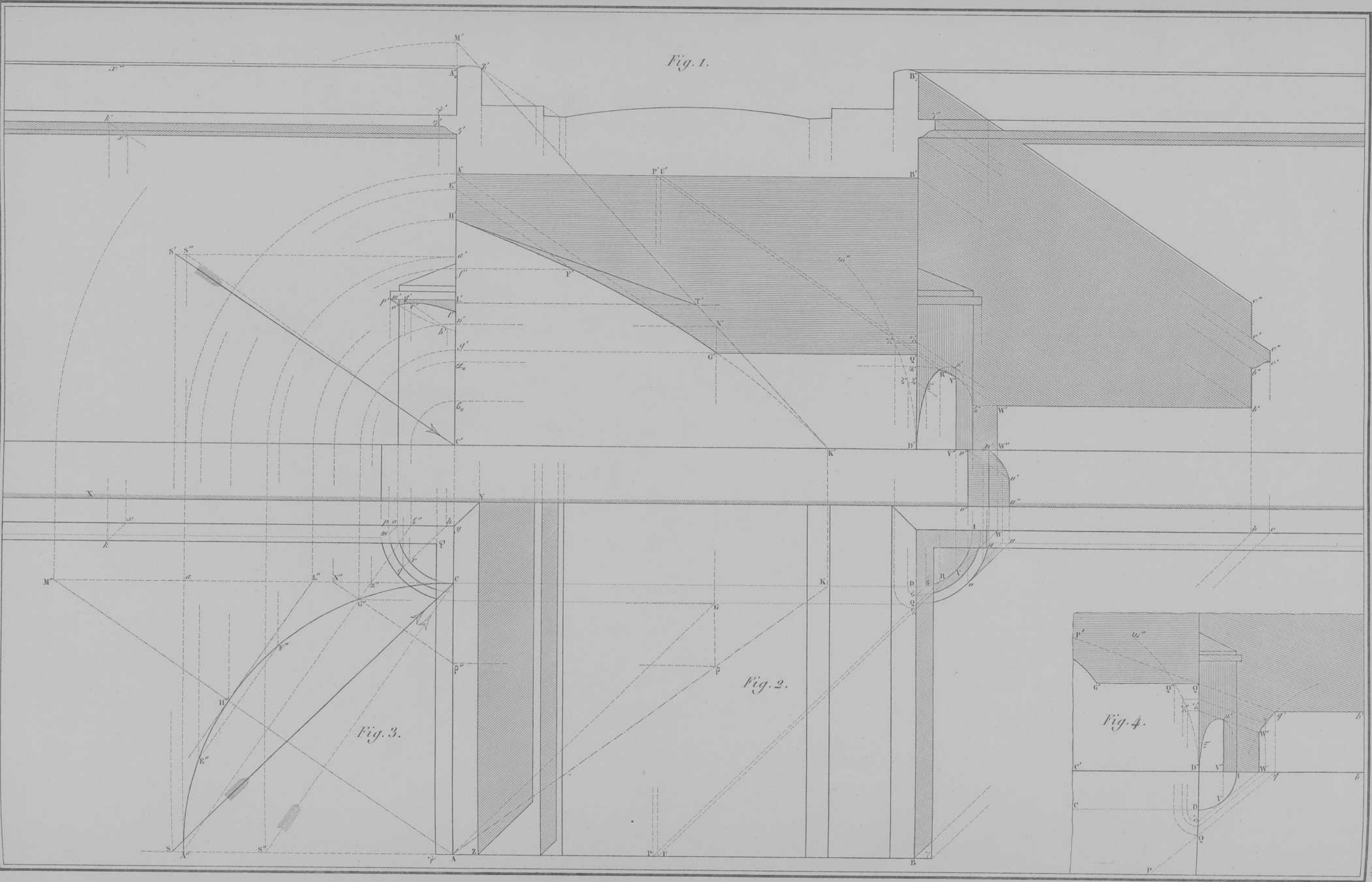


Fig. 1.

Fig. 2.

Fig. 3.

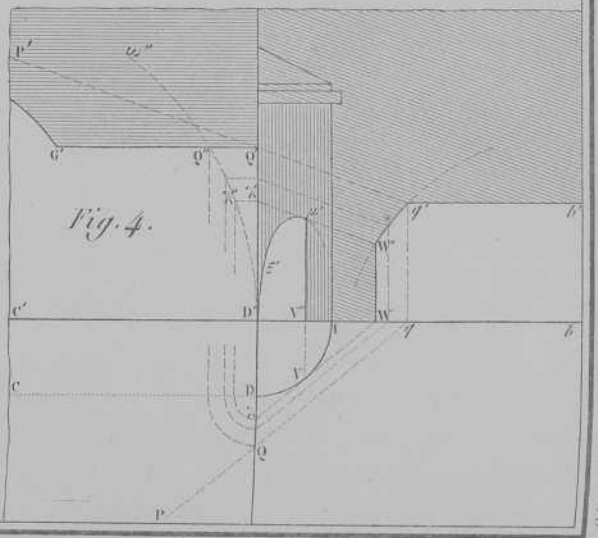


Fig. 4.



Fig. 3.

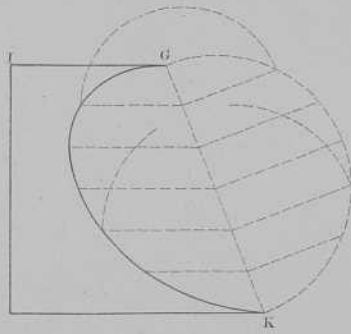


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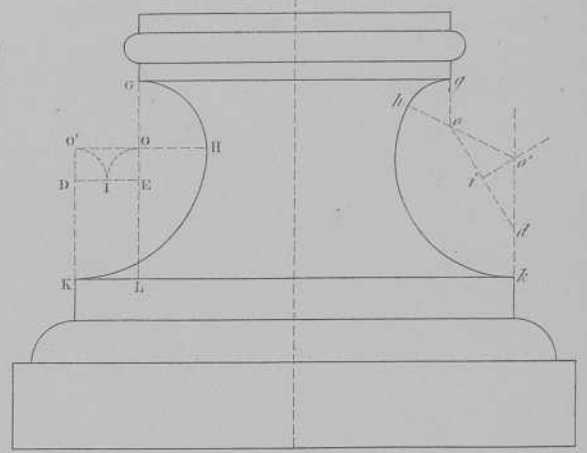


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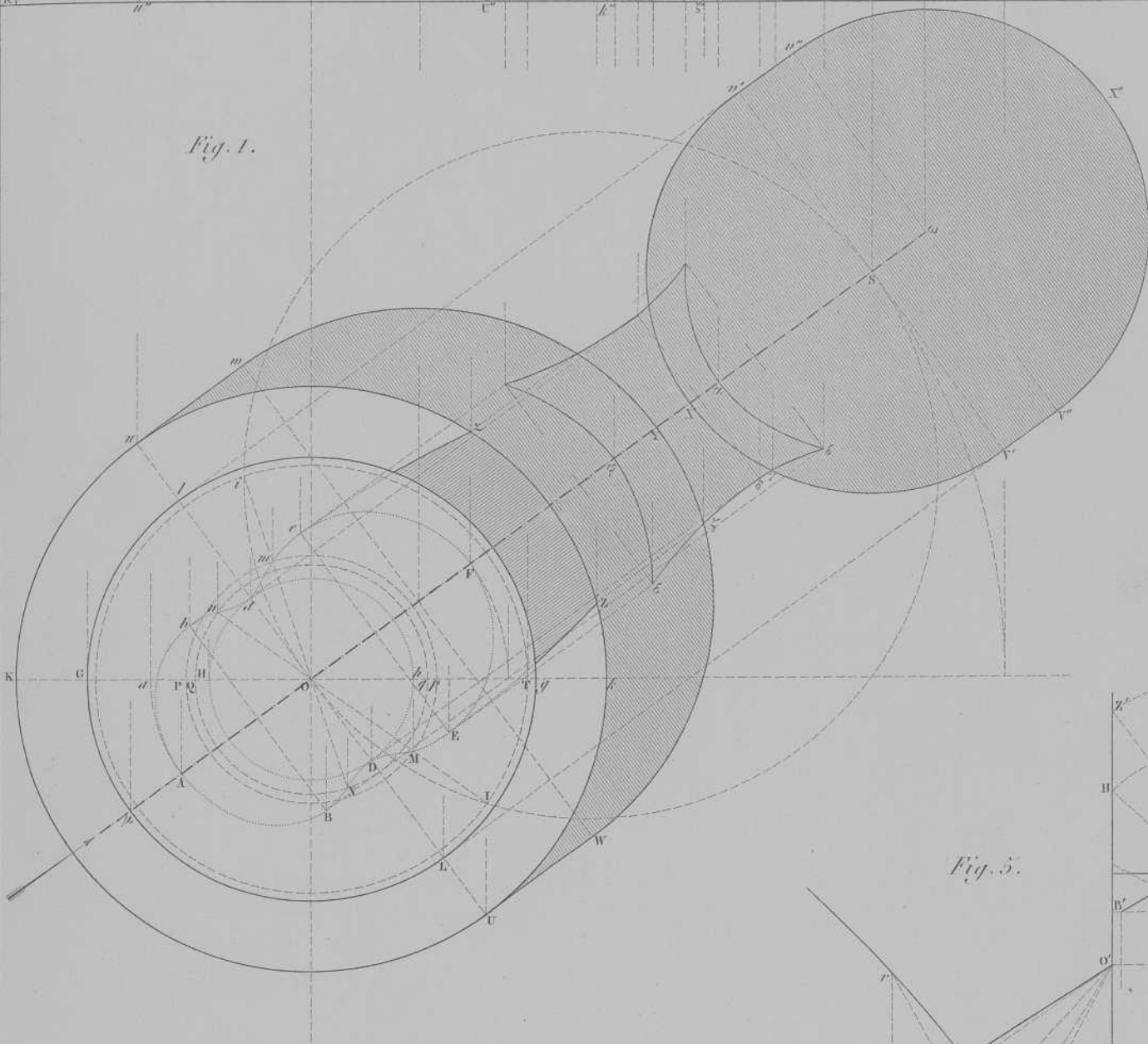


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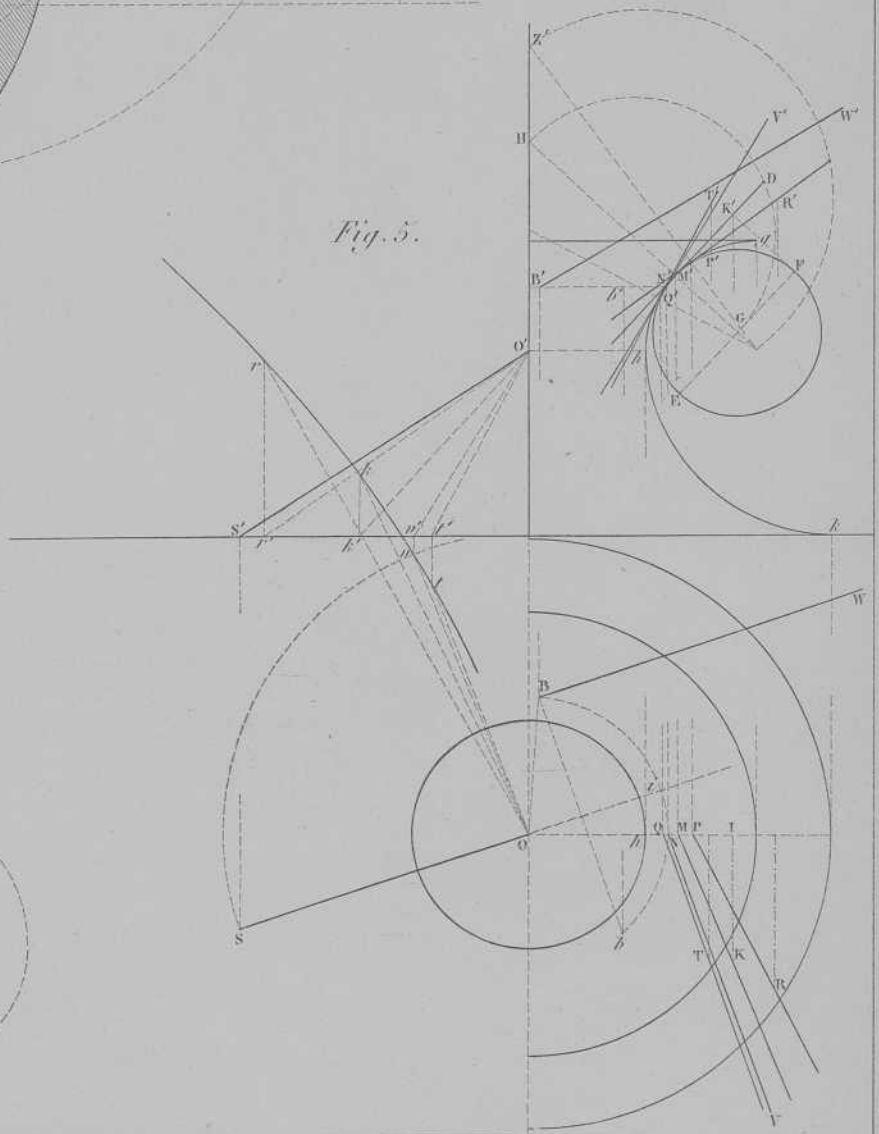
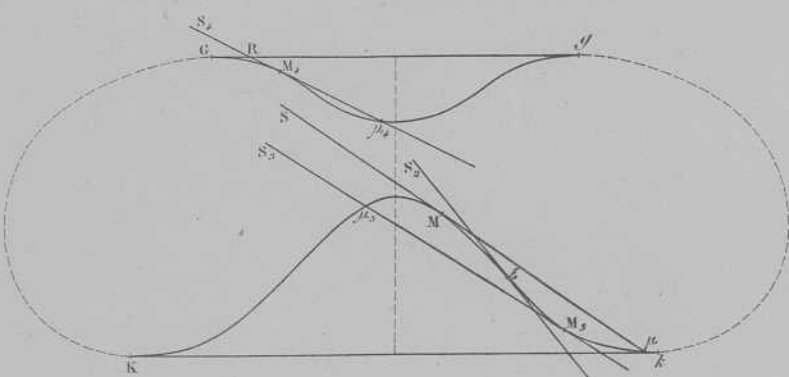


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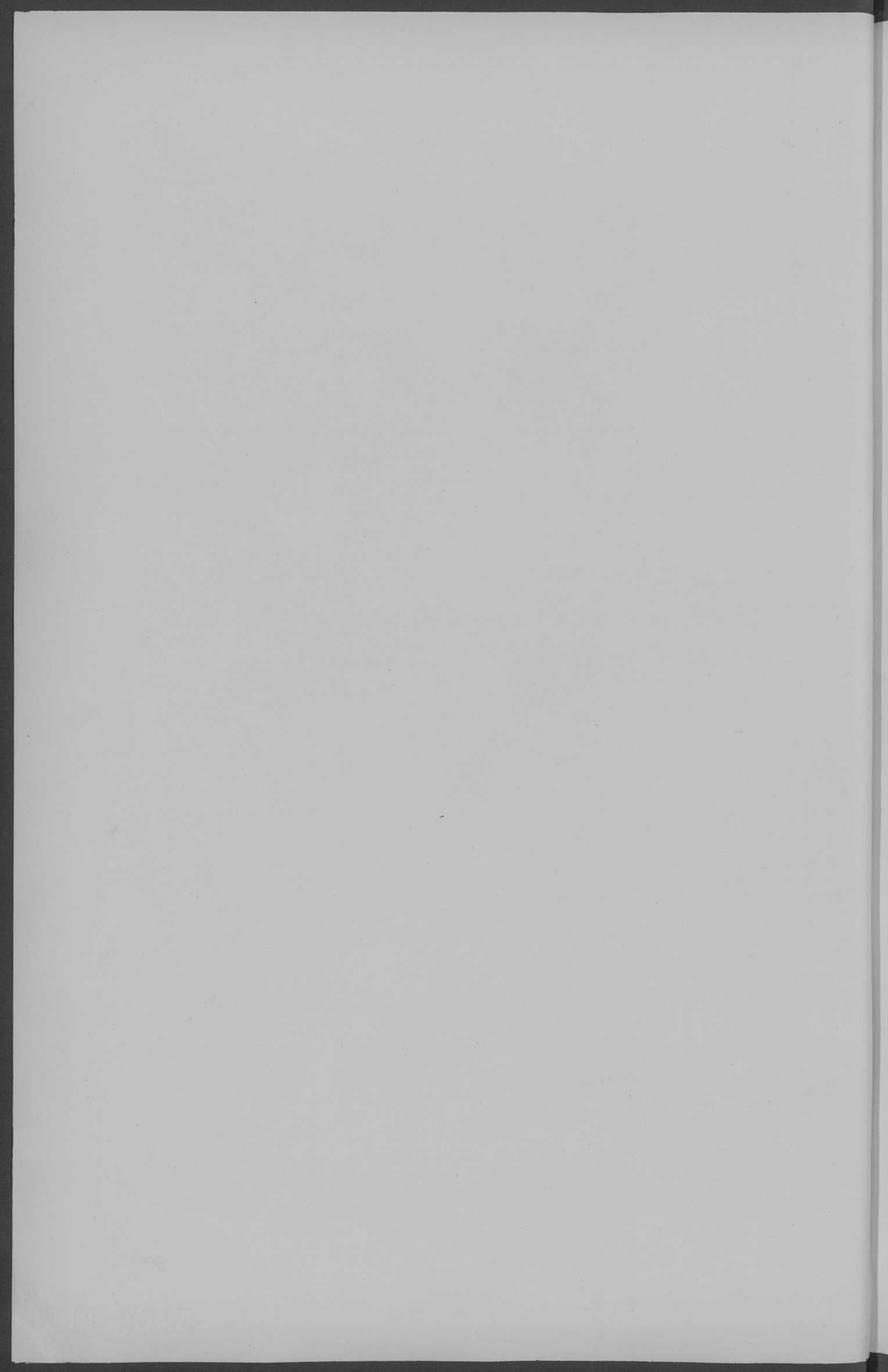




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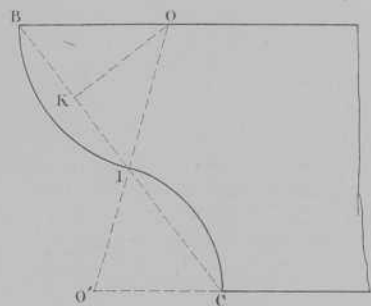
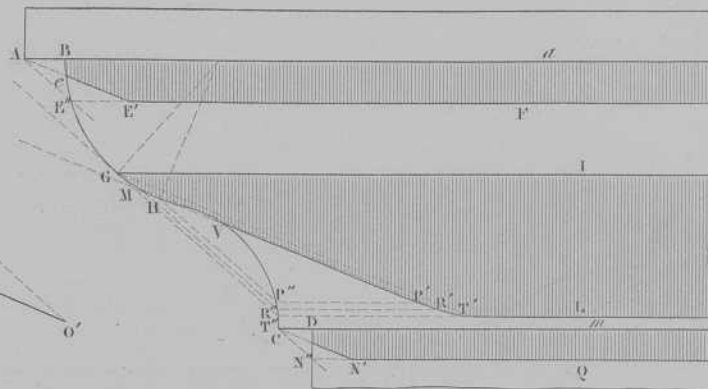
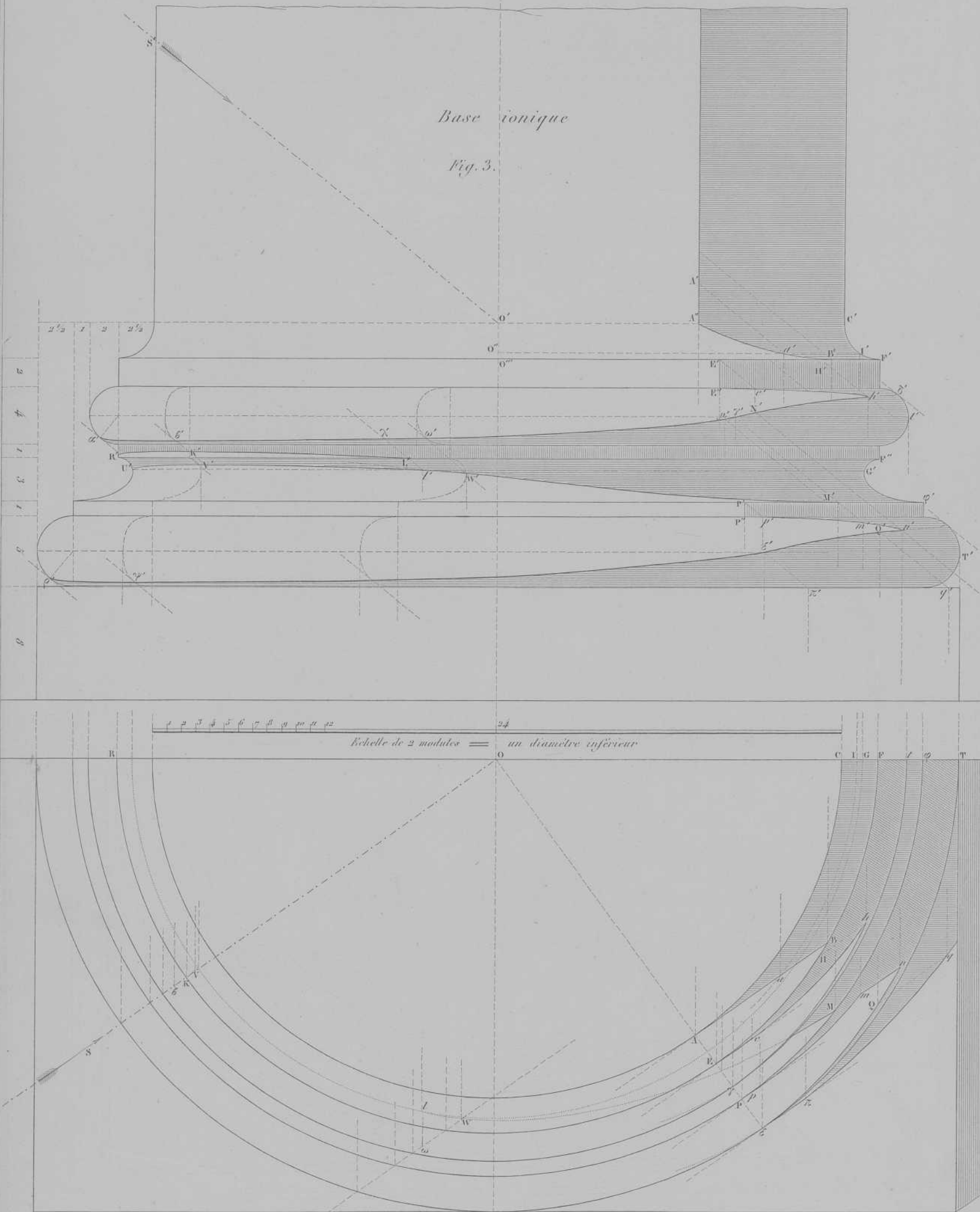


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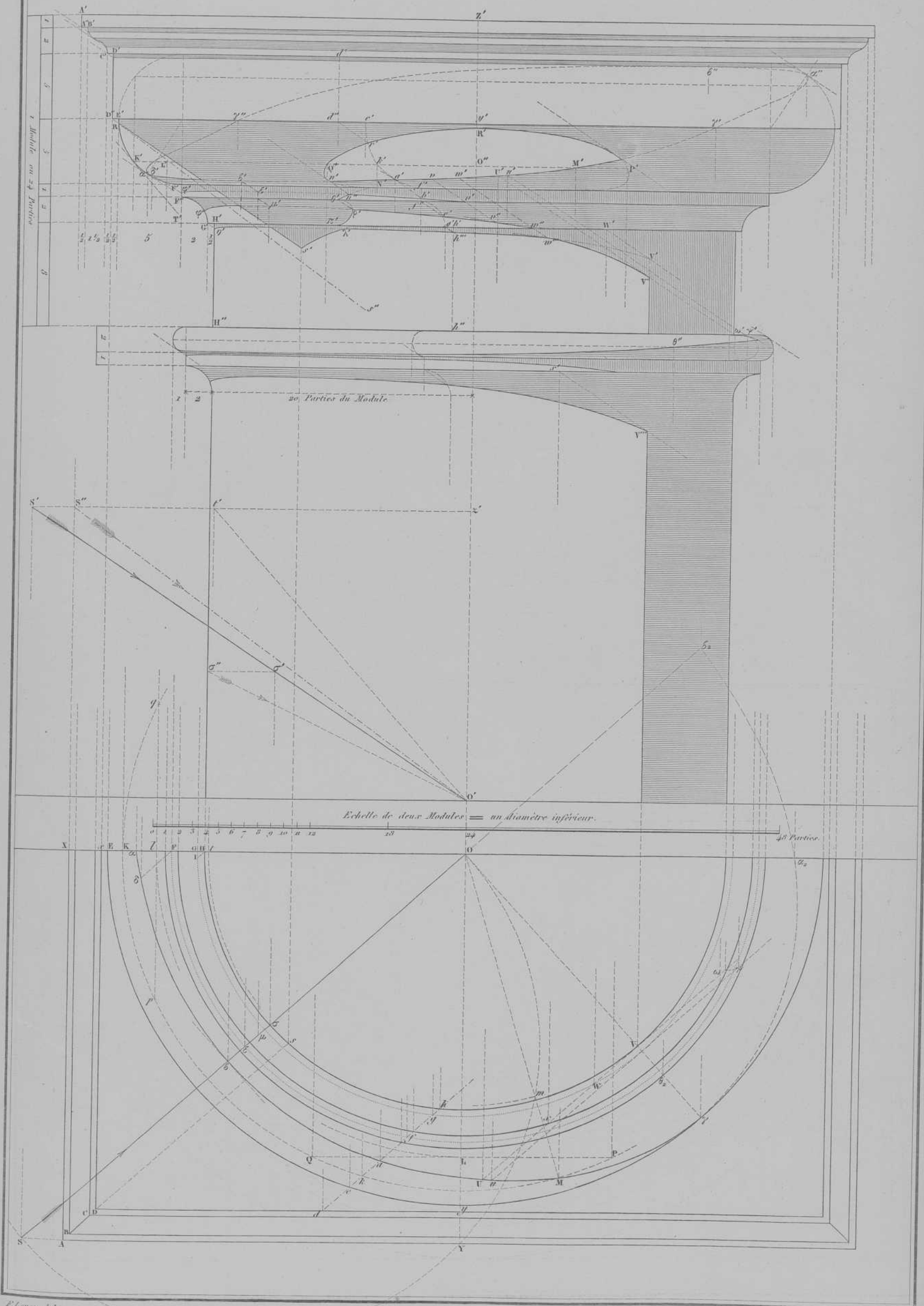


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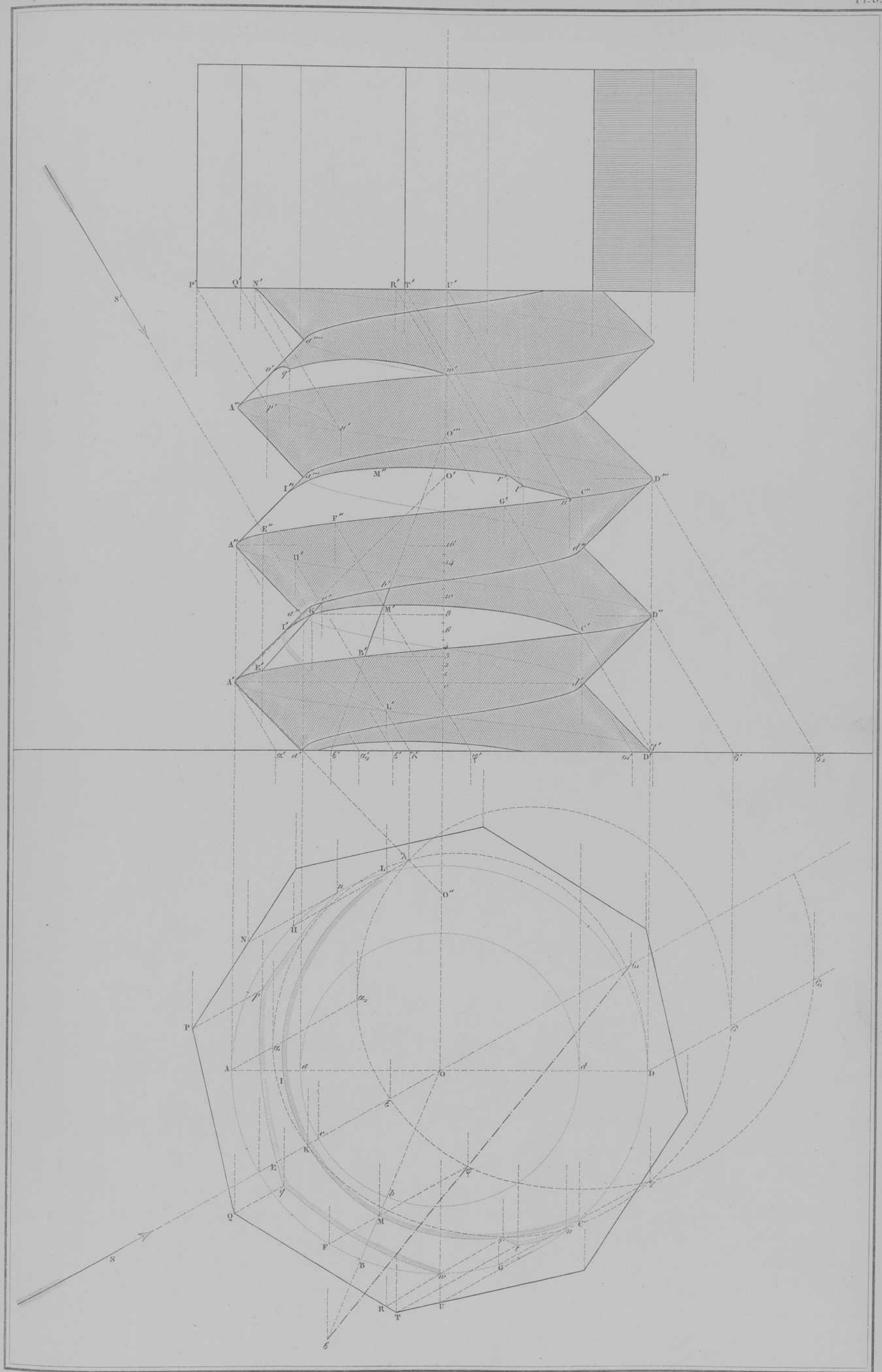
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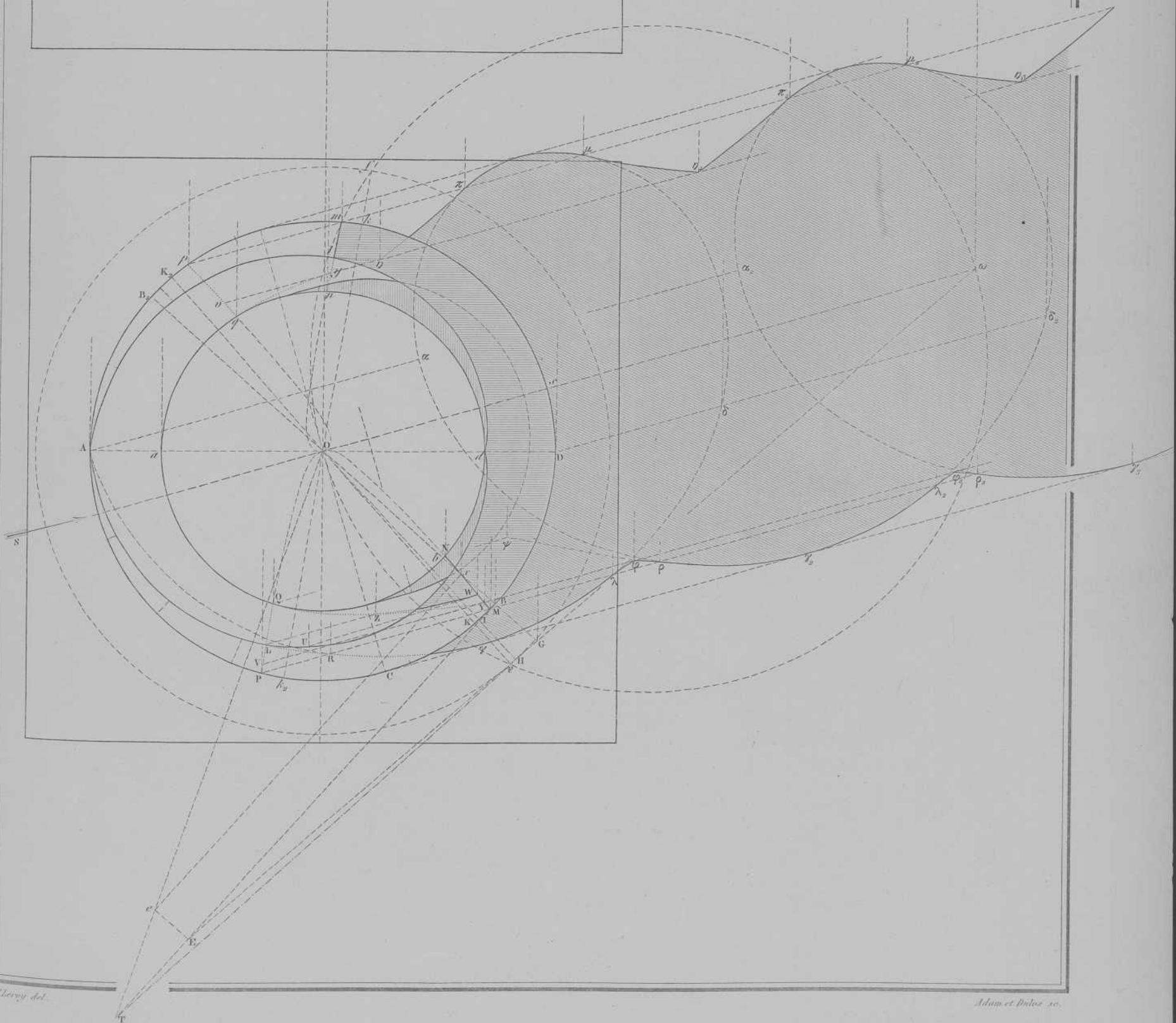
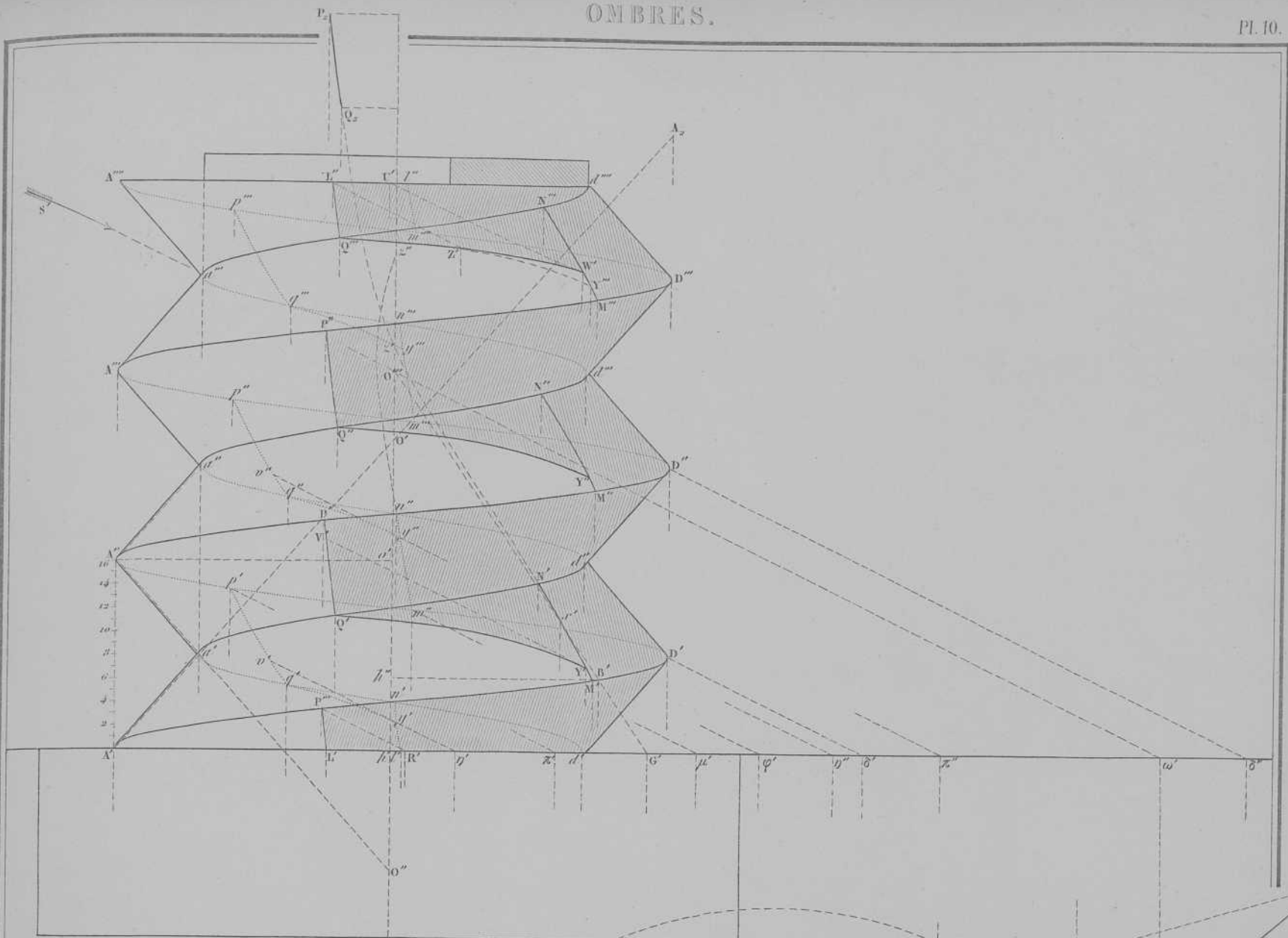


Chapiteau dorique romain.









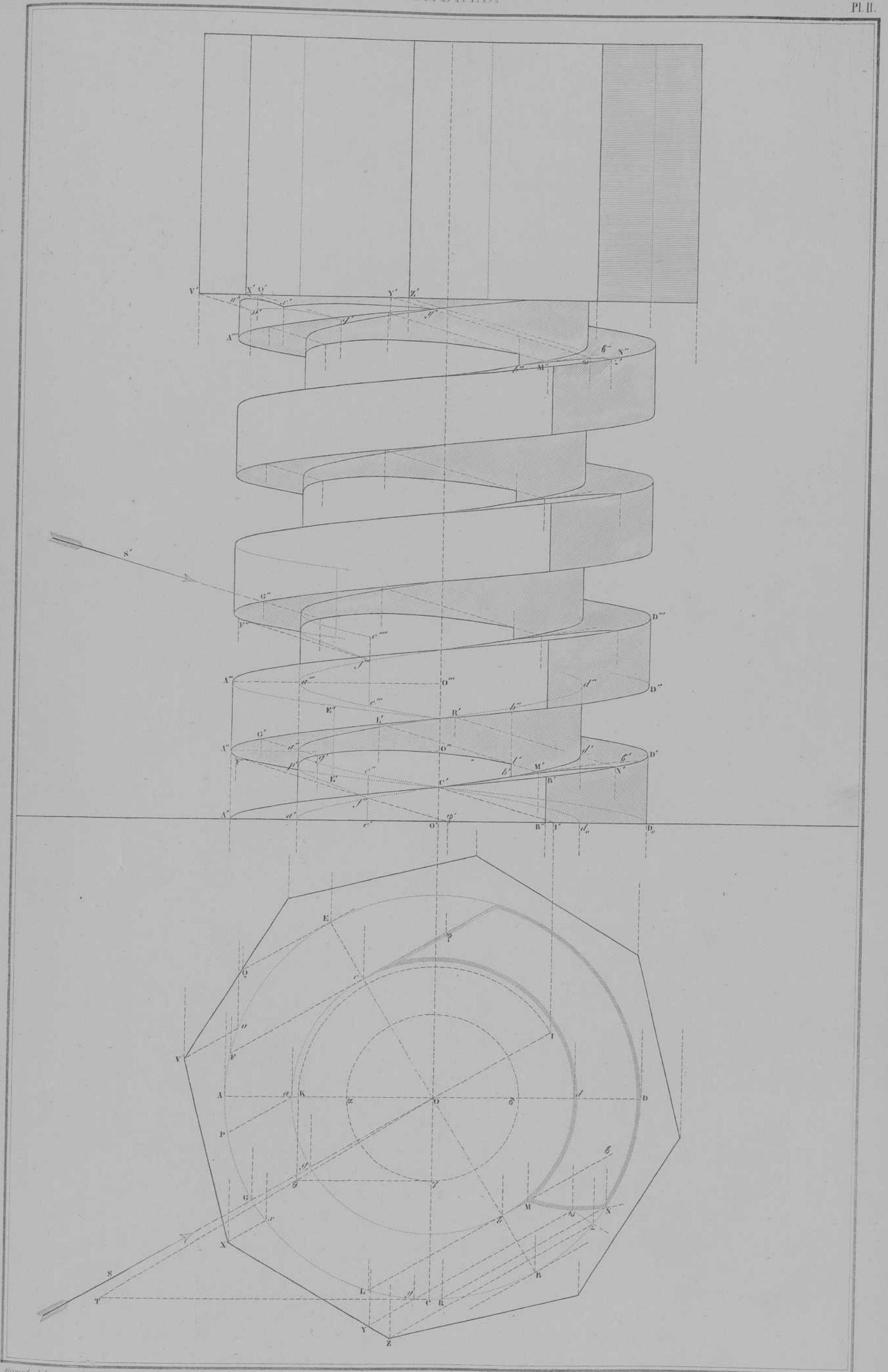


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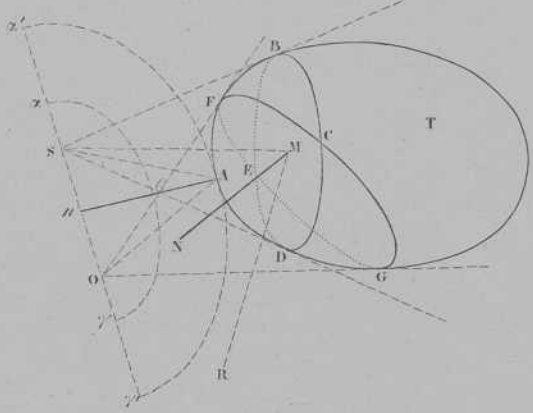


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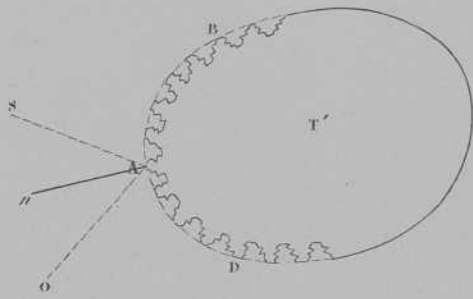


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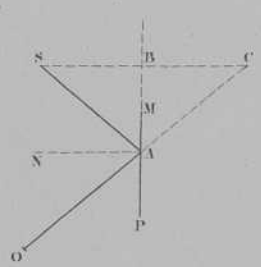


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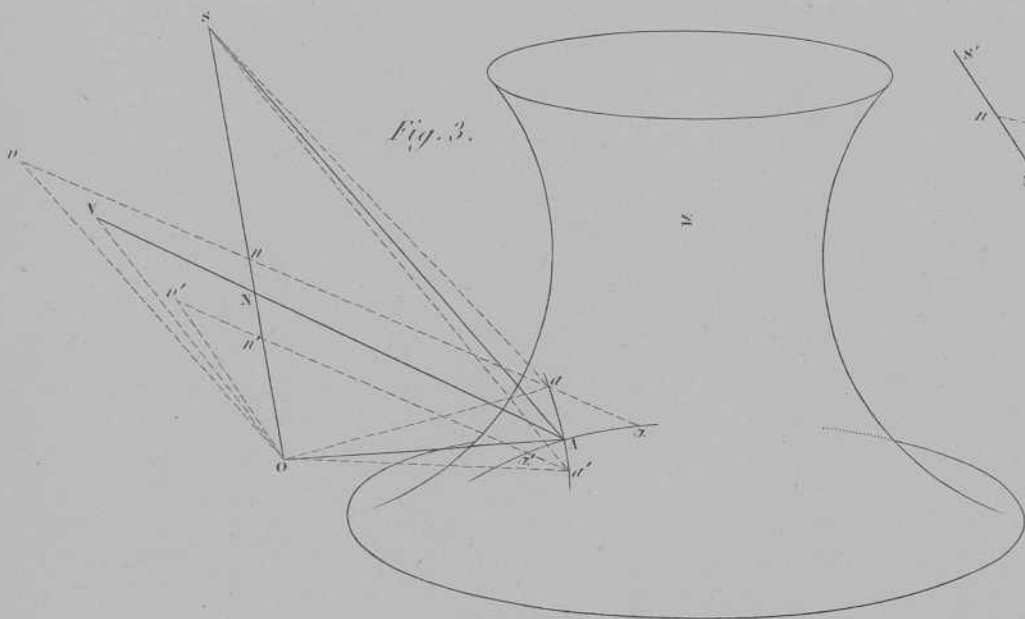


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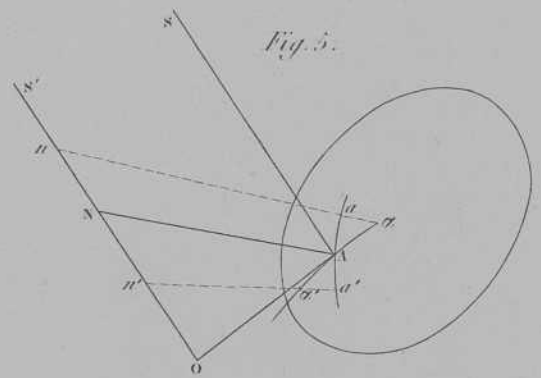


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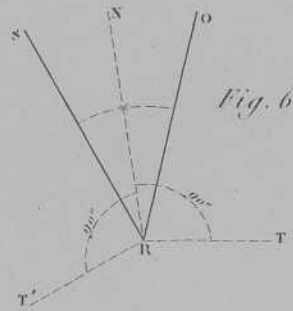


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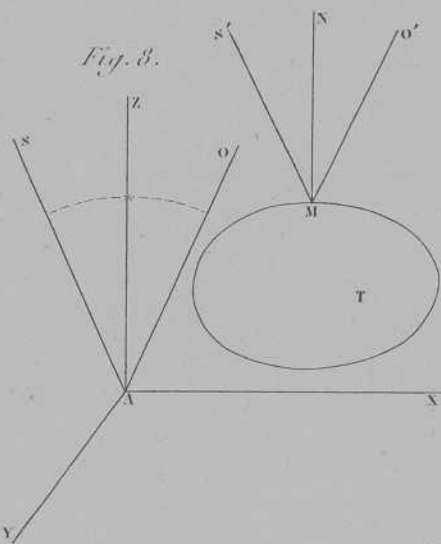


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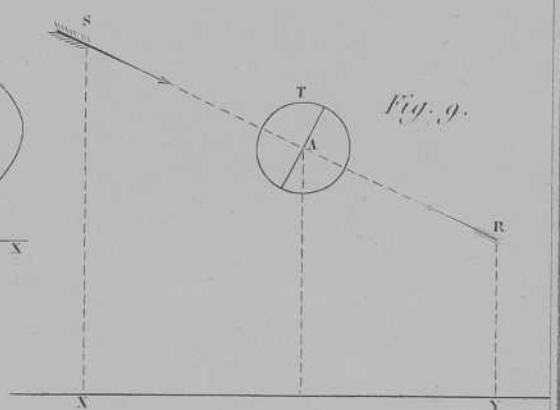


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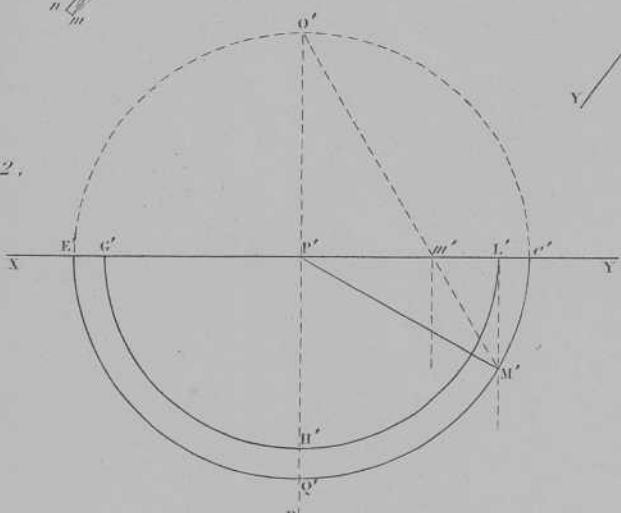


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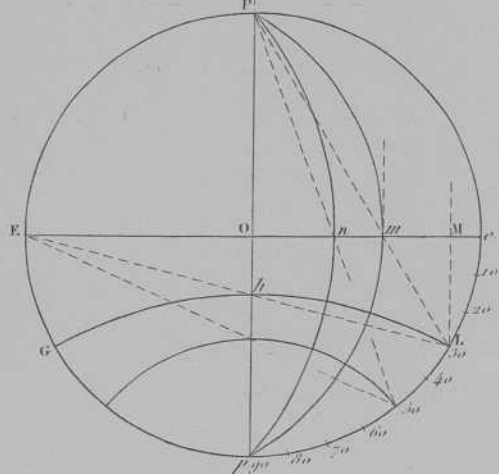


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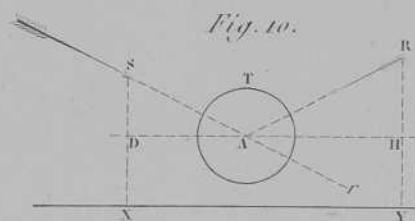


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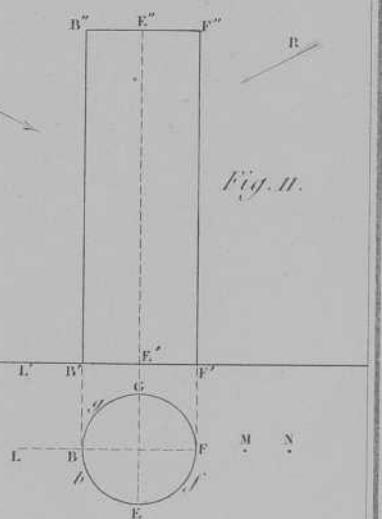


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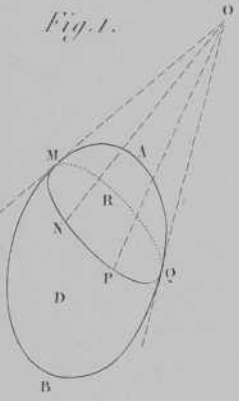


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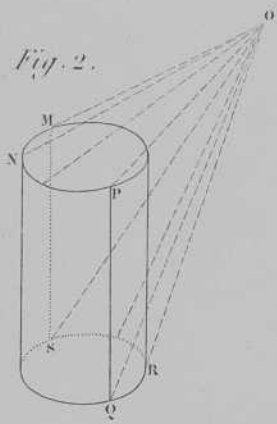


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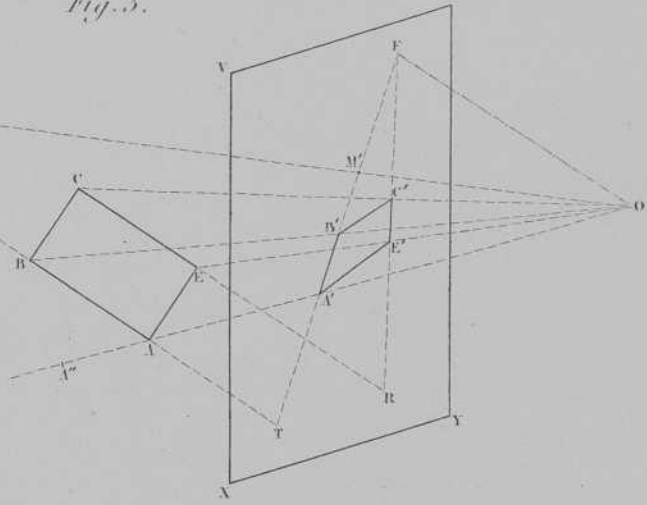


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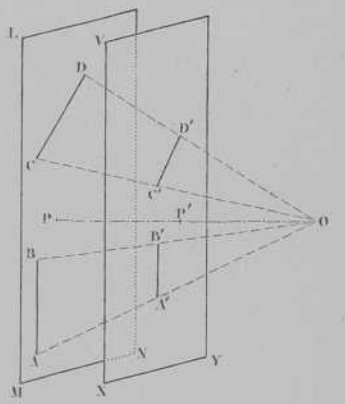


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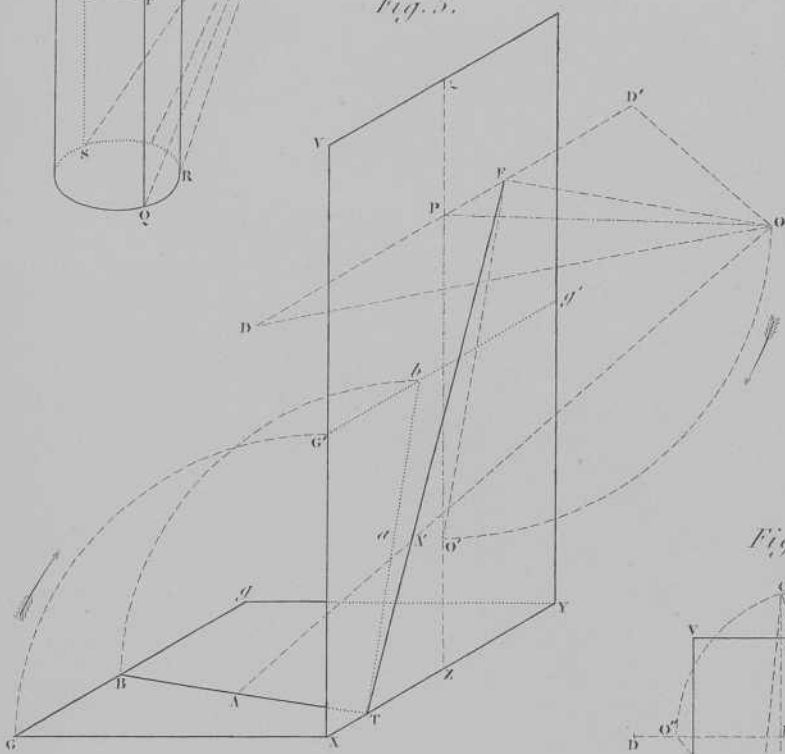


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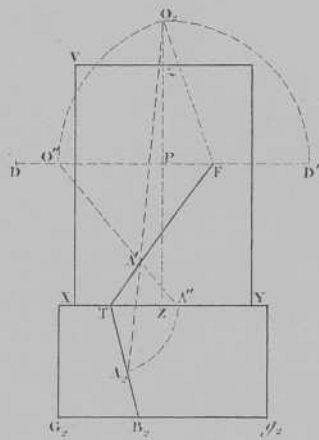


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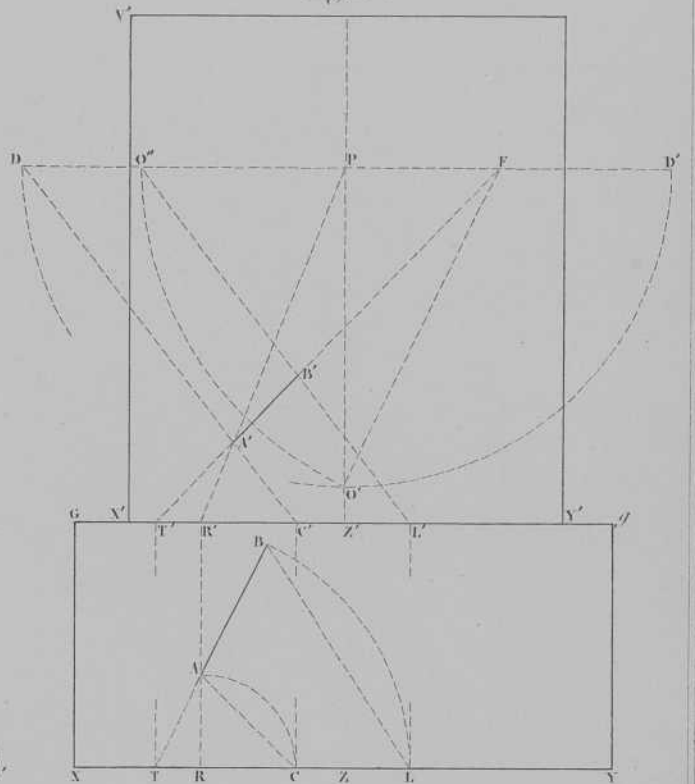


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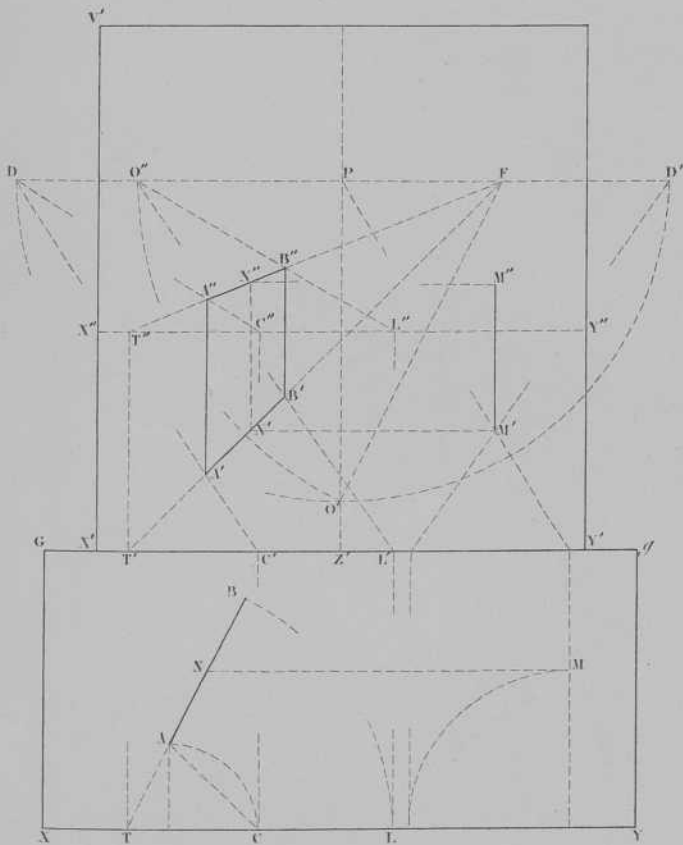
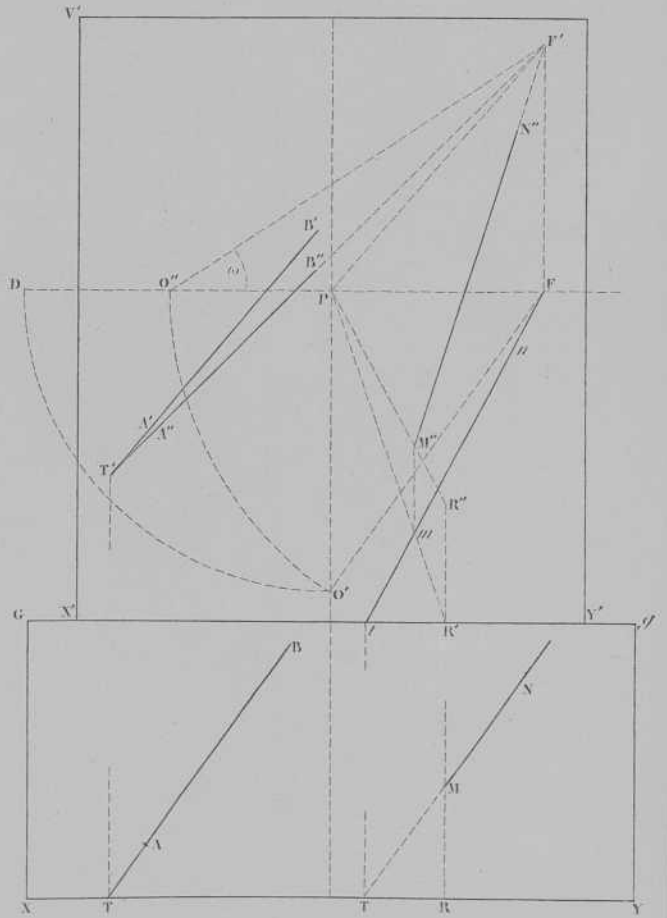


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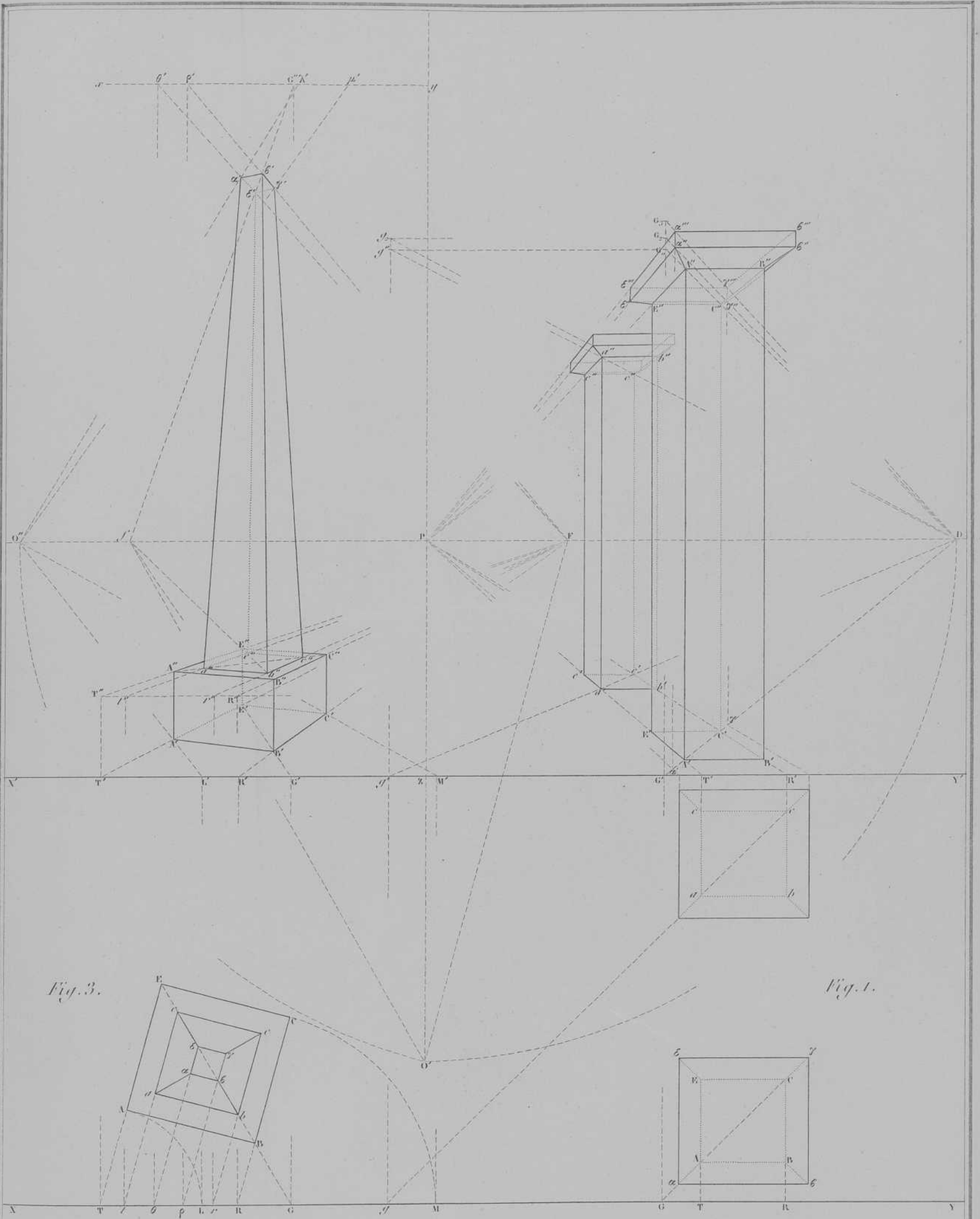


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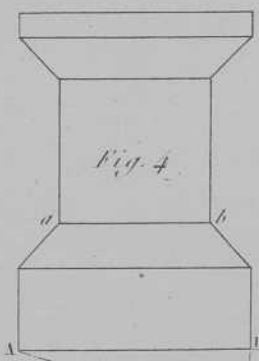


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Fig. 5.



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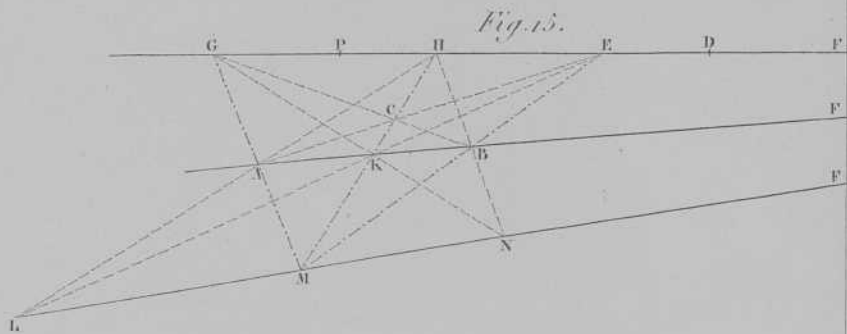
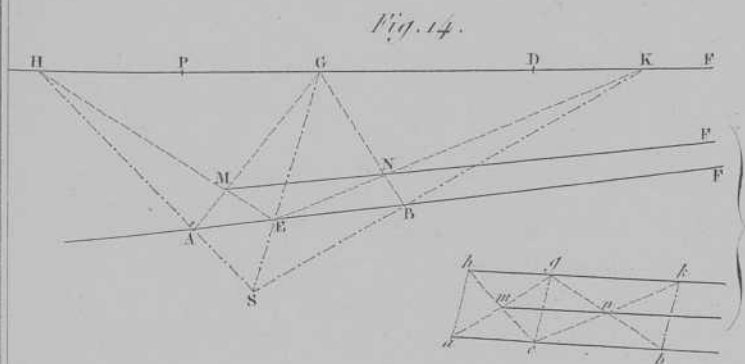
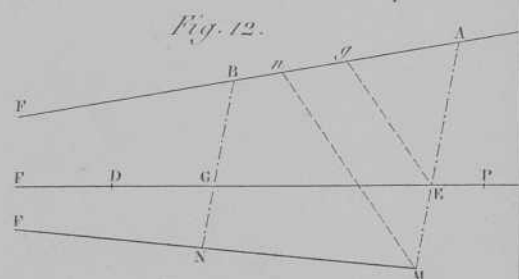
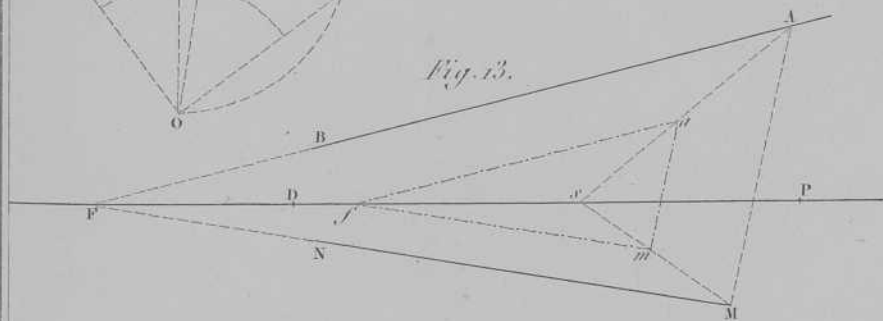
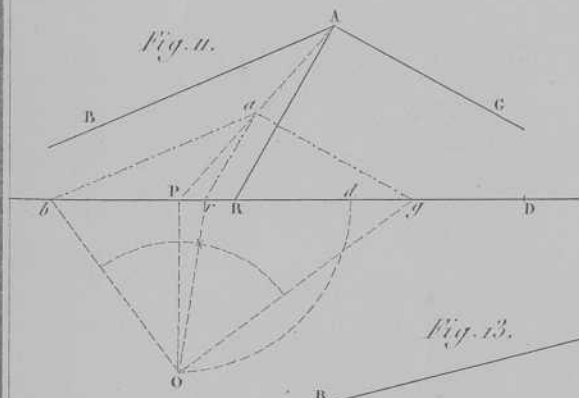
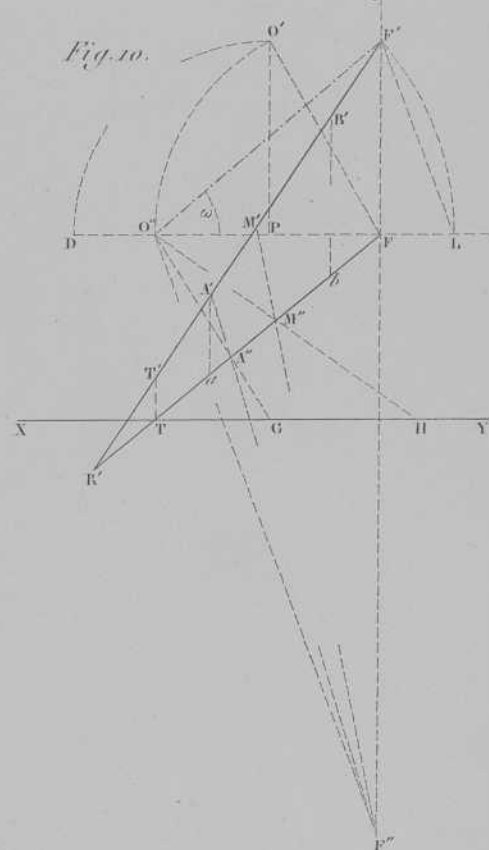
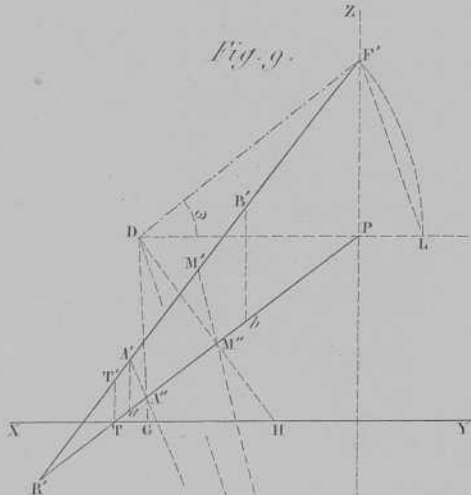
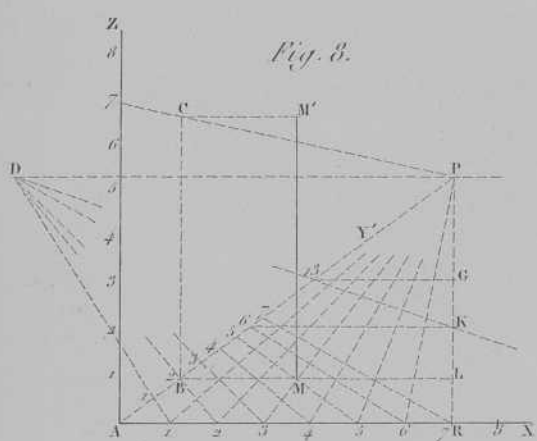
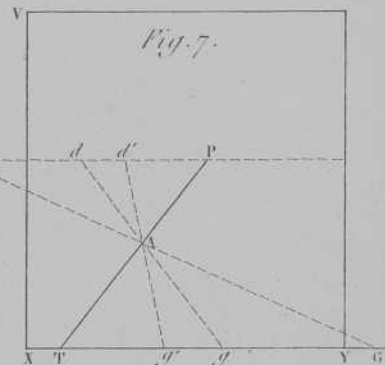
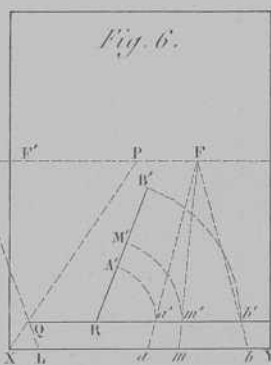
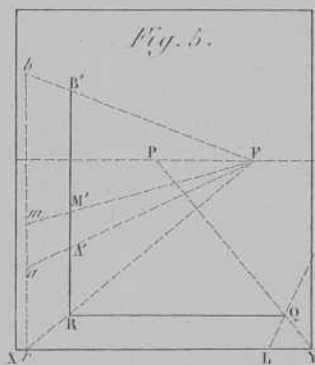
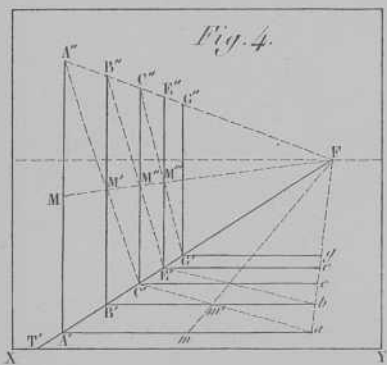
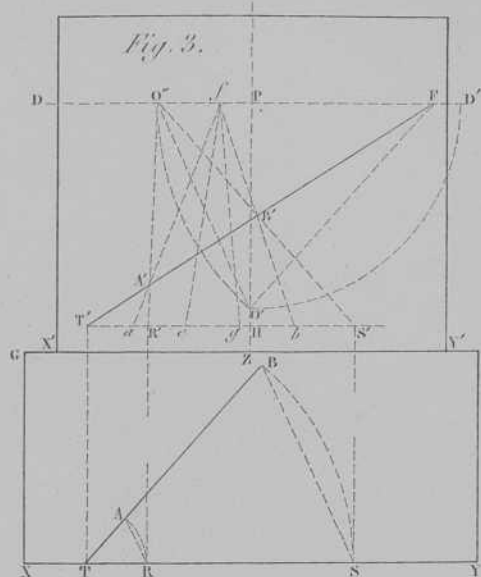
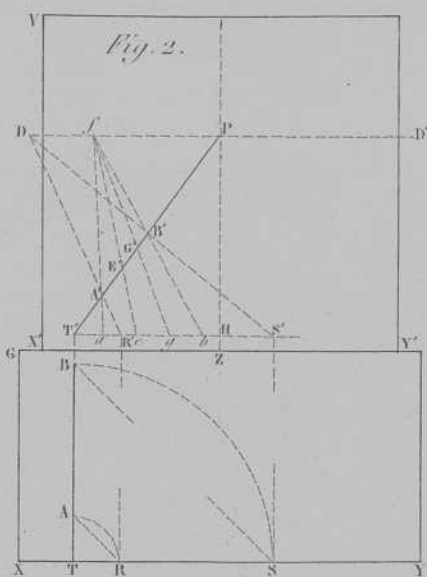
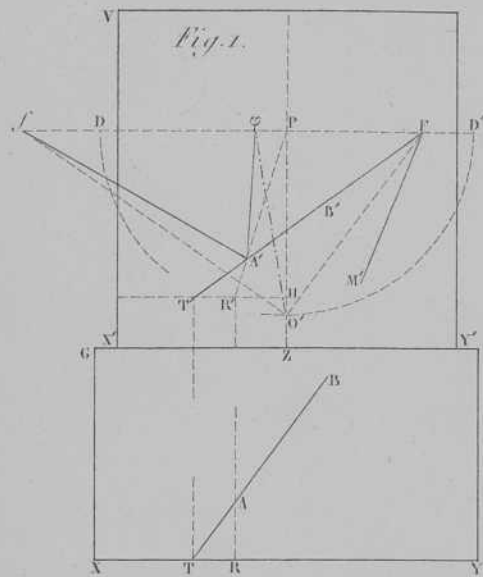


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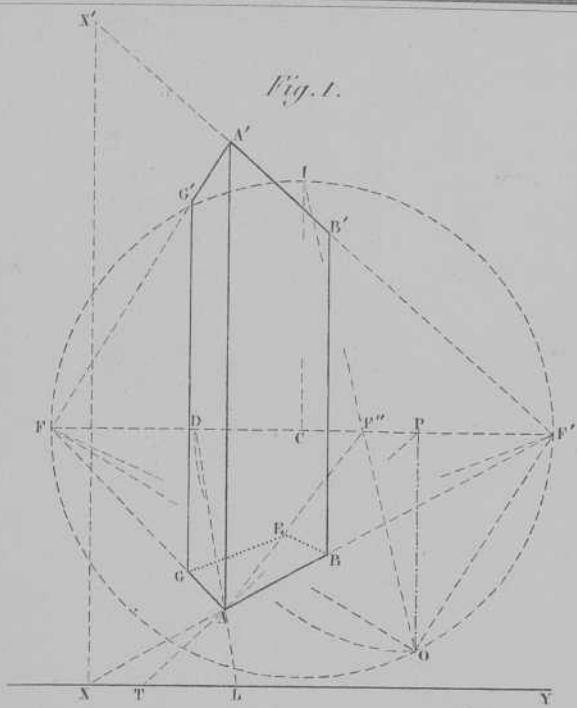


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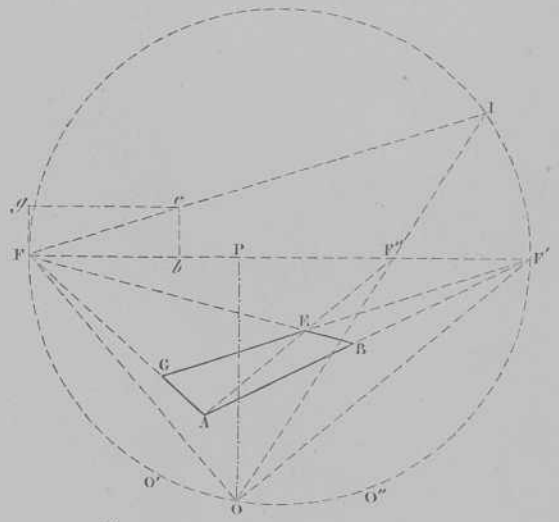


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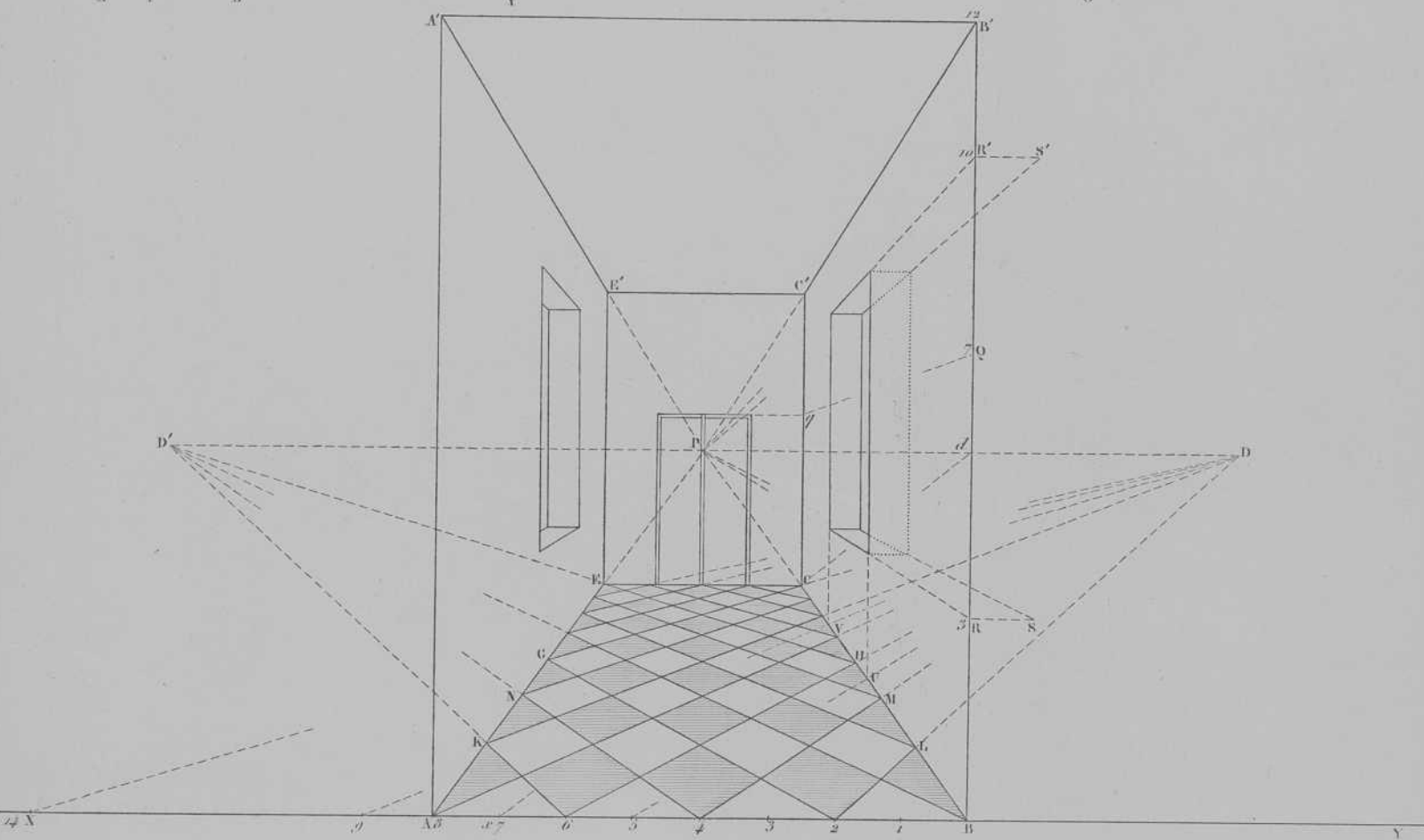
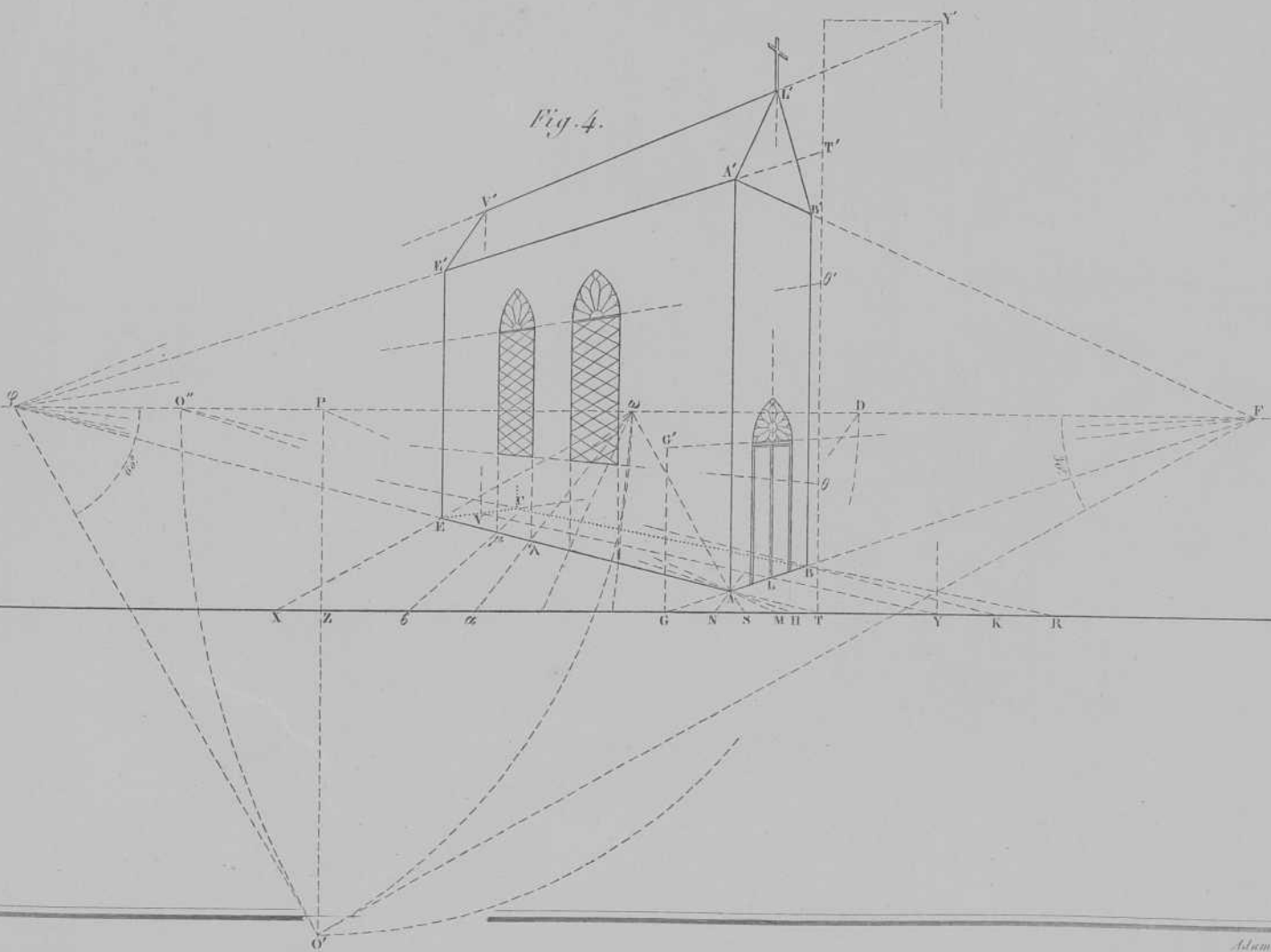
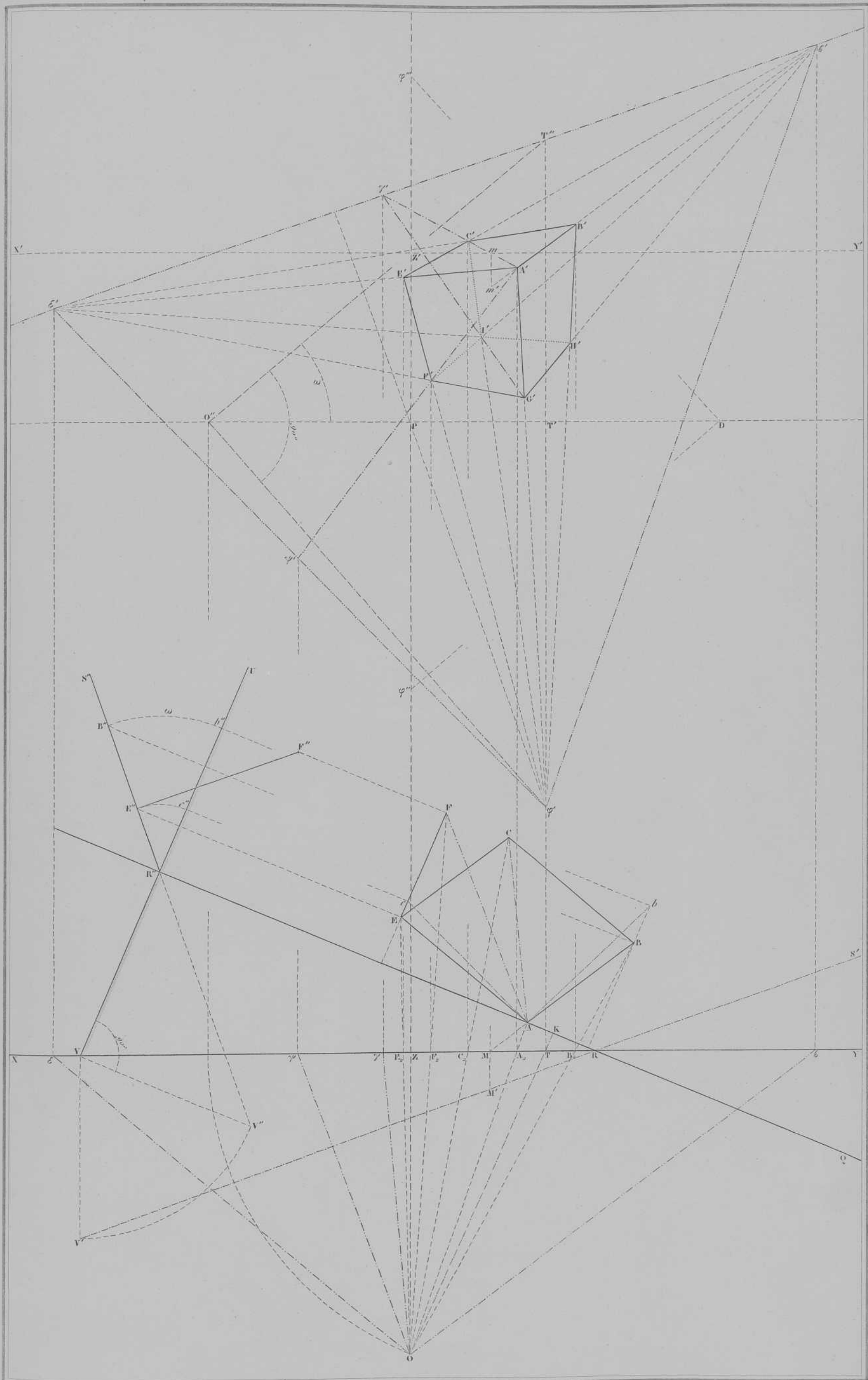
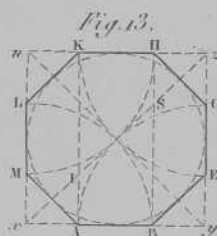
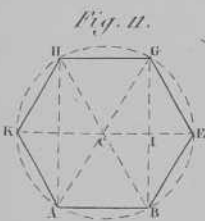
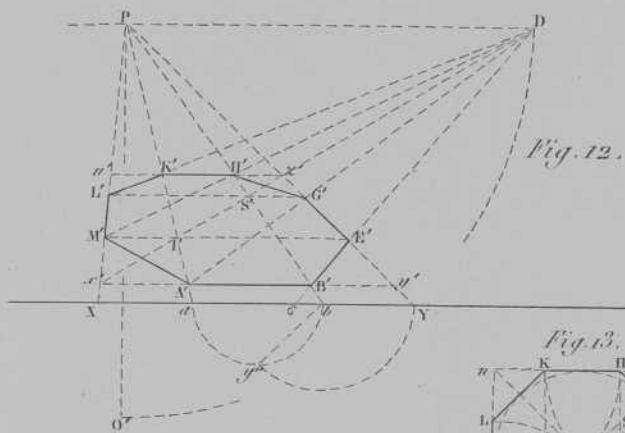
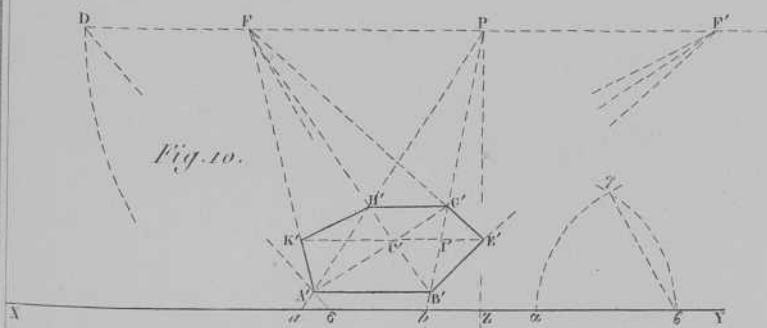
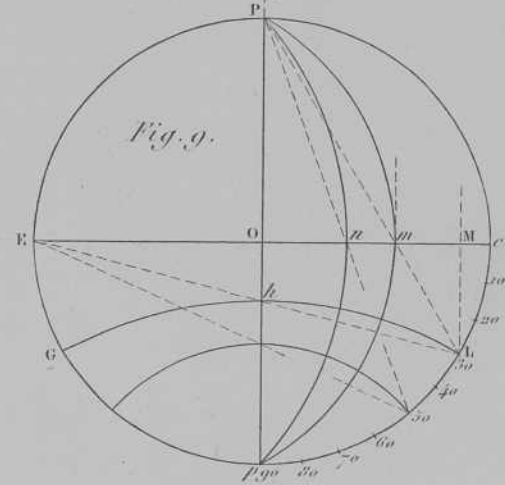
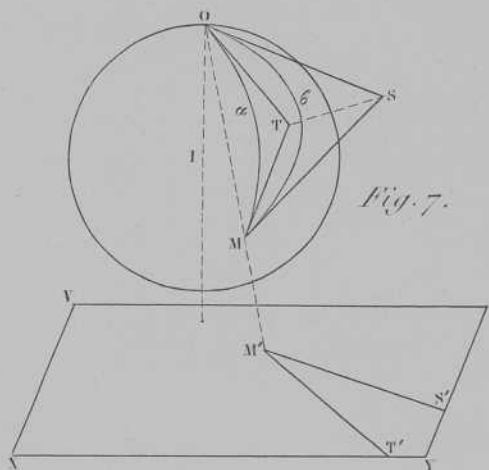
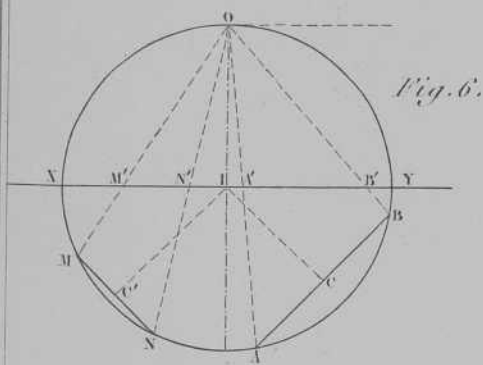
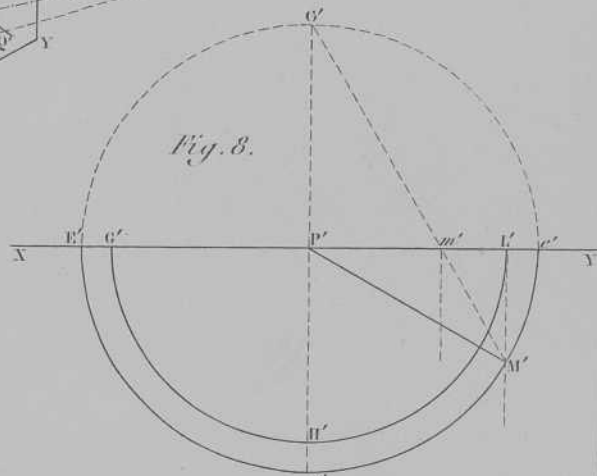
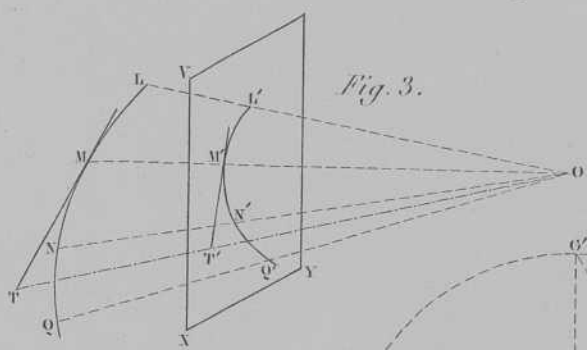
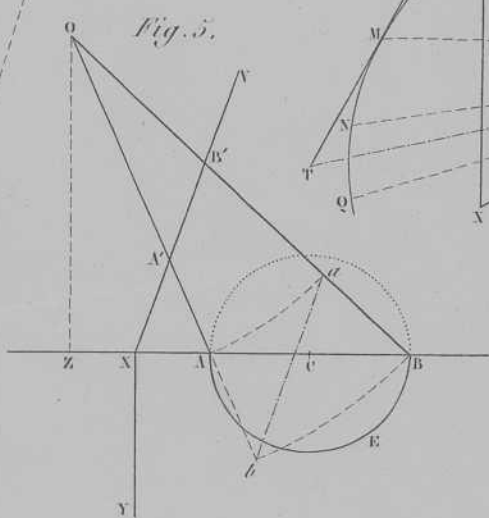
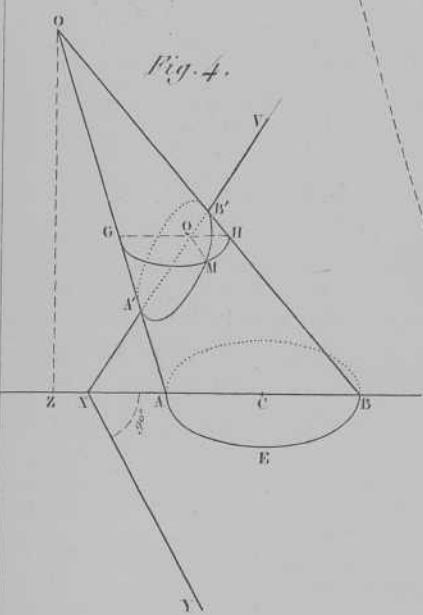
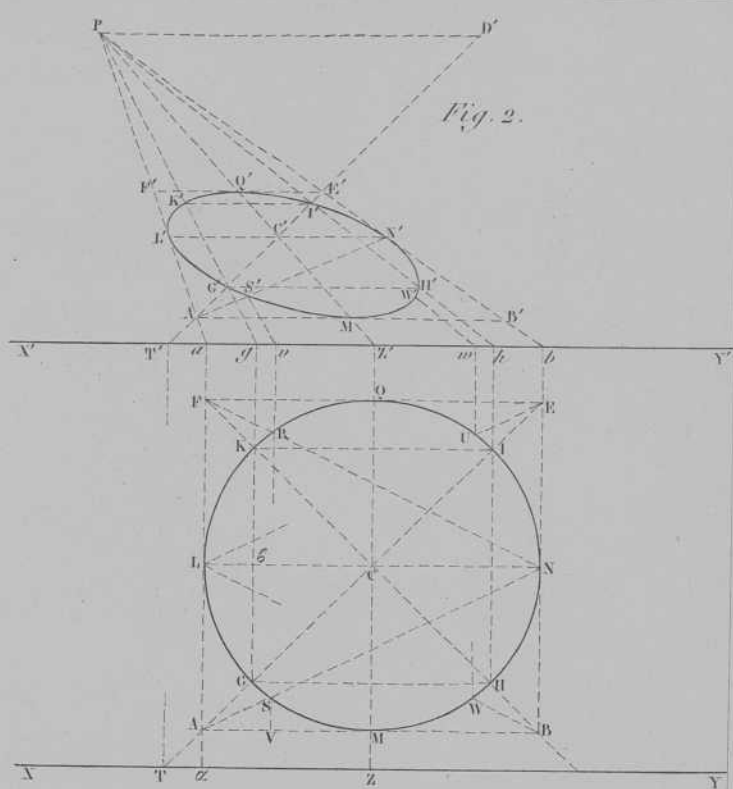
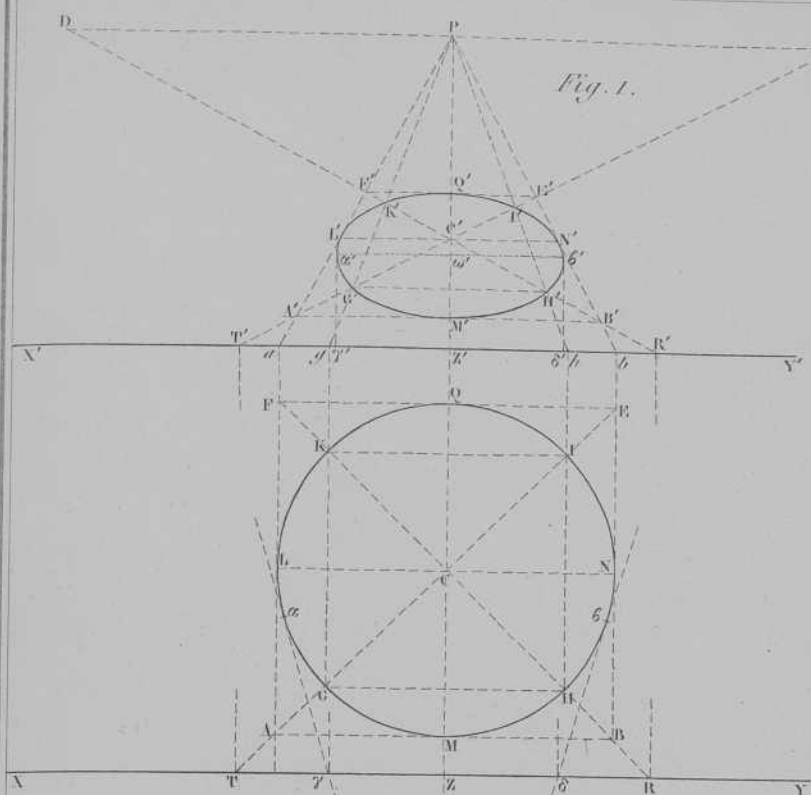


Fig. 4.







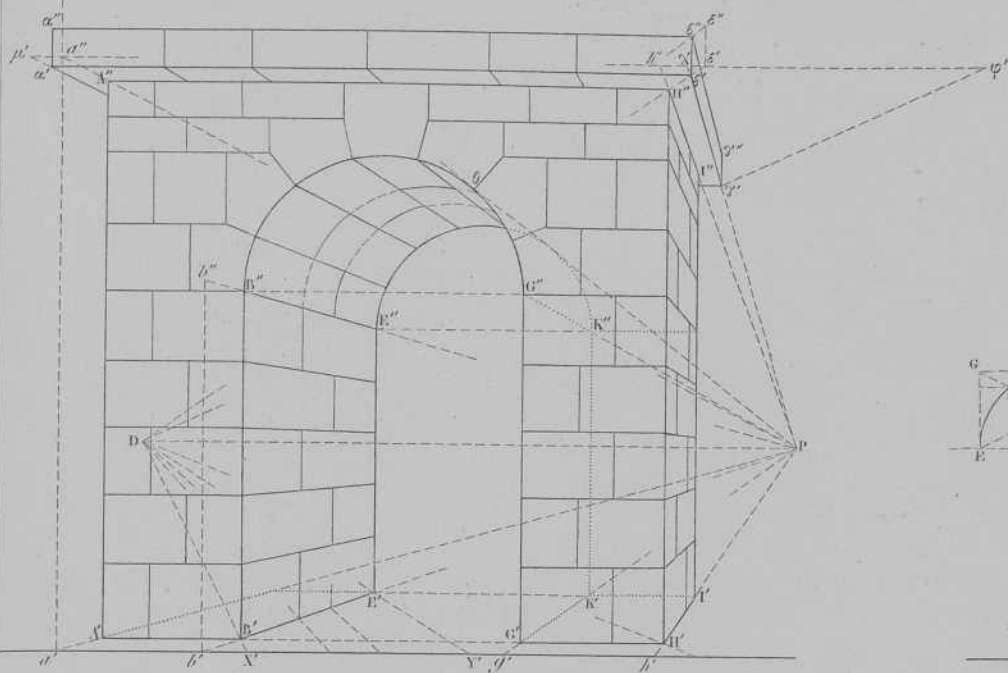


Fig. 1.

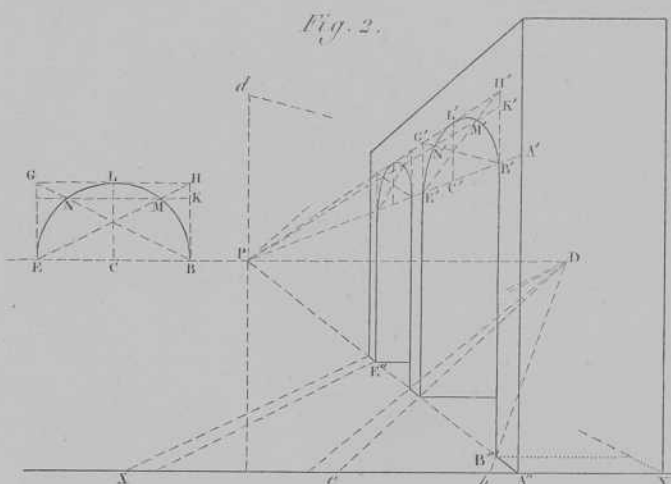
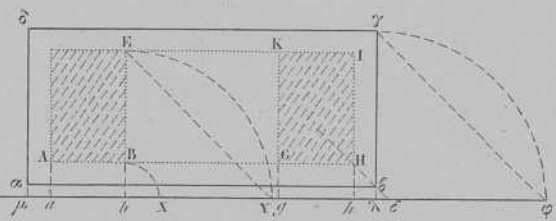


Fig. 2.

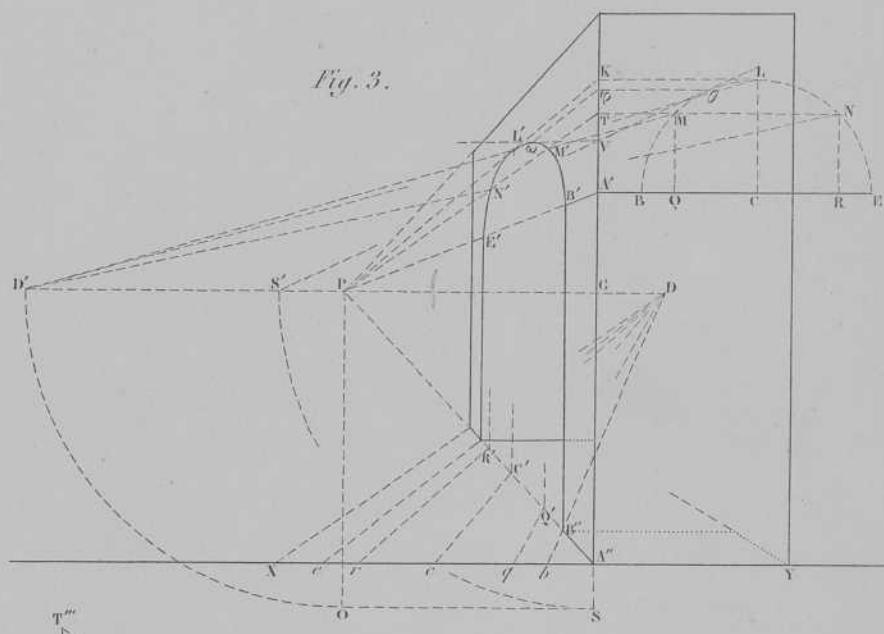


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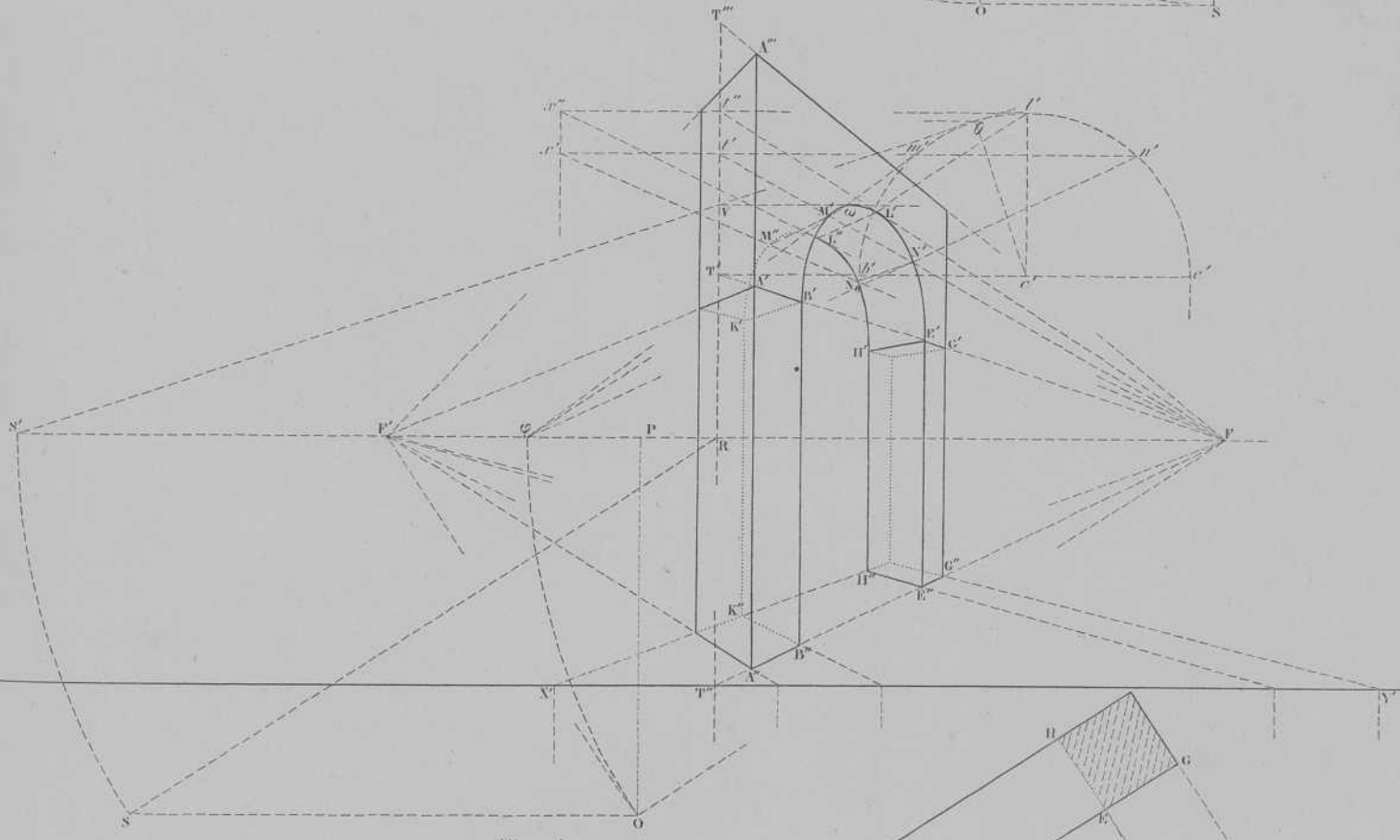


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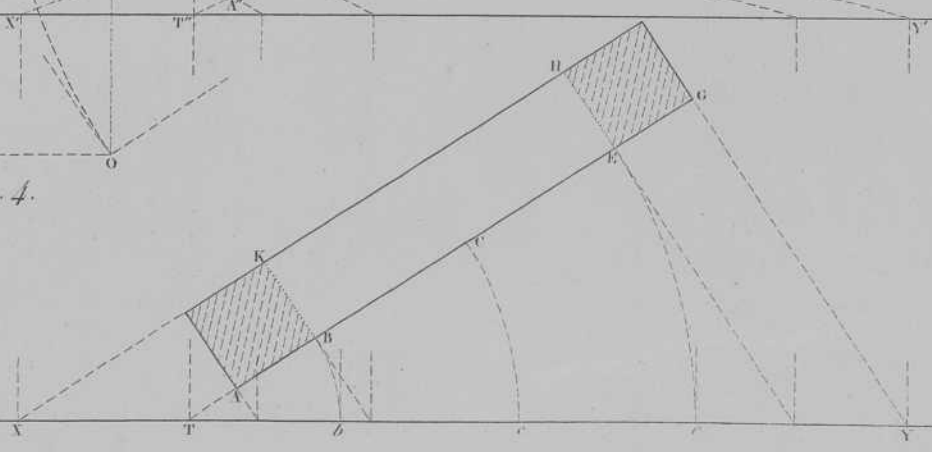


Fig. 2.

Fig. 1.

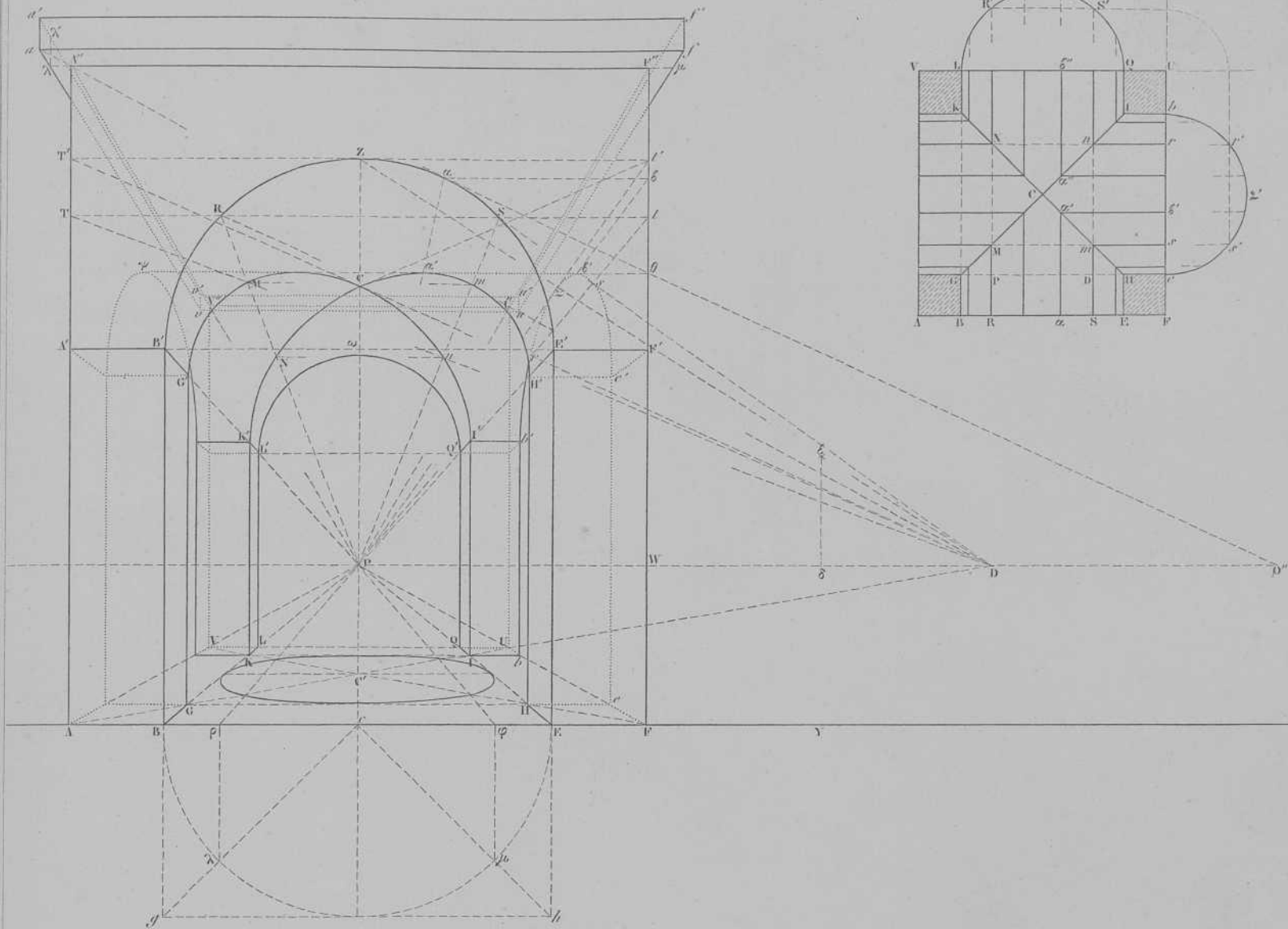
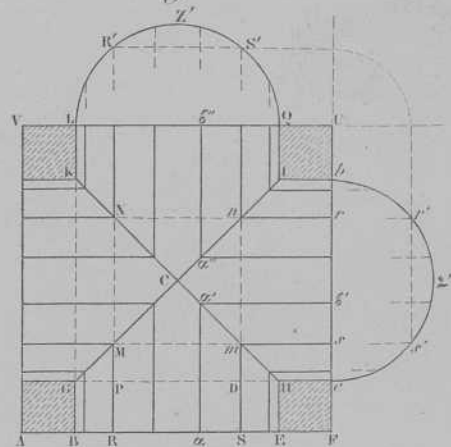
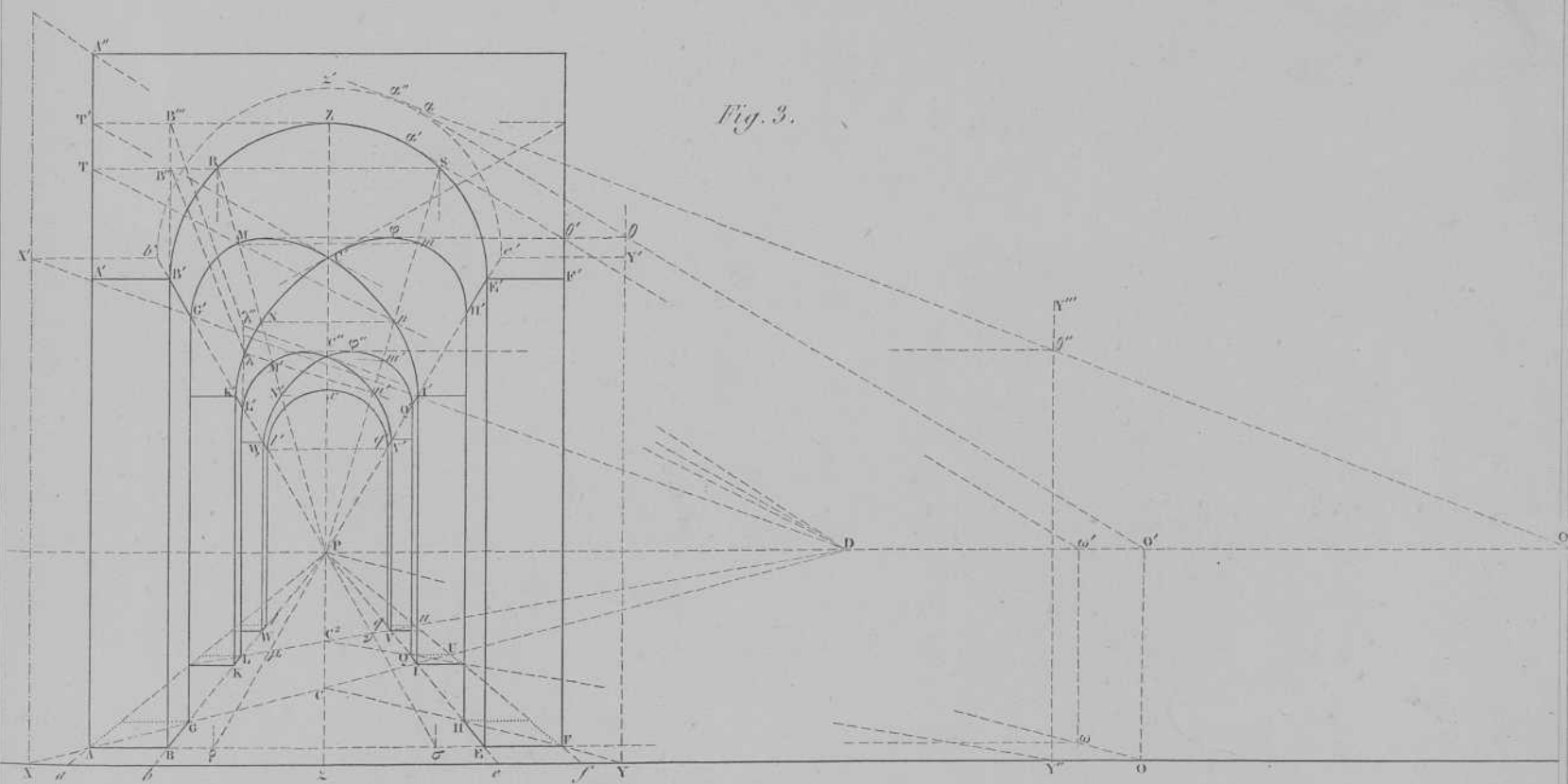
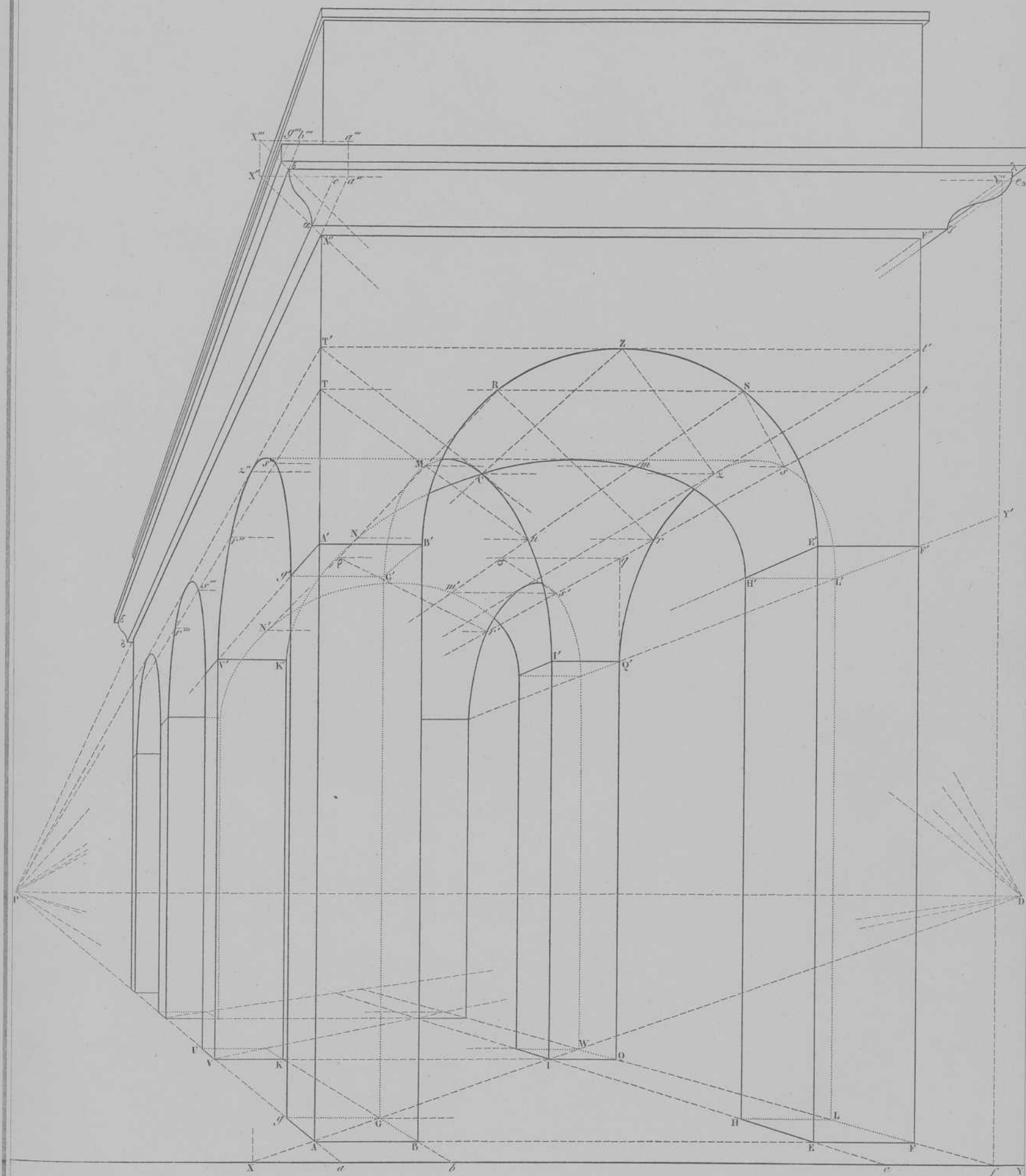
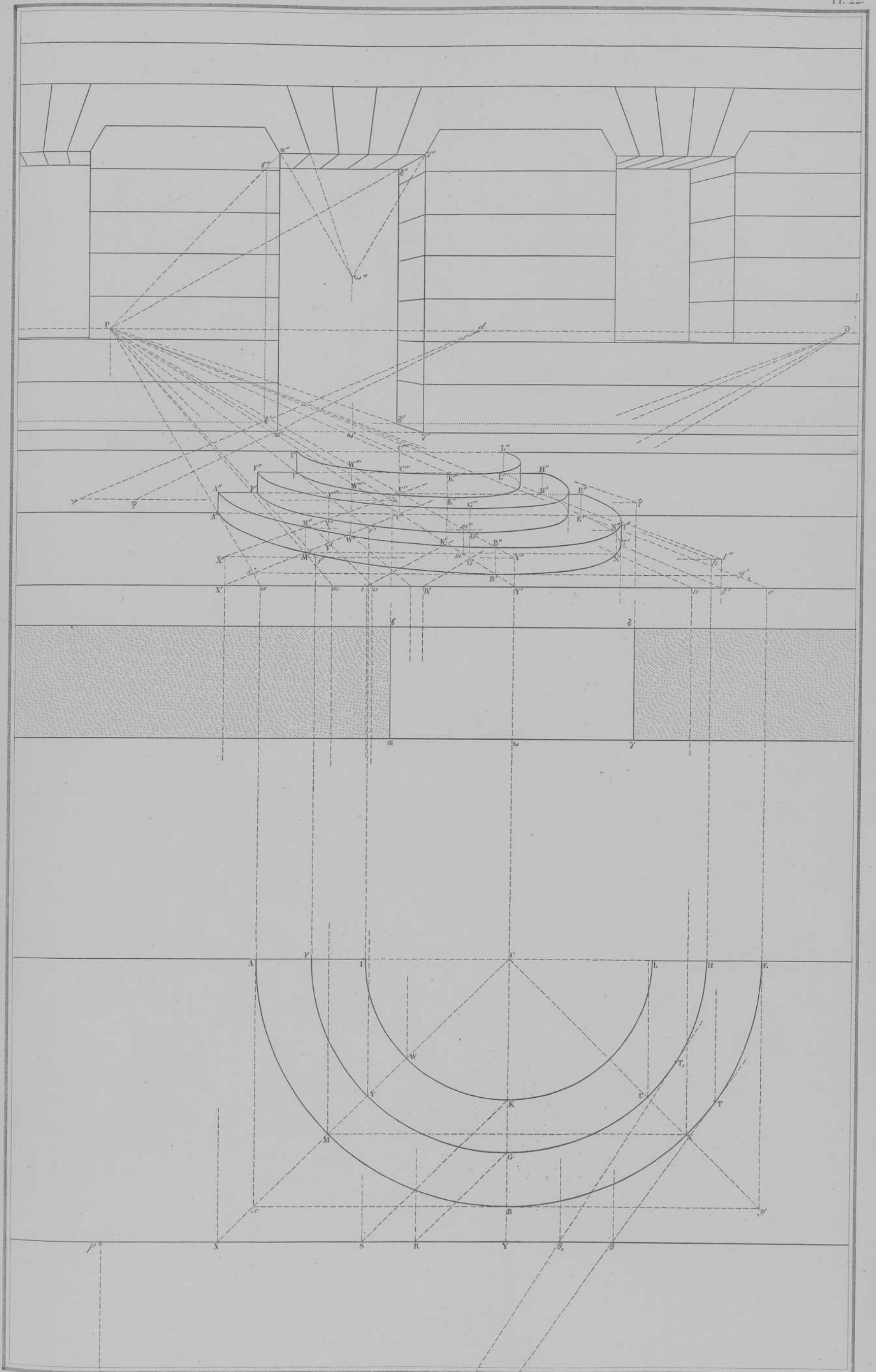


Fig. 3.









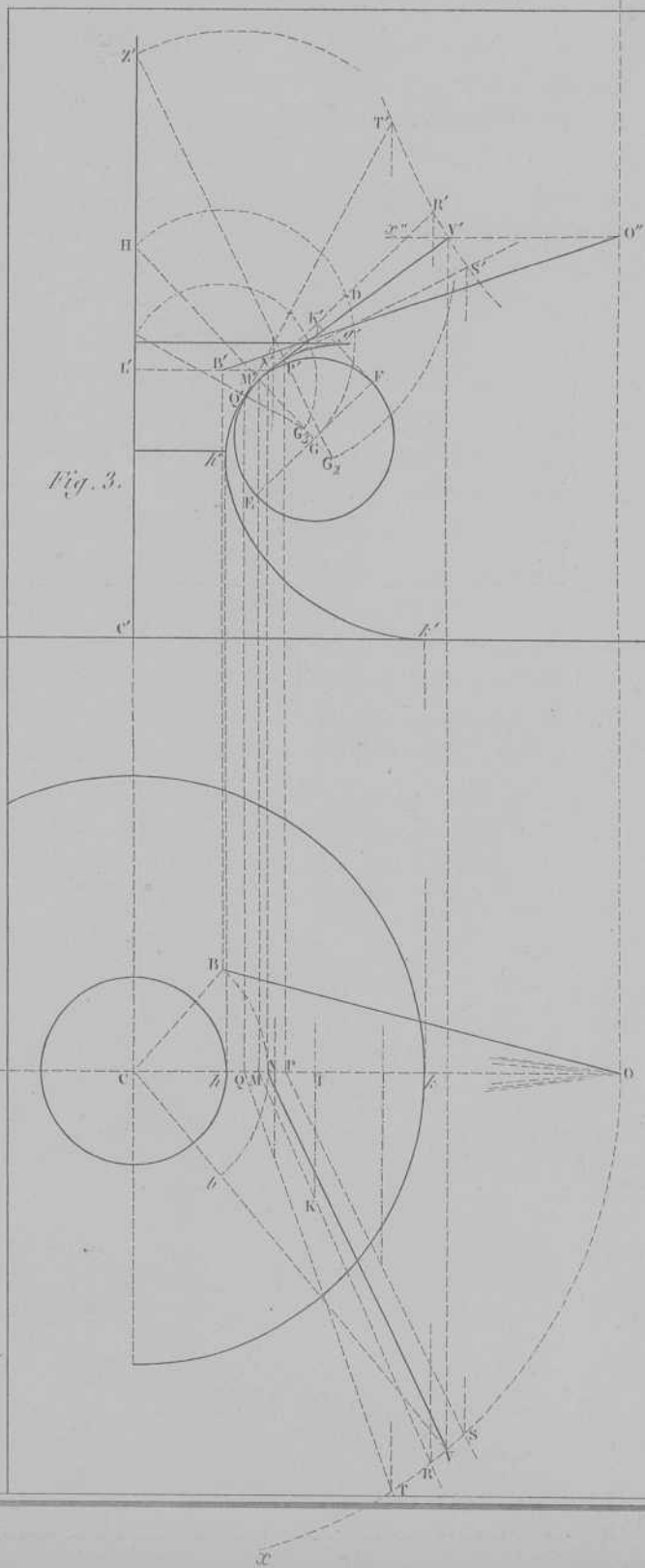
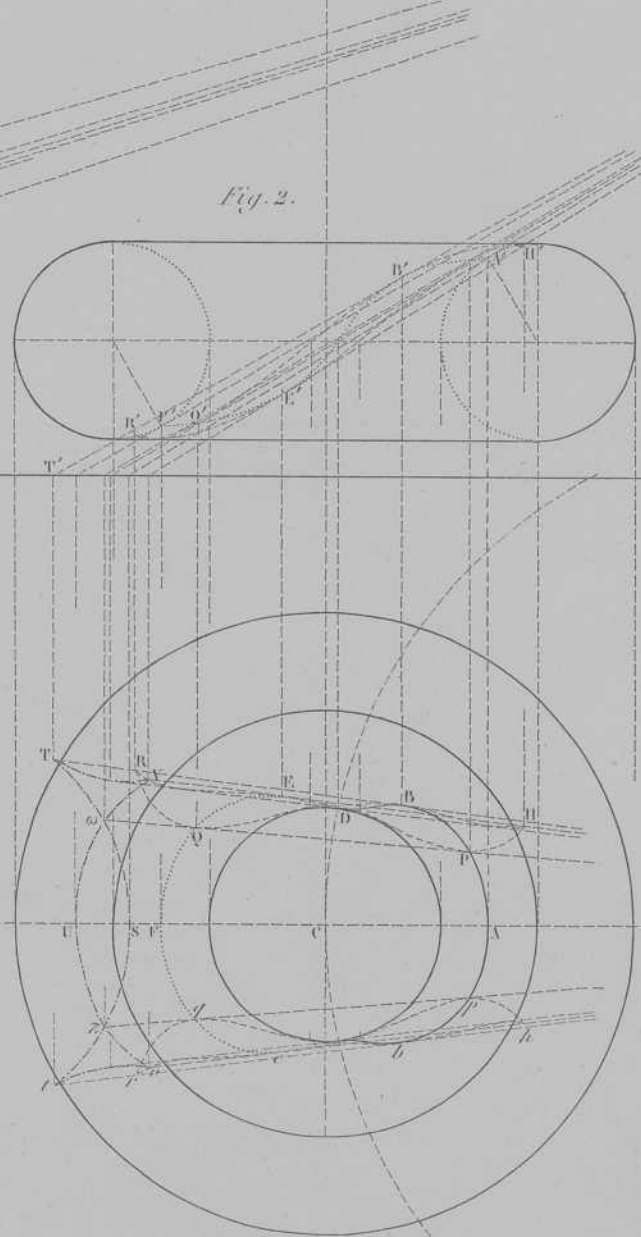
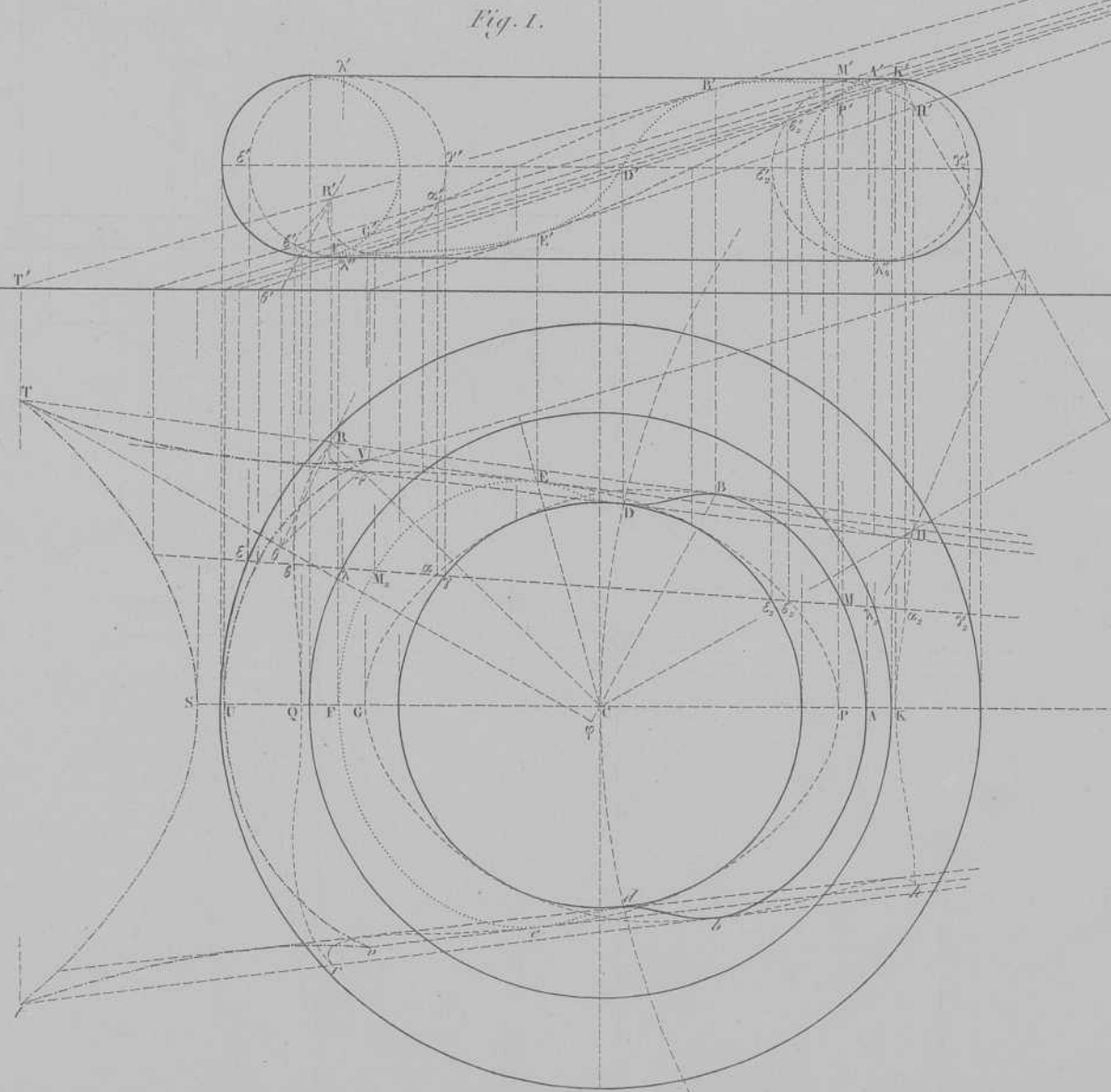
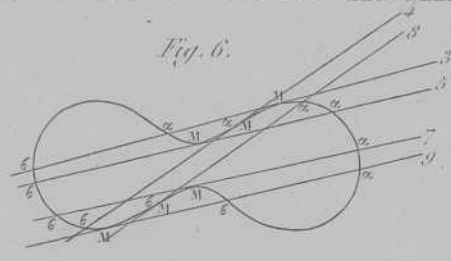
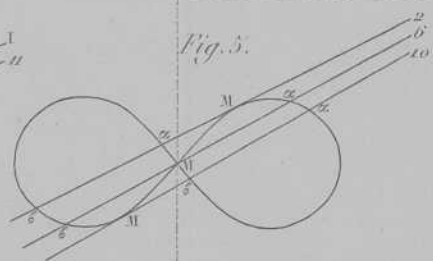
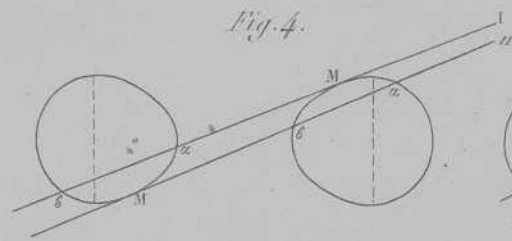


Fig. 1.

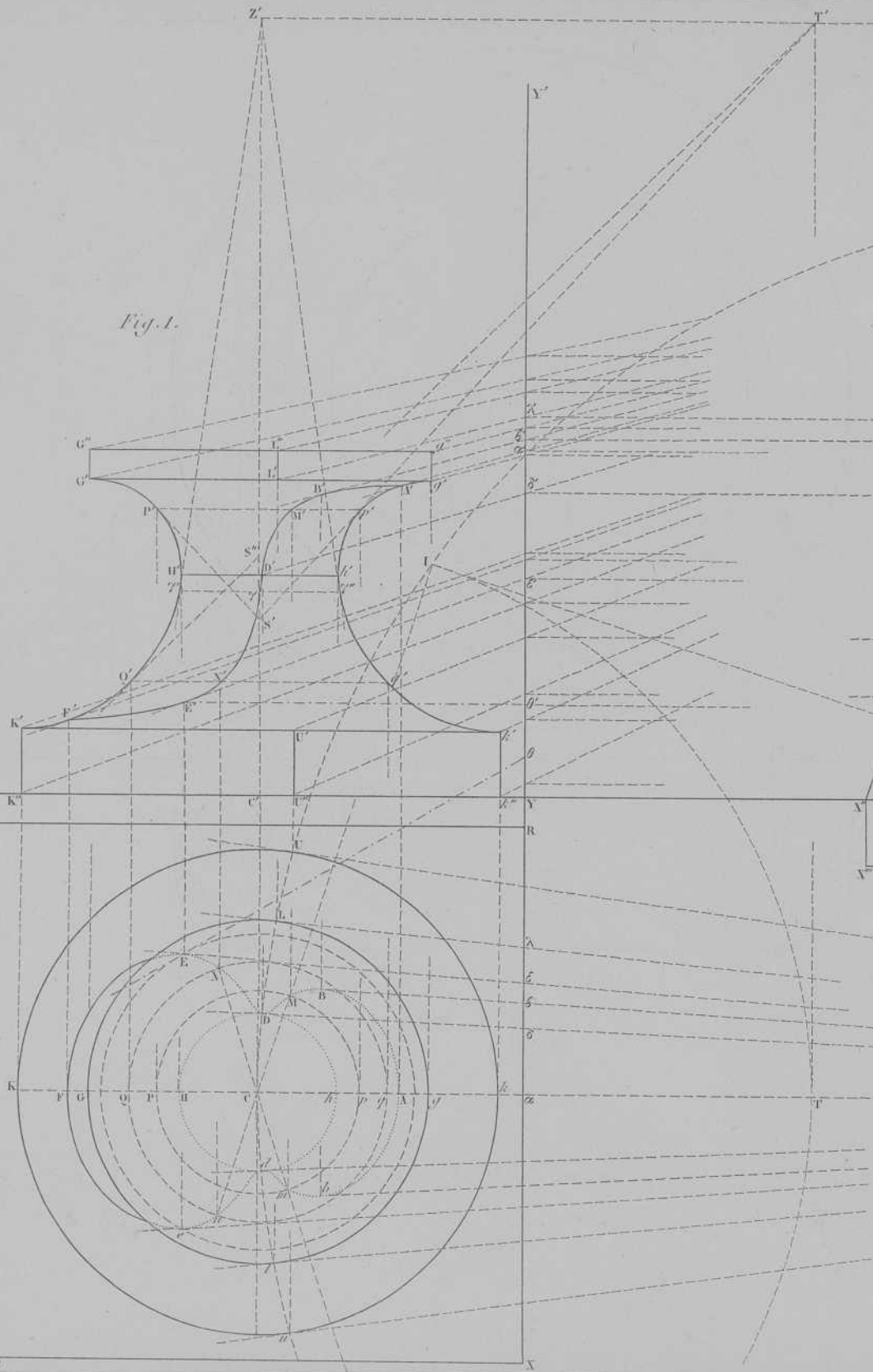


Fig. 3.

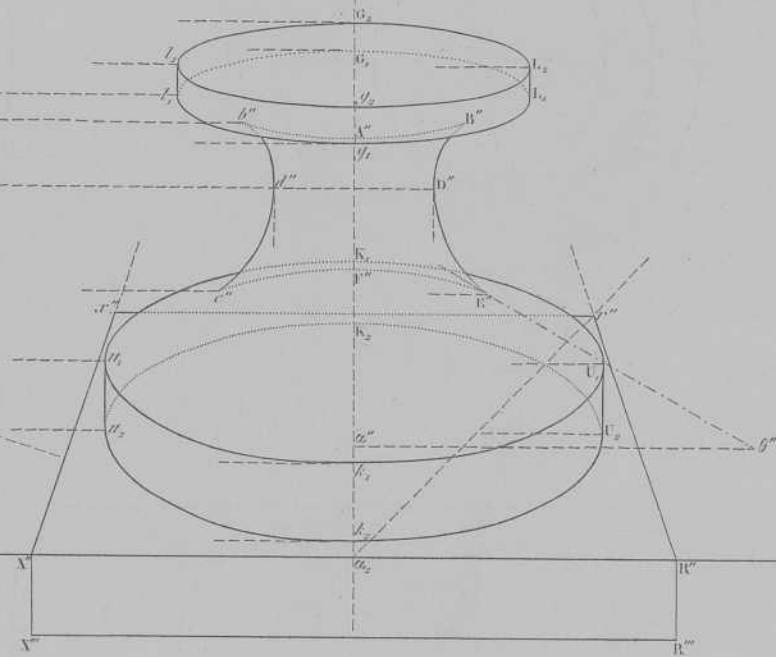
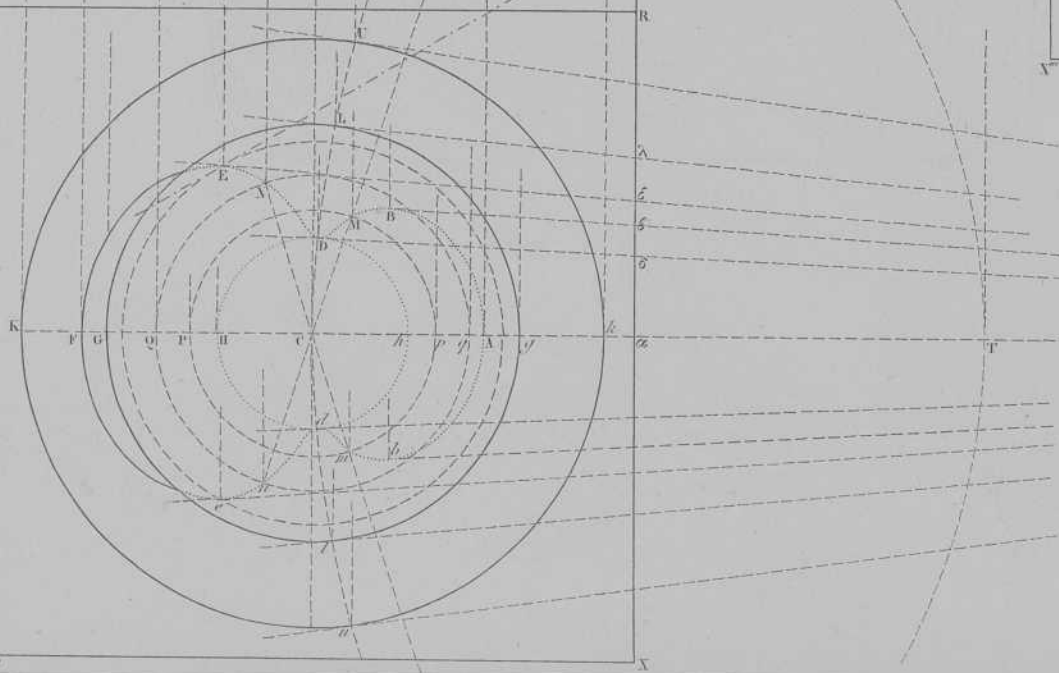
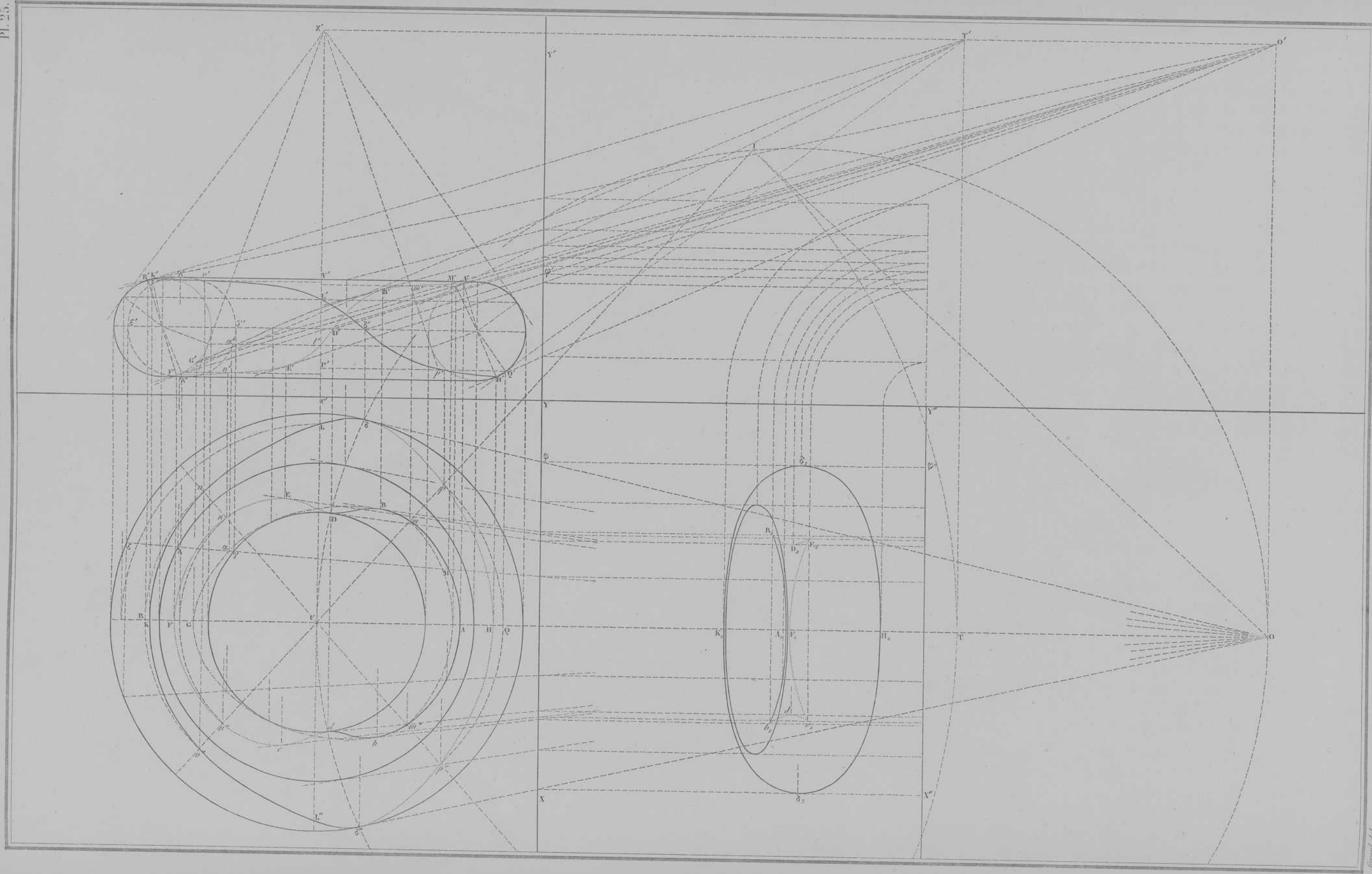
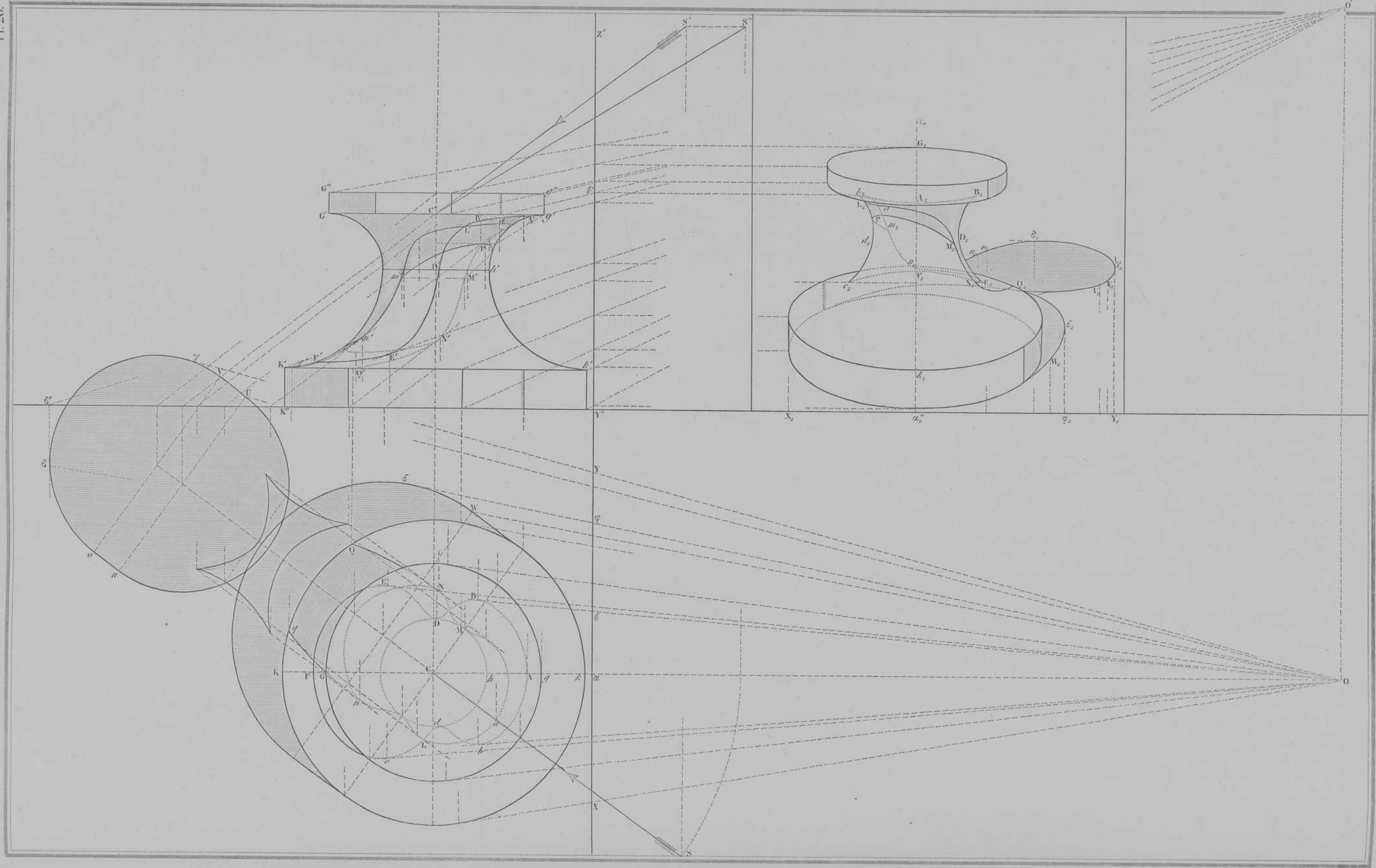


Fig. 2.







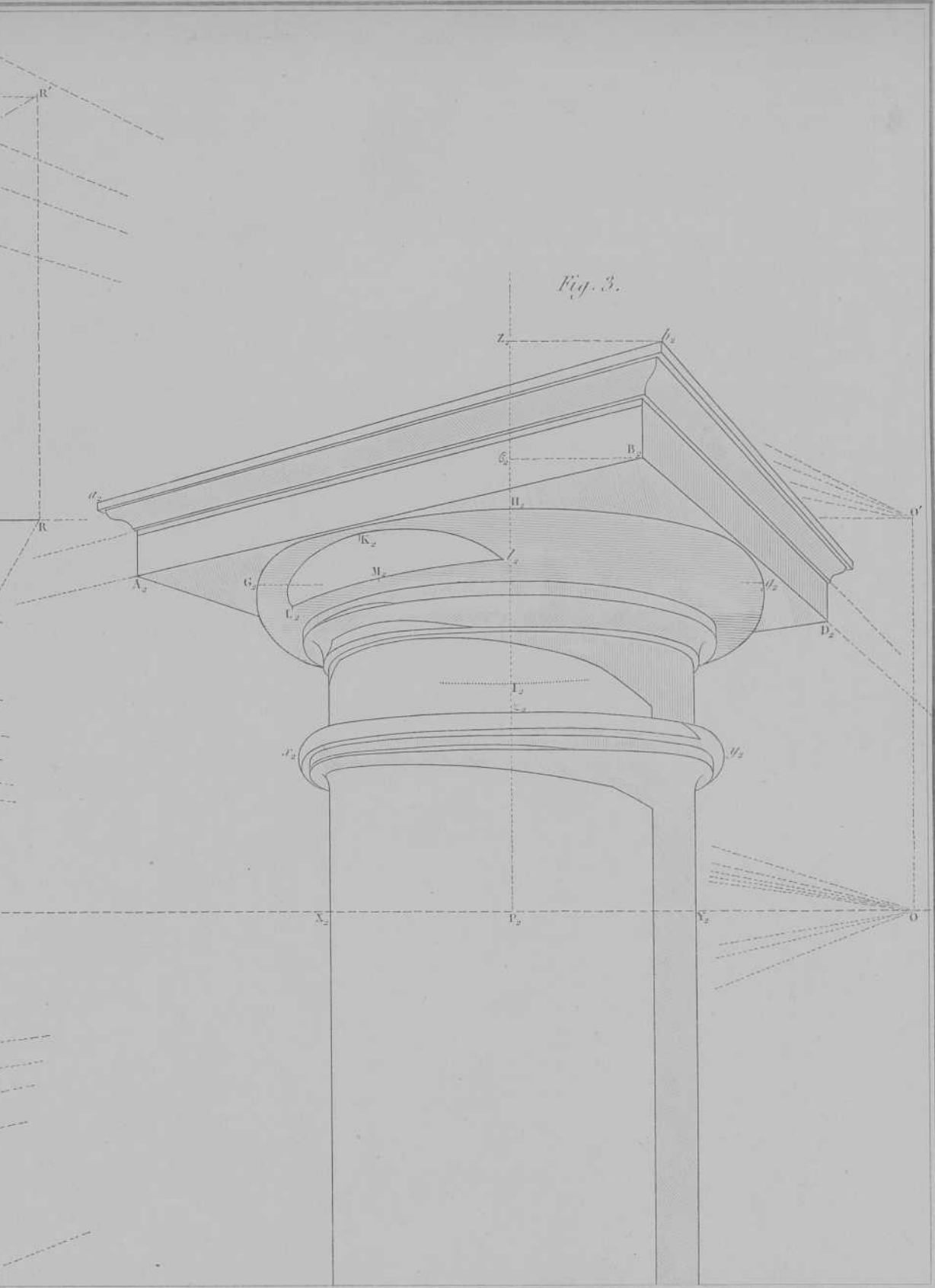
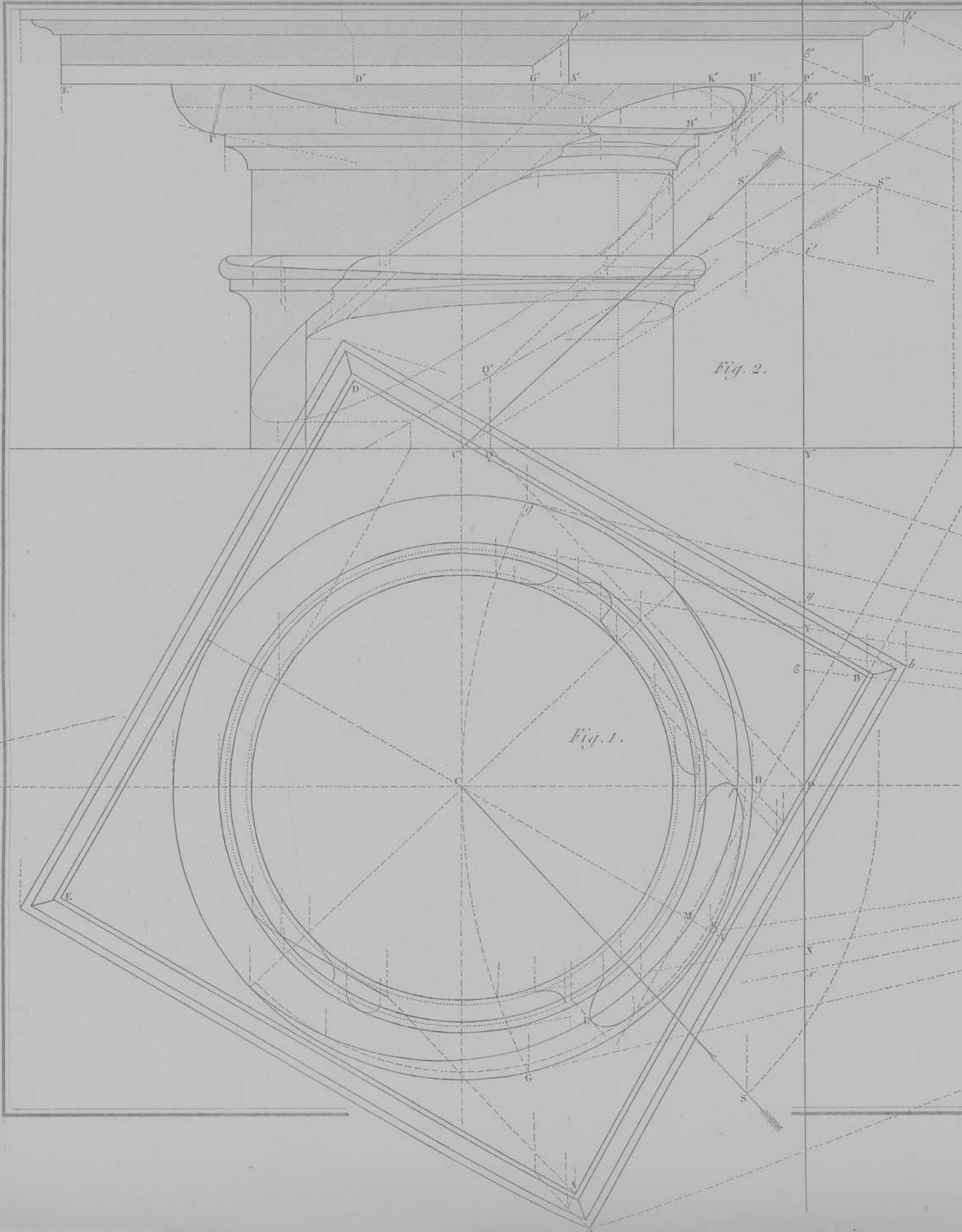


Fig. 3.

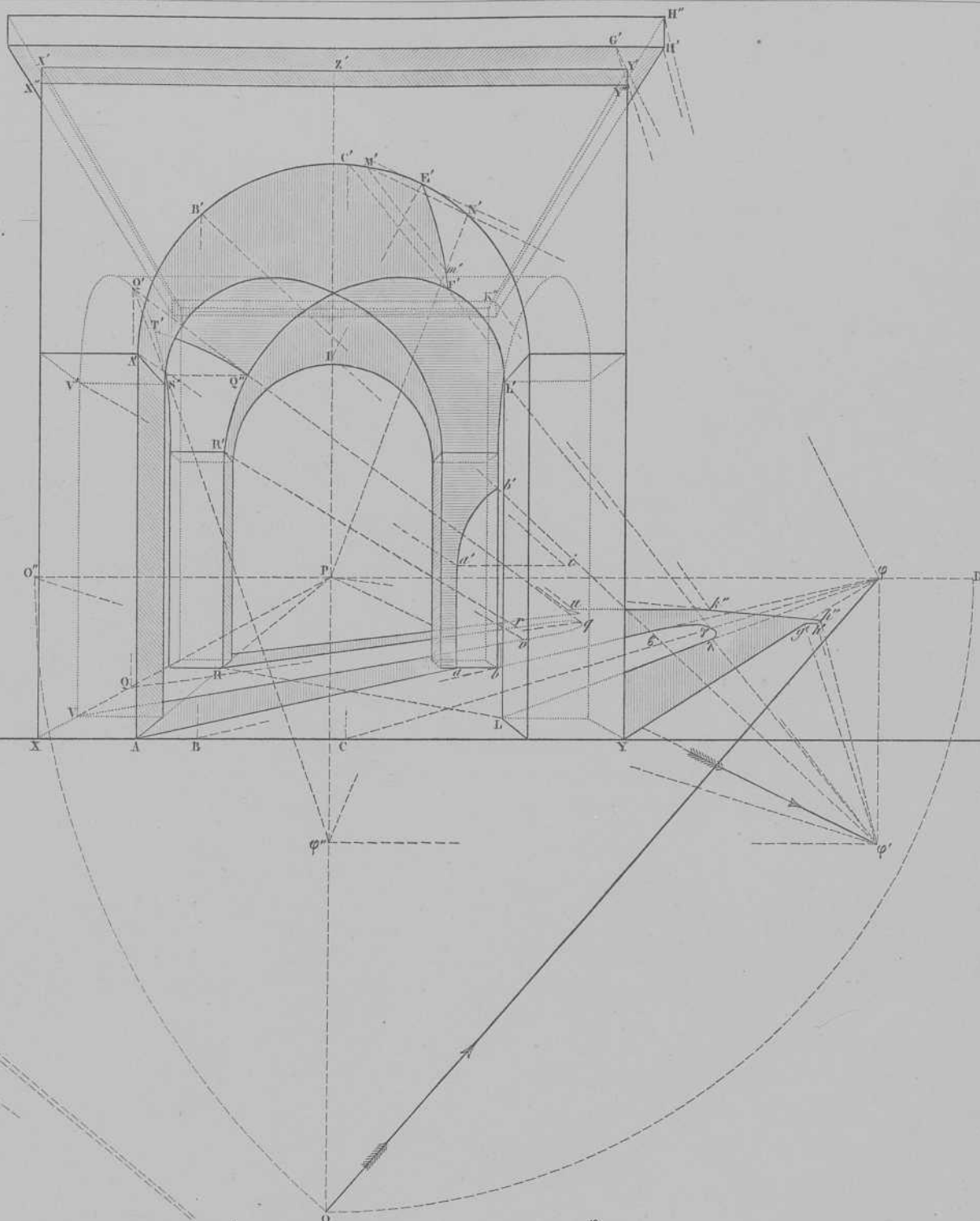


Fig. 1.

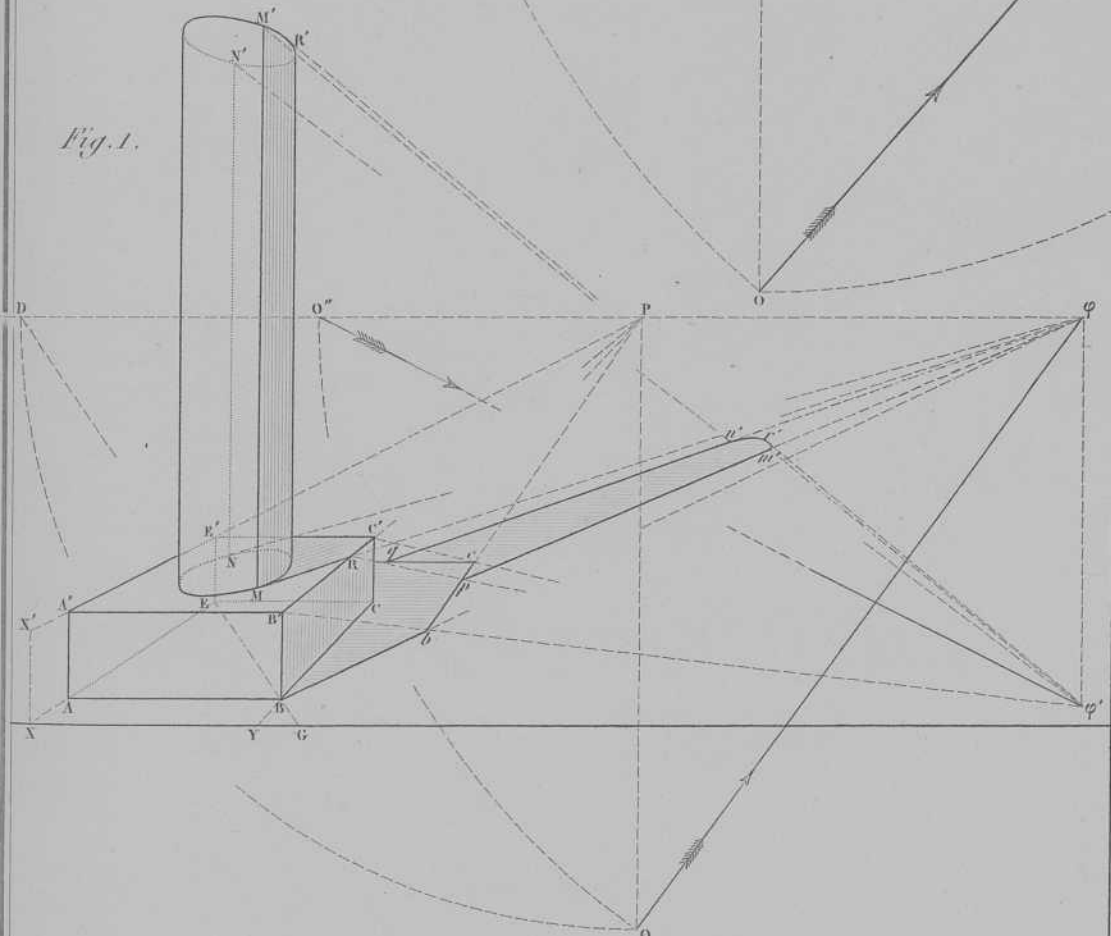
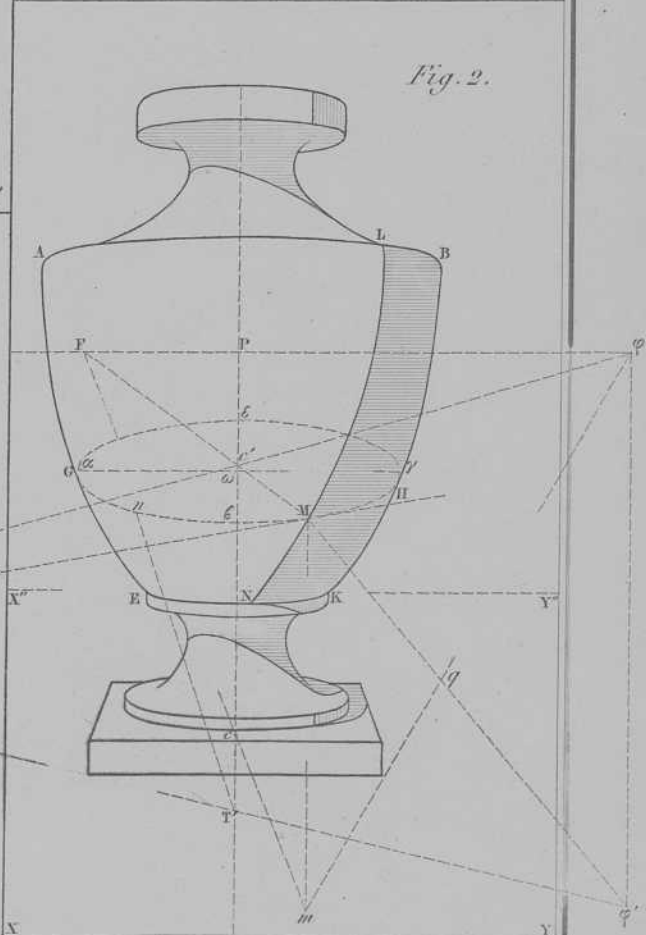
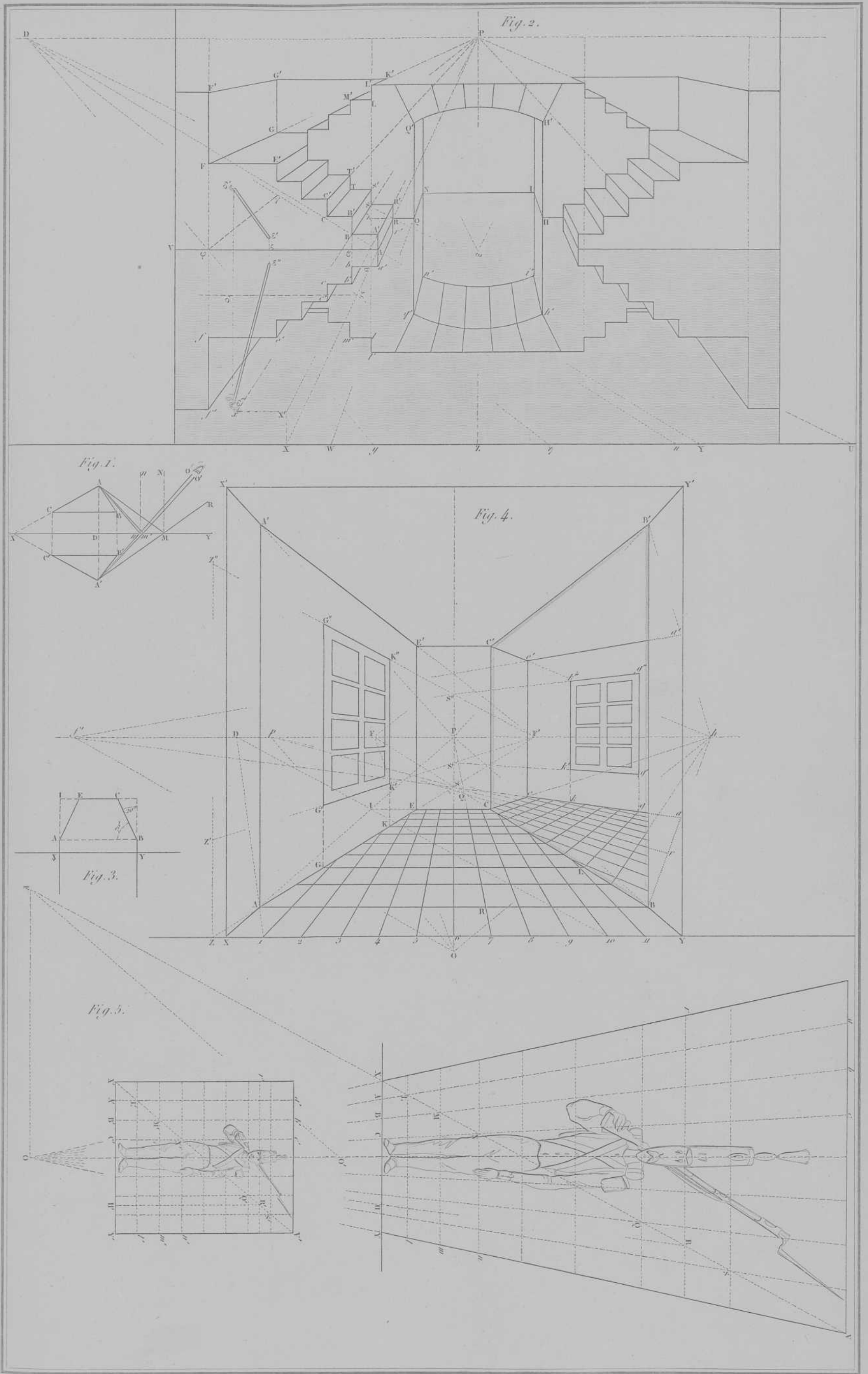
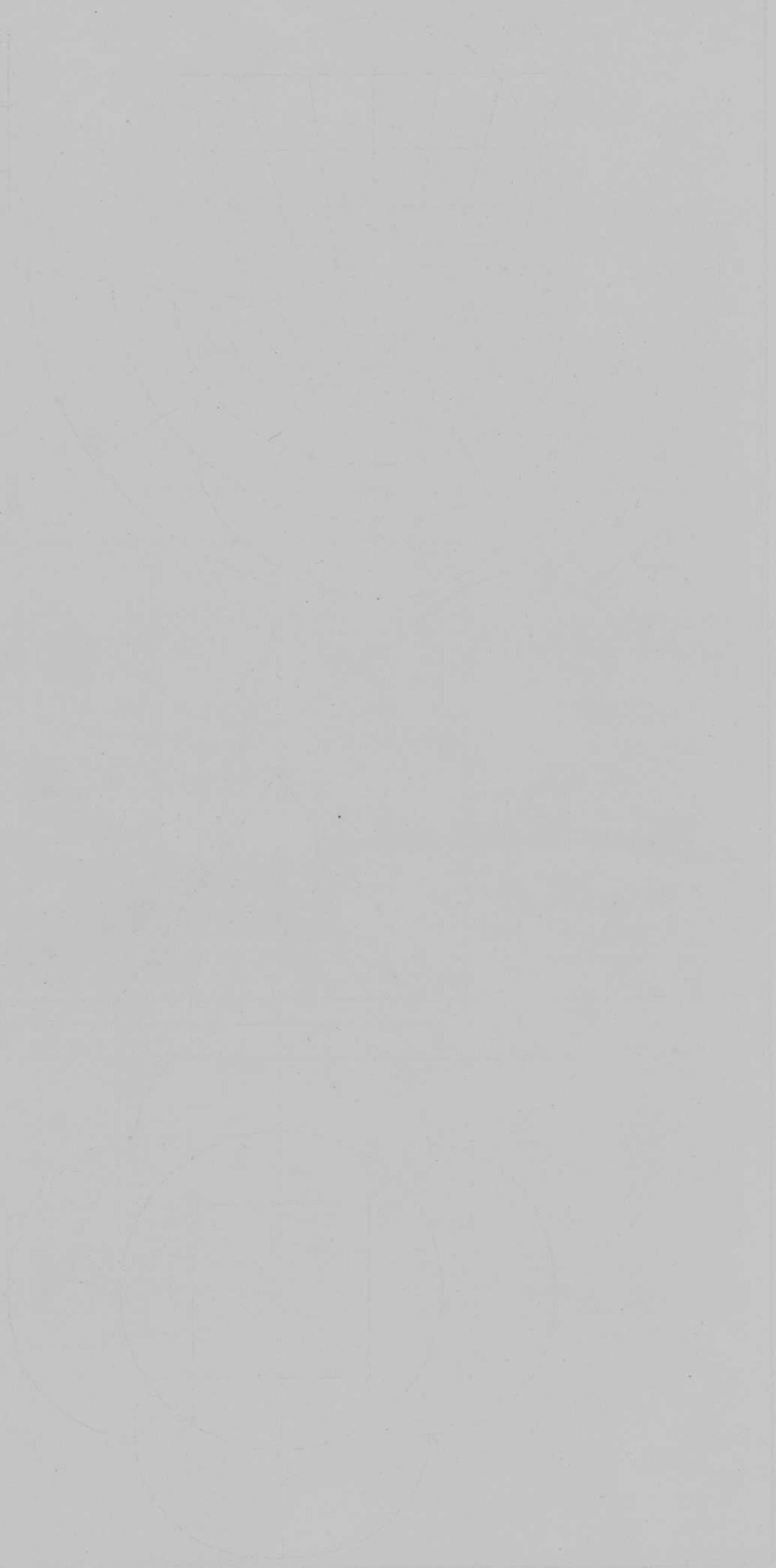
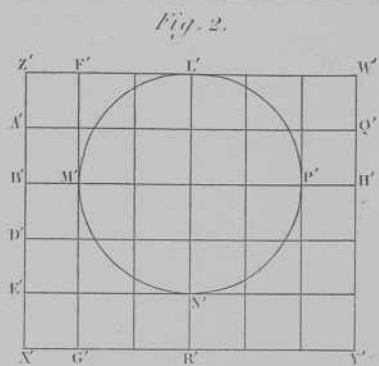
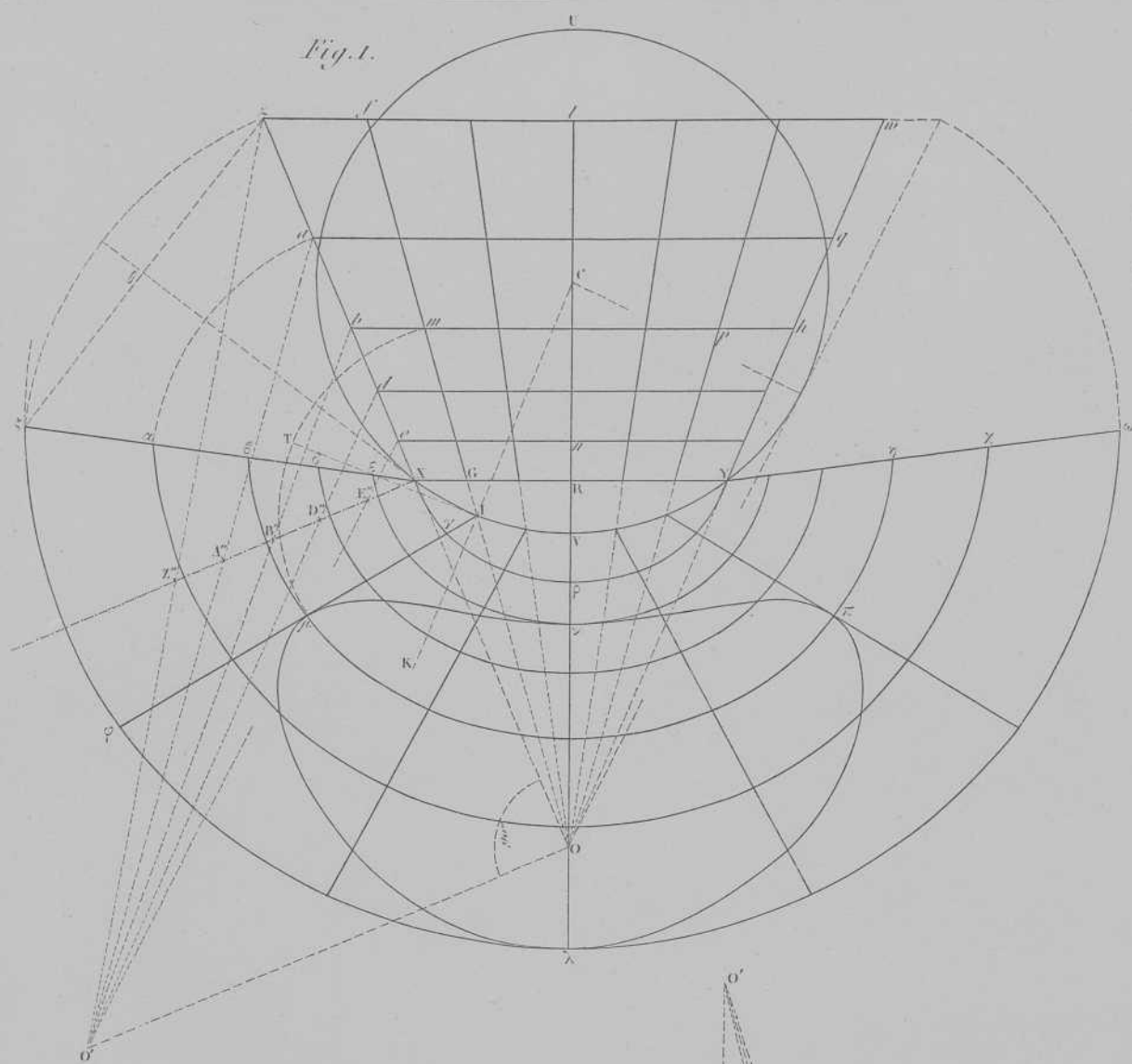


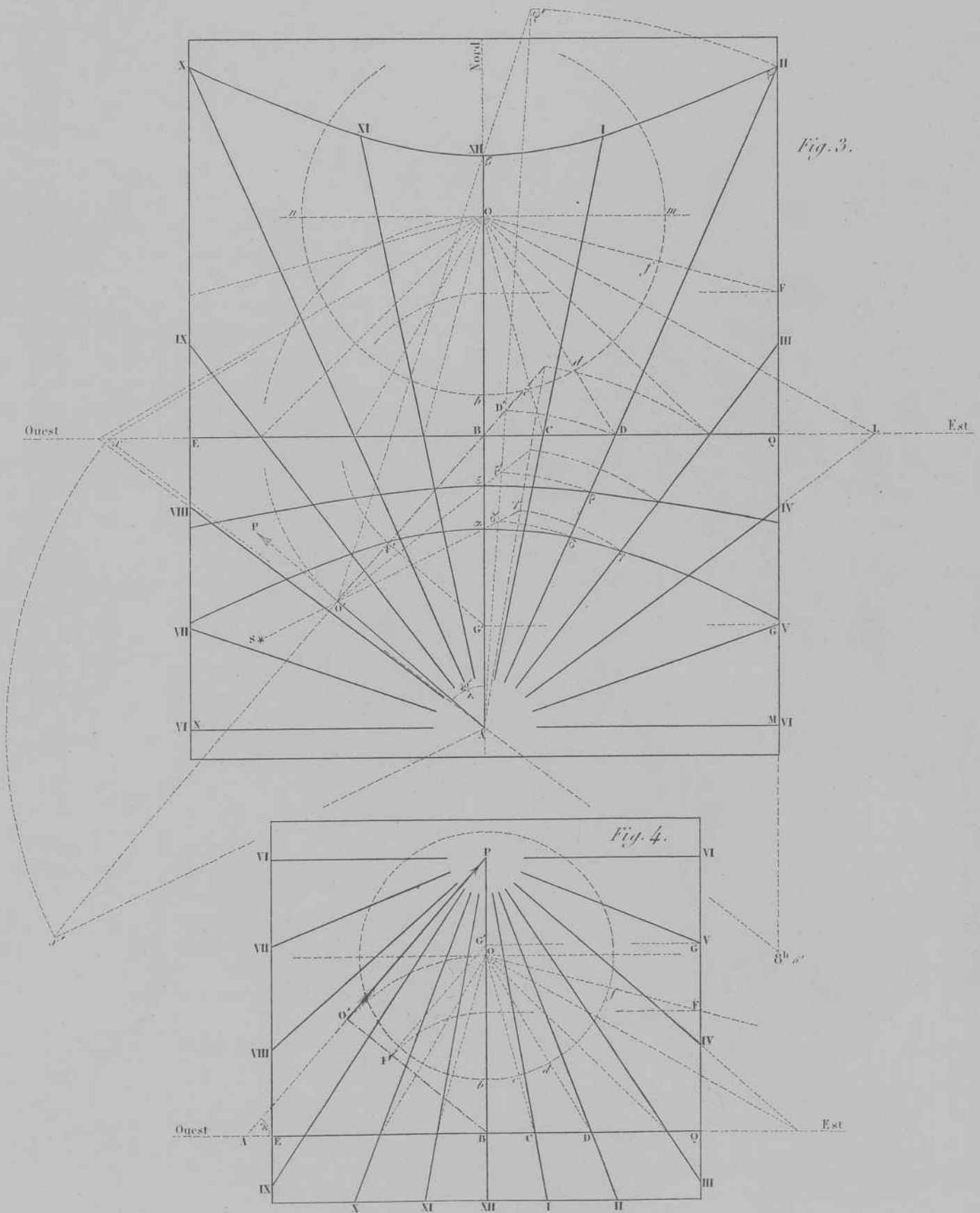
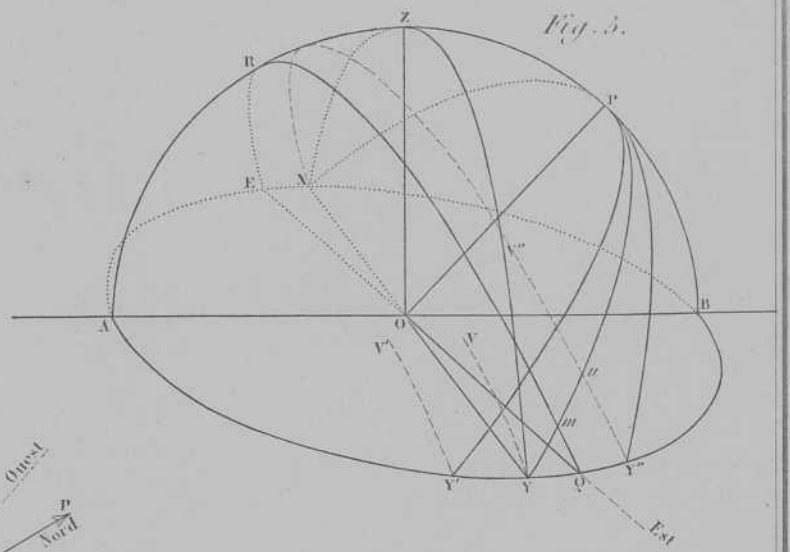
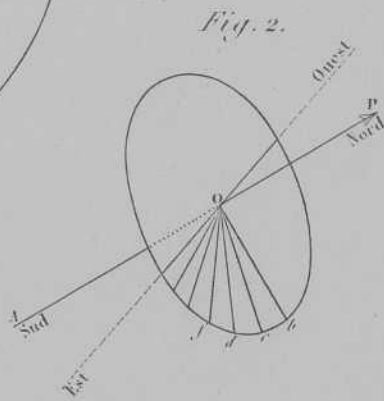
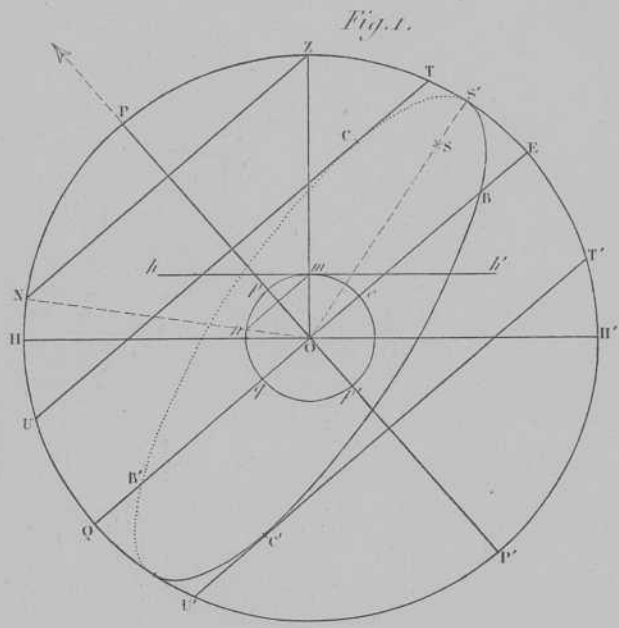
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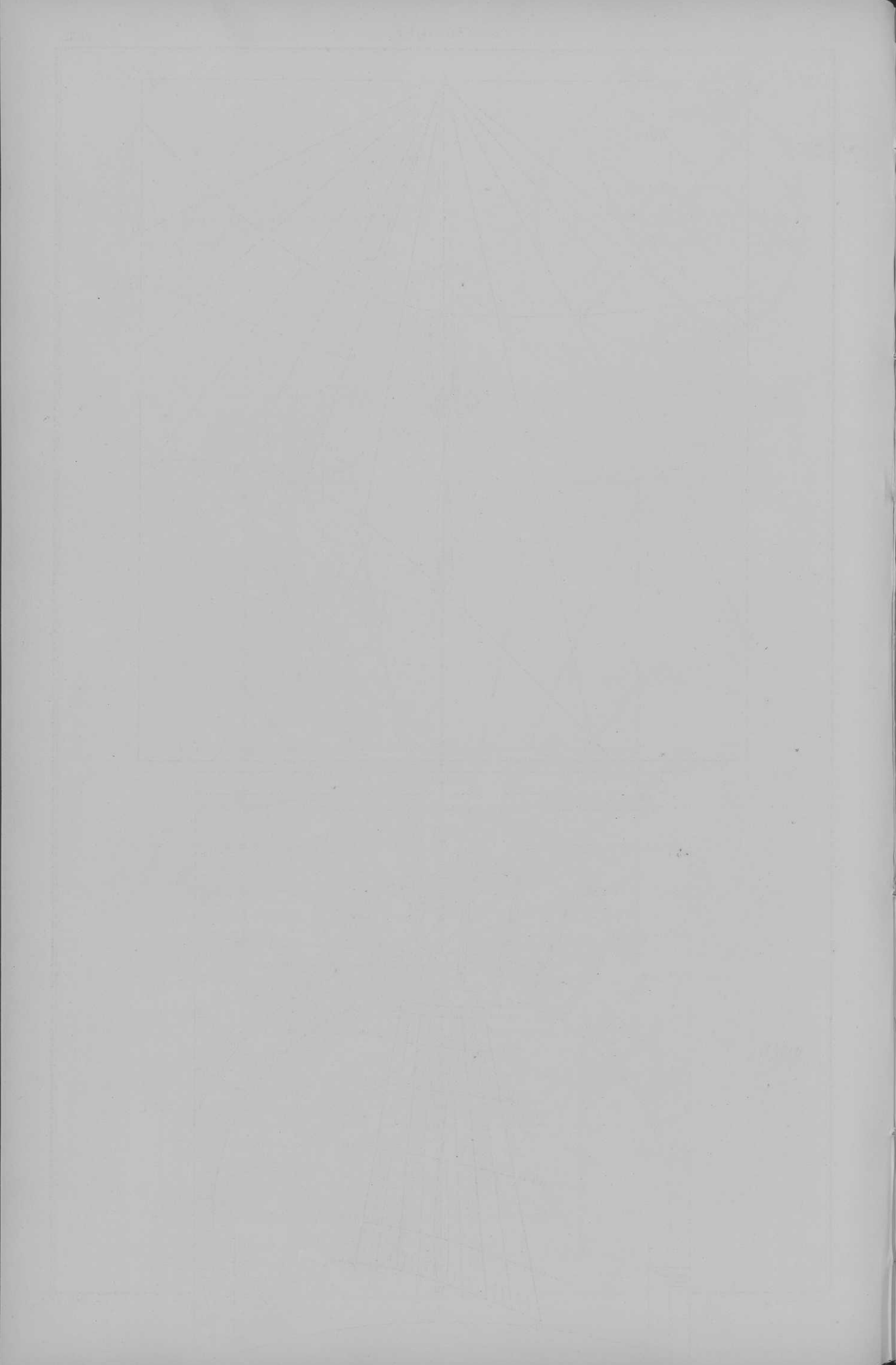


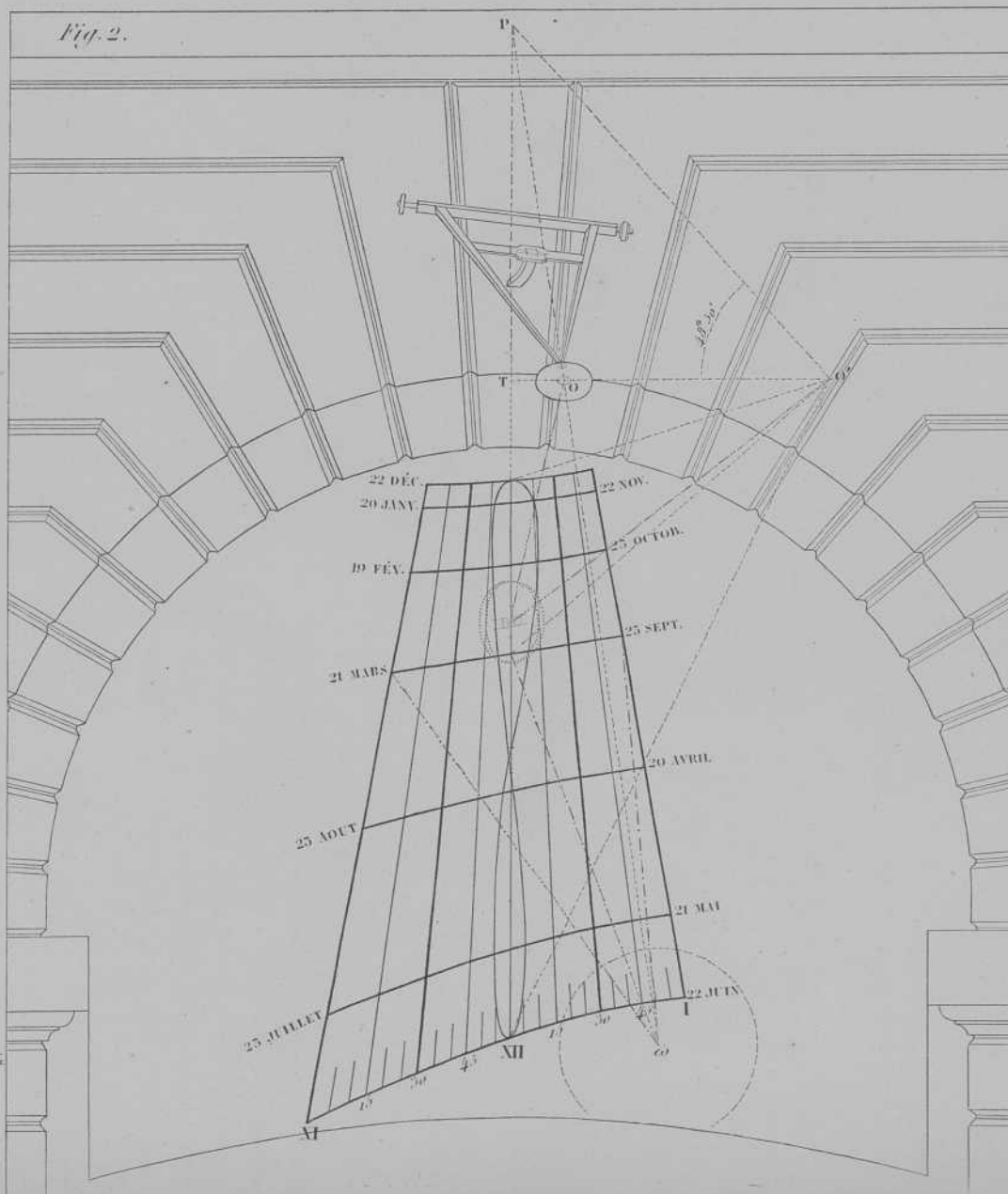
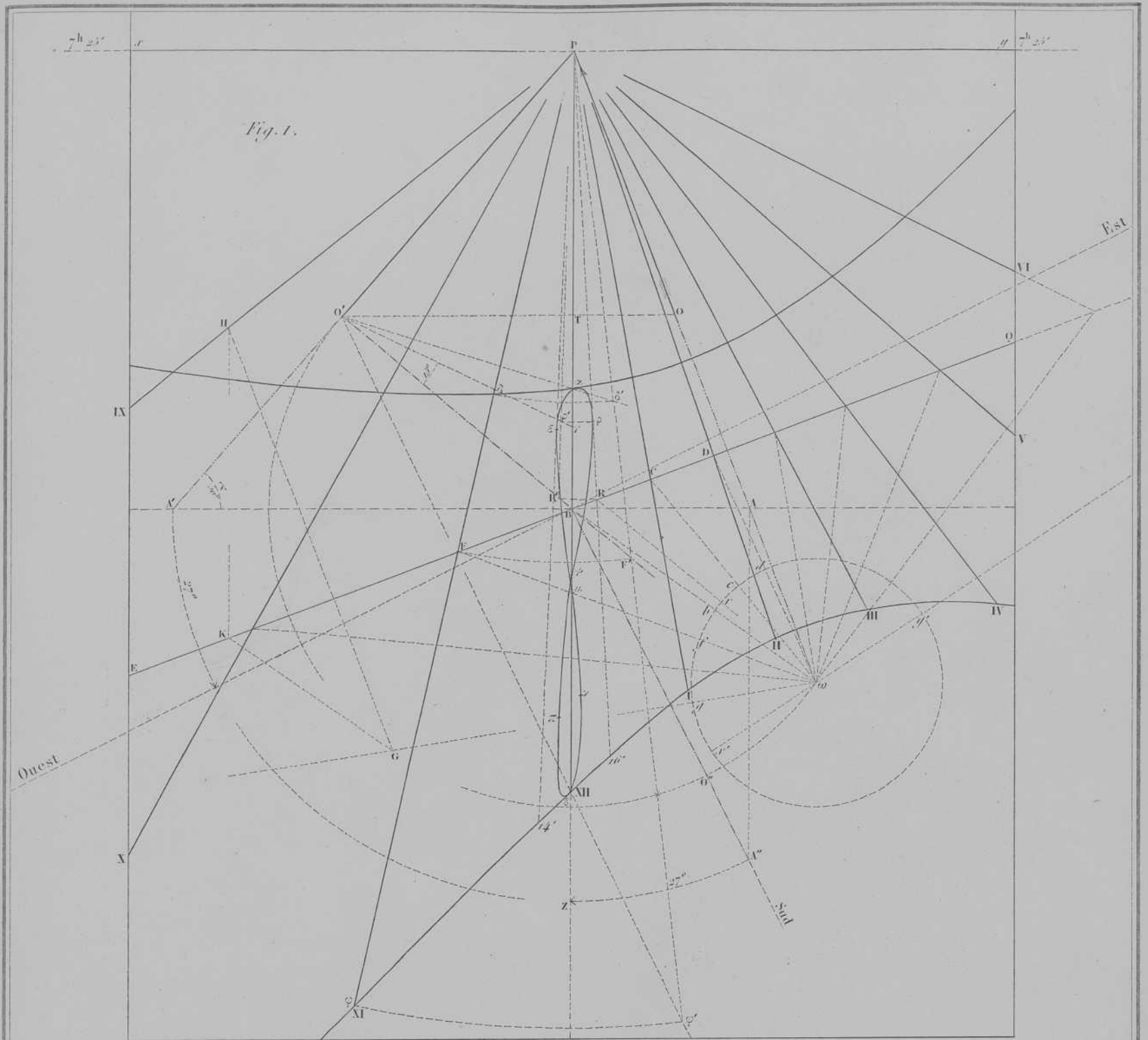












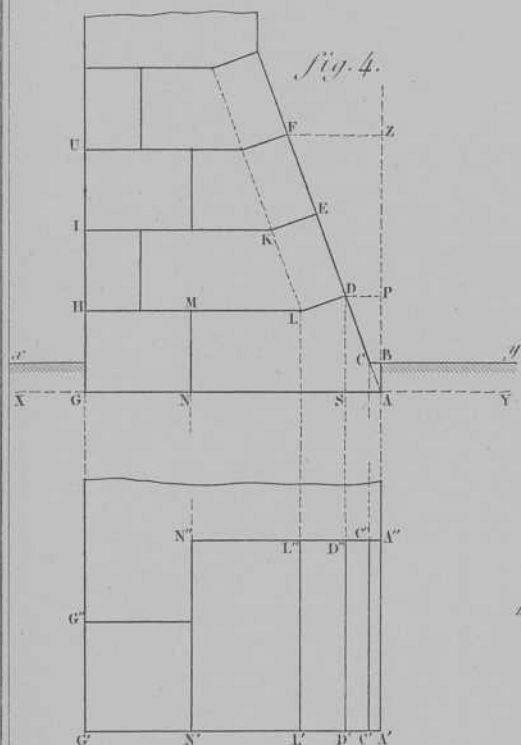
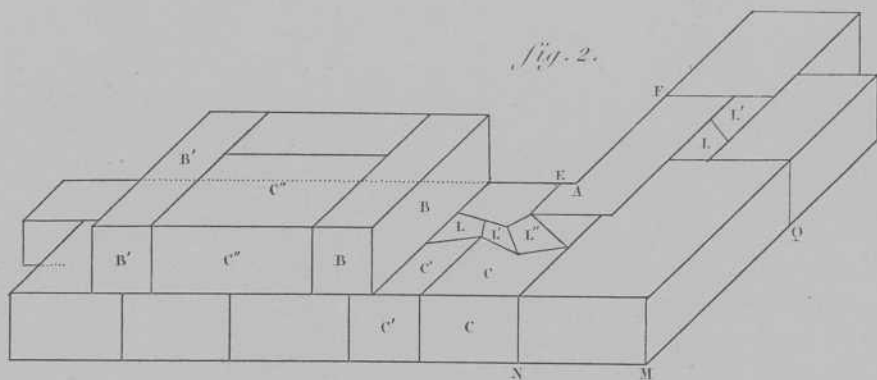
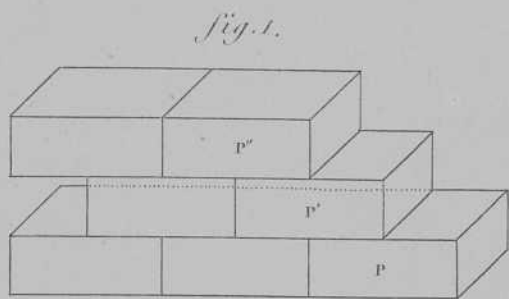
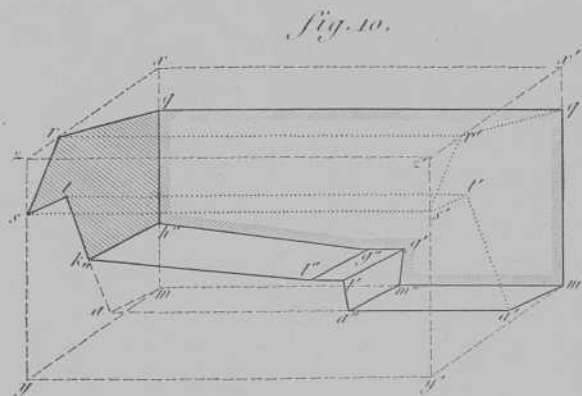
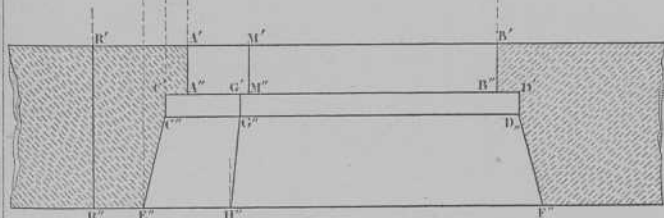
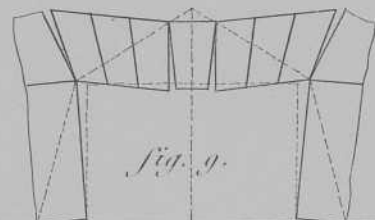
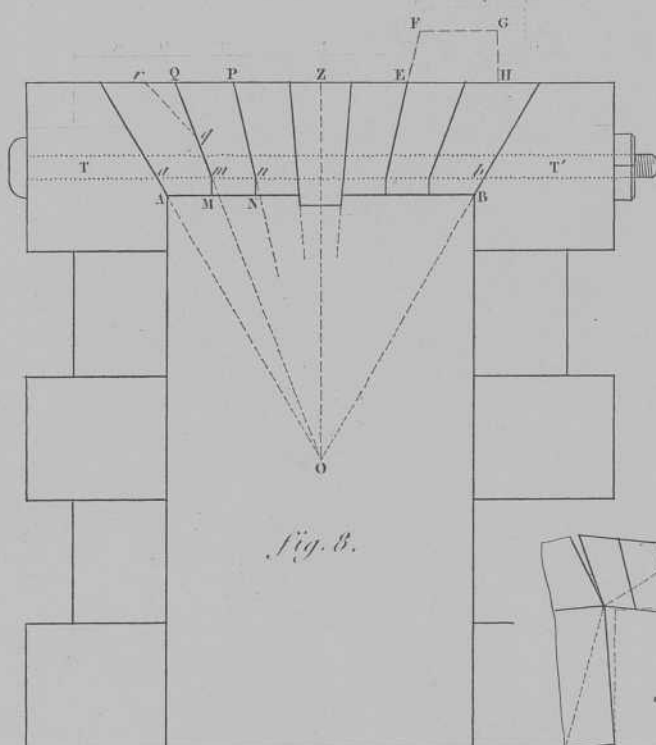
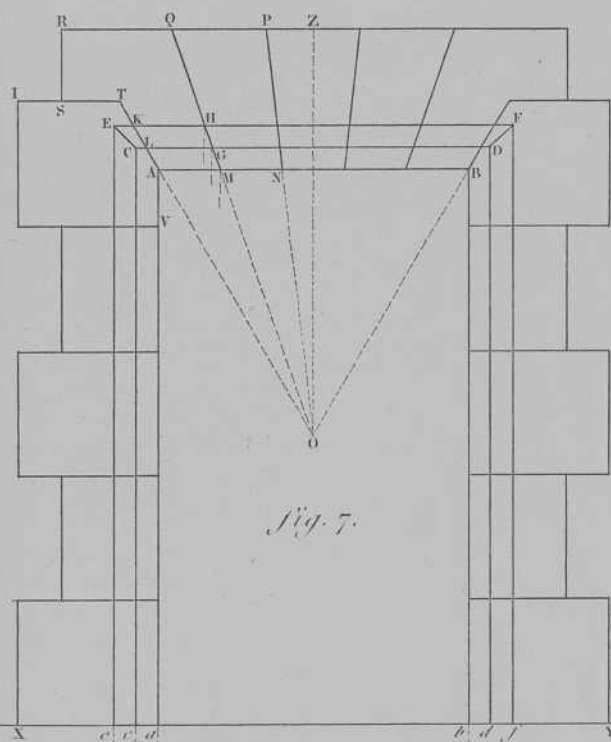
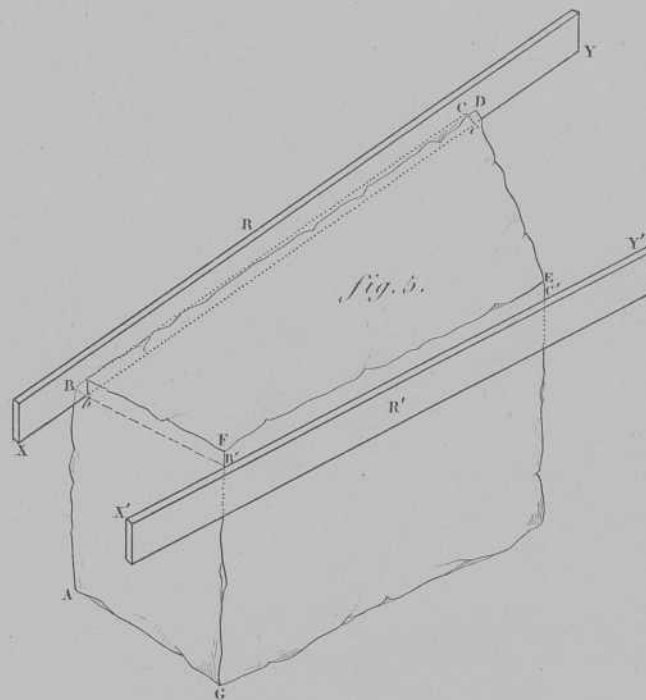
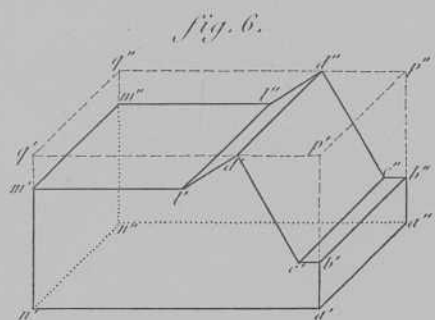


Fig. 3. *Signes qui indiquent*

le lit de pose.....	
le lit de dessous.....	
le parement.....	



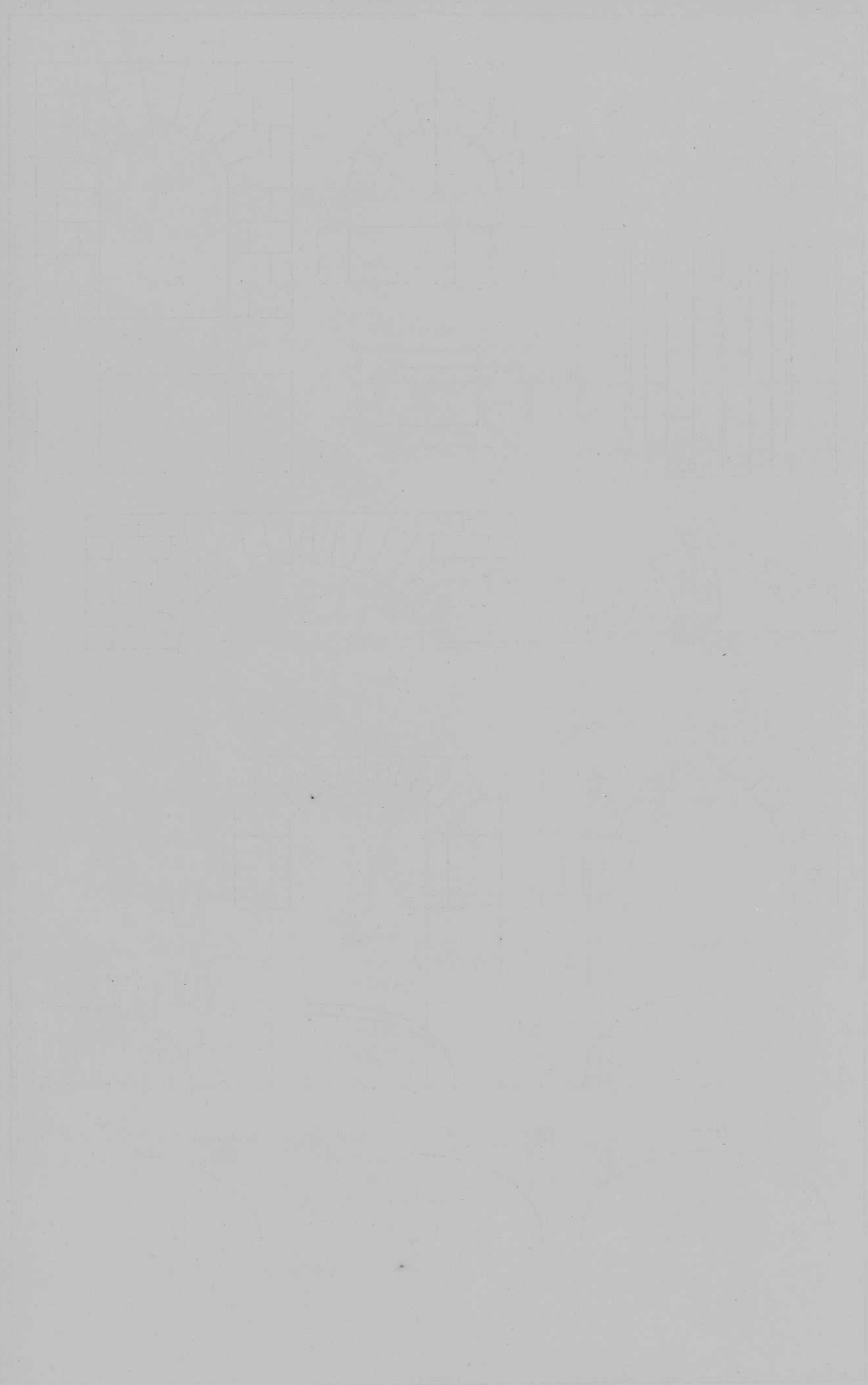


Fig. 1.

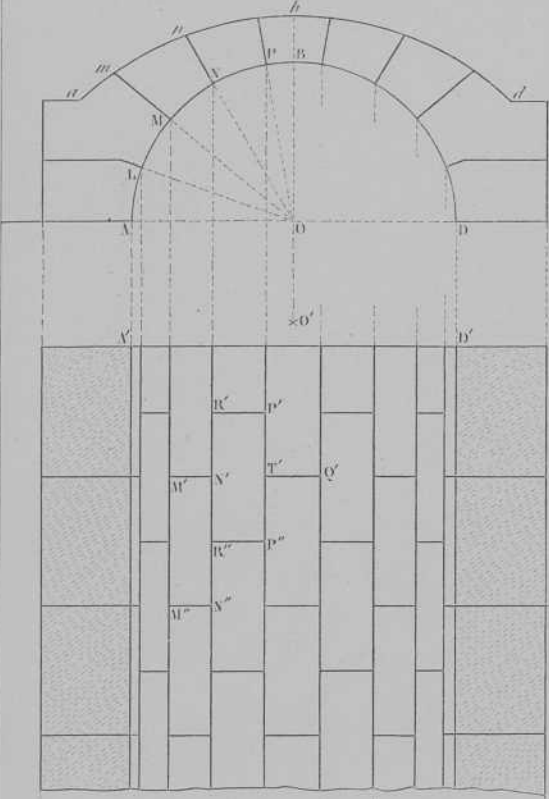


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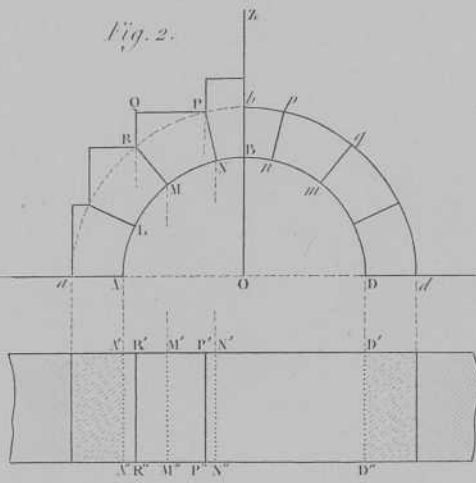


Fig. 3.

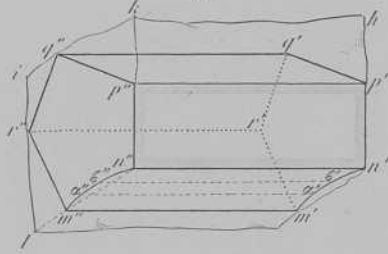


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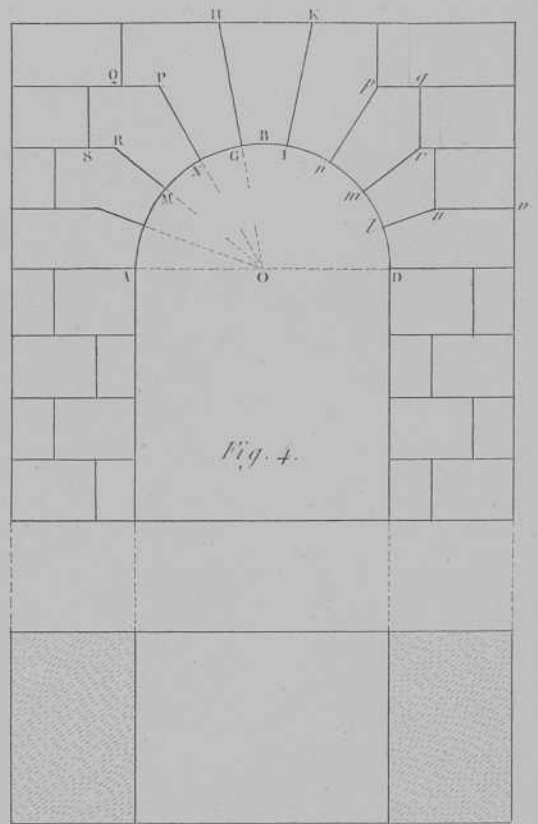


Fig. 5.

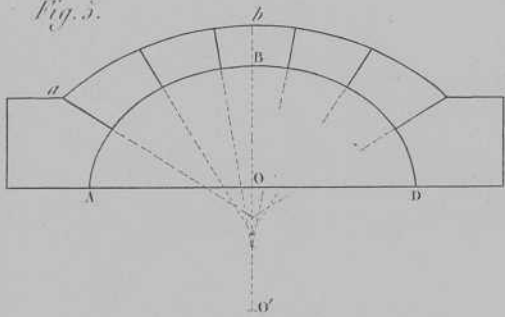


Fig. 6.

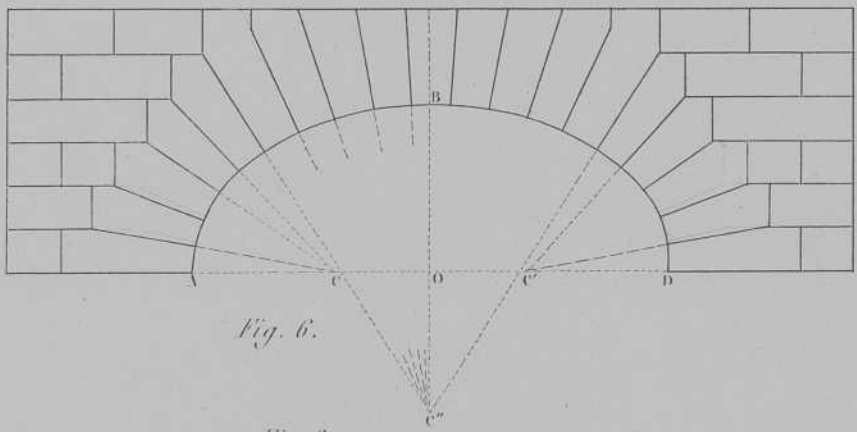


Fig. 8.

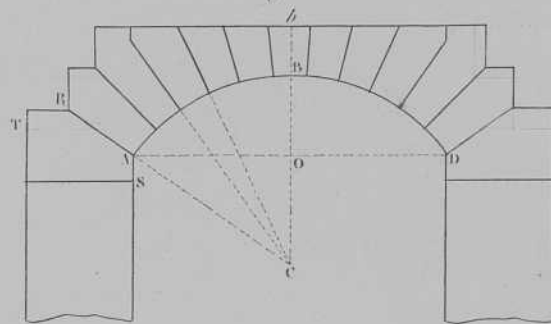


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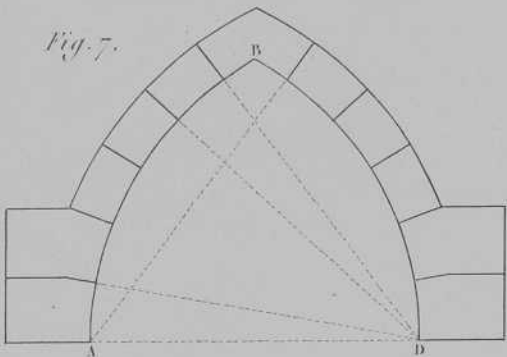


Fig. 9.

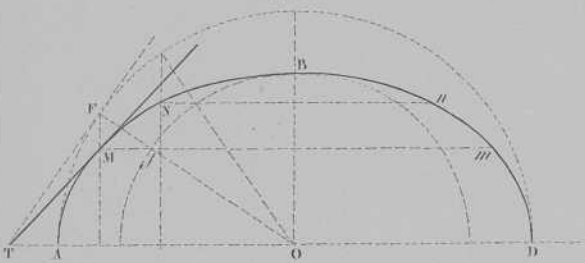


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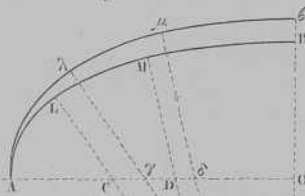


Fig. 14.

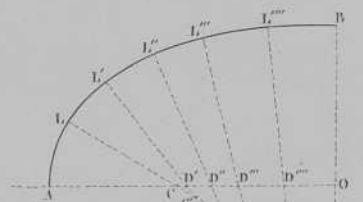


Fig. 10.

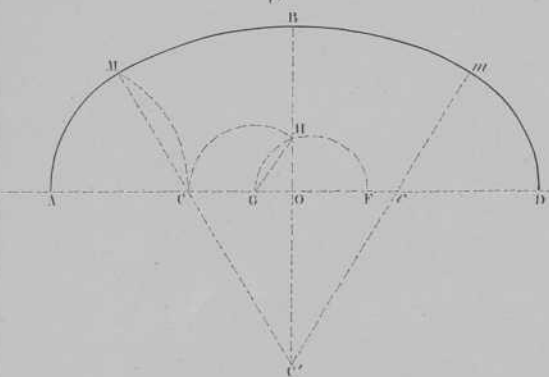


Fig. 11.

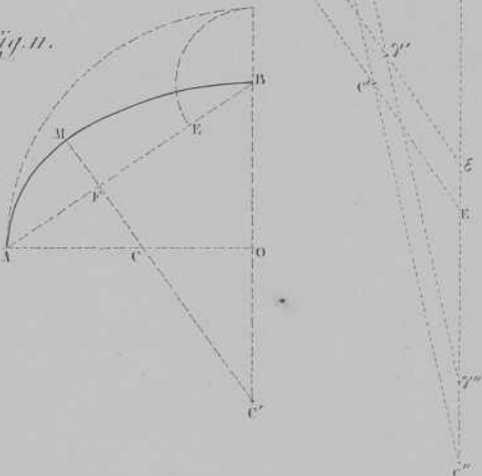
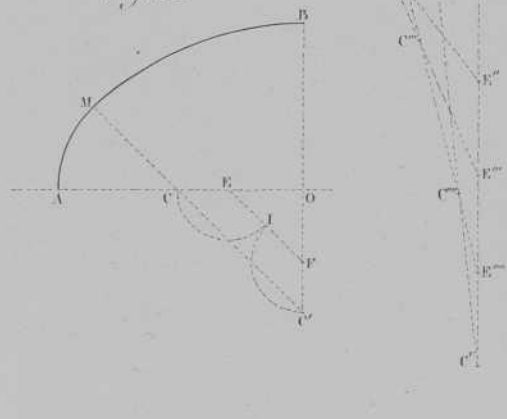


Fig. 12.



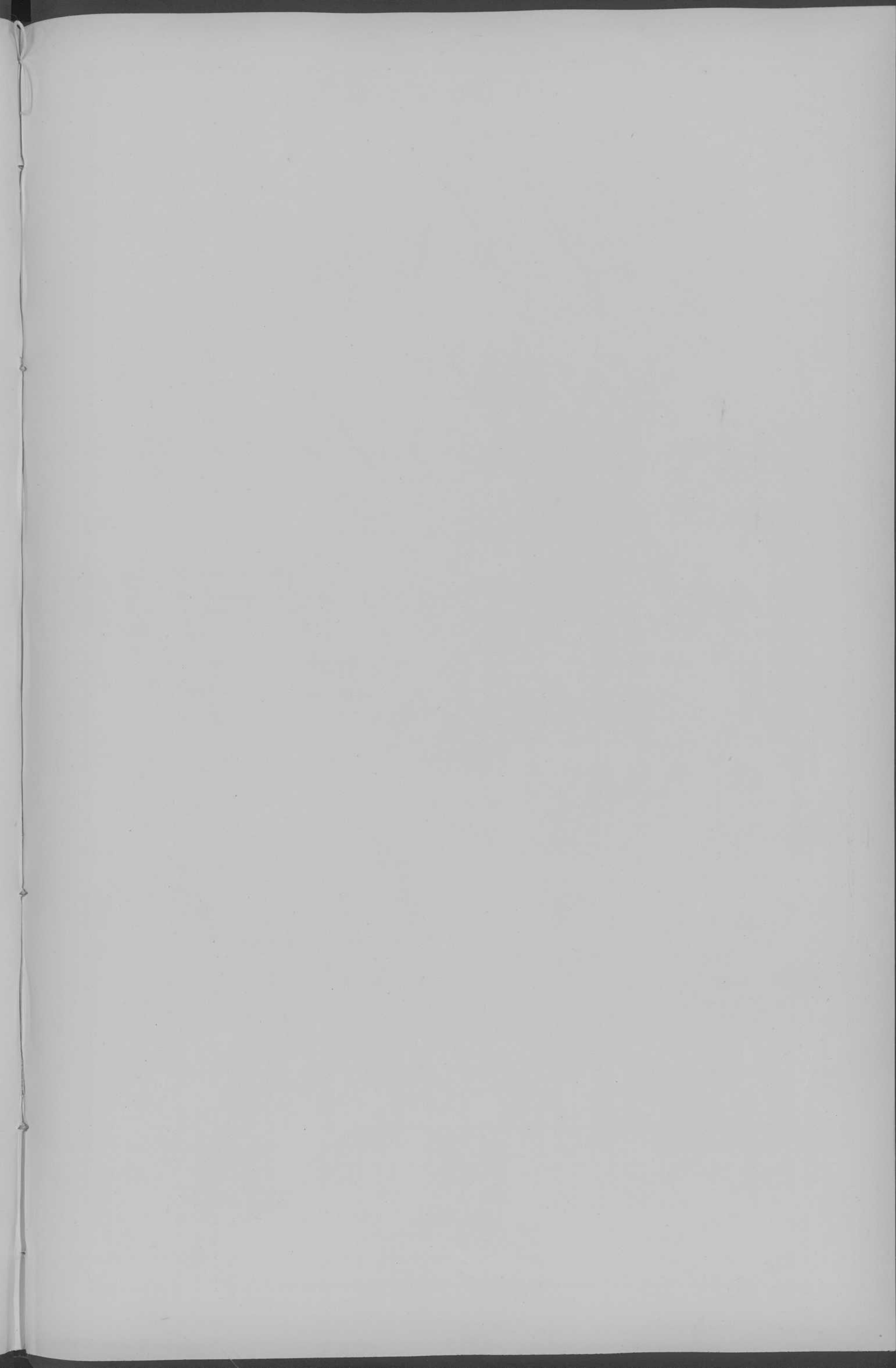


Fig. 1.

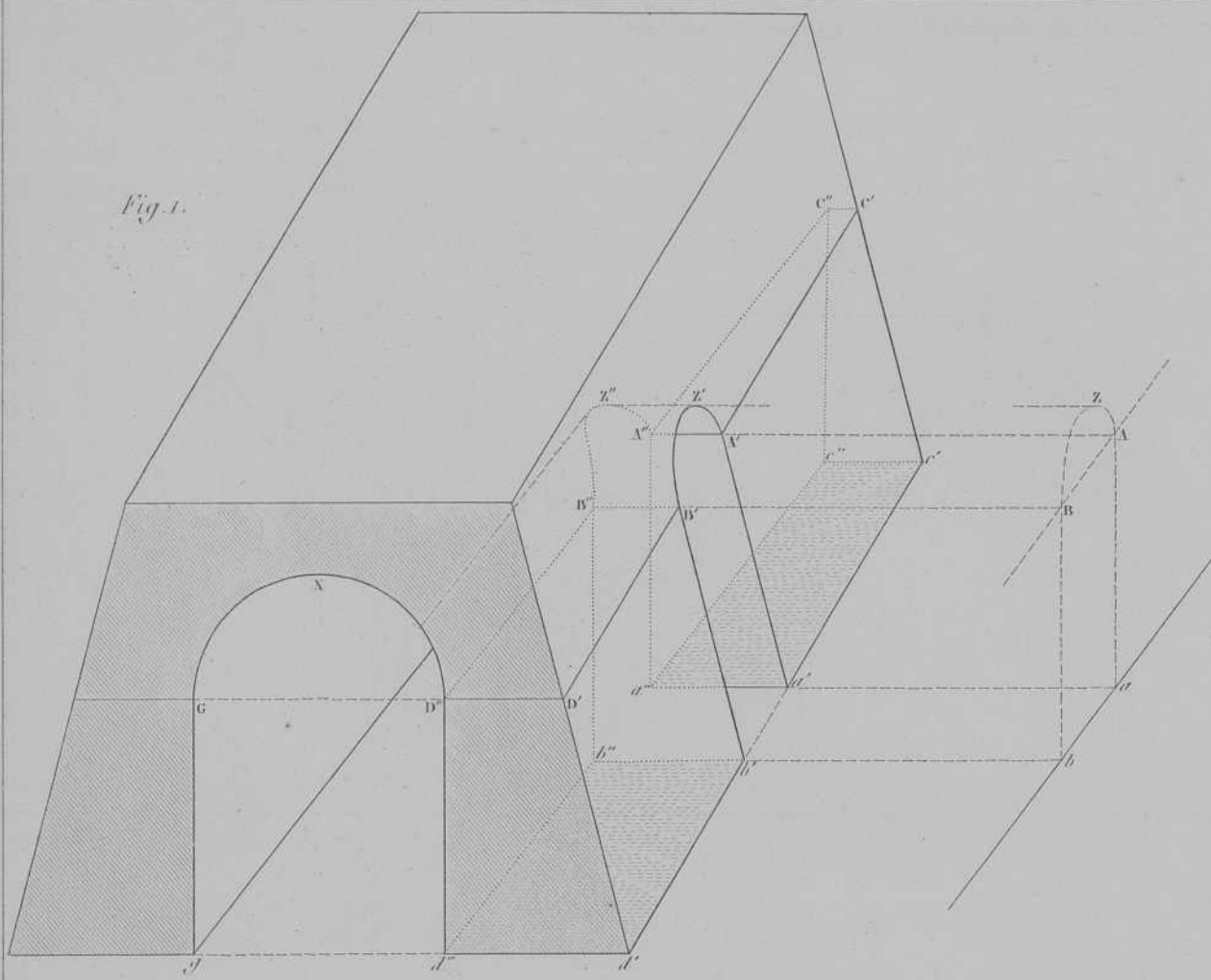


Fig. 6.



Cercles.



Fig. 7.

Fig. 8.



Fig. 9.



Fig. 4.

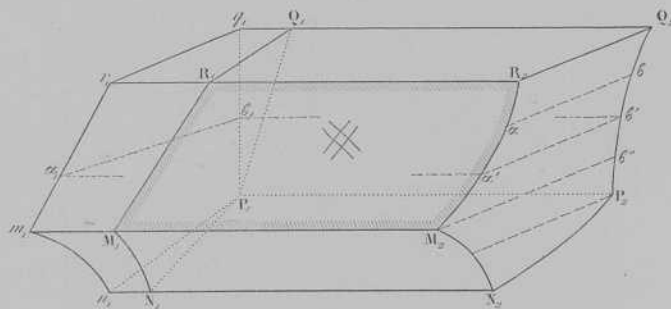


Fig. 10.

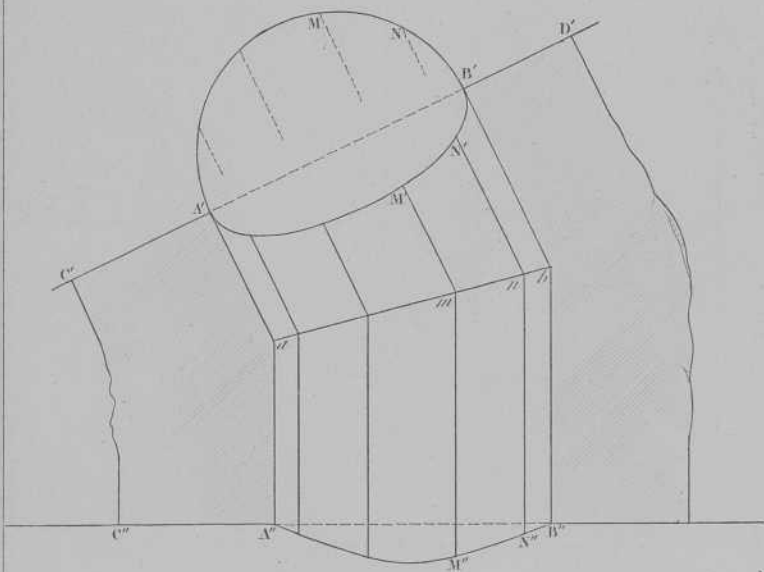


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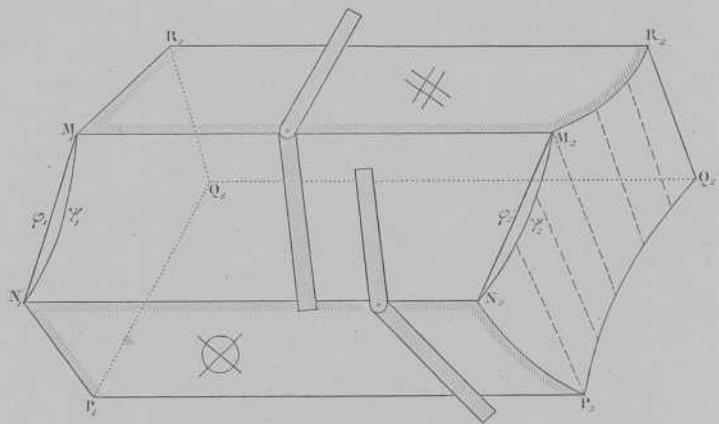


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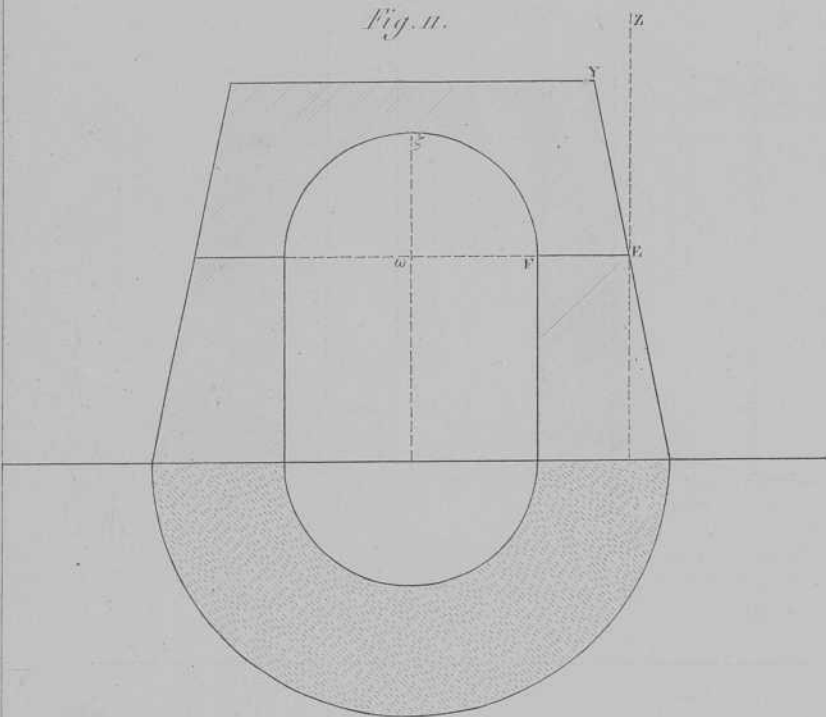
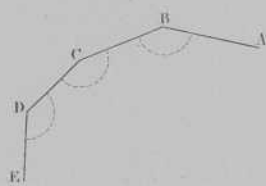
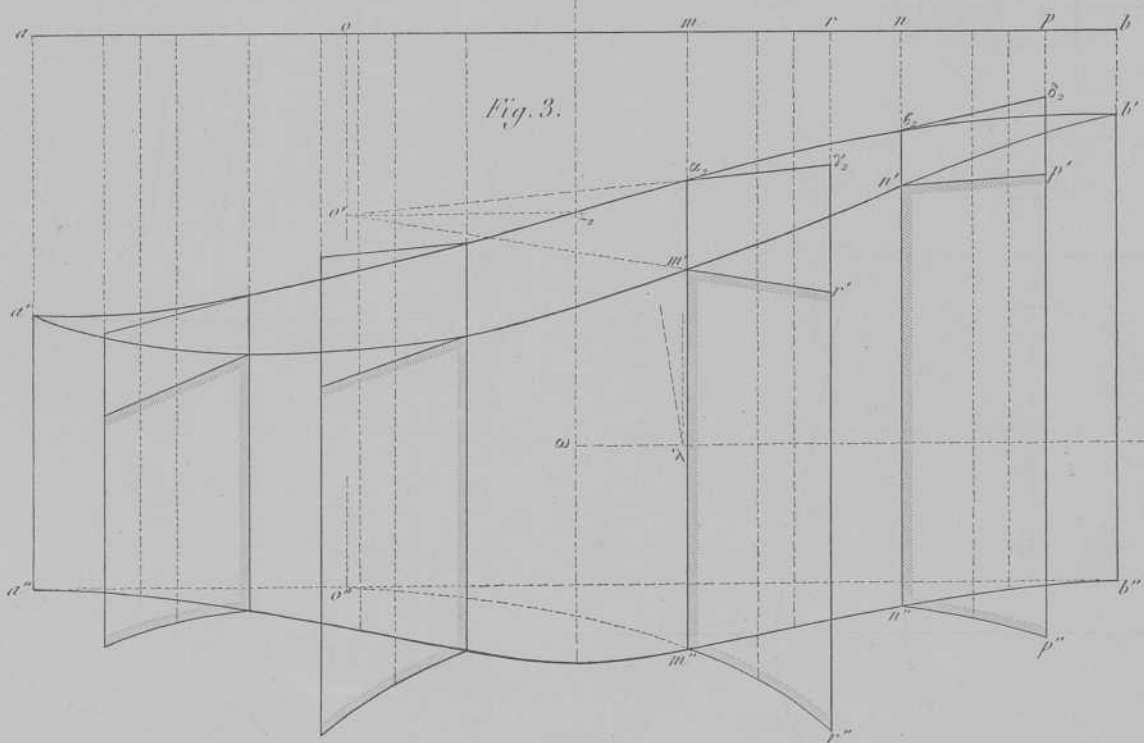
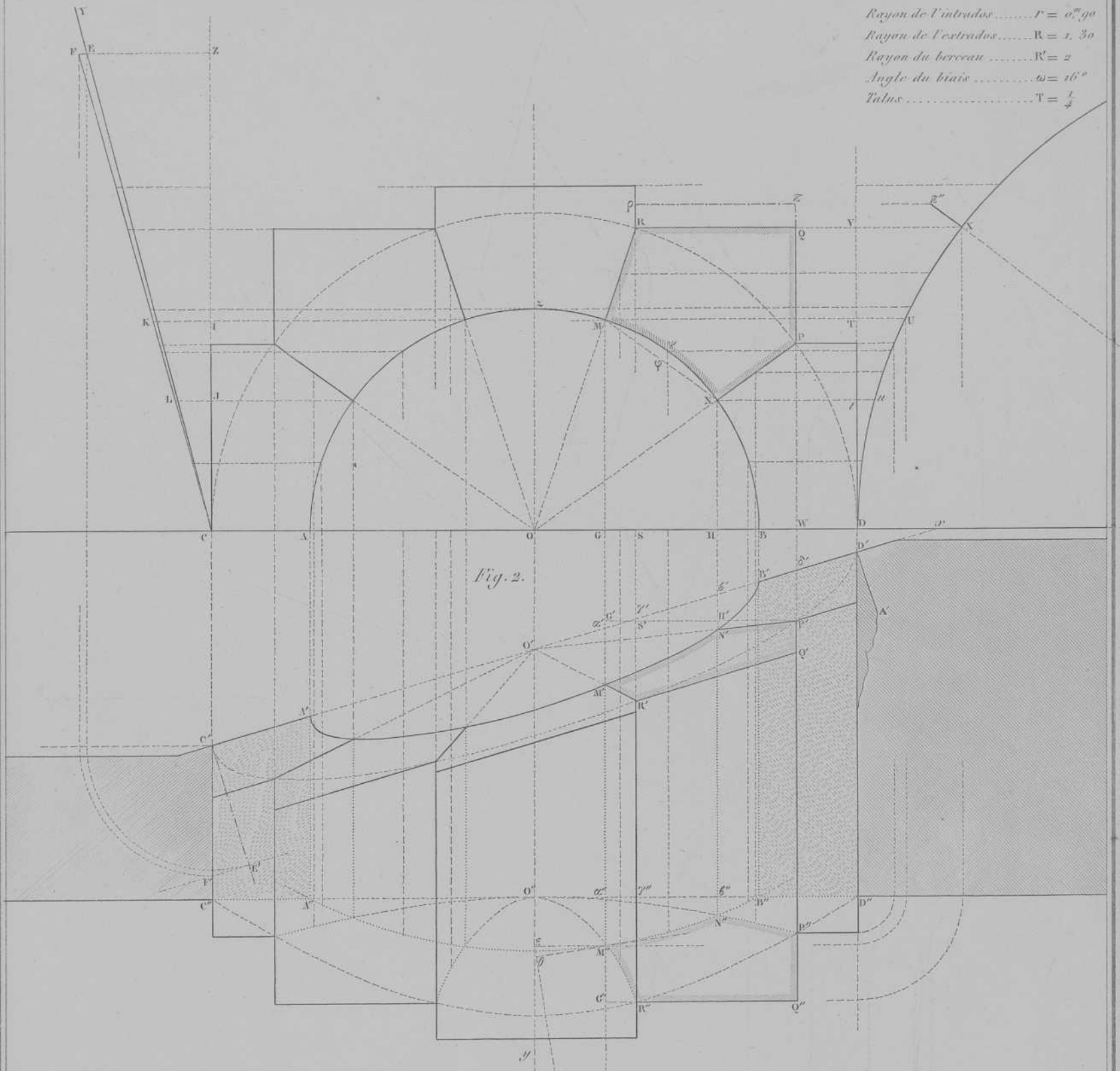


Fig. 12.



Porte biaise, en talus, et rachetant un Berceau en maçonnerie.

Rayon de l'intrados $r = 0^m,90$
 Rayon de l'extrados $R = 1,30$
 Rayon du berceau $R' = 2$
 Angle du biais $\omega = 16^{\circ}$
 Talus $T = \frac{1}{4}$



Echelle de 0^m05 pour Mètre.



Porte biaise en tour ronde avec talus, et rattachant une voûte sphérique en maçonnerie.

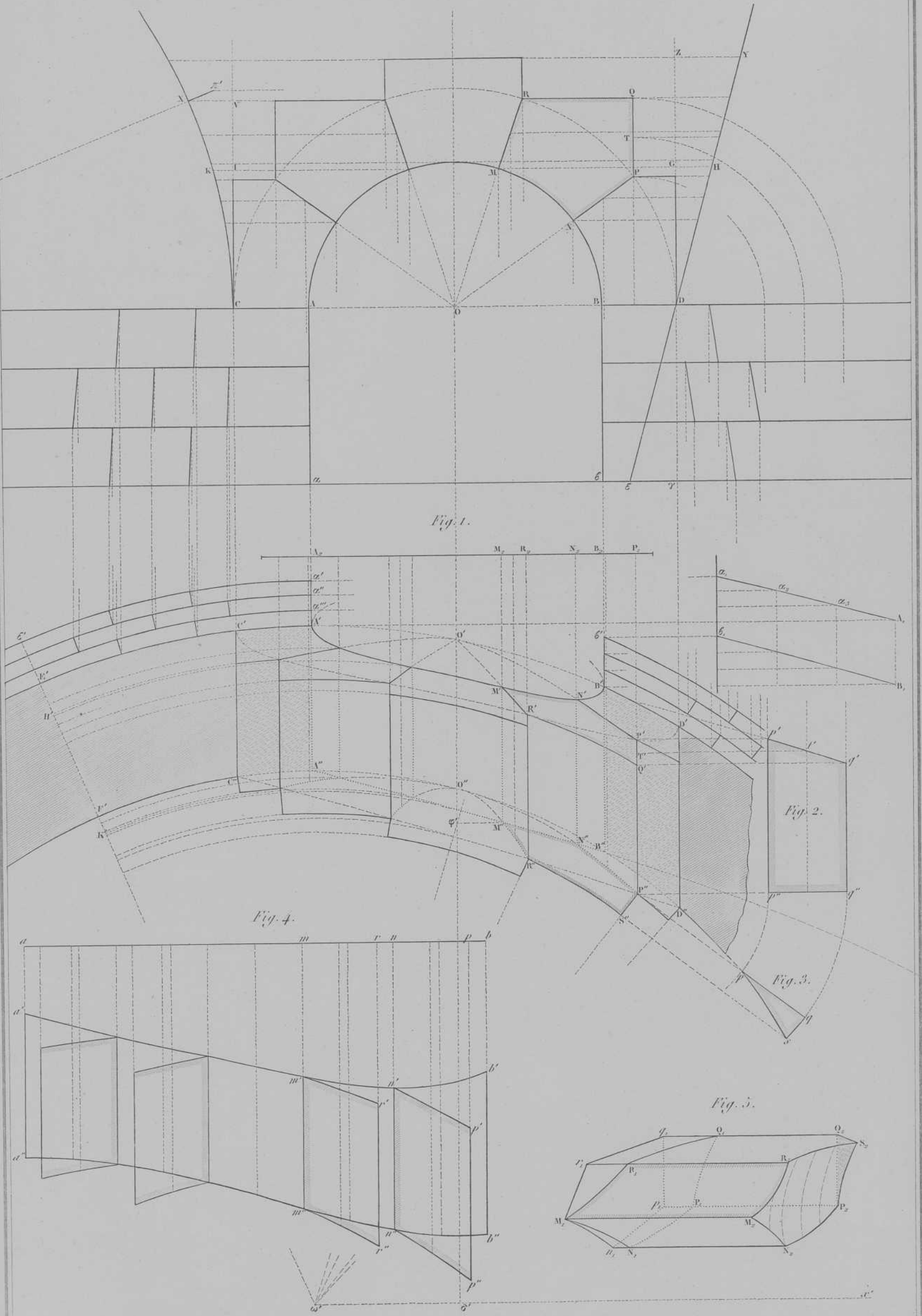


Fig. 1.

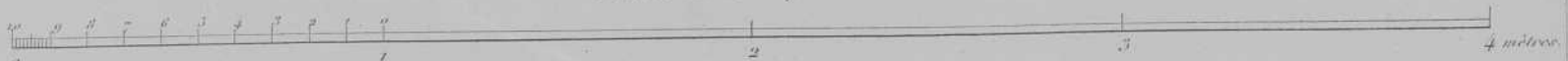
Fig. 2.

Fig. 3.

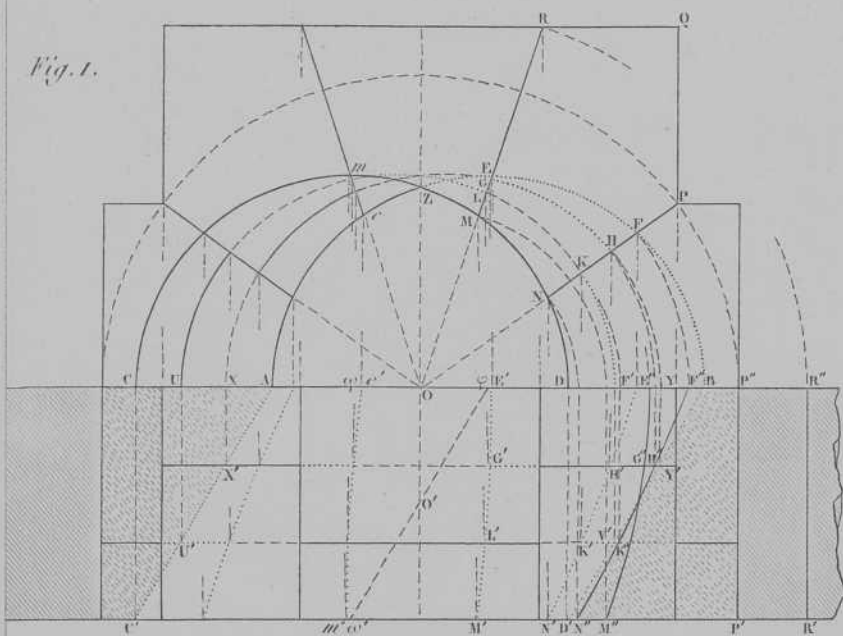
Fig. 4.

Fig. 5.

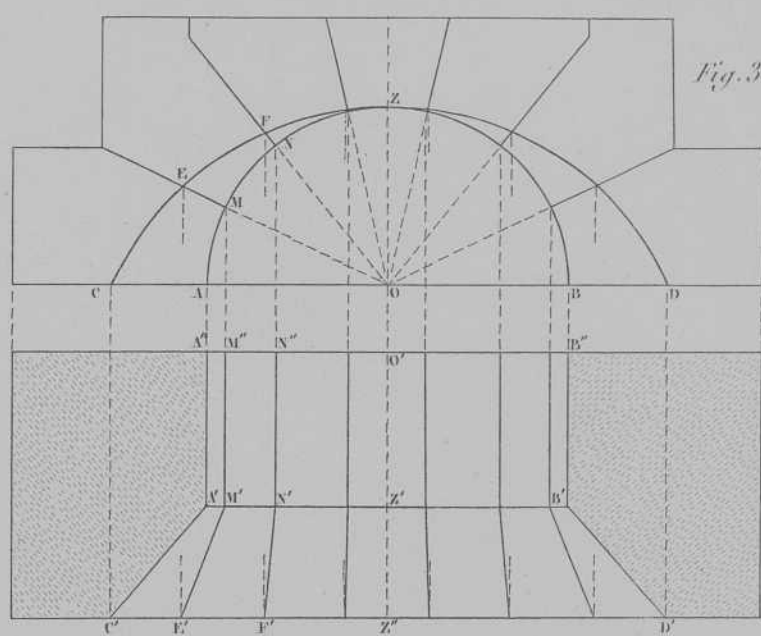
Echelle de 0,05 pour Mètre.



Biais-passé, avec une douelle cylindrique.



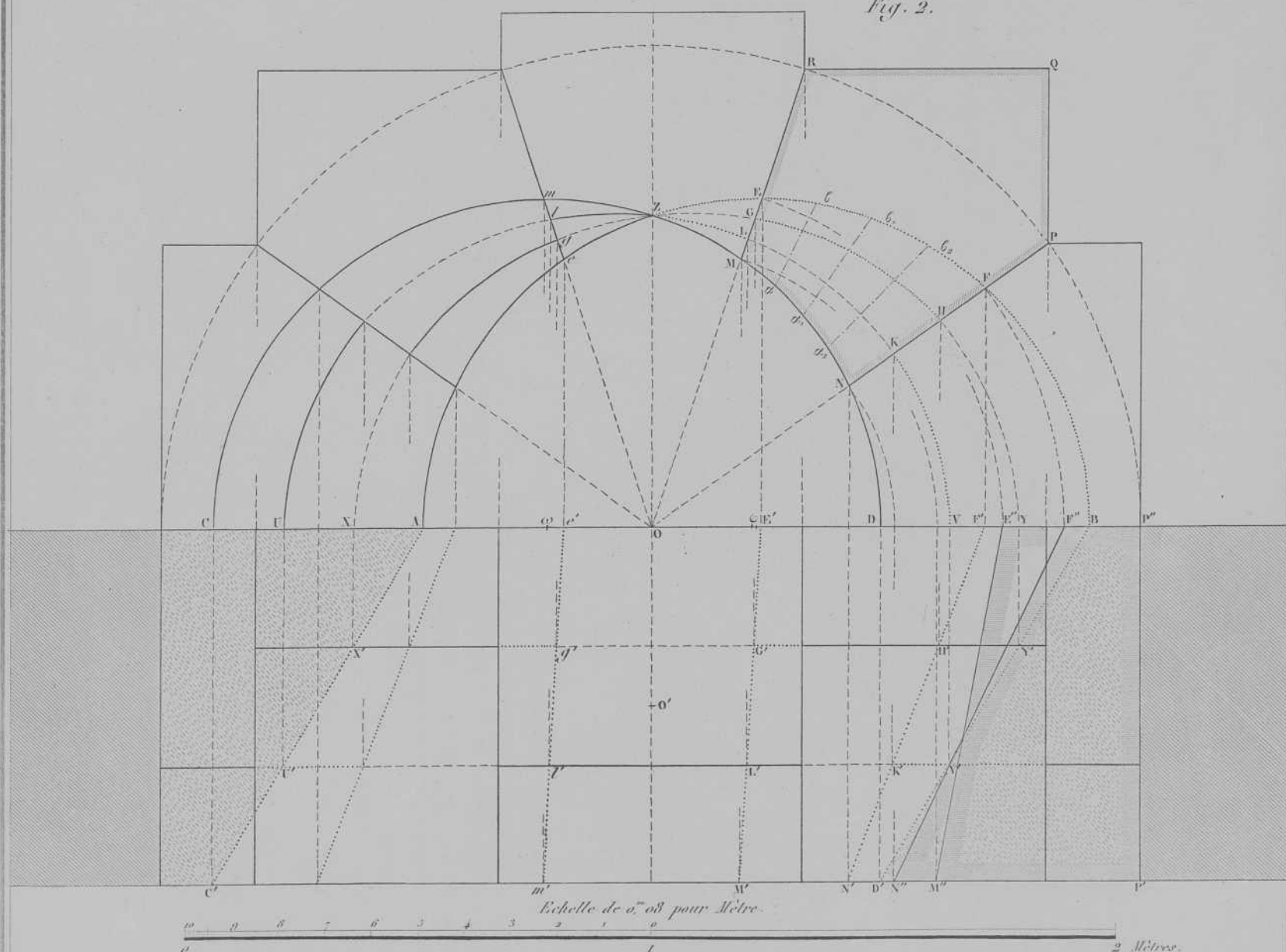
Autre exemple d'une Corne-de-Vache.



Echelle de 0.^m02 pour Mètre.



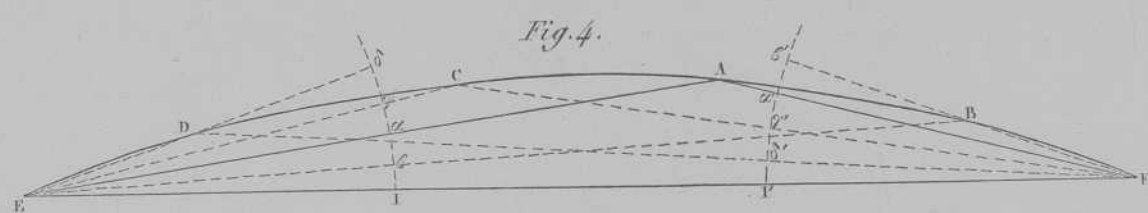
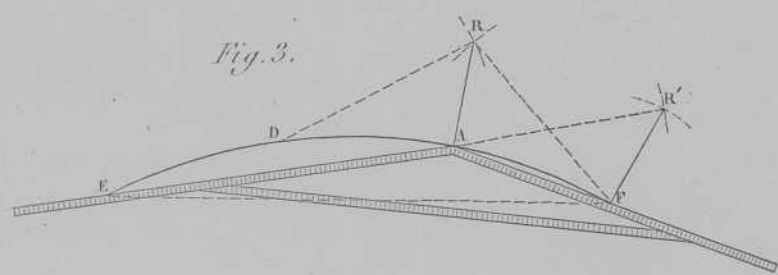
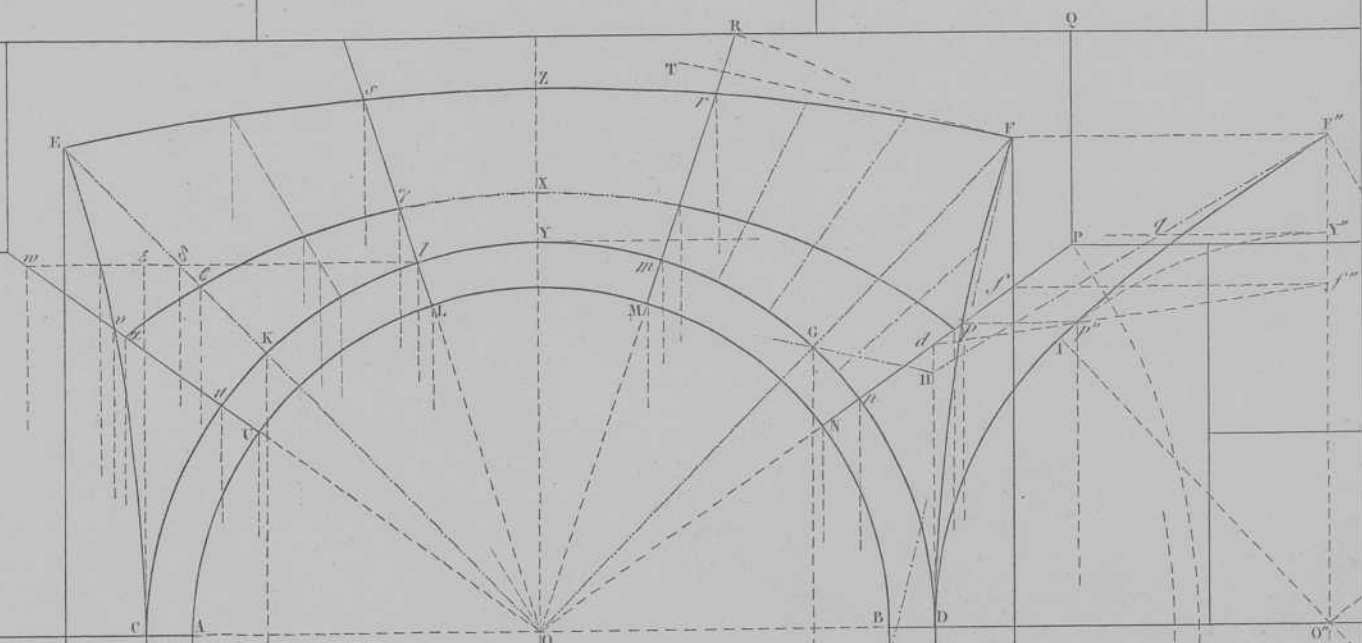
Biais passé, avec une douelle gauche, dite: Corne-de-Vache.



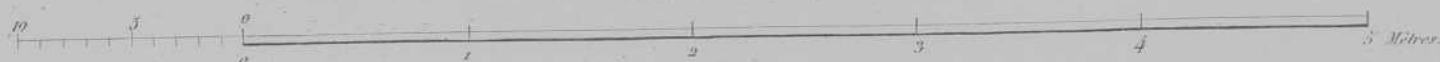
Echelle de 0^m 08 pour Mètre

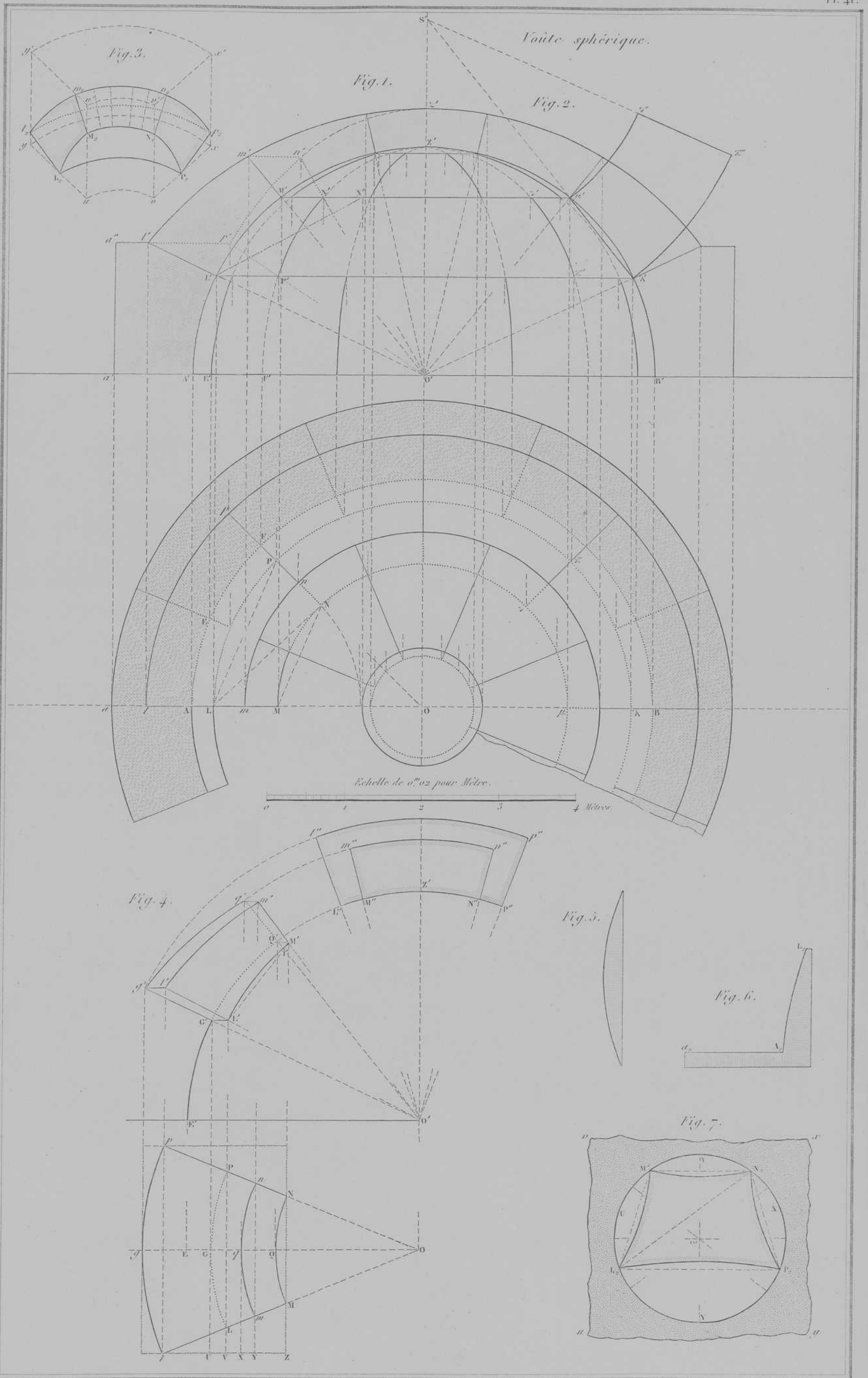


Arrière - voussure de Marseille.

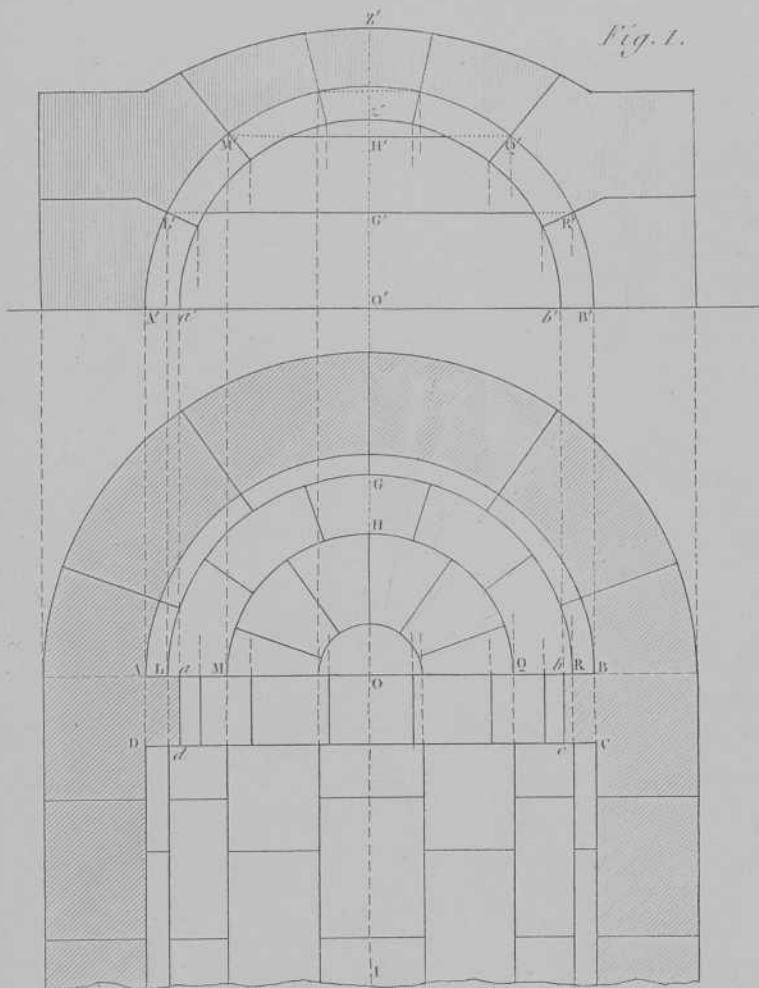


Echelle de 0.03 pour Metre.

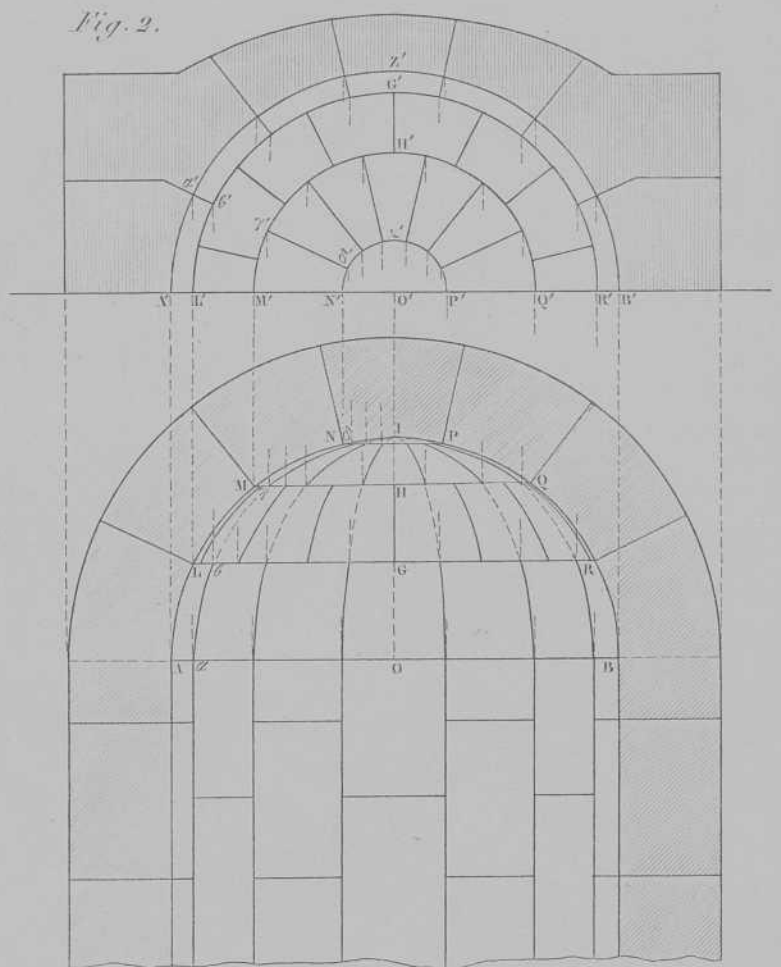




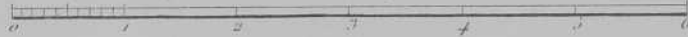
Voute en cul-de-four, appareillée par assises horizontales.



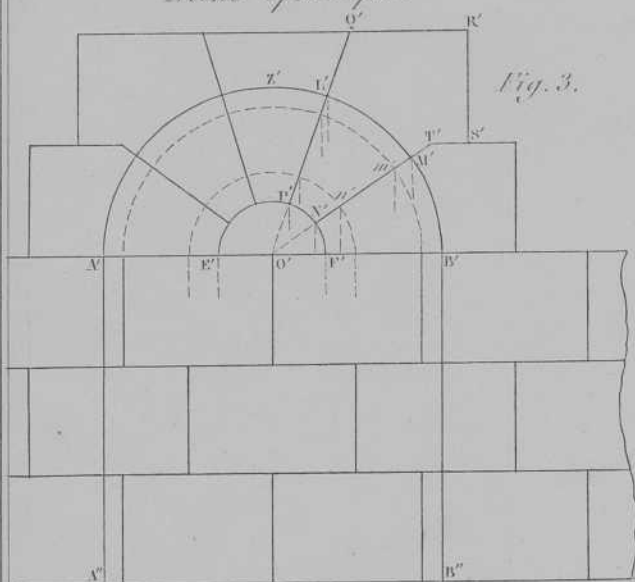
Autre appareil pour un cul-de-four.



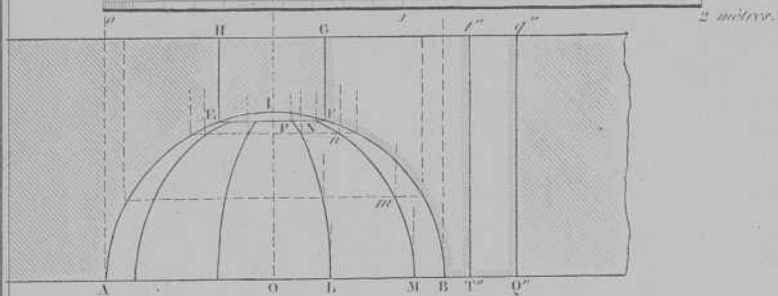
Echelle de 0^m 05 pour mètre.



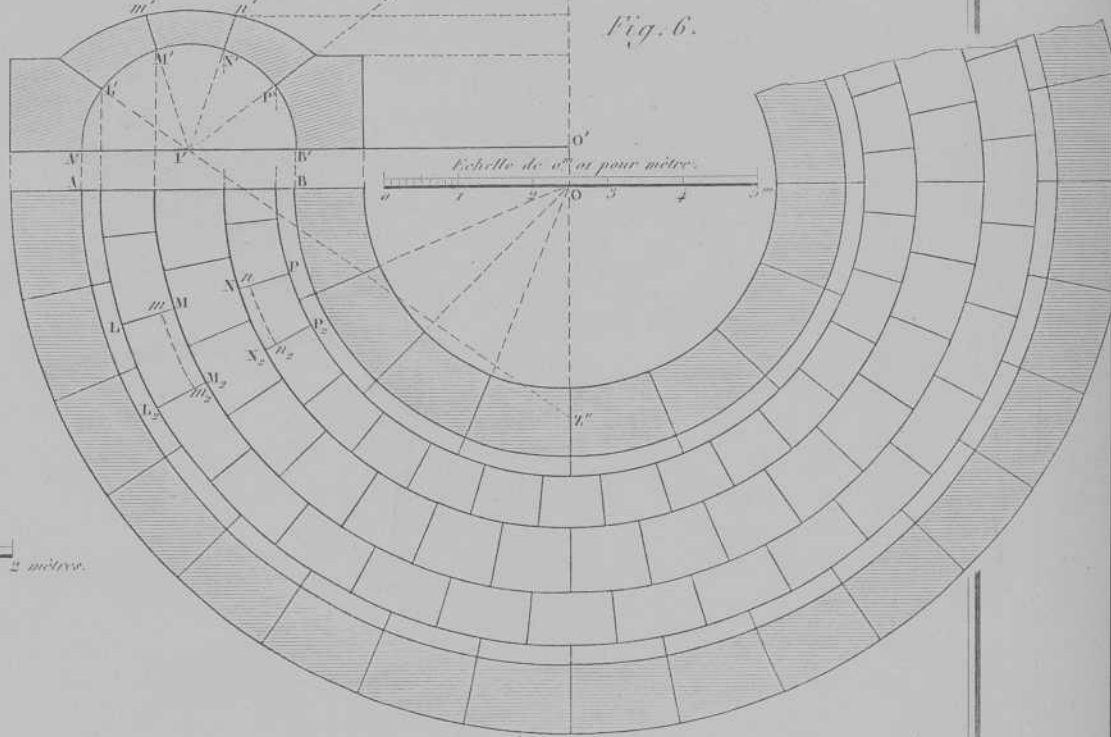
Niche sphérique.



Echelle de 0^m 04 pour mètre.



Berceau tournant.



Echelle de 0^m 05 pour mètre.

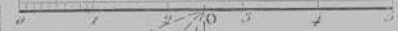


Fig. 4.

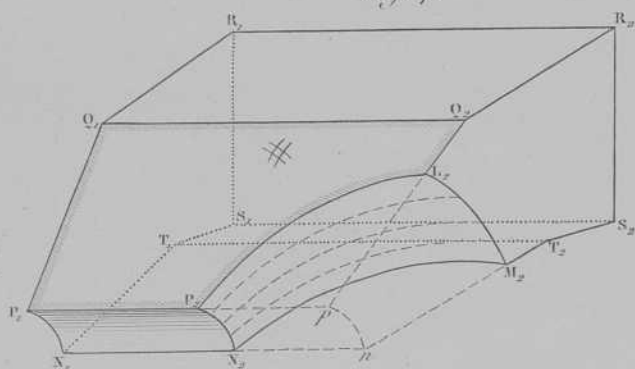
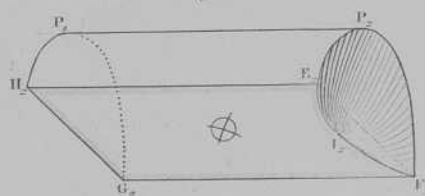


Fig. 5.



Voûtes elliptiques, mais de révolution

autour d'un axe horizontal.

Fig. 4.

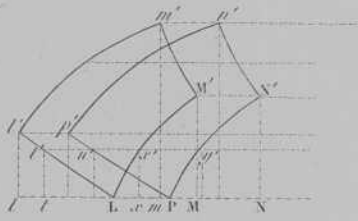


Fig. 3.

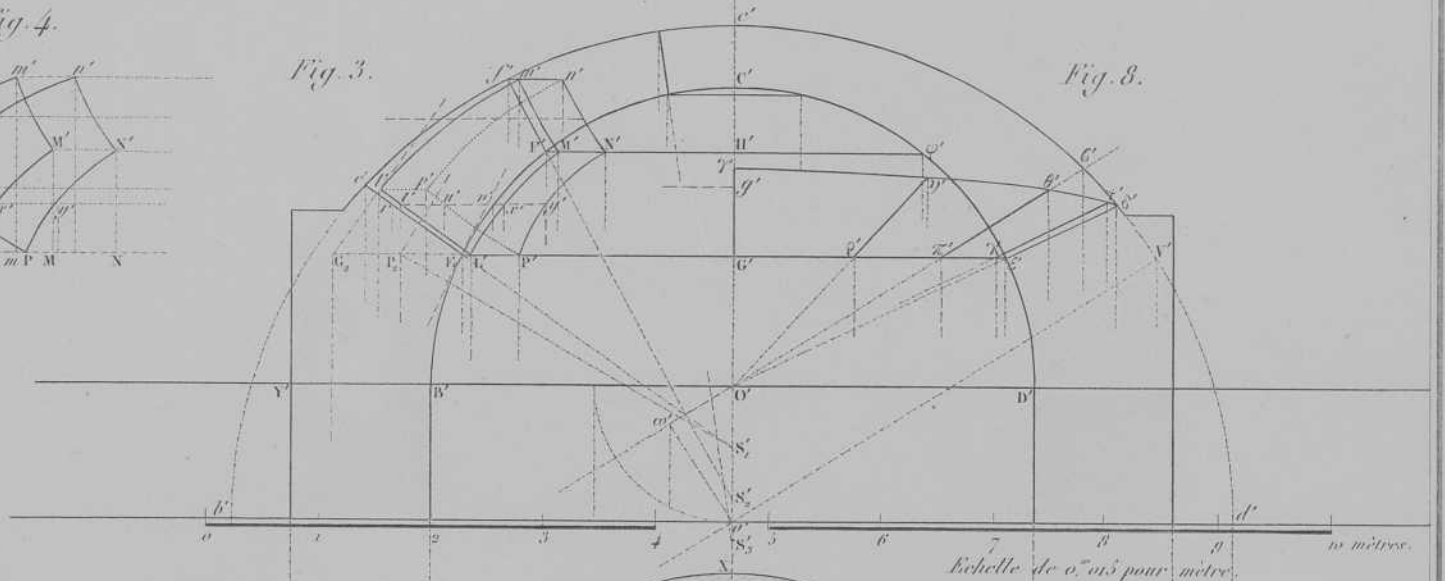


Fig. 8.

Fig. 5.

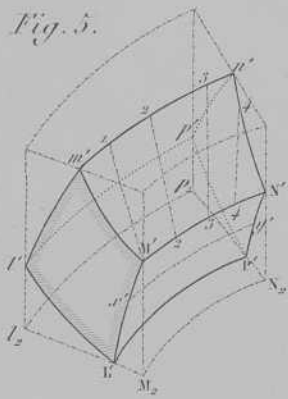


Fig. 2.

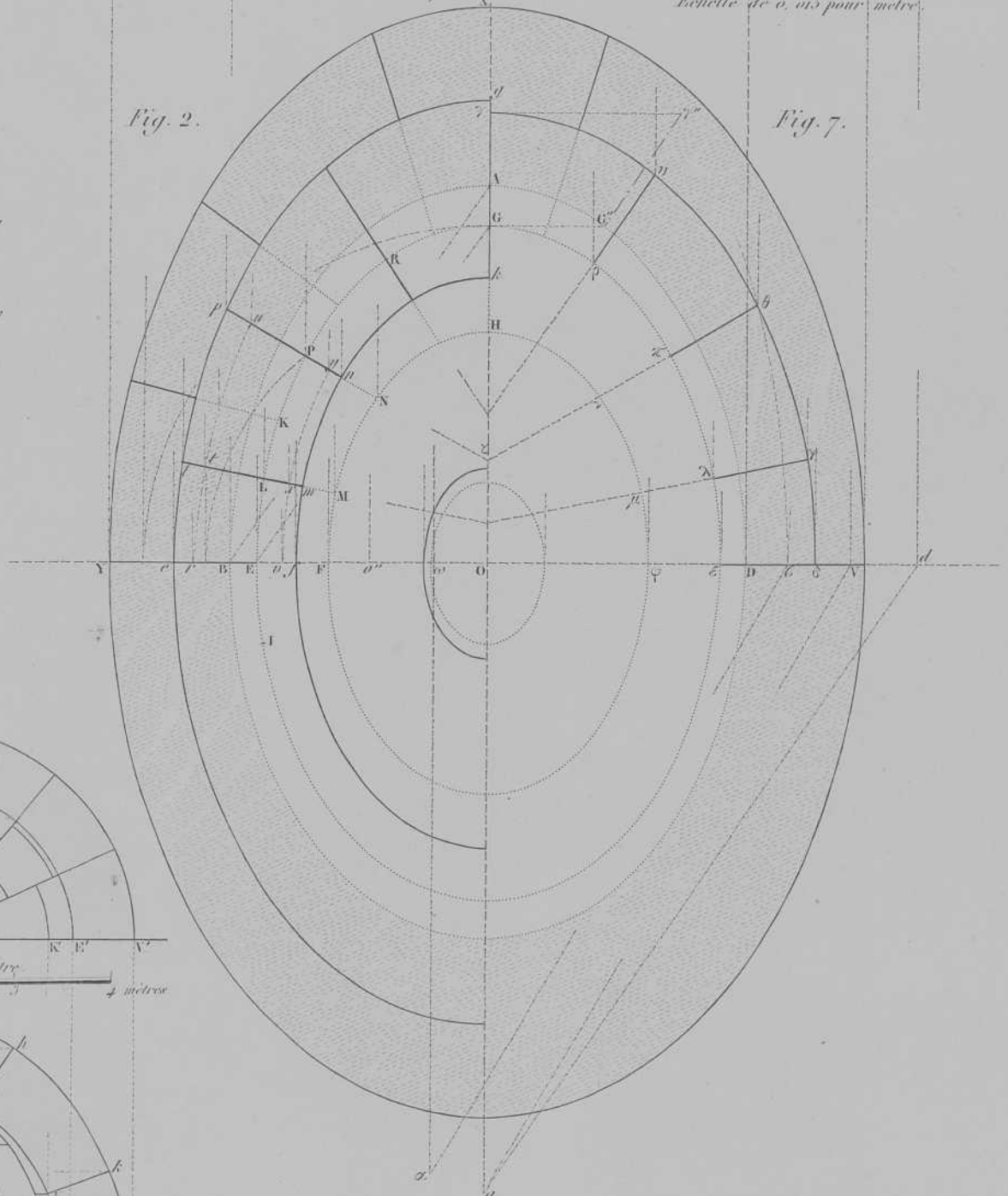


Fig. 7.

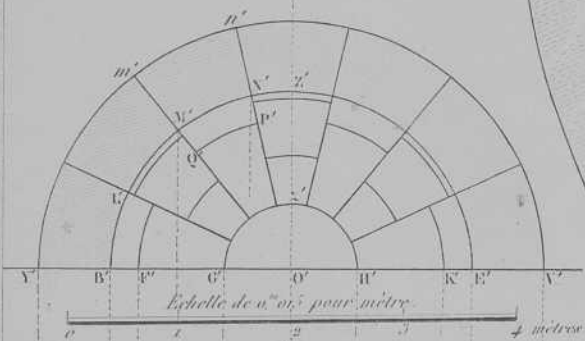


Fig. 1.

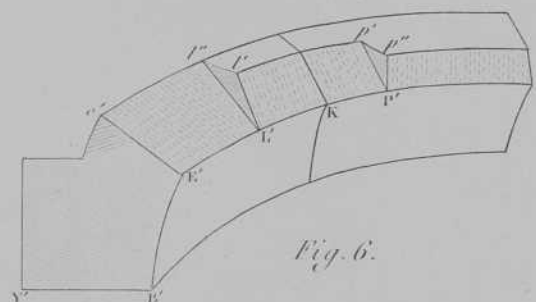
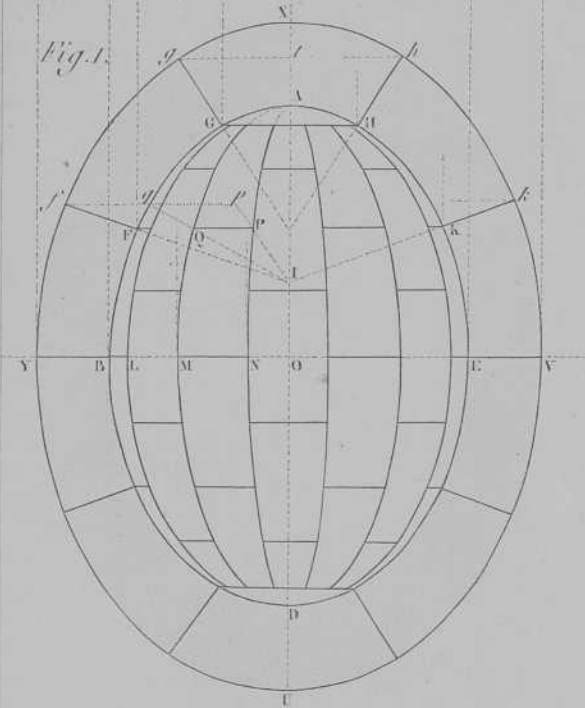


Fig. 6.

Voûte en ellipsoïde à trois axes inégaux.

Fig. 2.

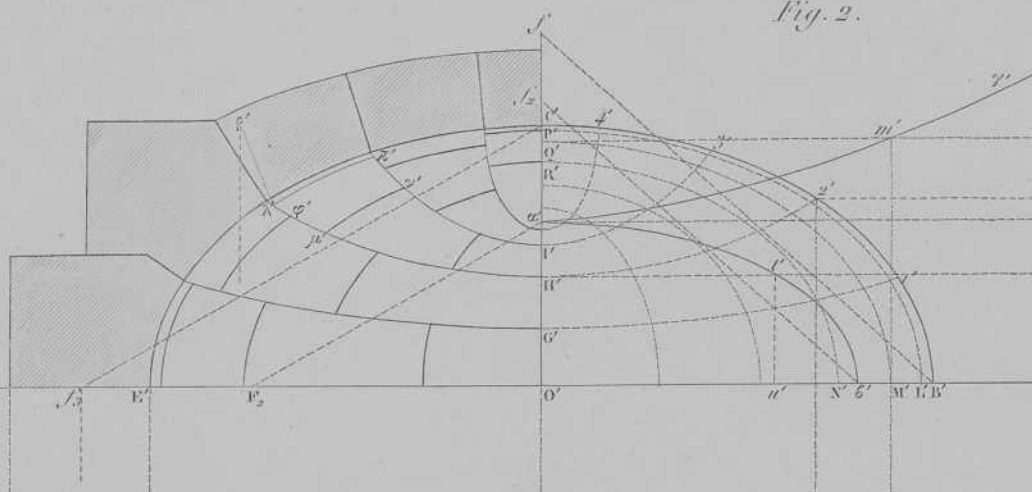


Fig. 1.

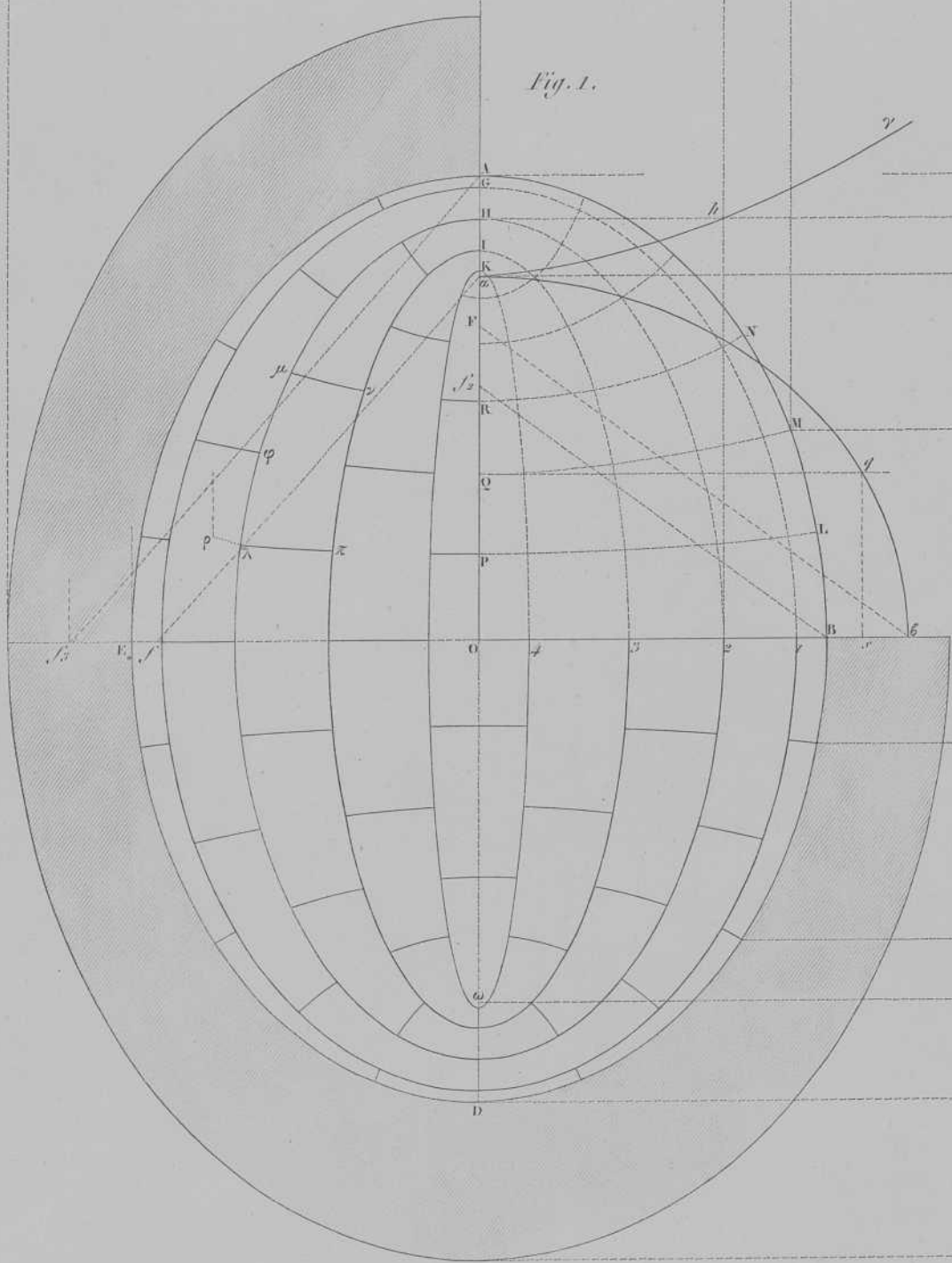
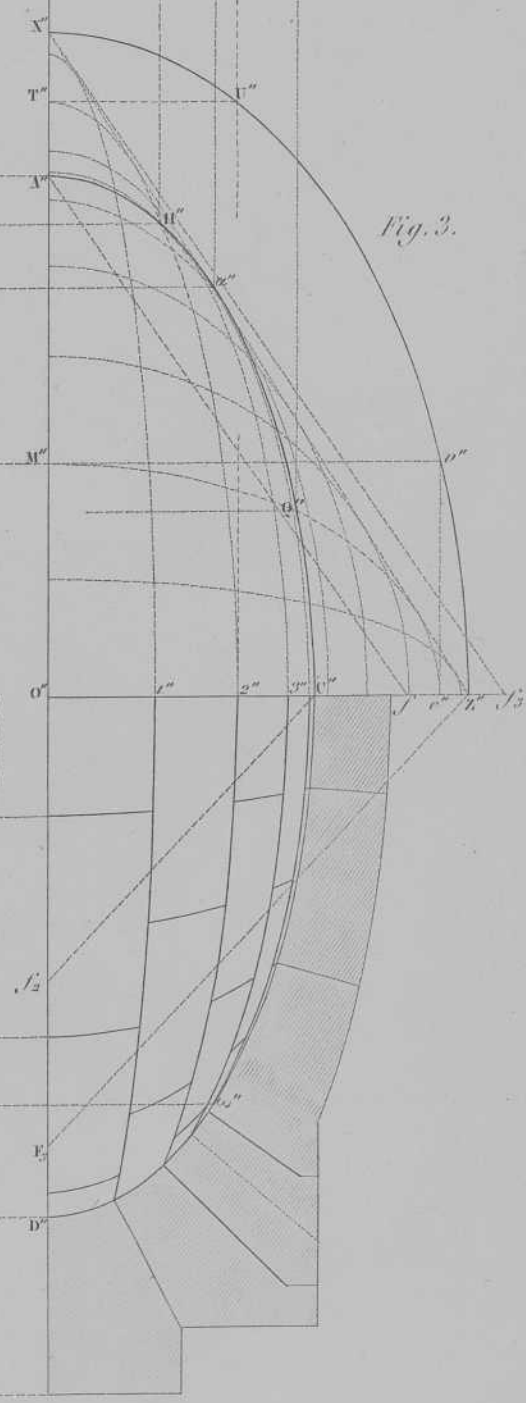


Fig. 3.



Echelle de 0.^m05 pour mètre.



Voûte d'arcête barlongue.

Fig. 1.

Fig. 2.

Fig. 3.

Echelle de 0^m02 pour mètre.

Voûte en arc-de-cloître.

Fig. 4.

Fig. 5.

Fig. 6.

Berceau coudé, en arête et en arc-de-cloître.

Fig. 1.

Fig. 3.

Fig. 2.

Echelle de 0^m03 pour mètre.

Fig. 7.

Fig. 6.

Fig. 4.

Fig. 5.

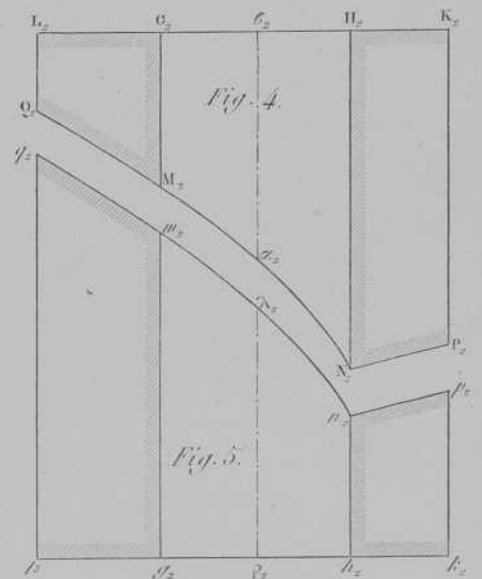
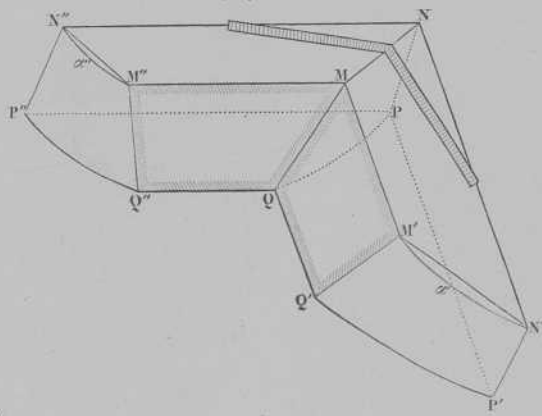
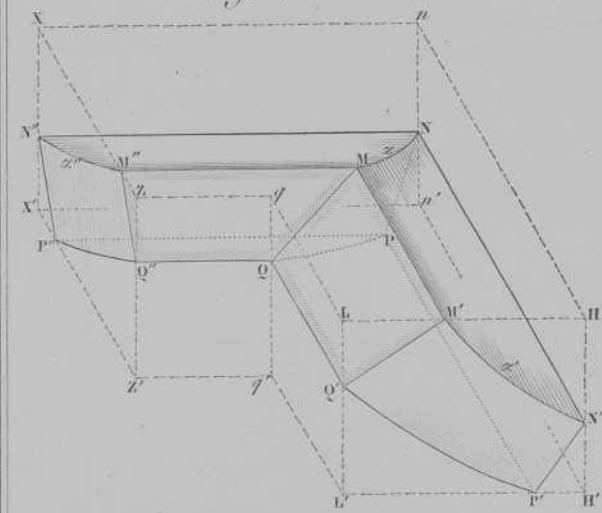


Fig. 1.

Voûte en arc-de-cloître
ouverte par le haut.

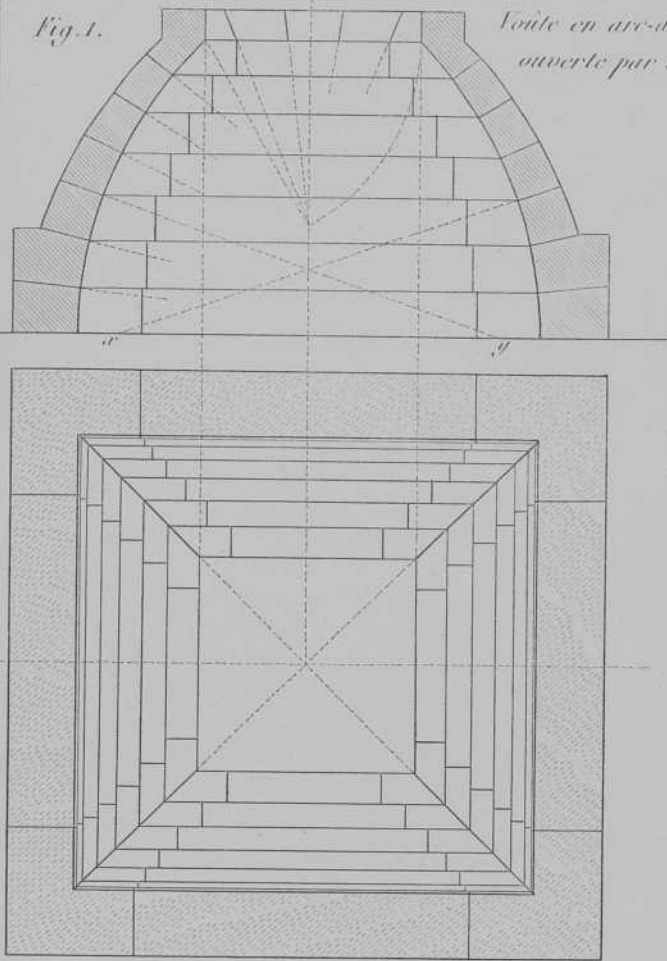
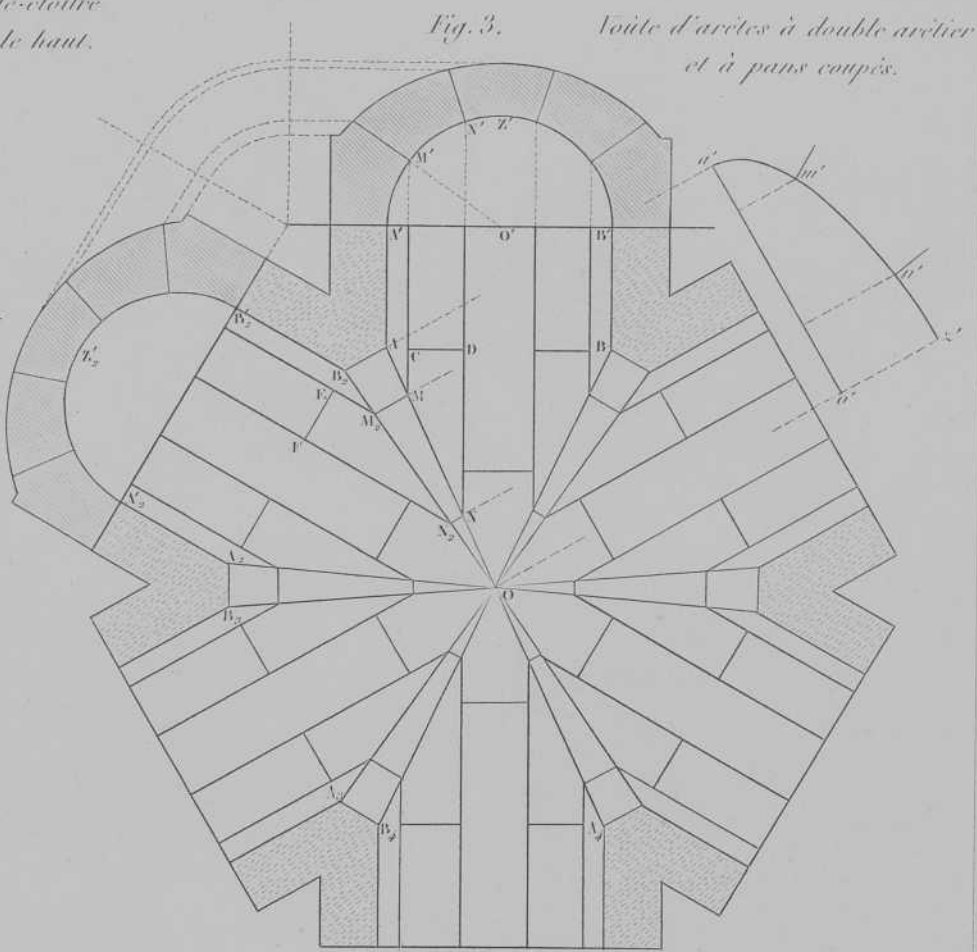


Fig. 3.

Voûte d'arêtes à double arêtier
et à pans coupés.



Voûte d'arêtes à double arêtier
avec pendentifs. Fig. 5.

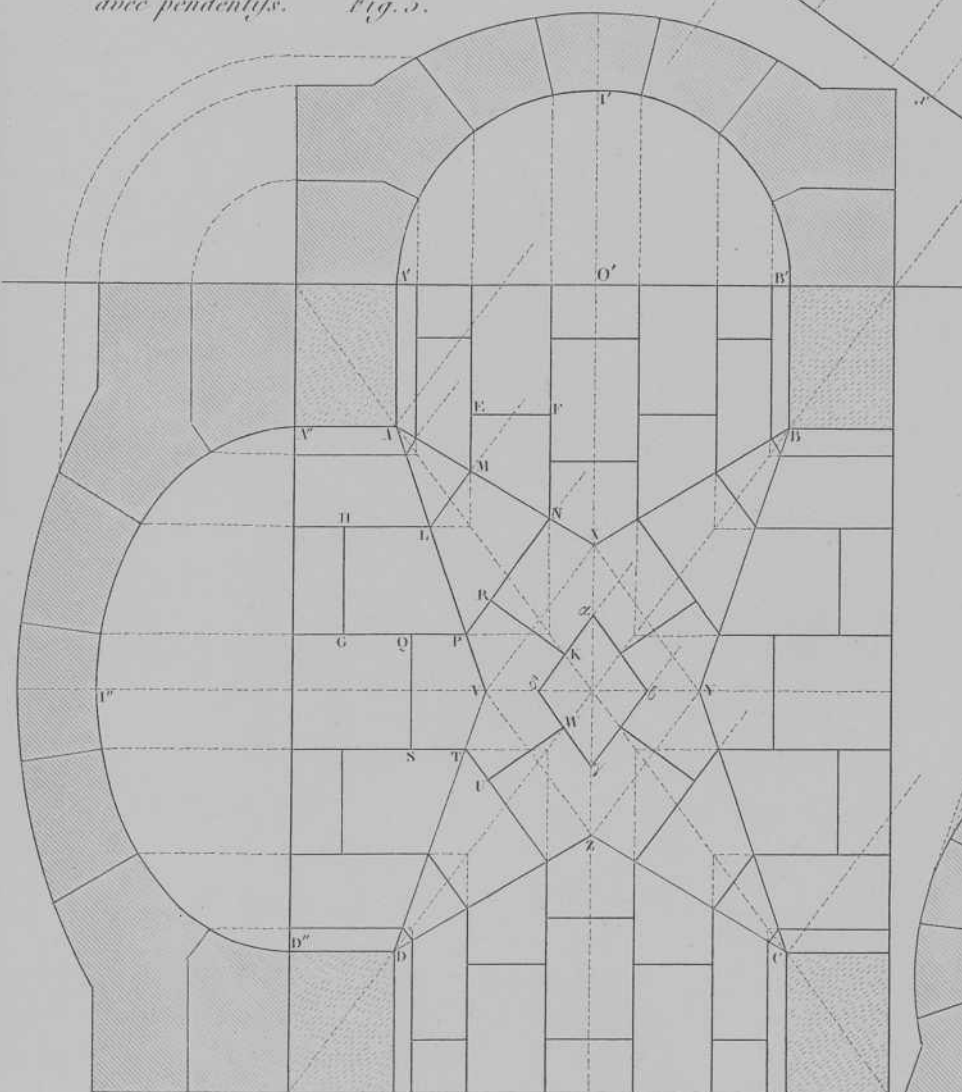


Fig. 4.

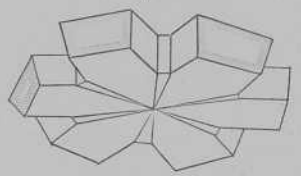
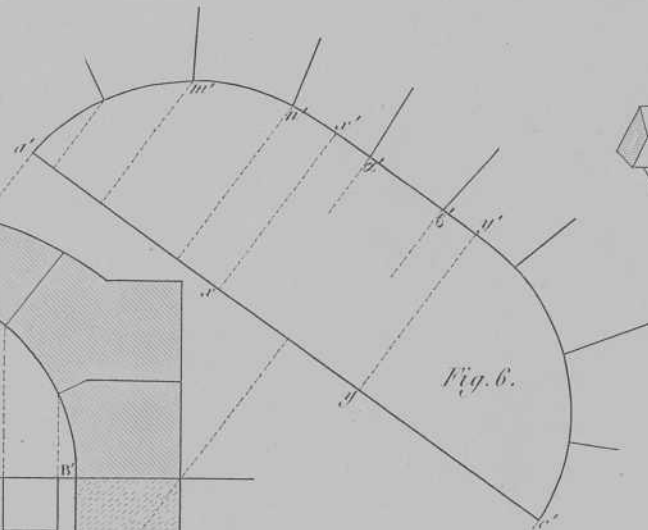
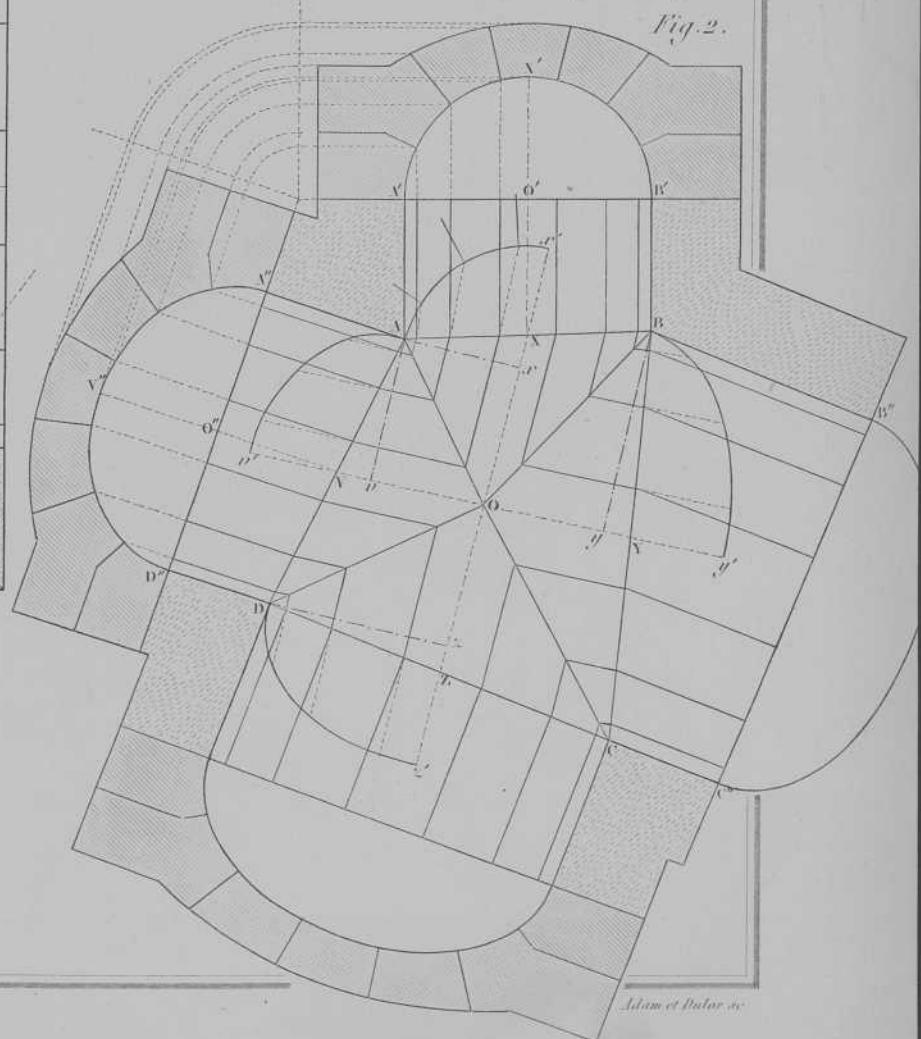


Fig. 6.



Voûte d'arêtes à quatre pans inégaux.

Fig. 2.



Lunette droite dans un Berceau.

Fig. 1.

Fig. 2.

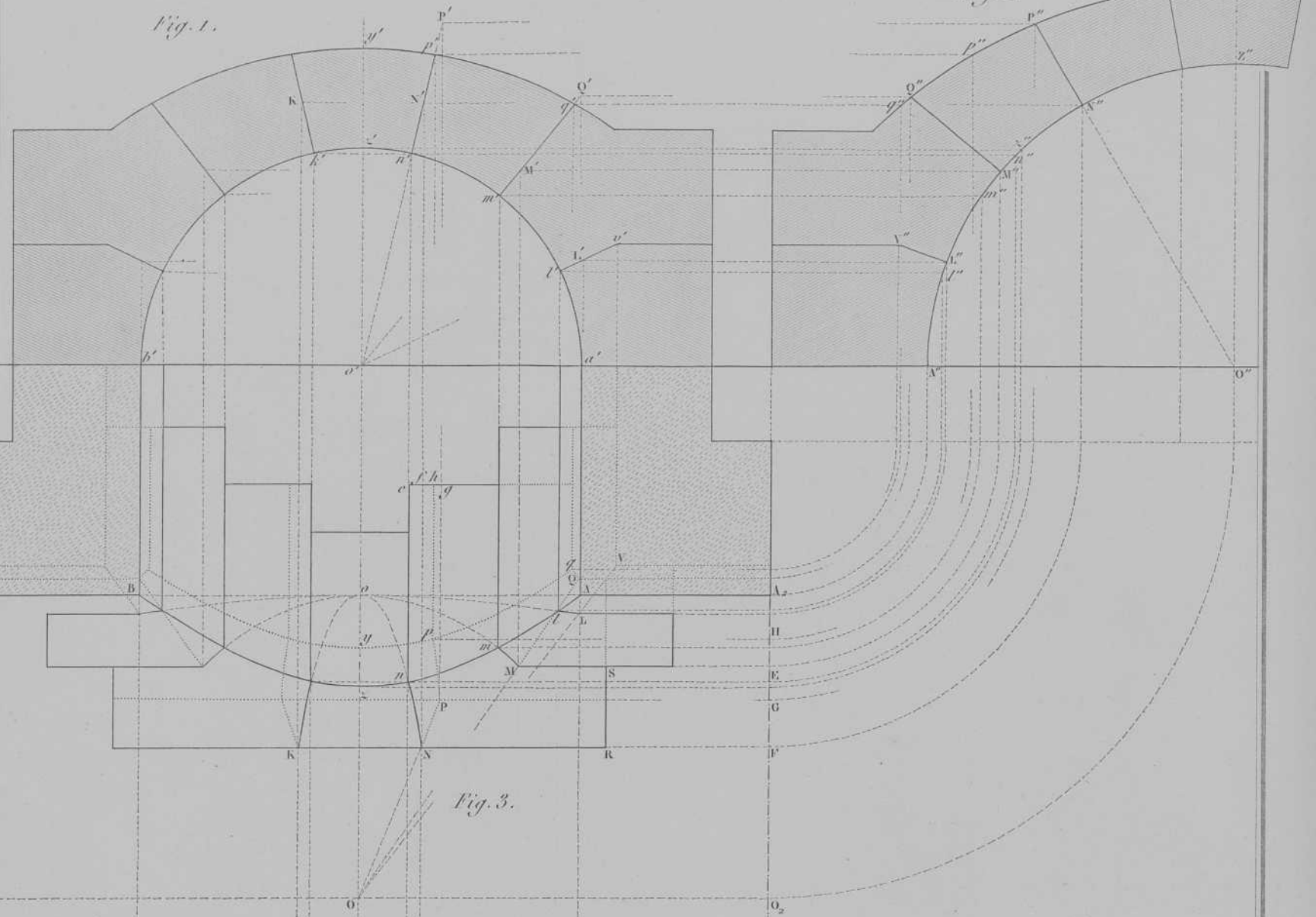


Fig. 3.

Fig. 4.

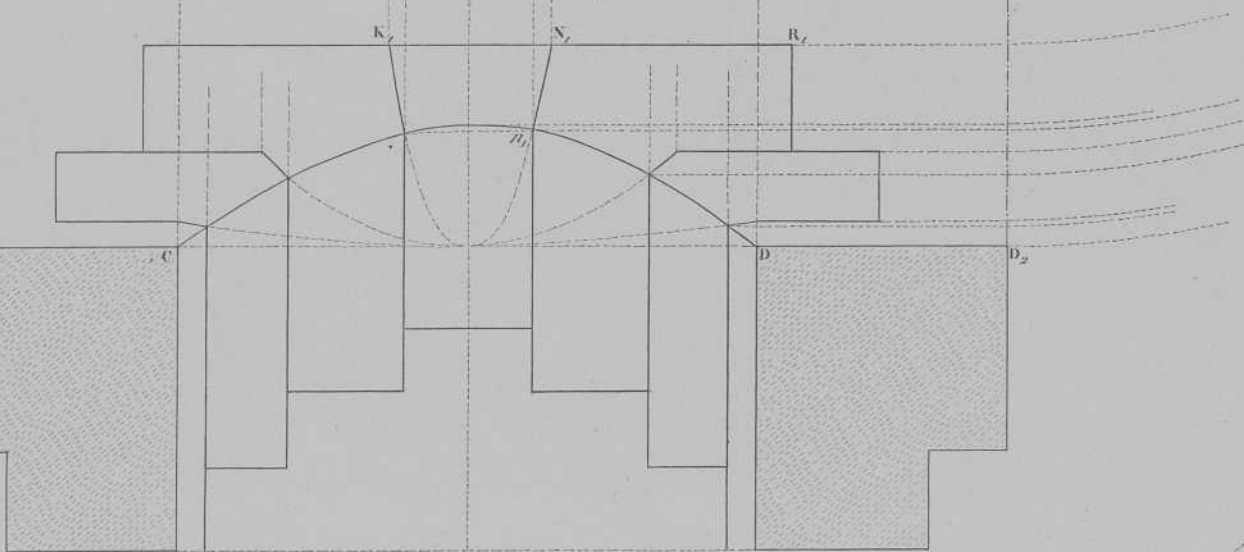


Fig. 5.

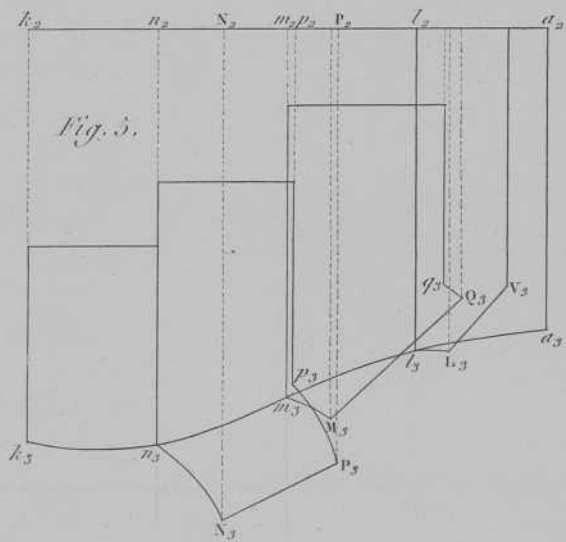
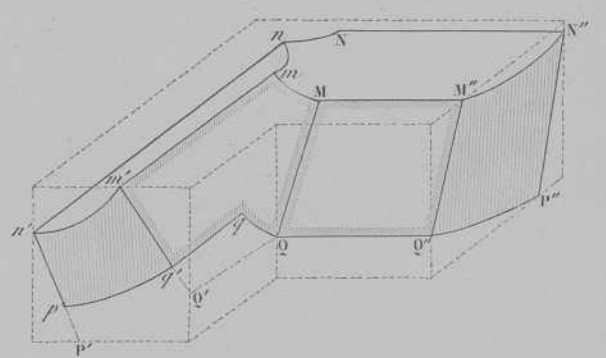


Fig. 6.



Echelle de 0^m 02 pour mètre.



Lunette biaisée dans un Berceau.

Fig. 1.

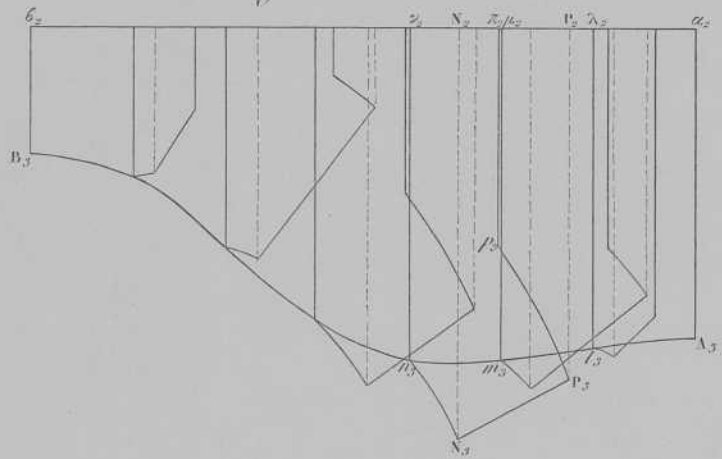
Fig. 2.

Fig. 4.

Fig. 3.

Fig. 5.

Fig. 6.



Lunette, biaise dans une Voûte sphérique.

Fig. 2.

Fig. 1.

Fig. 3.

Fig. 4.

Fig. 5.

Echelle de 0^m02 pour mètre.

Voute en pendentif avec fermerets.

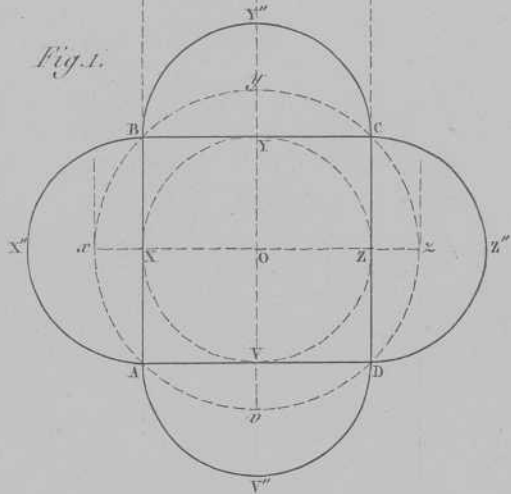
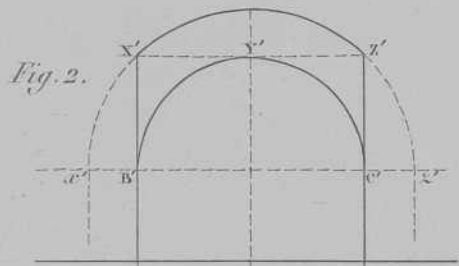


Fig. 4.

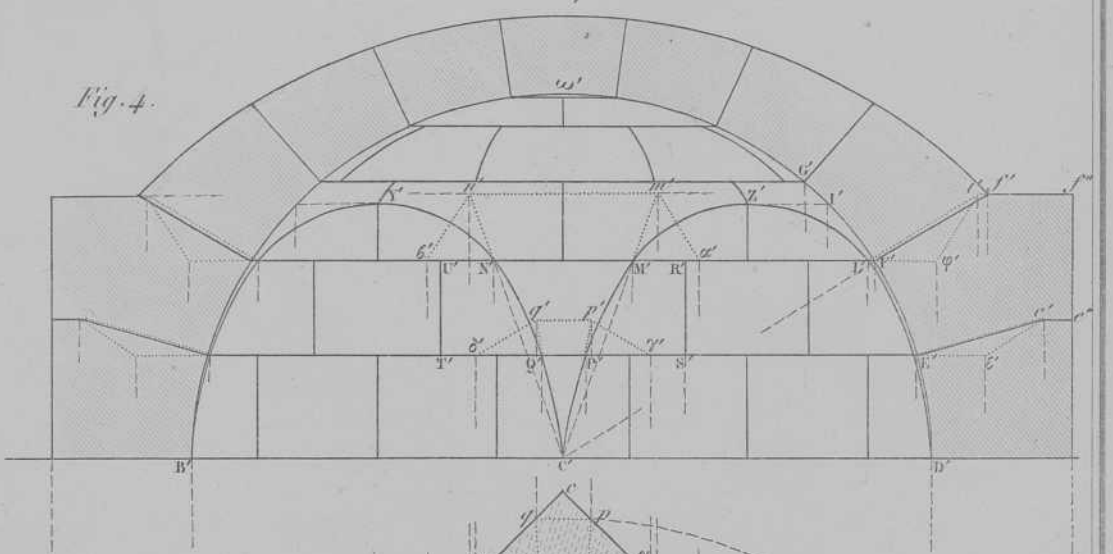
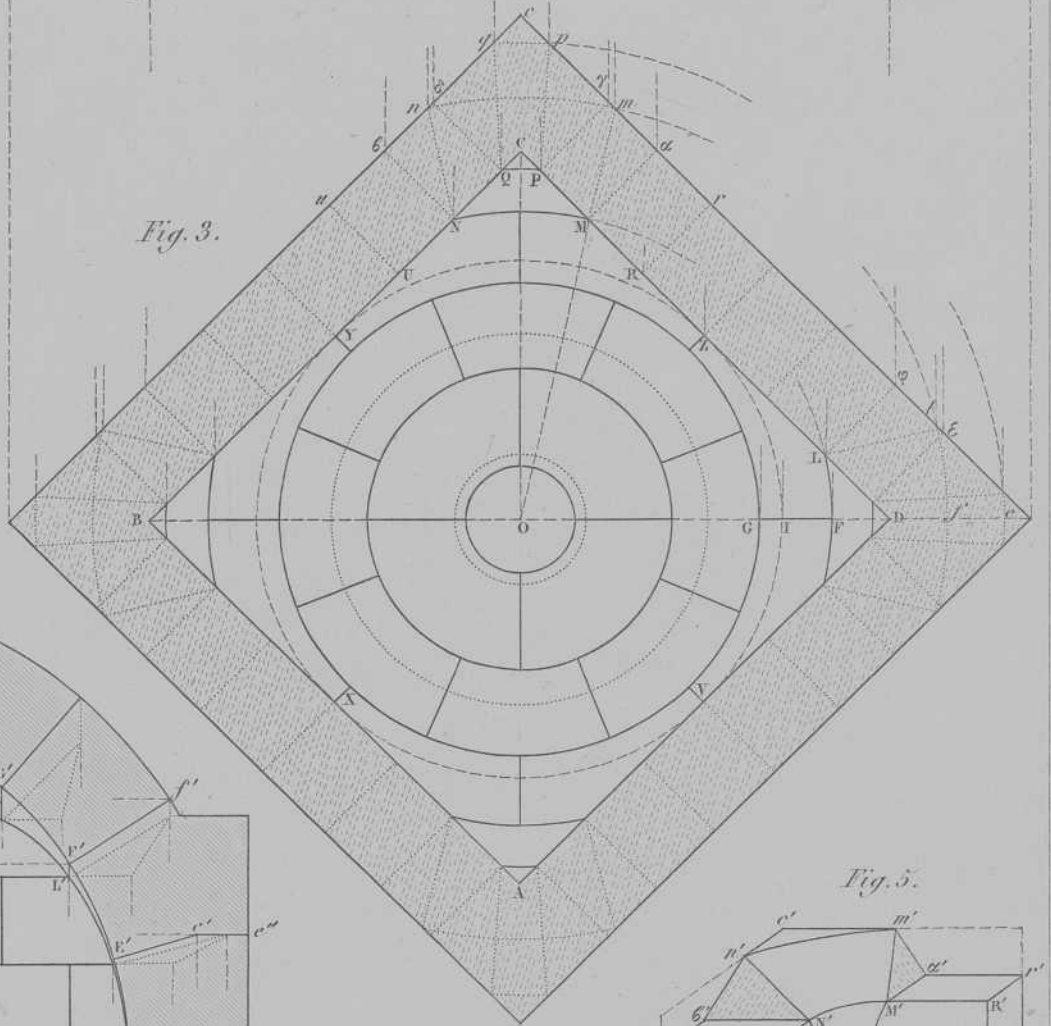


Fig. 3.



Autre mode d'appareil.

Fig. 8.

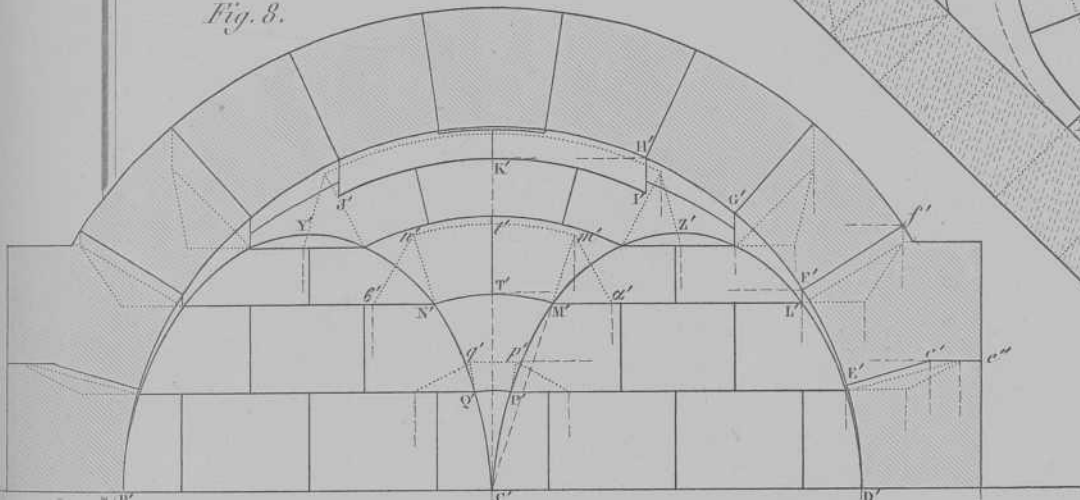


Fig. 7.

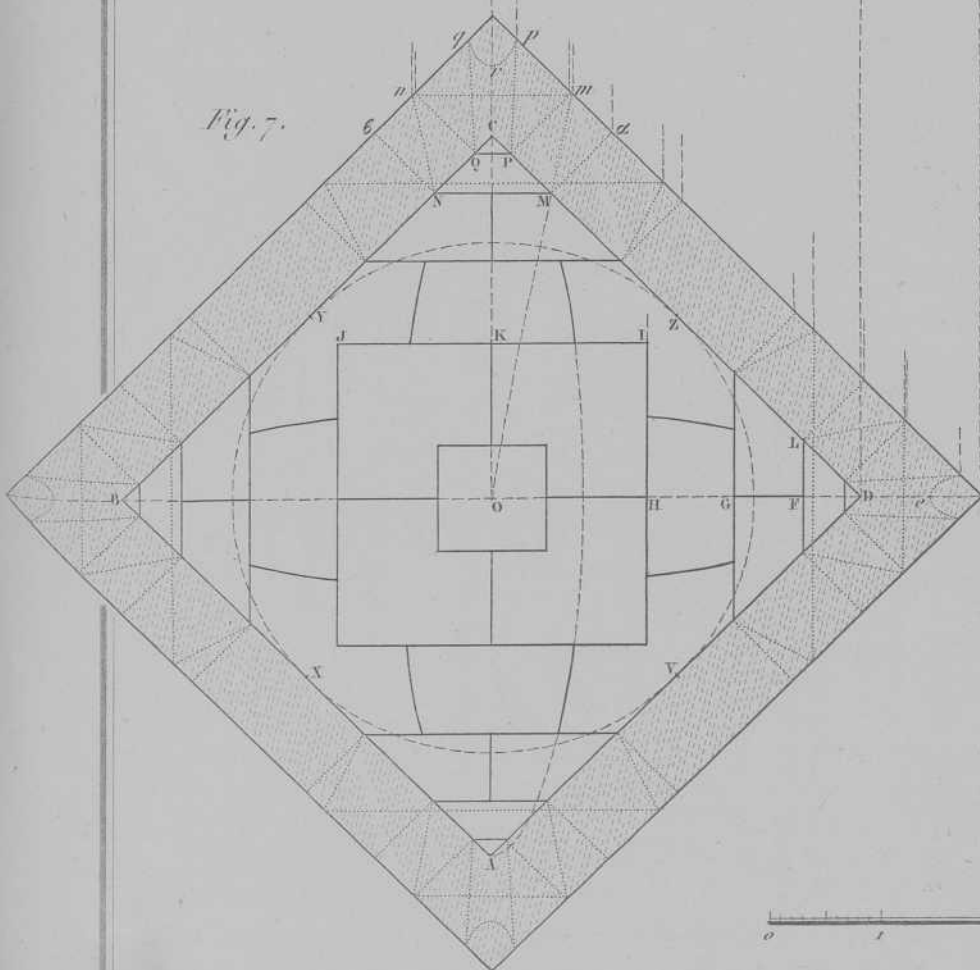


Fig. 5.

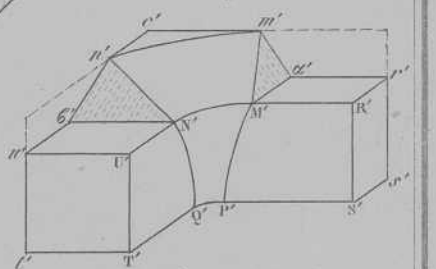


Fig. 9.

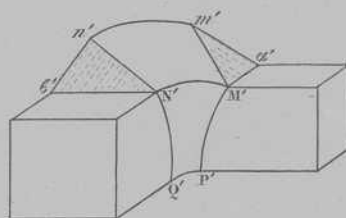


Fig. 6.

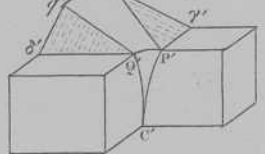
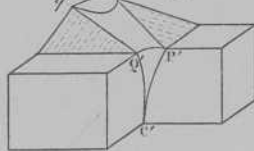


Fig. 10.



Echelle de 0.^m05 pour mètre.



Voûte en pendentif avec lunettes.

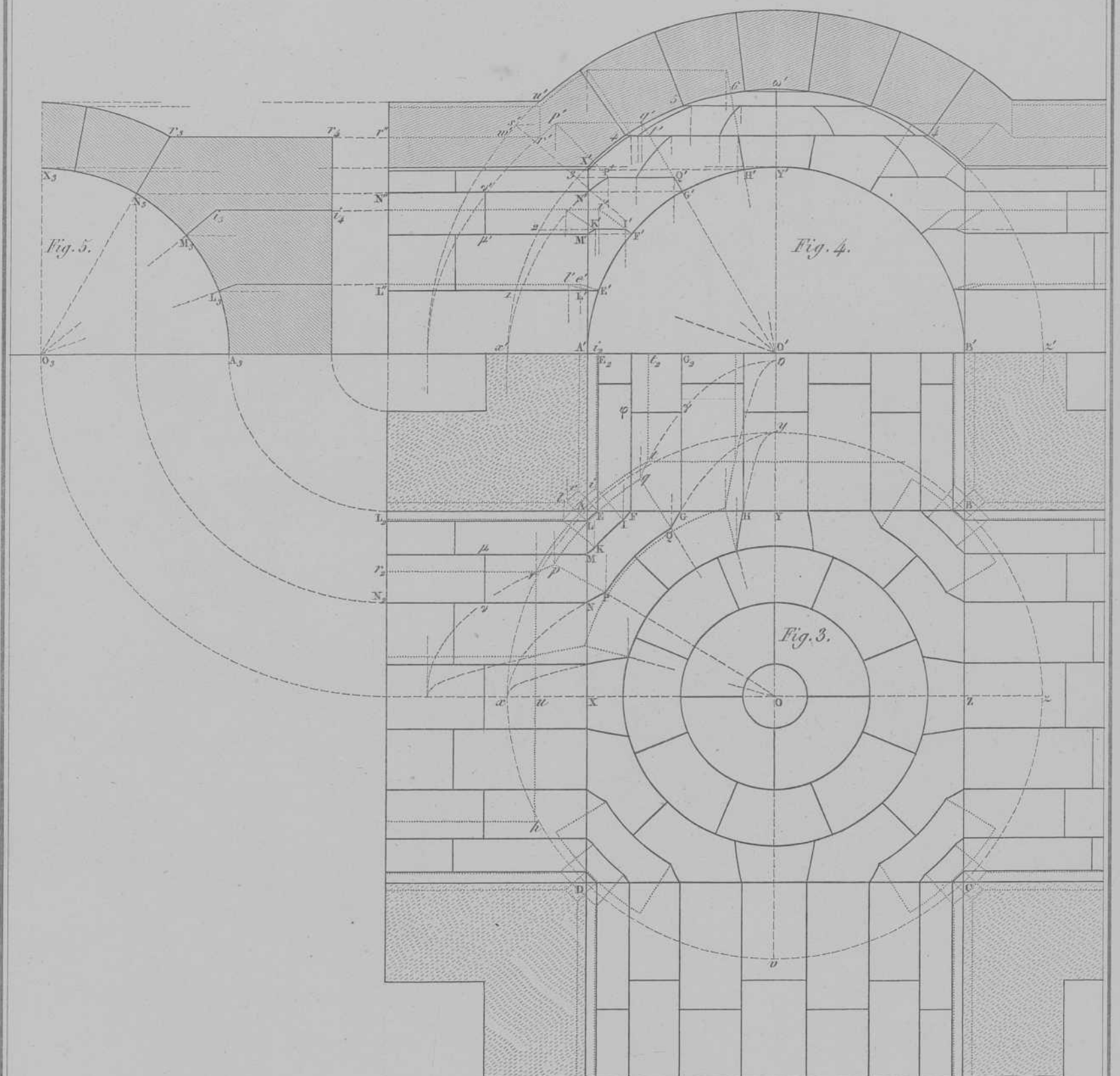


Fig. 2.

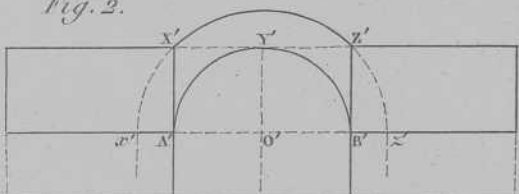


Fig. 1.

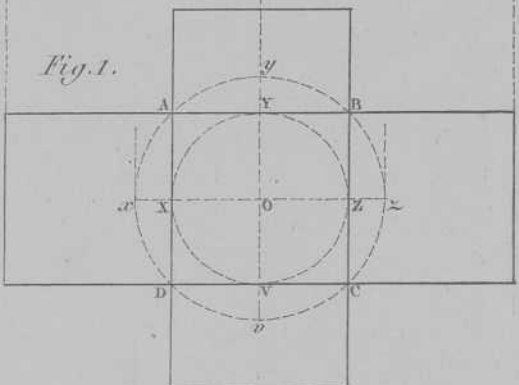


Fig. 6.

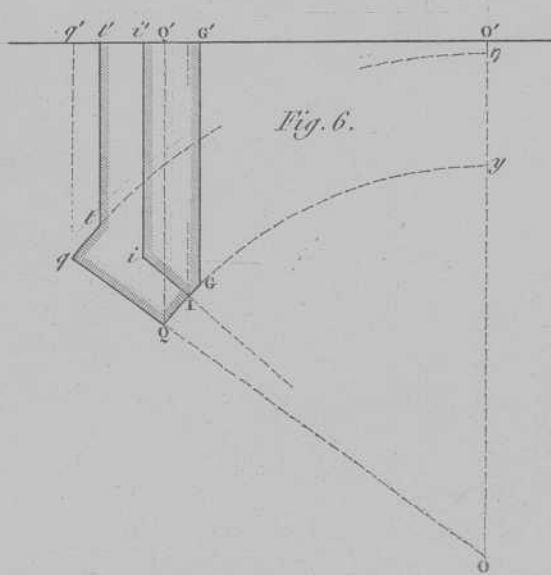


Fig. 7.

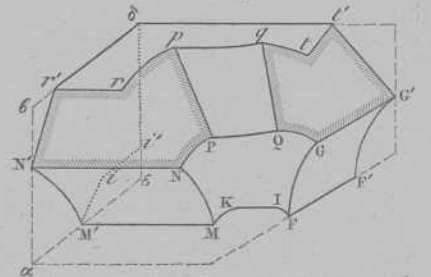
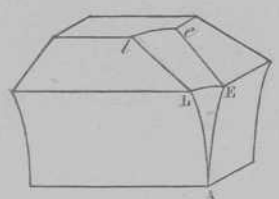


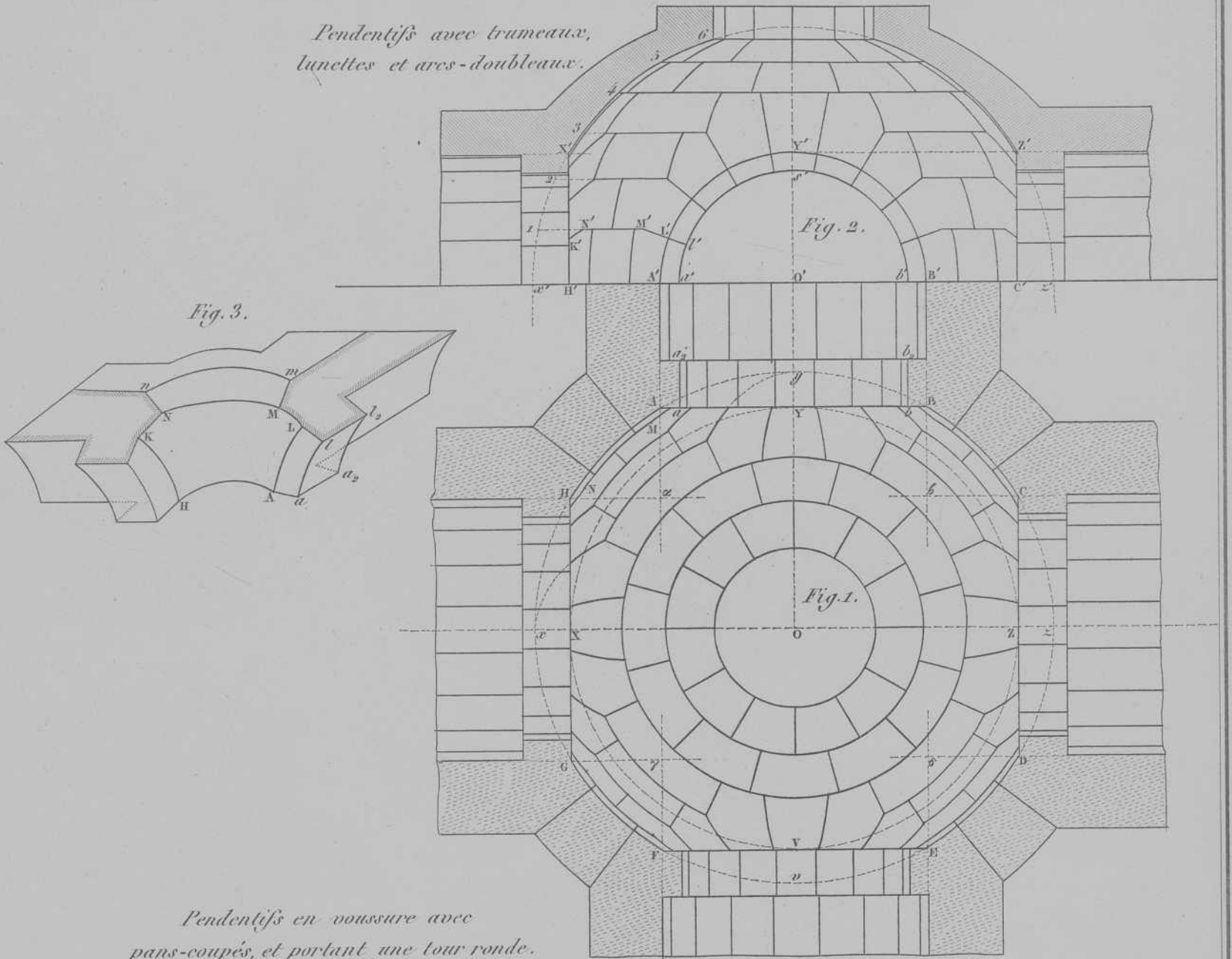
Fig. 8.



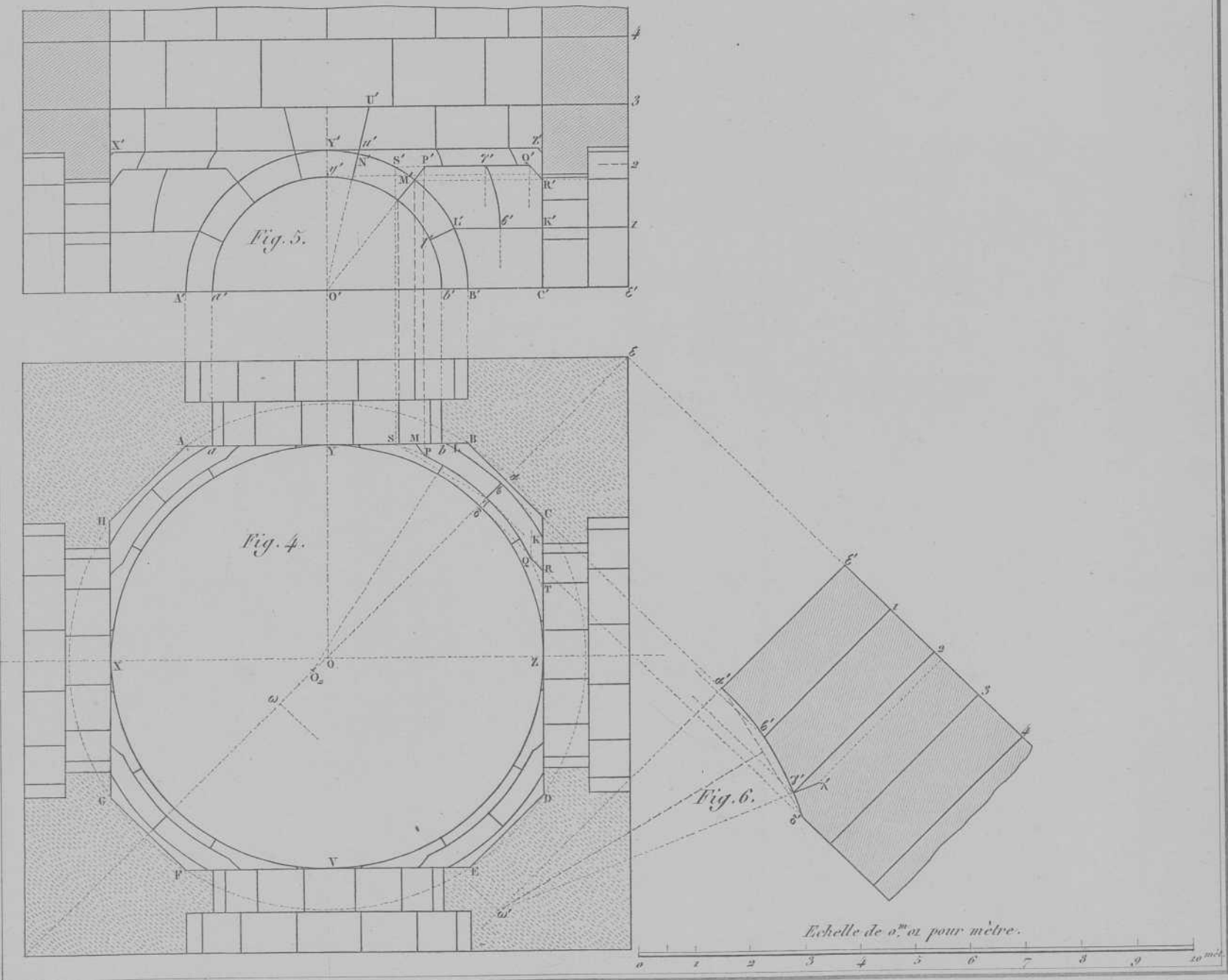
Echelle de 0.05 pour mètre.



*Pendentifs avec trumeaux,
lunettes et arcs-doubleaux.*



*Pendentifs en voûture avec
pans-coupés, et portant une tour ronde.*



Echelle de 0^m à 10 pour mètre.

Voûtes d'arêtes en Tour ronde.

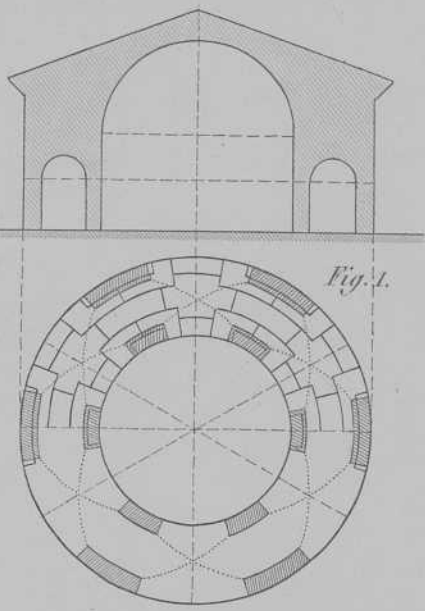


Fig. 1.

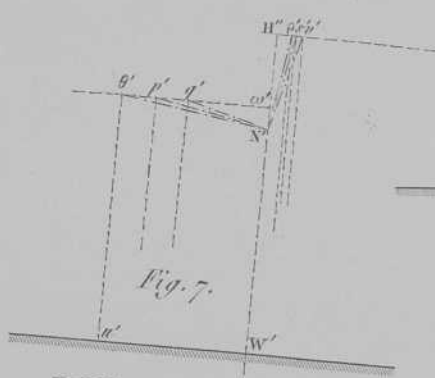


Fig. 7.

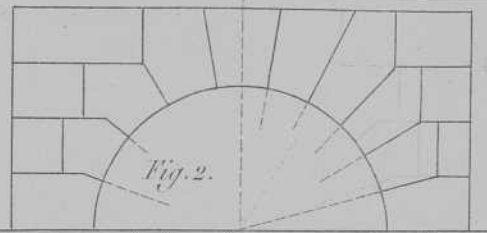


Fig. 2.

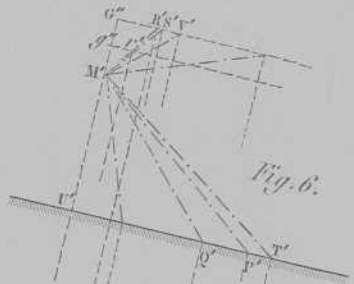


Fig. 6.

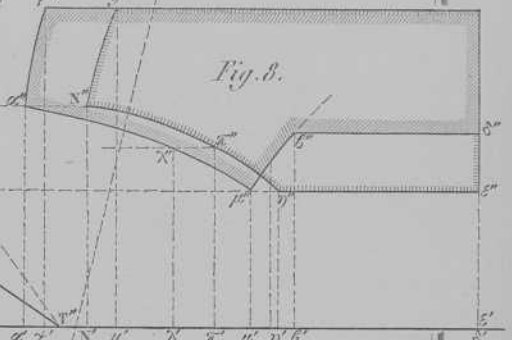


Fig. 8.

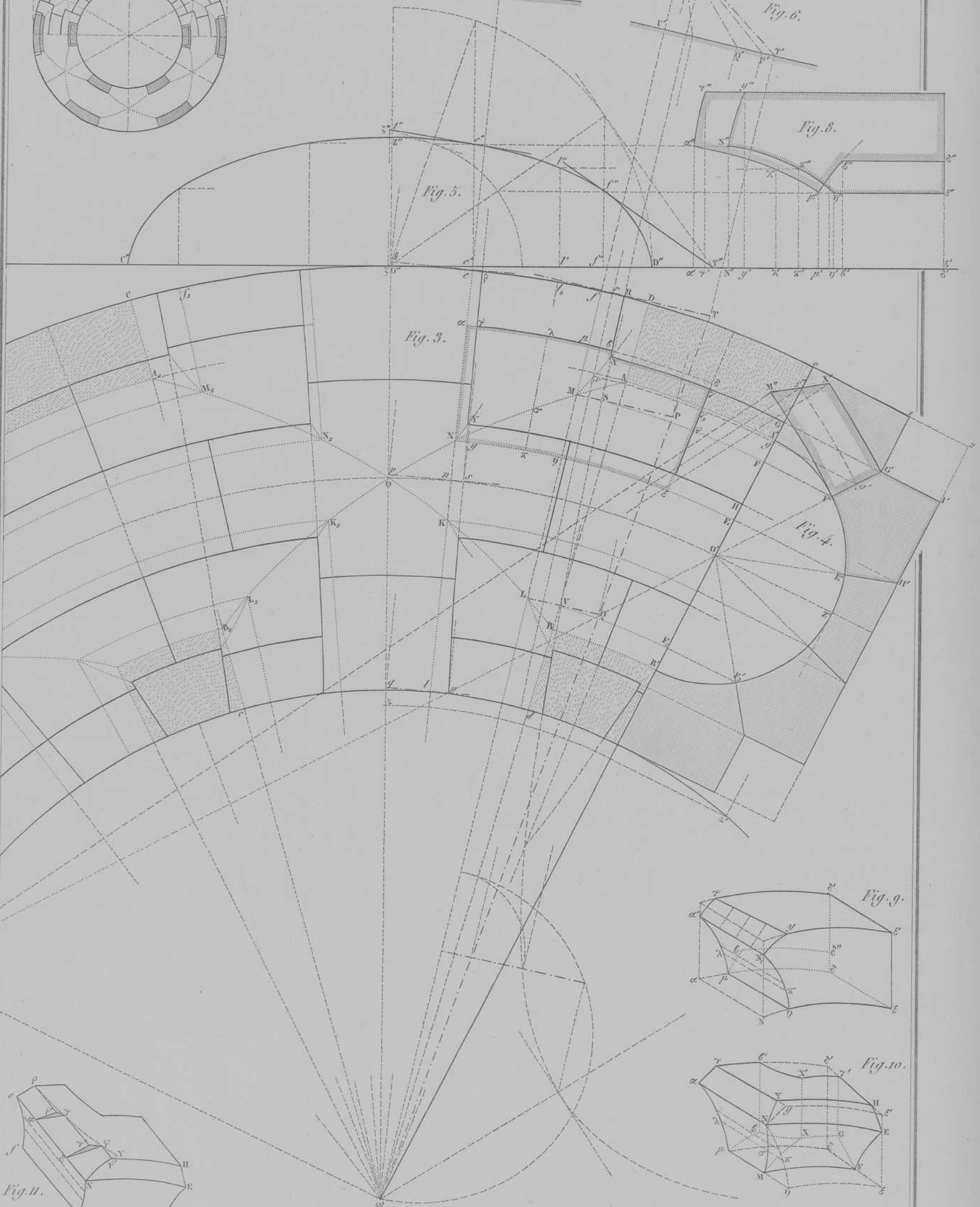


Fig. 3.

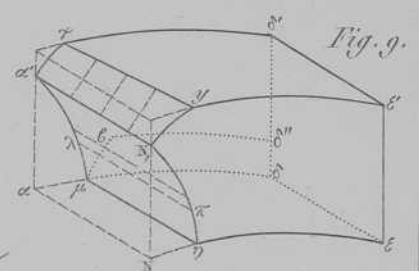


Fig. 9.

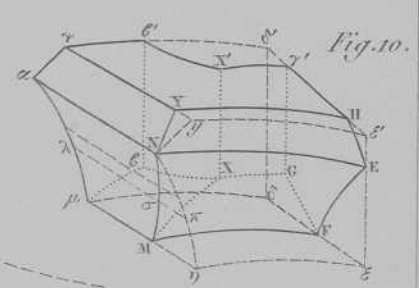


Fig. 10.

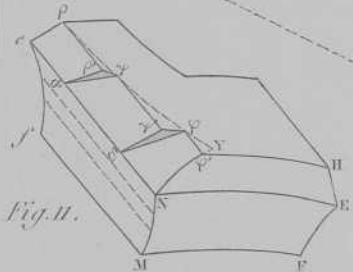
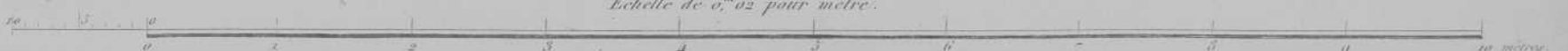


Fig. 11.

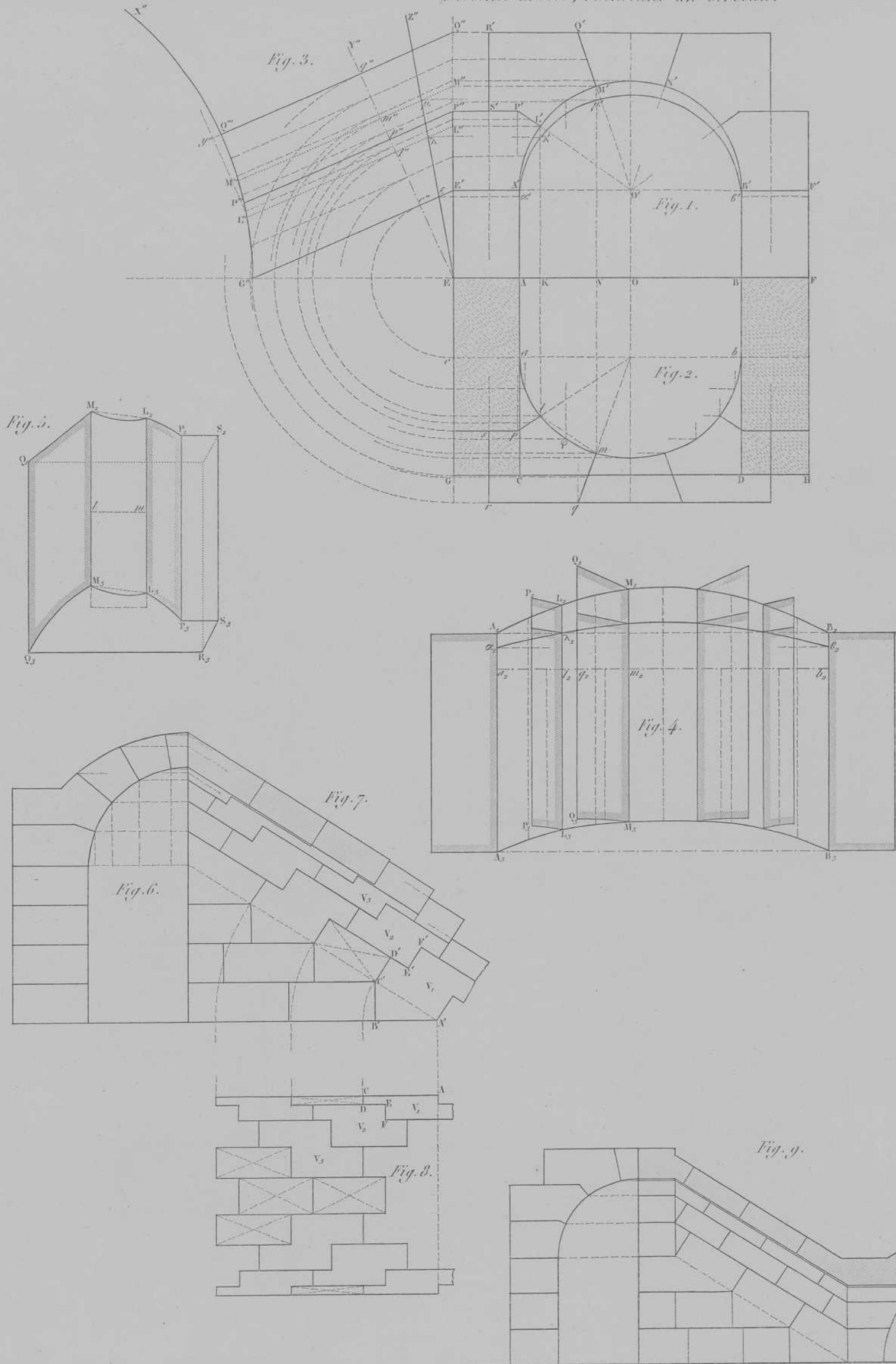
Flouray del.

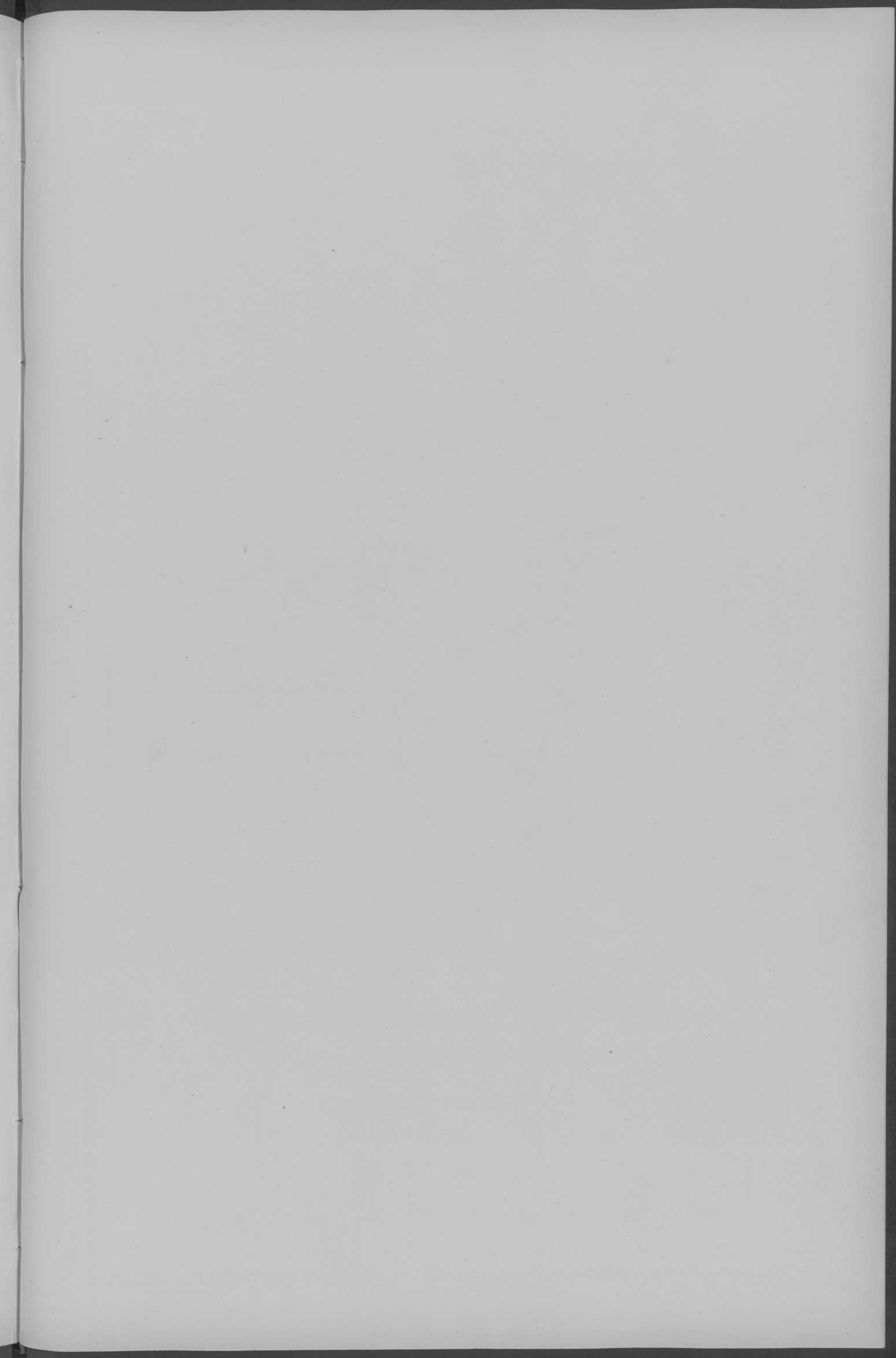
Echelle de 0^m02 pour mètre.

Adam et Dalar sc.

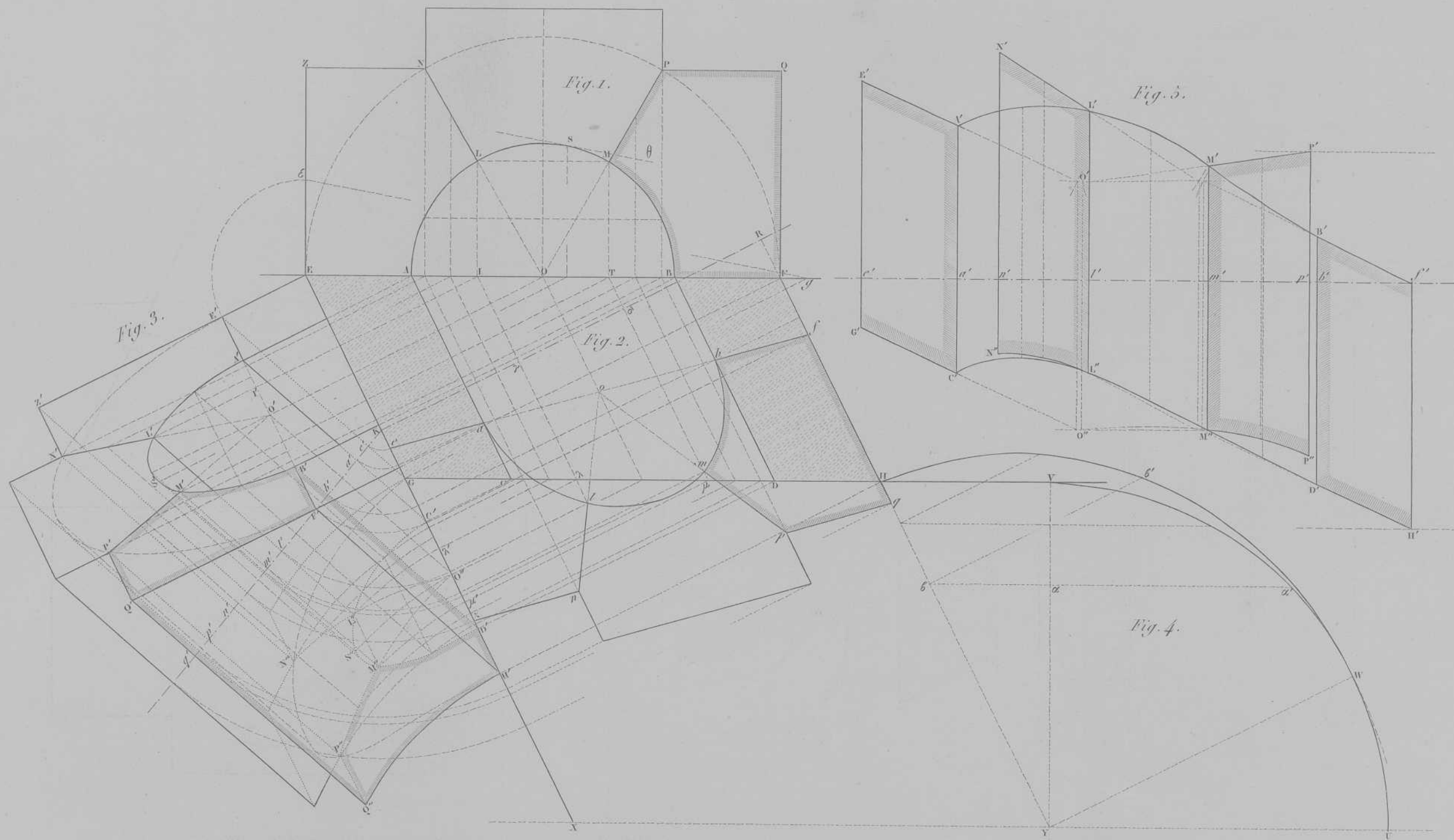


Descente droite, rattachant un berceau.

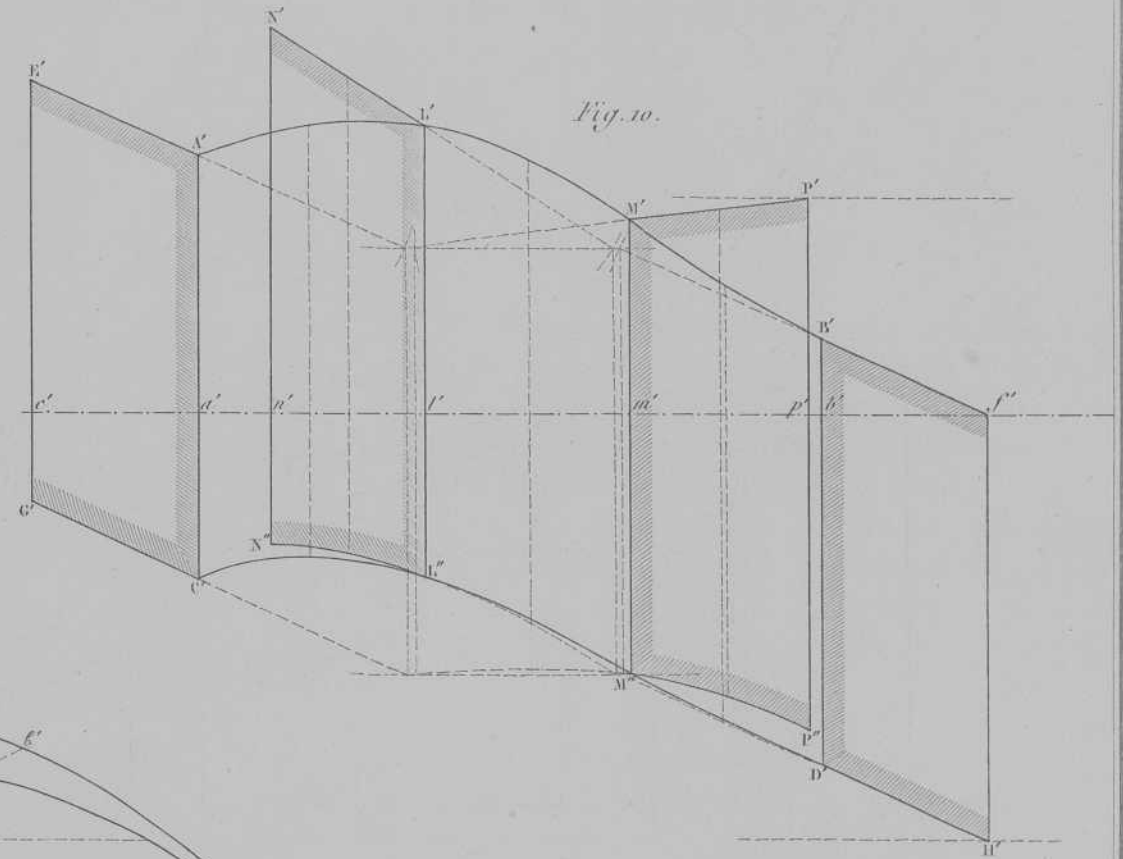
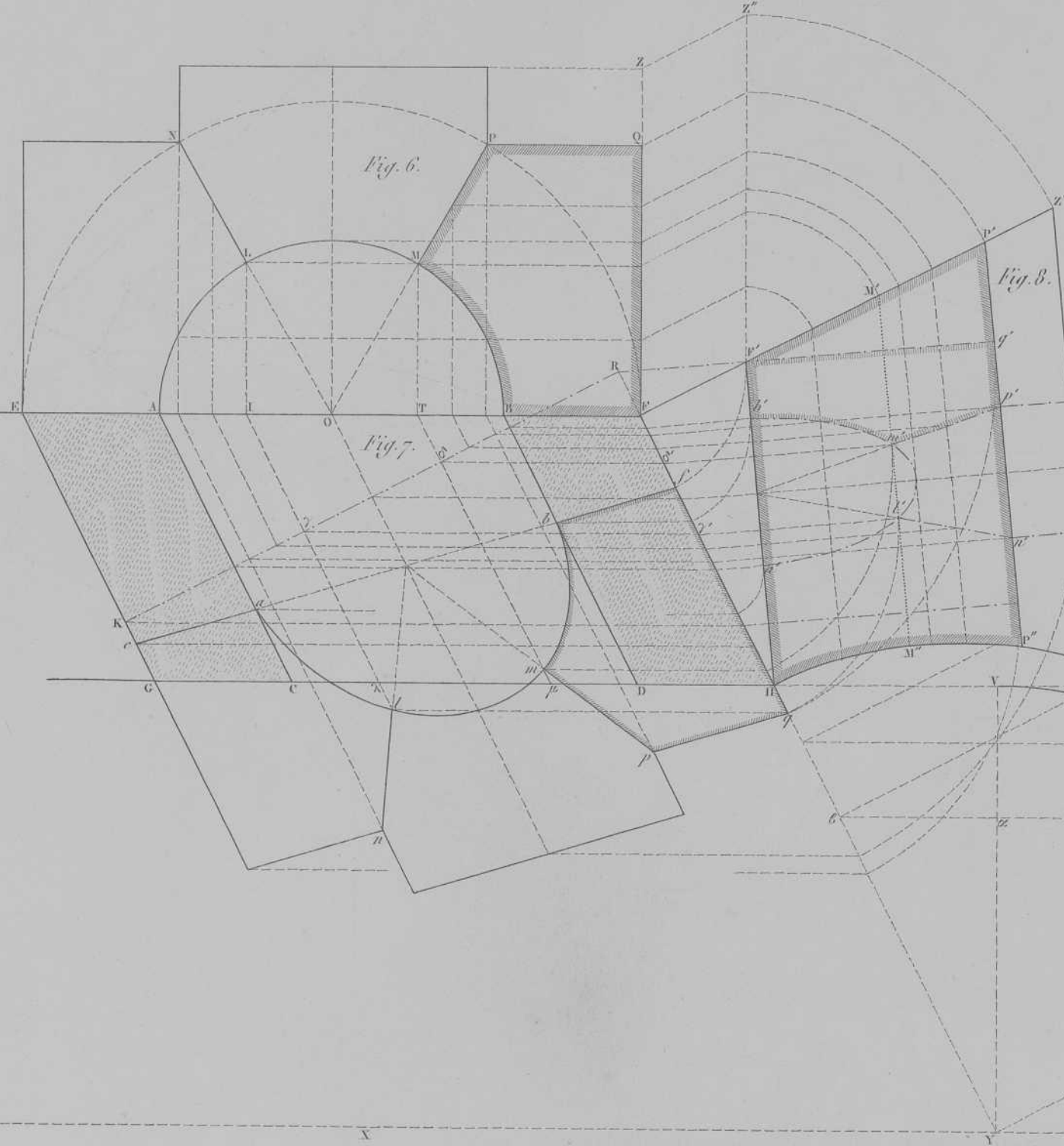




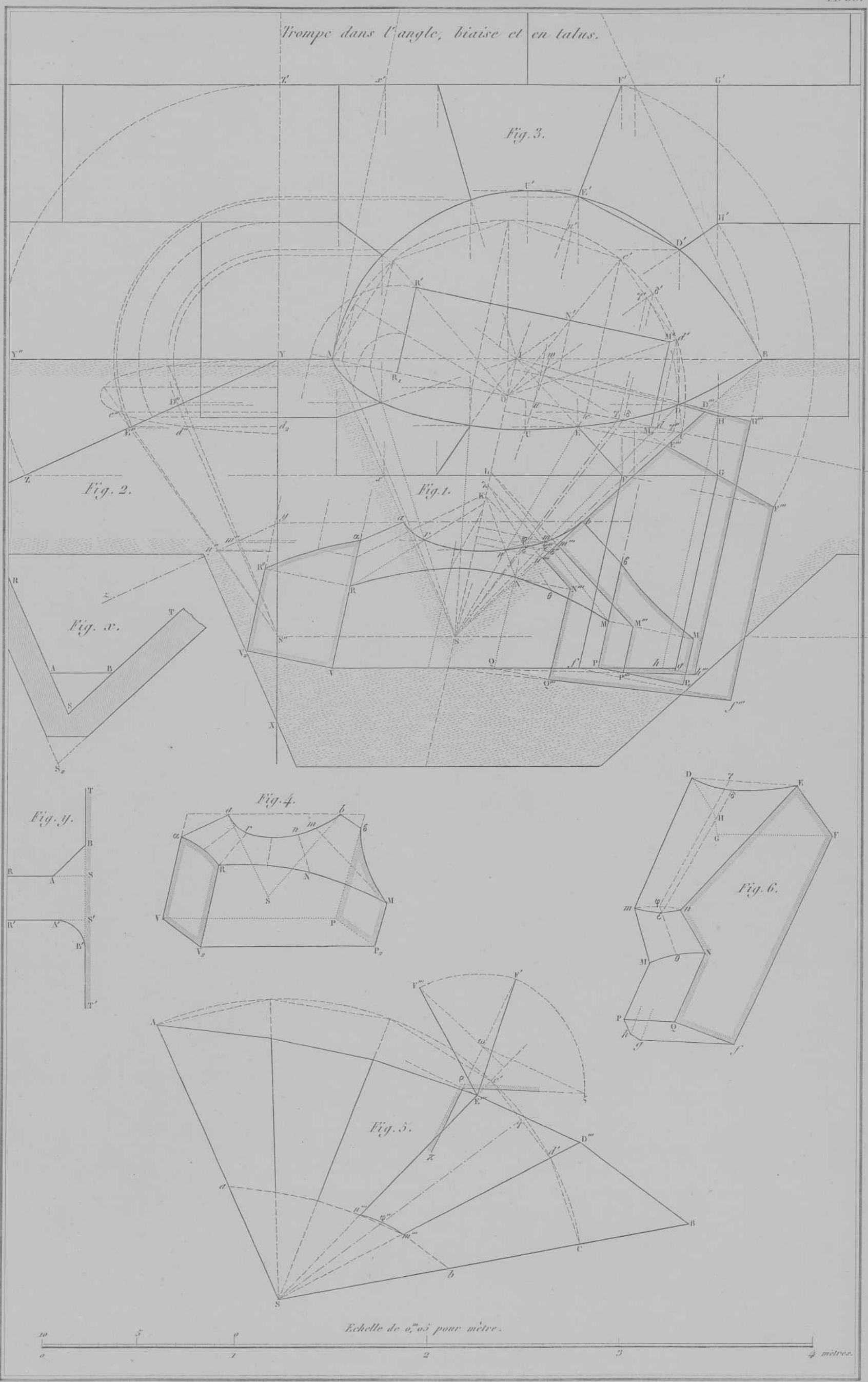
Descente biaise, rachetant un berceau en maçonnerie.



Descente biaise, rachetant un berceau : 2^{ème} solution.



Trompe dans l'angle, biaise et en talus.



Trompe sur le coin.

Fig. 2.

Fig. 3.

Fig. 1.

Fig. 4.

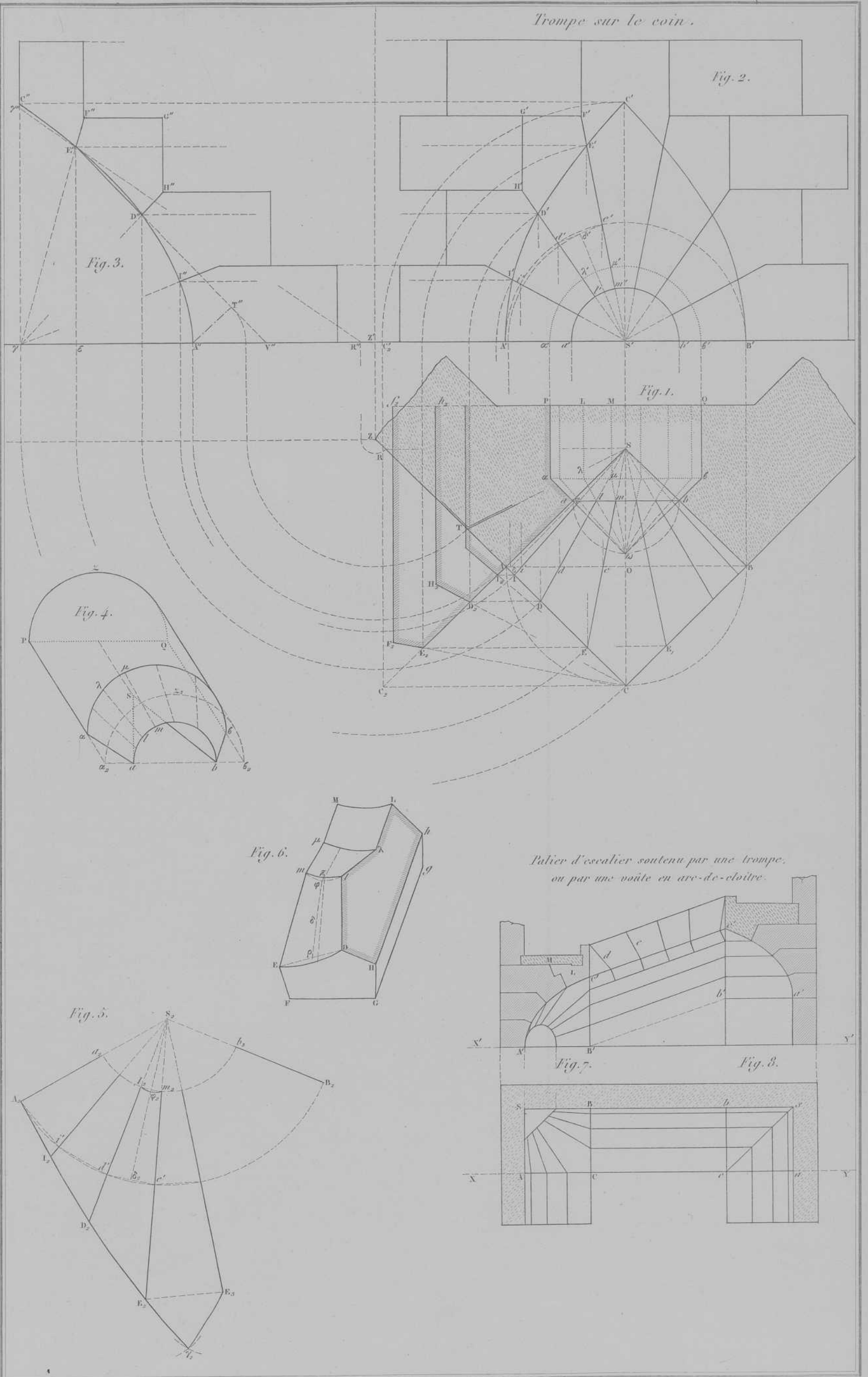
Fig. 6.

Fig. 5.

*Palier d'escalier soutenu par une trompe,
ou par une voûte en arc-de-cloître.*

Fig. 7.

Fig. 8.



Trompe cylindrique.

Fig. 3.

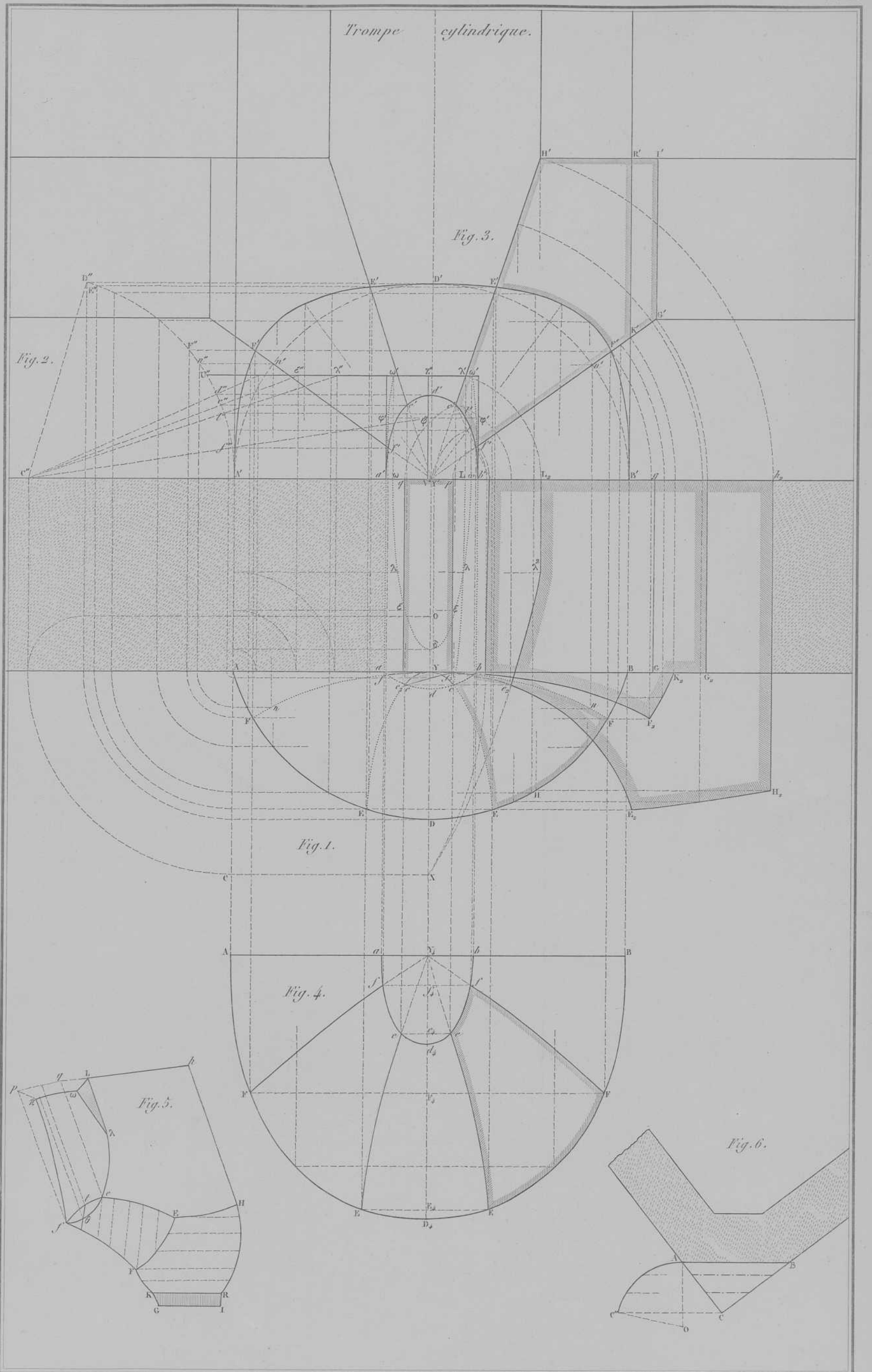
Fig. 2.

Fig. 1.

Fig. 4.

Fig. 5.

Fig. 6.



Dimensions de la cage $\begin{cases} VX = 2^m 50. \\ XY = 5, 52. \end{cases}$
 Longueur de l'emmarchement $L = 1, 92.$
 Distance des courbes de jour et de foulée $D = 0, 48.$
 Largeur du giron $G = 0, 32.$
 Hauteur des marches $H = 0, 16.$

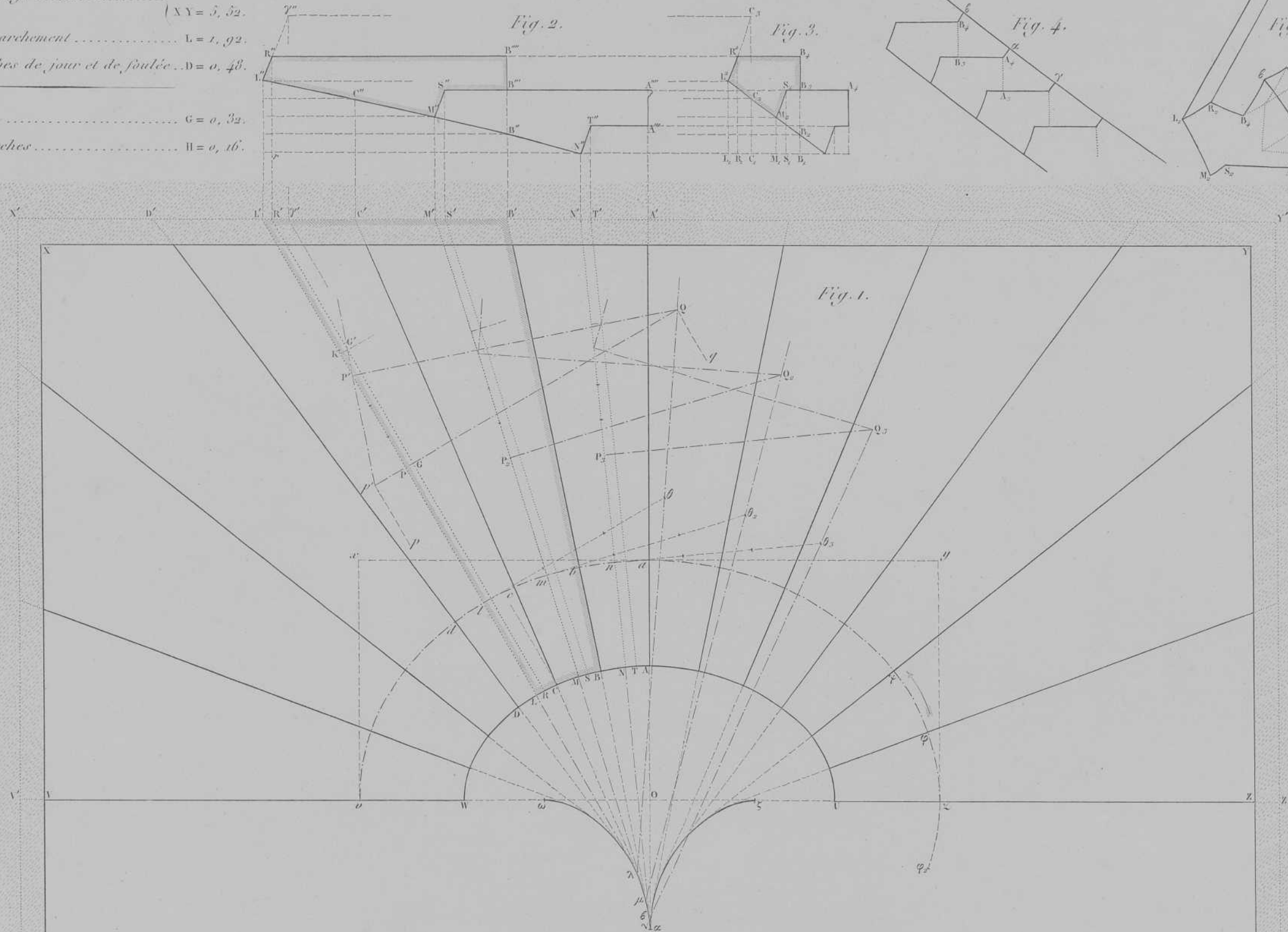
Escalier suspendu, dit: Vis-à-jour.

Fig. 2.

Fig. 3.

Fig. 4.

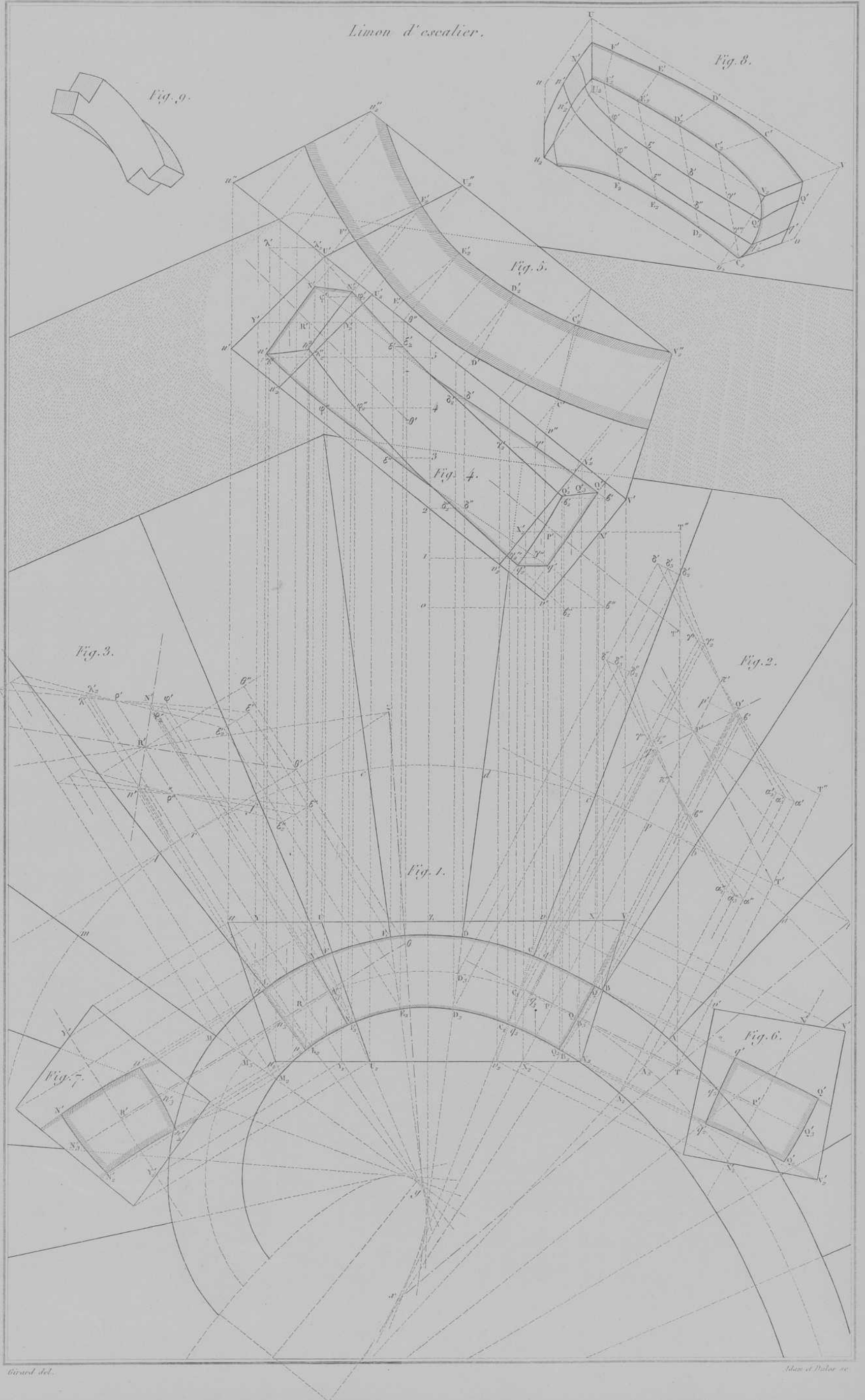
Fig. 5.



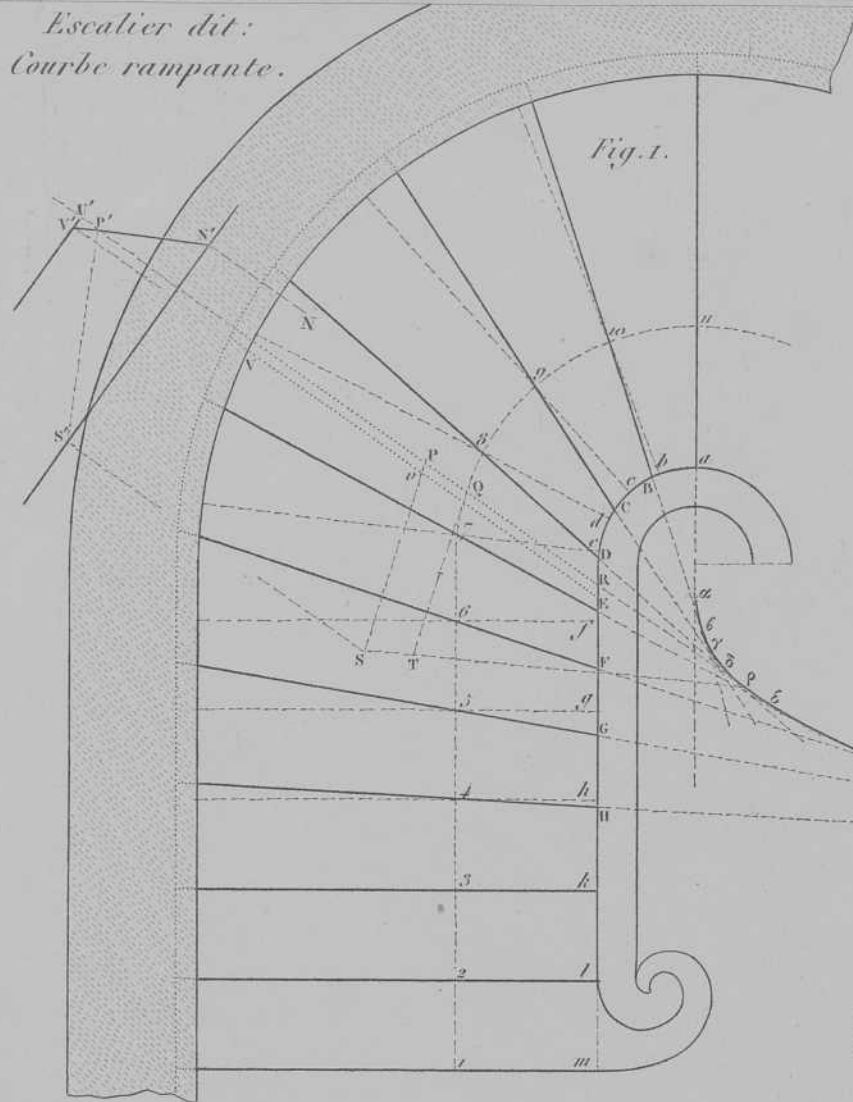
Echelle de 0,05 pour mètre.



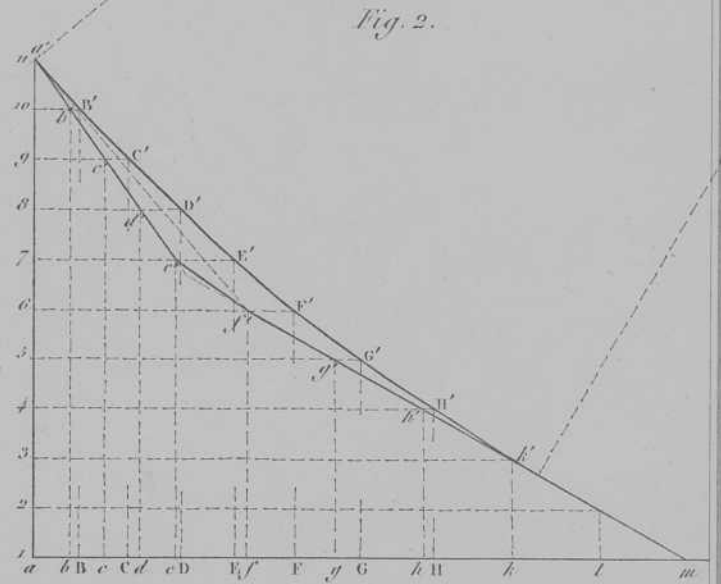
Limon d'escalier.



*Escalier dit :
Courbe rampante.*



Balancement.



Echelle de 0.04 pour mètre.

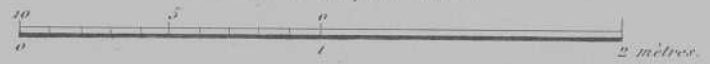


Fig. 10.

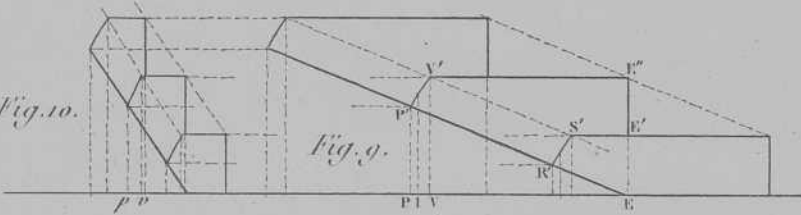


Fig. 5.

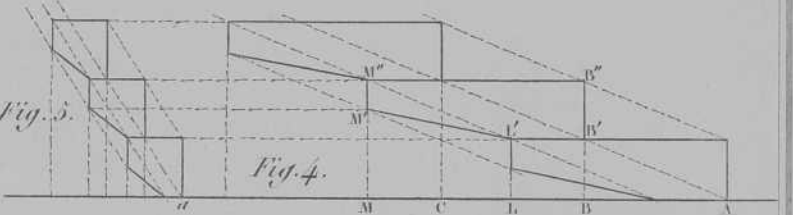


Fig. 8.

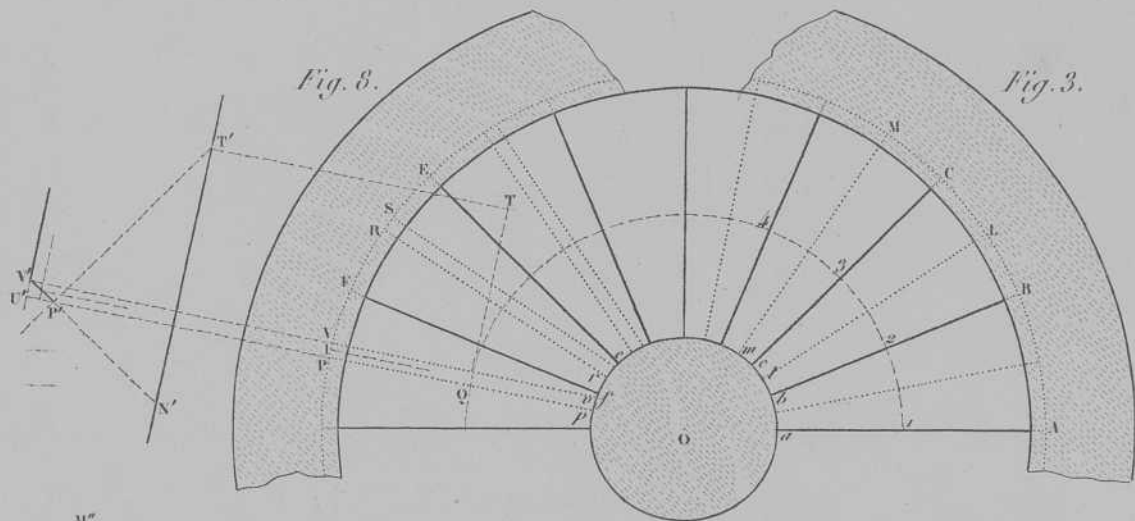


Fig. 3.

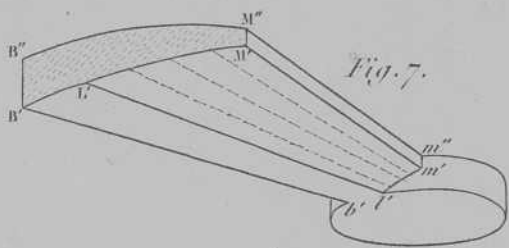
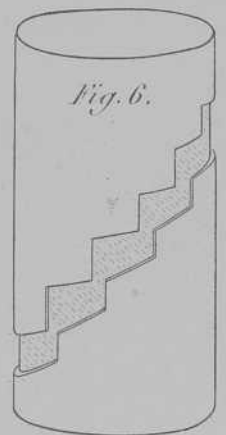


Fig. 7.

*Escaliers, dits :
Vis à noyau plein.*

Fig. 15.

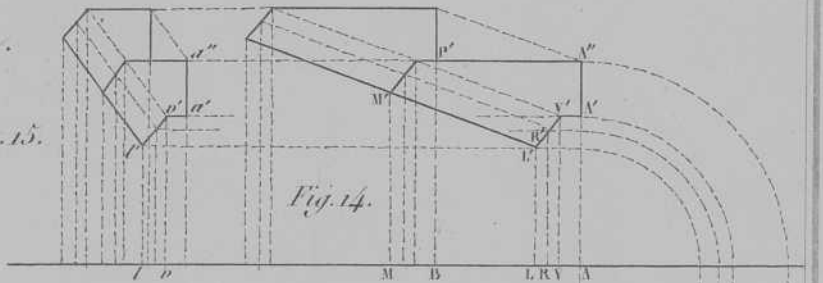


Fig. 14.

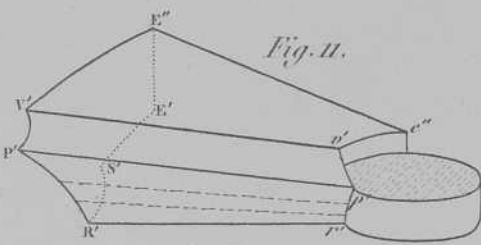


Fig. 11.

Fig. 16.

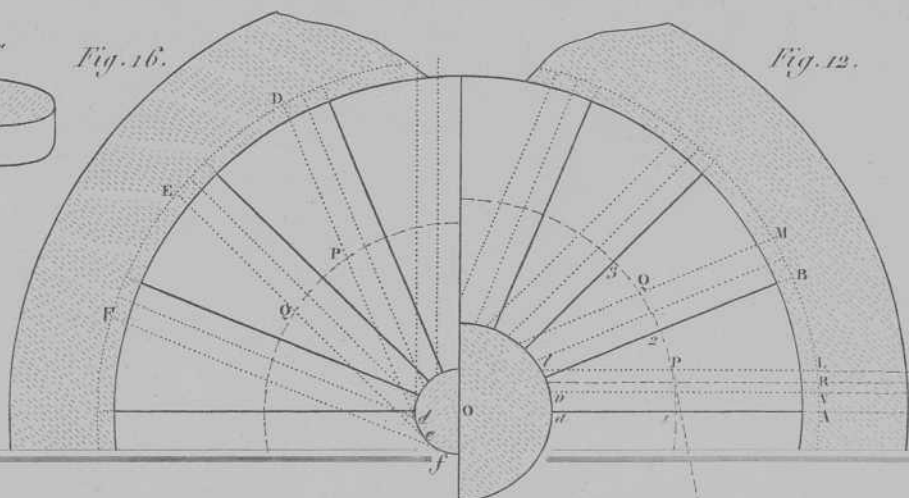
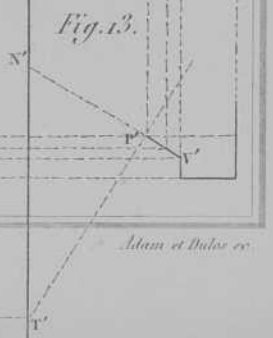


Fig. 12.

Fig. 13.



Notes

[Faint, illegible handwritten notes covering the majority of the page. The text is too light to transcribe accurately.]

Vie Saint - Gilles.

Fig. 10.

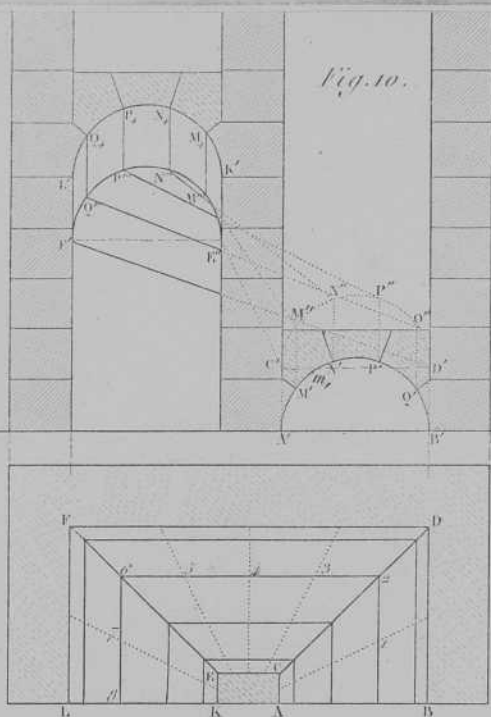


Fig. 7.

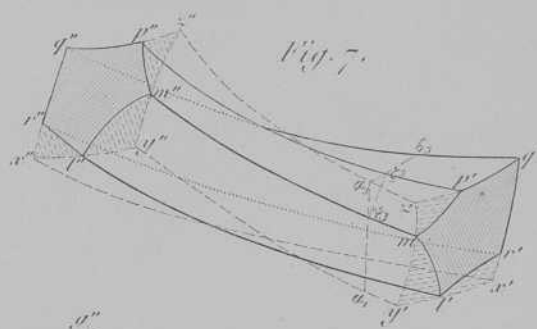


Fig. 6.

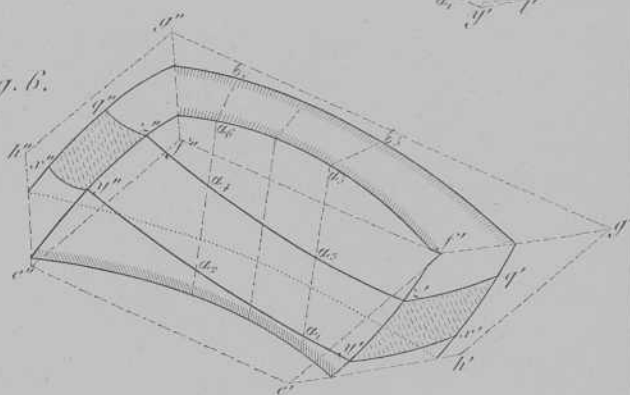


Fig. 5.

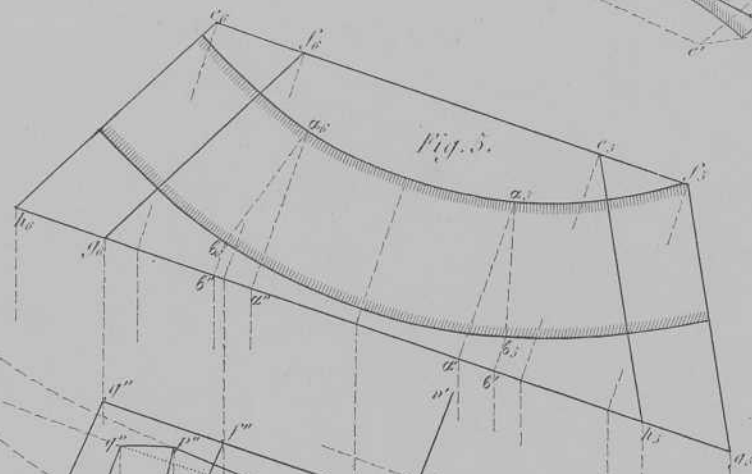


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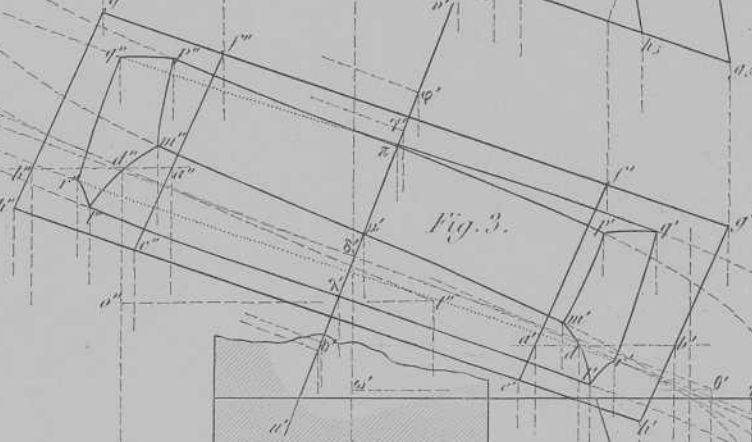


Fig. 2.

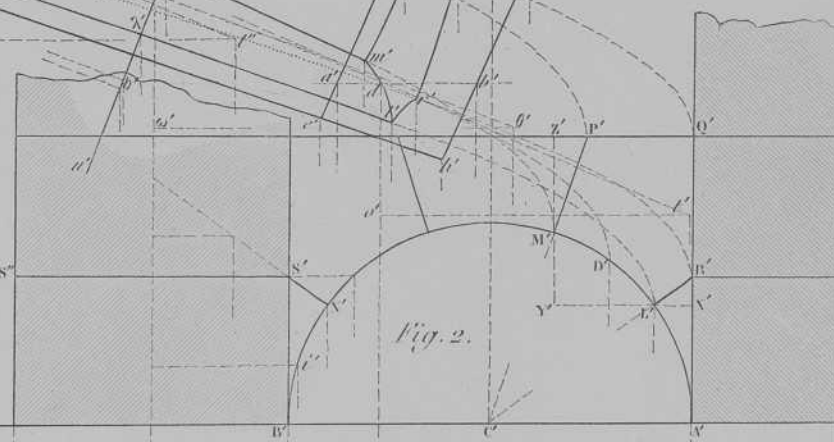


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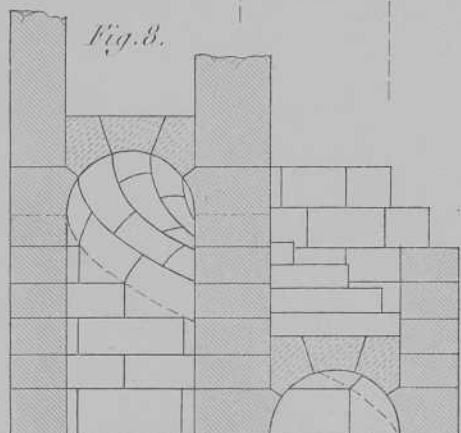


Fig. 9.

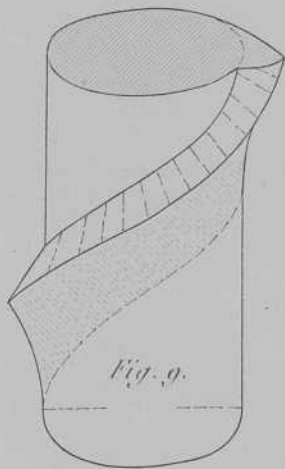
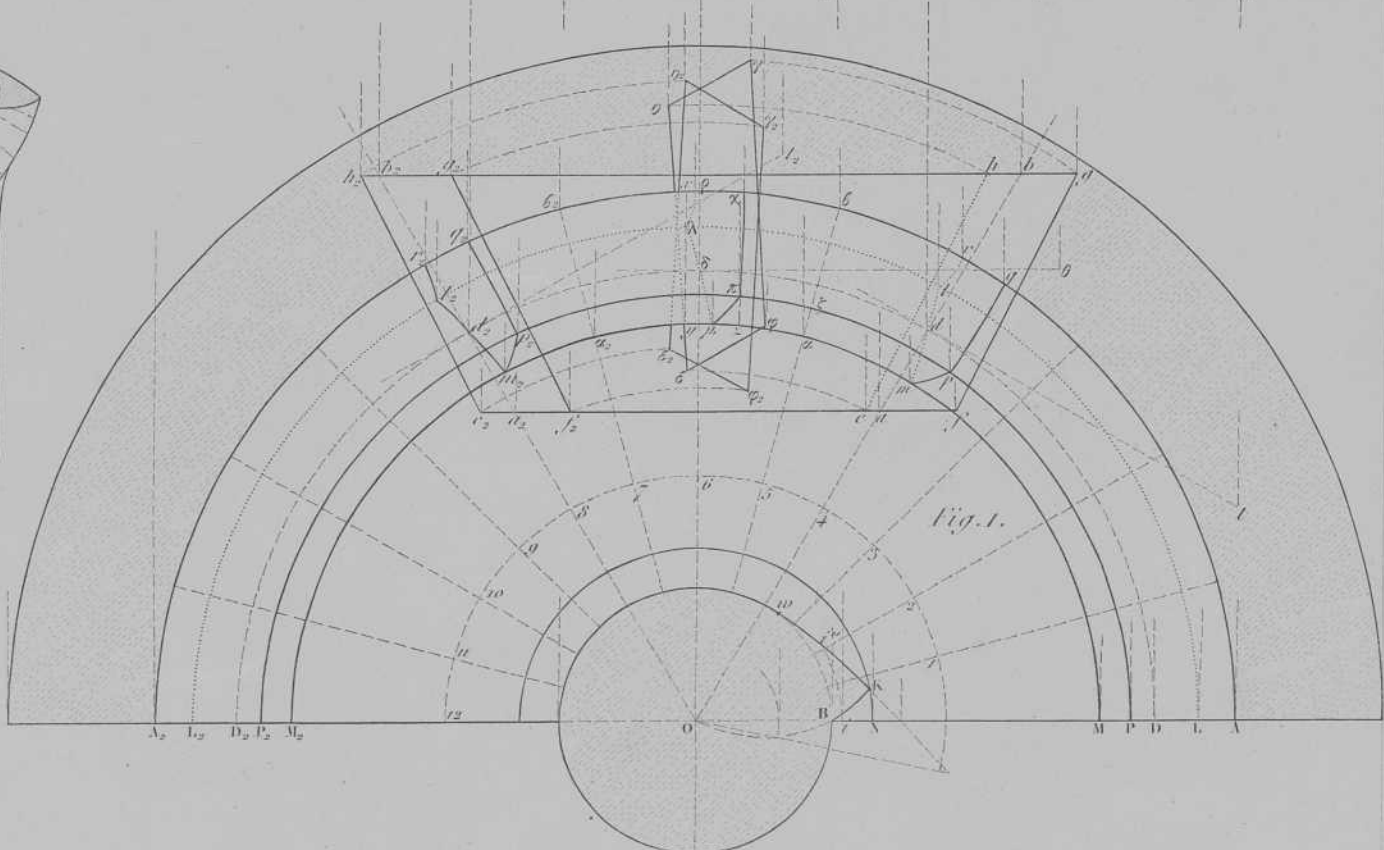
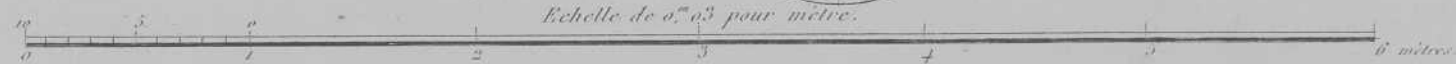
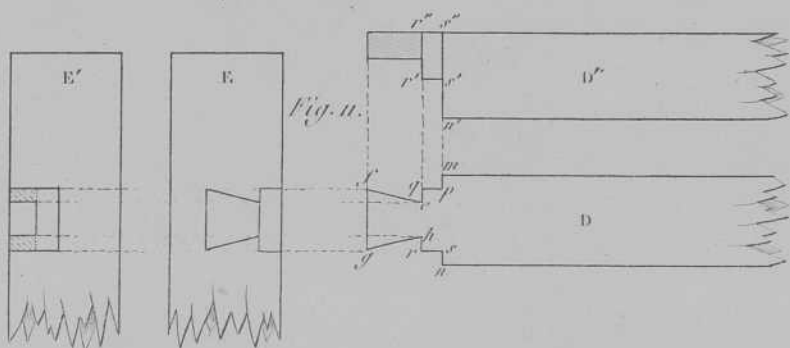
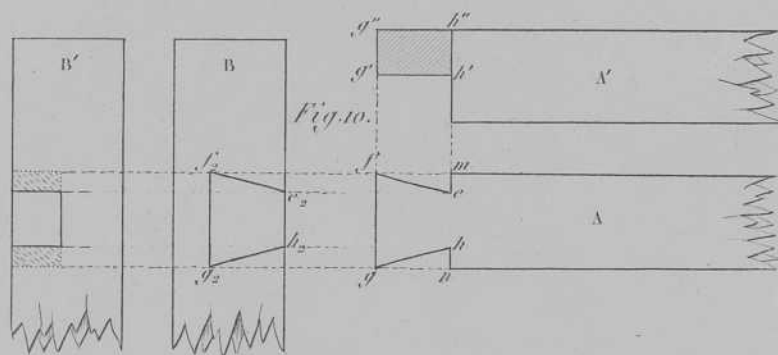
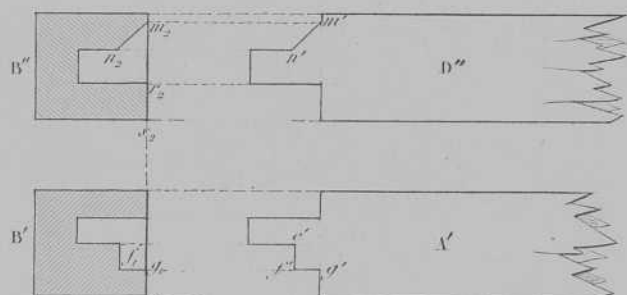
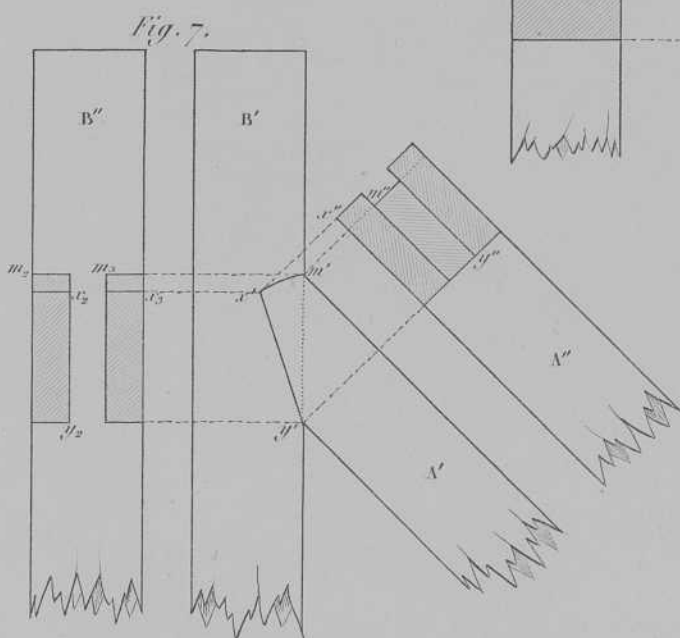
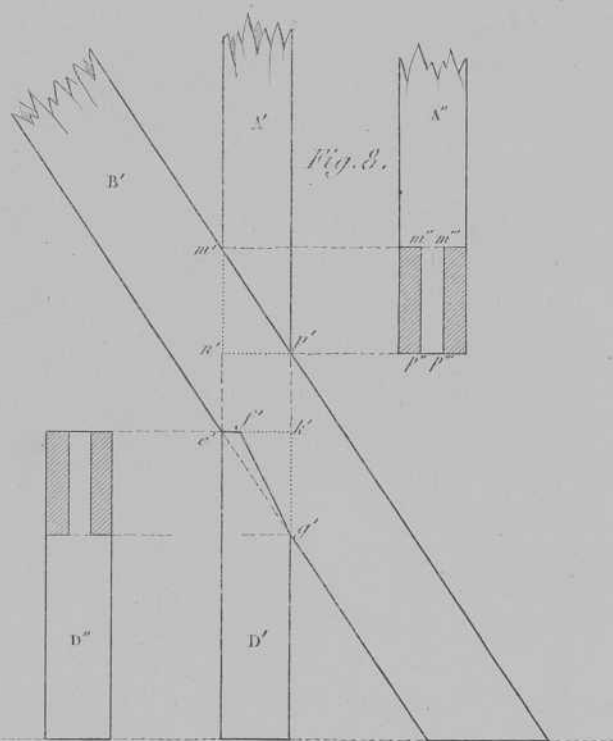
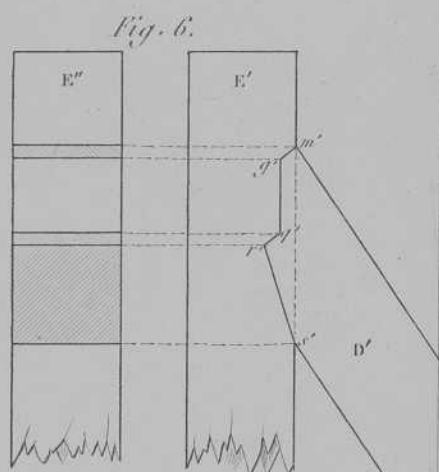
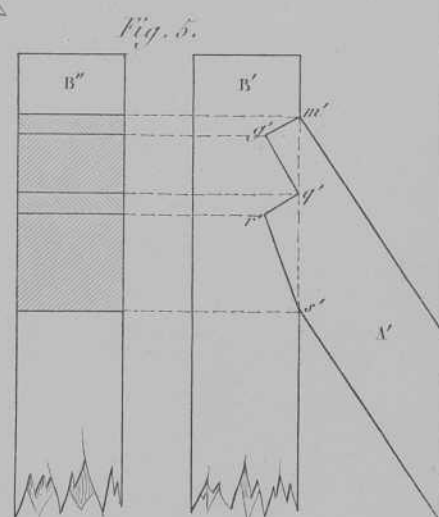
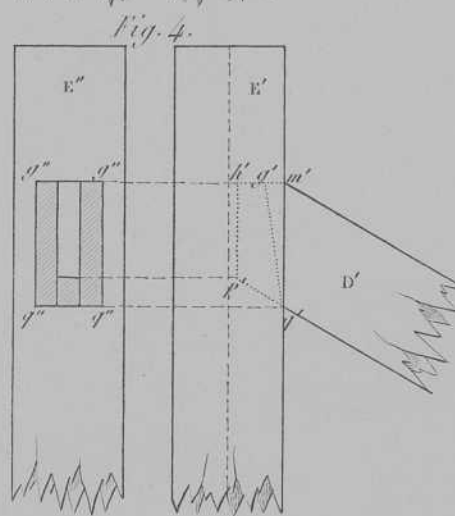
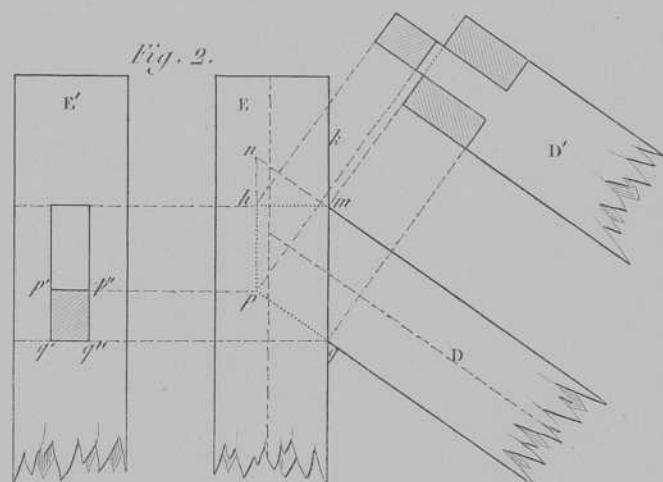
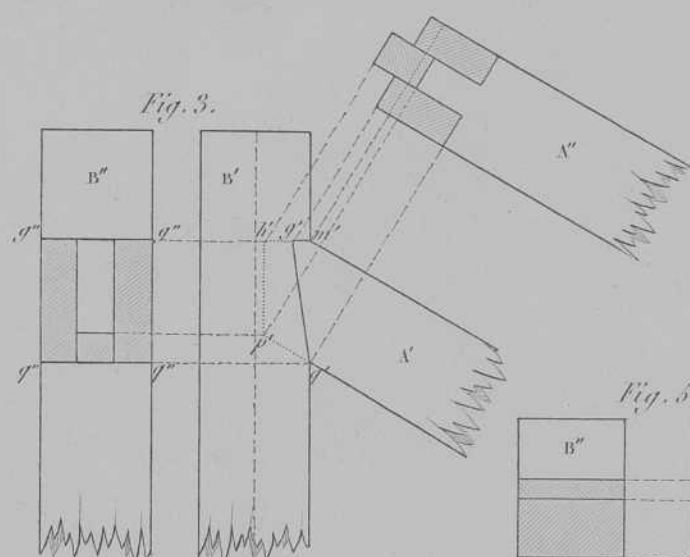
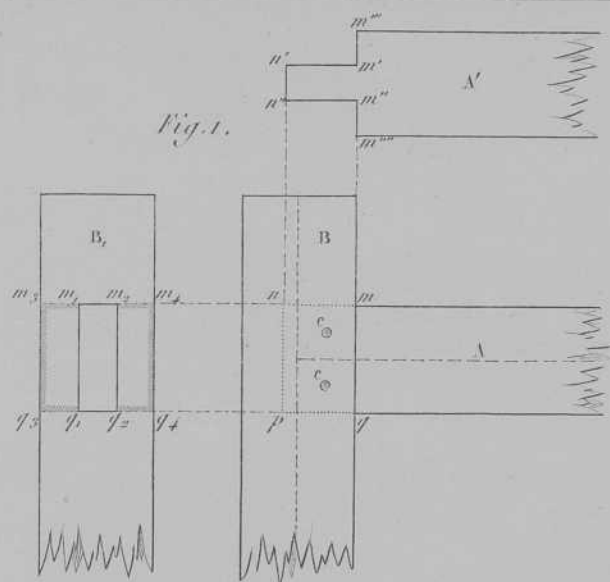


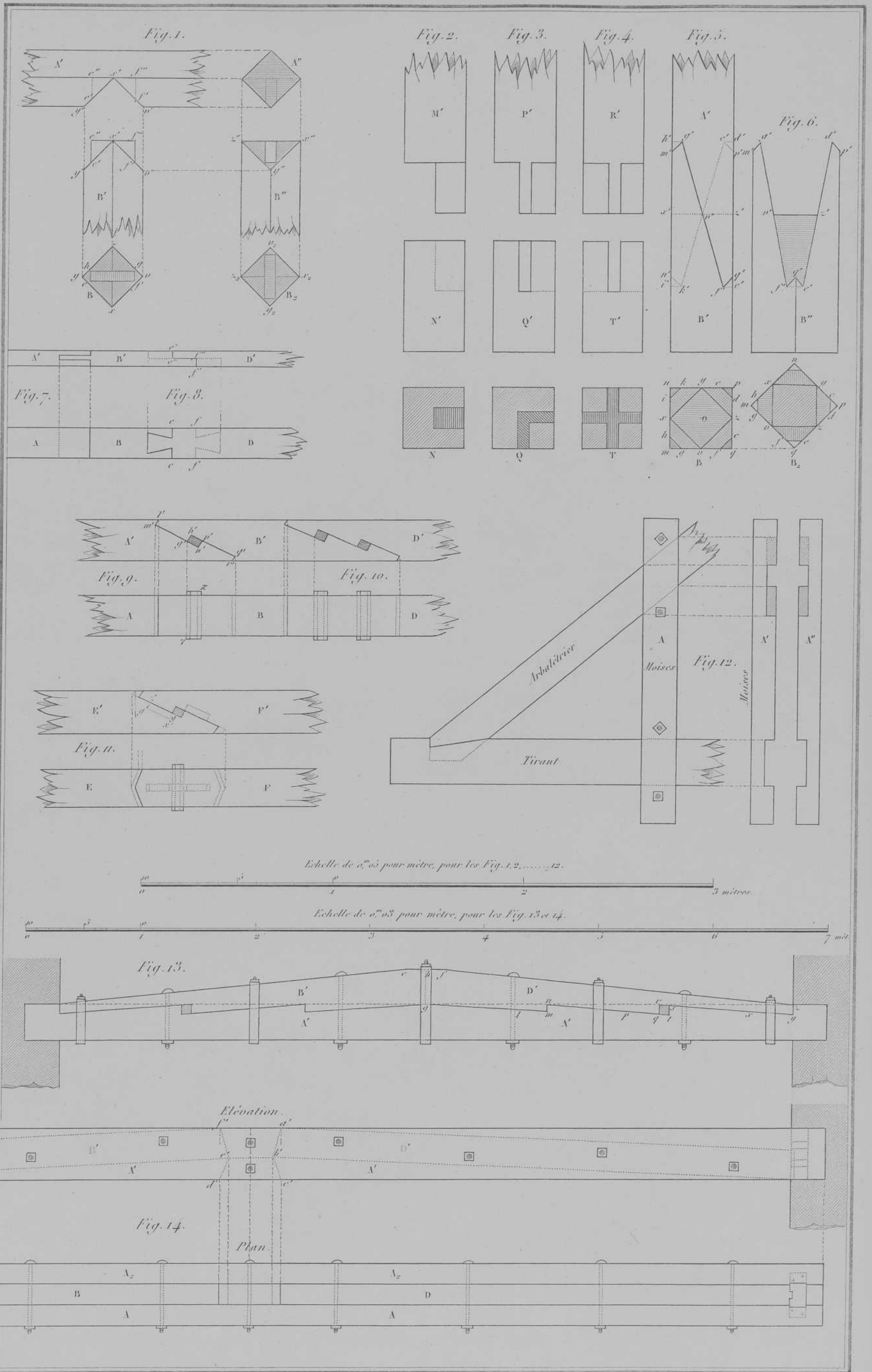
Fig. 1.

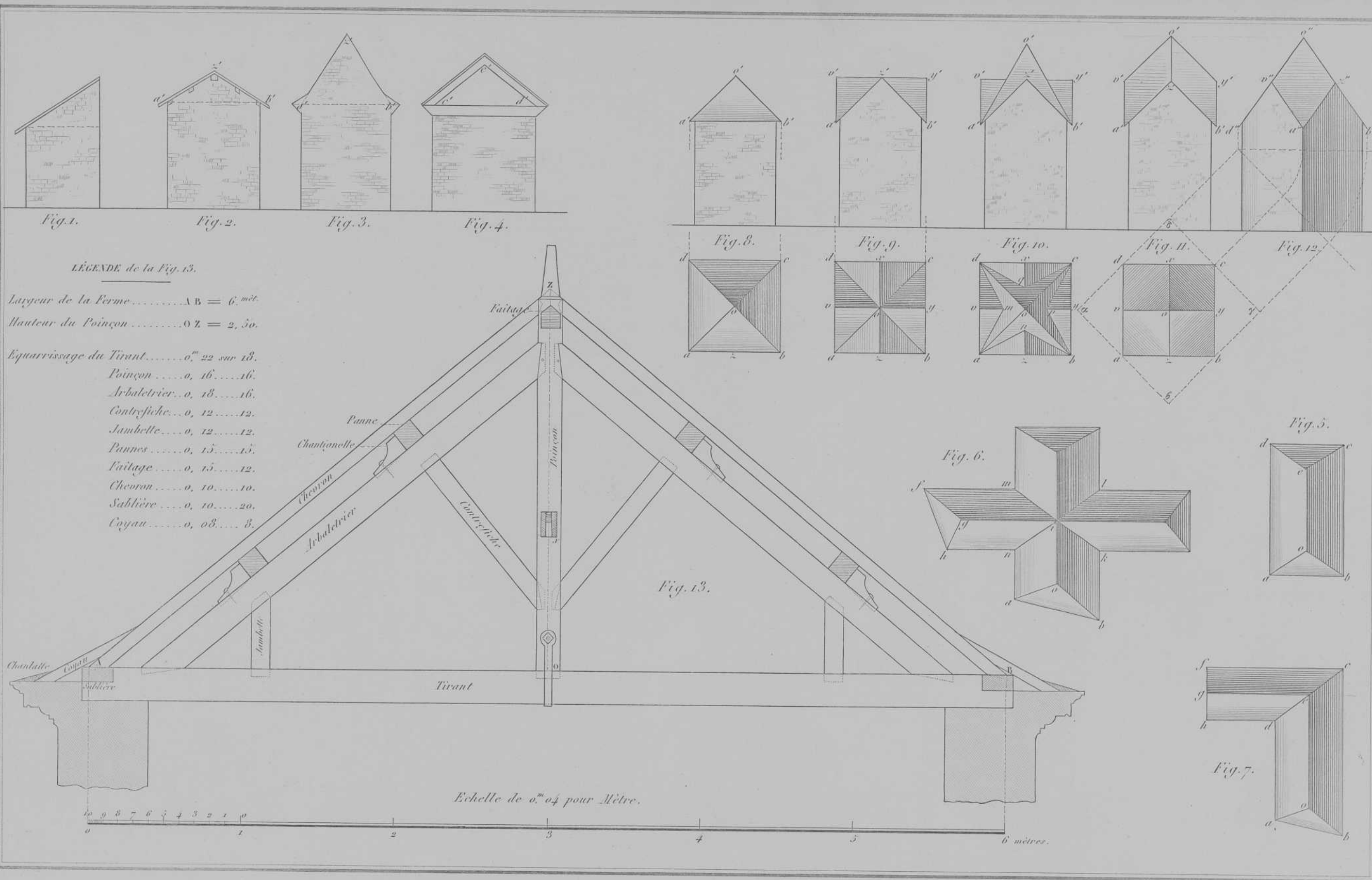


Echelle de 0.03 pour mètre.









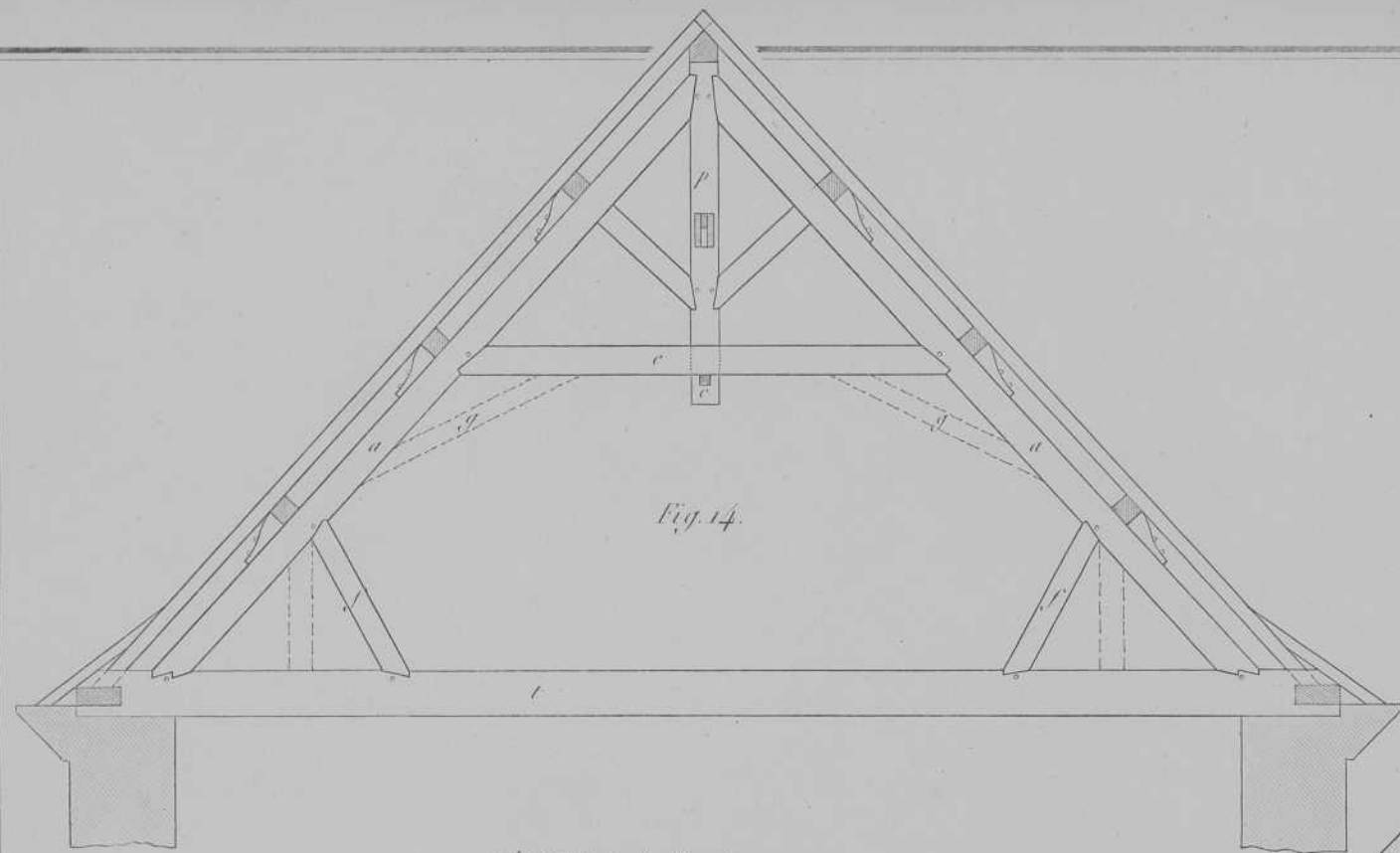


Fig. 14.

LÉGENDE de la Fig. 15.

	Egarrissage.
Tirant	0 ^m 48 sur 32.
Jambe de force	0, 30 ... 24.
Entrait	0, 25 ... 24.
Poinçon	0, 24 ... 24.
Arbalétrier	0, 25 ... 20.
Aisselier	0, 19 ... 16.
Jambette	19 ... 16.
Contrefiche	19 ... 16.
Panne et Lierne	20 ... 20.
Faitage	24 ... 24.
Sablère	30 ... 15.
Blochot	15 ... 12.
Chevron	10 ... 10.
Coque	3 ... 3.

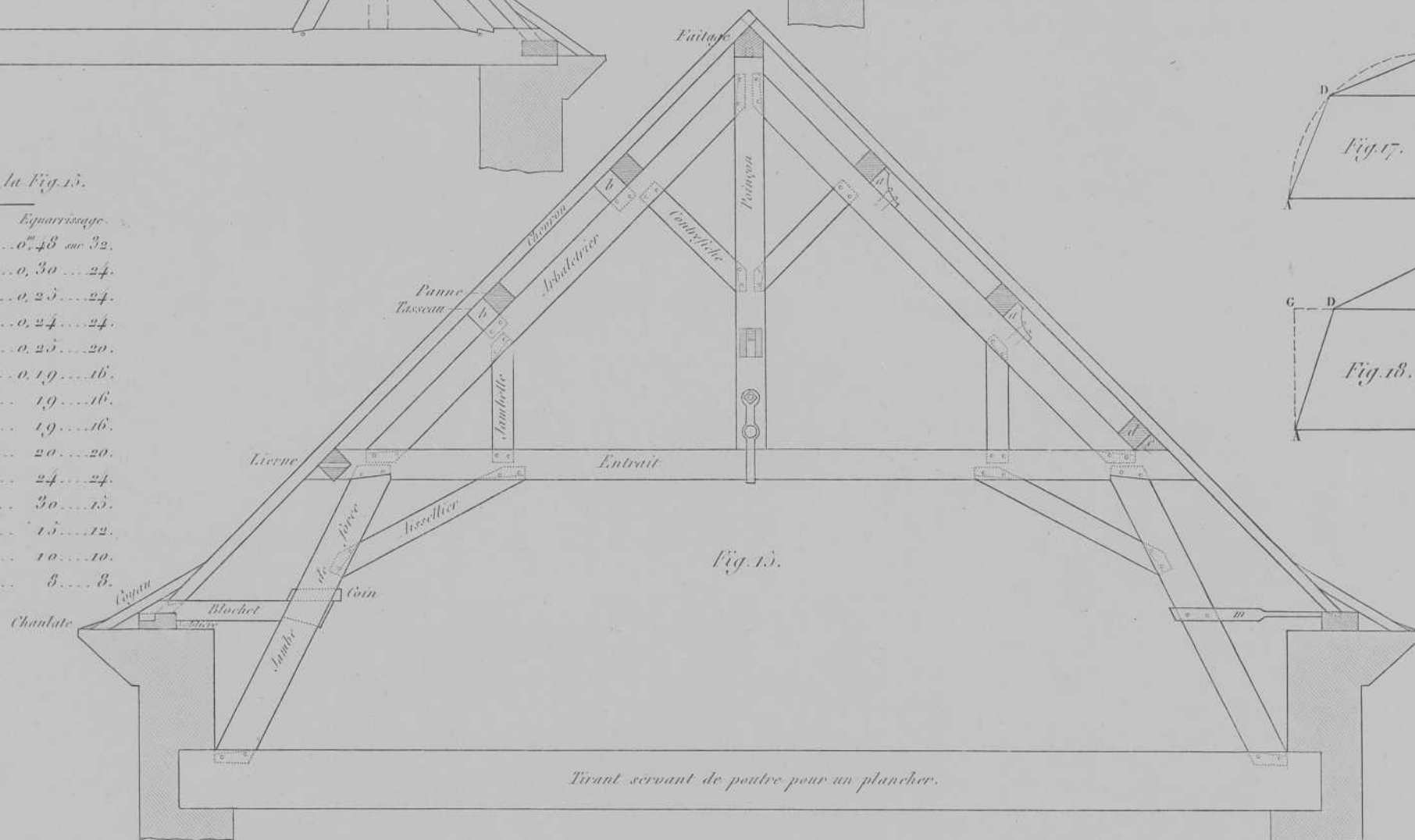


Fig. 15.

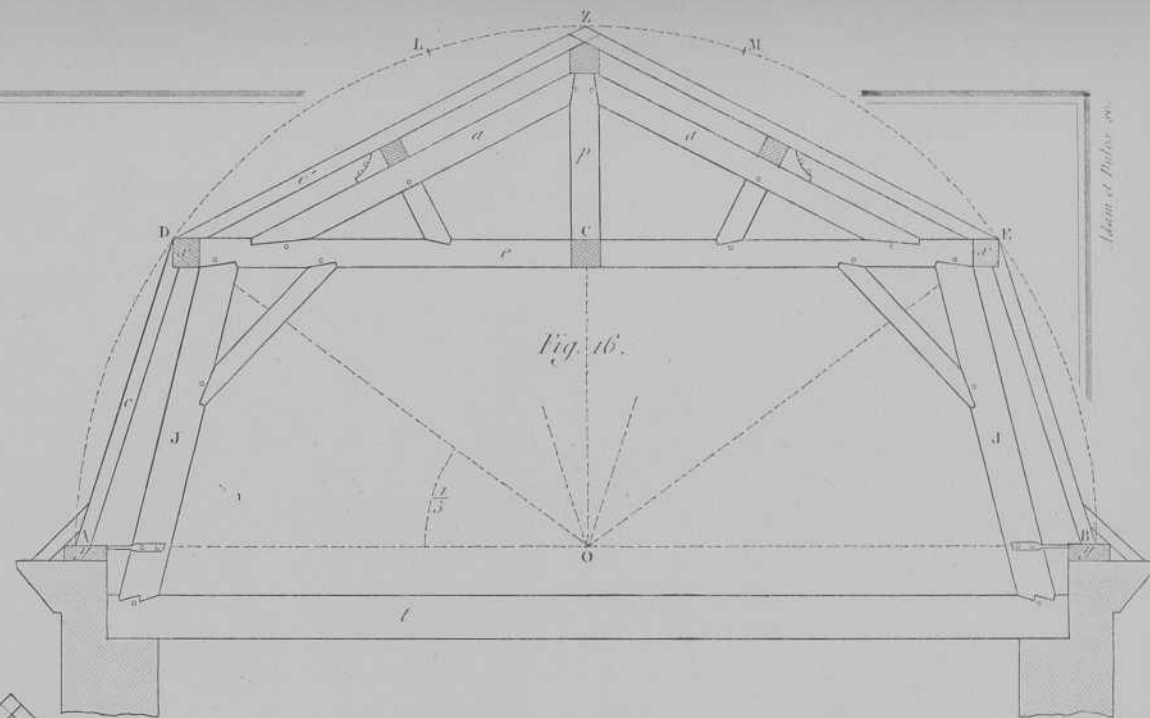


Fig. 16.

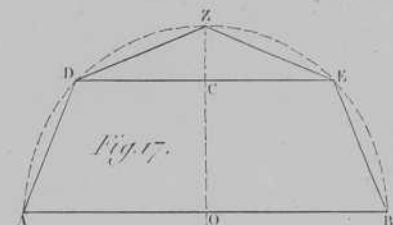


Fig. 17.

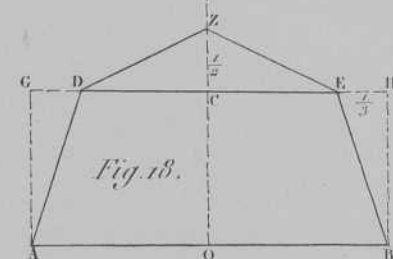
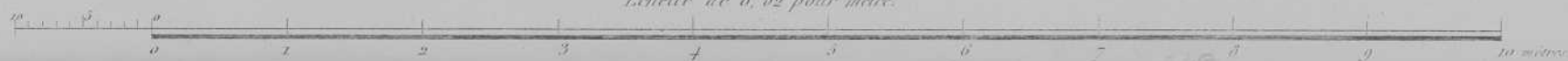


Fig. 18.



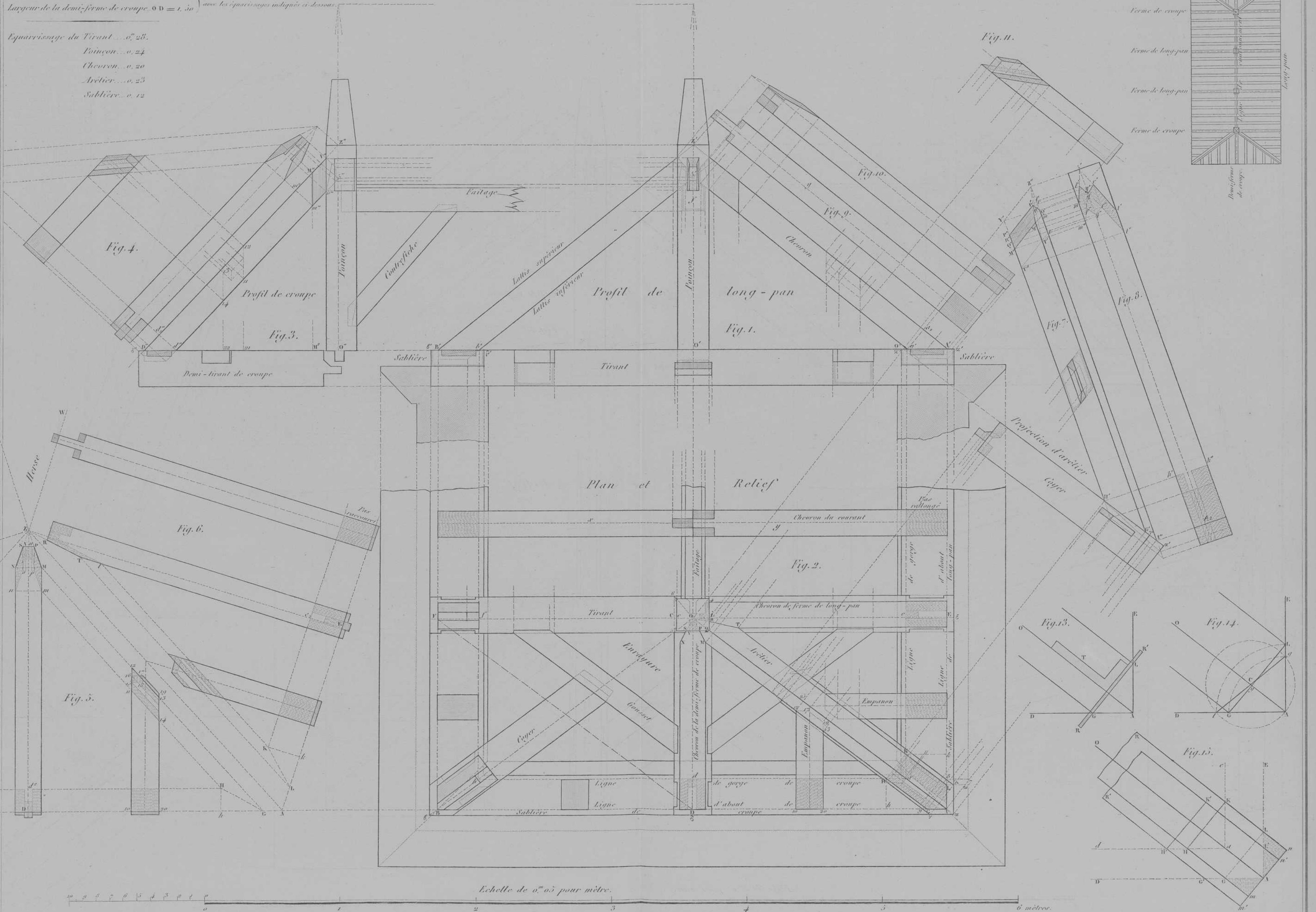
ON FRERES ET C^{ie}

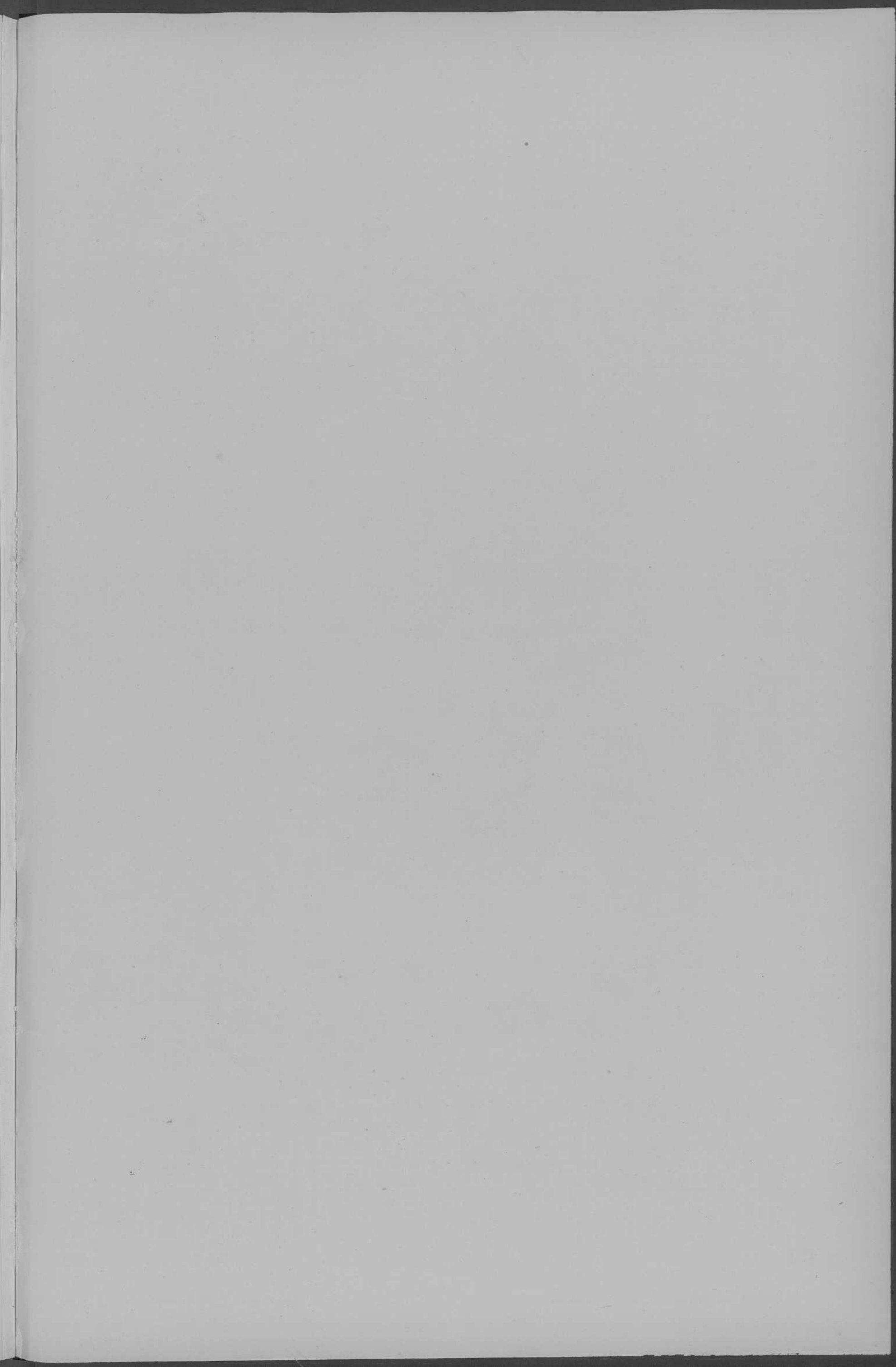
largeur de la ferme de long-pan $AB = 3,60$
 hauteur du pignon $OT = 1,60$
 largeur de la demi-ferme de croupe $OD = 1,50$

Ces trois longueurs doivent être doublées,
 pour se trouver dans un rapport convenable
 avec les équarissages indiqués ci-dessous.

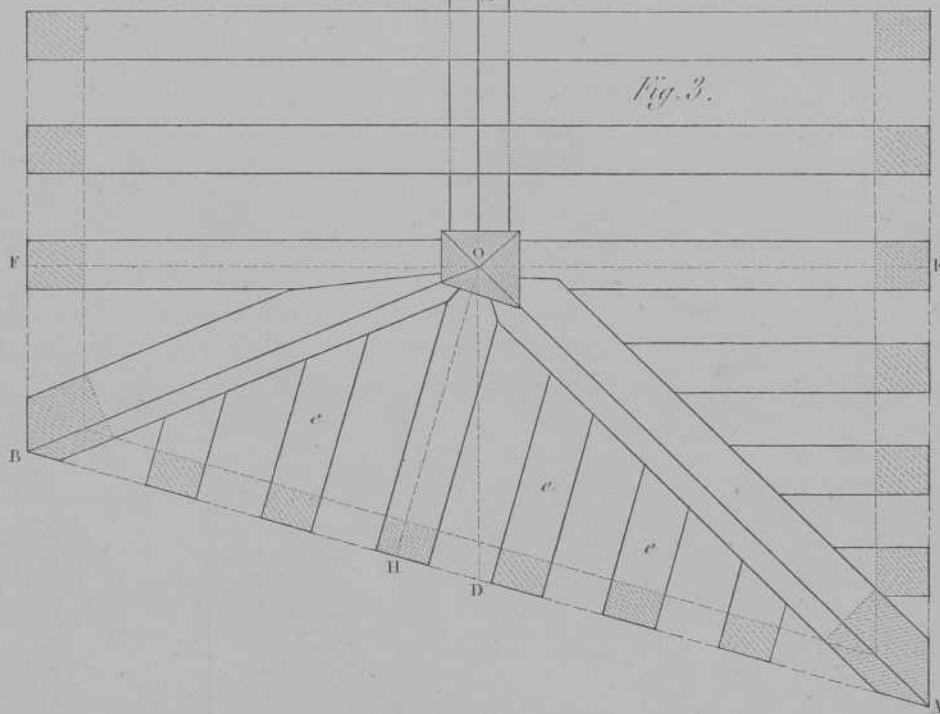
Equarissage du Tirant $0,28$
 Pignon $0,24$
 Chevron $0,20$
 Arrière $0,23$
 Sablière $0,12$

Groupe-droite réduite, où les chevrons font la fonction d'arbalétriers.

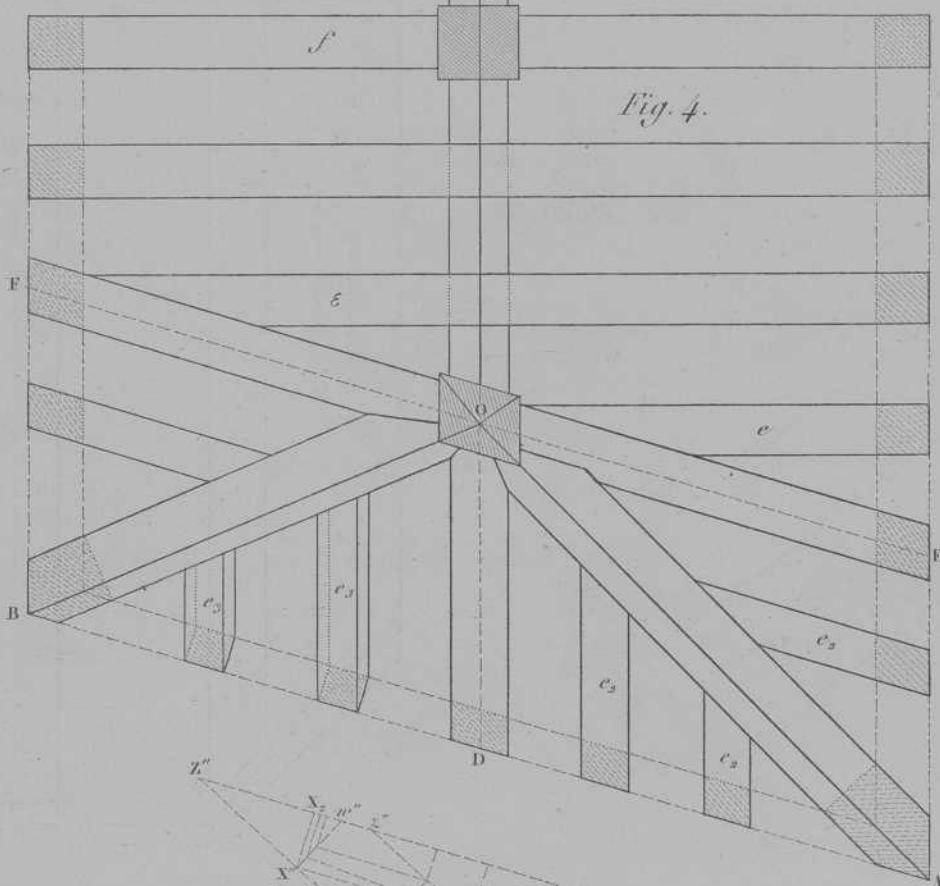




Groupe biaise, sur ferme droite, avec empanons droits.



Groupe biaise, sur ferme biaise, avec empanons délaissés ou déversés.



Profil de Groupe.

Fig. 5.

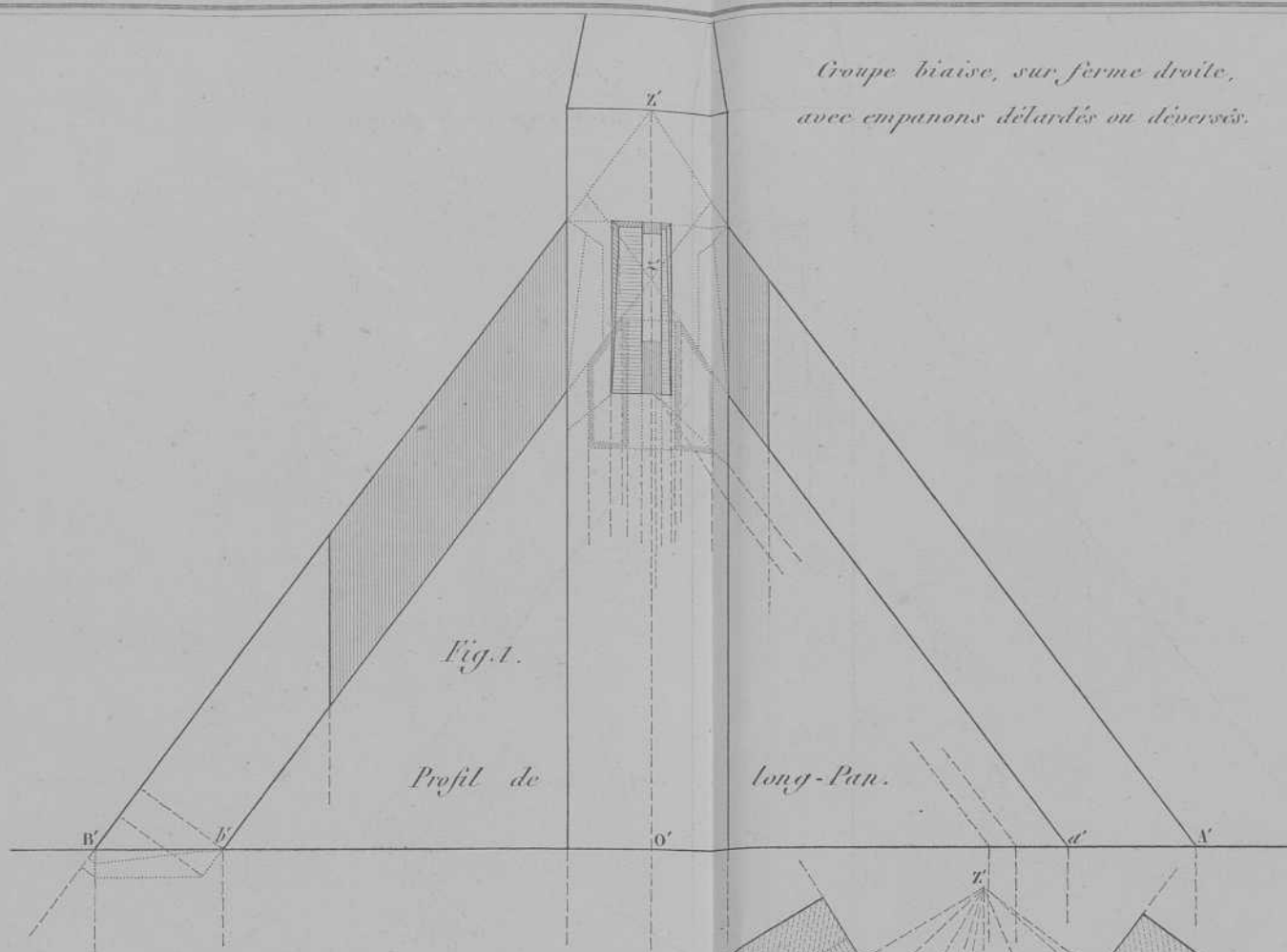
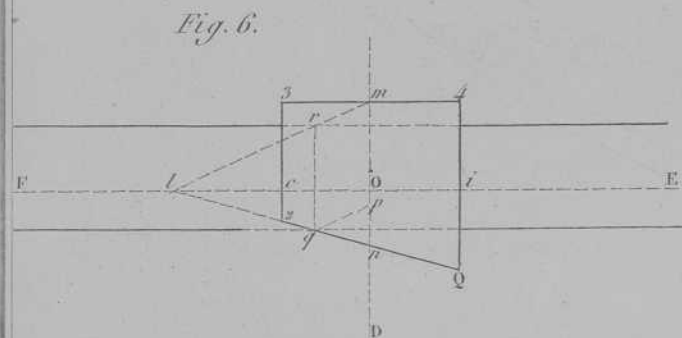


Fig. 1.

Profil de

long-Pan.

Groupe biaise, sur ferme droite, avec empanons délaissés ou déversés.

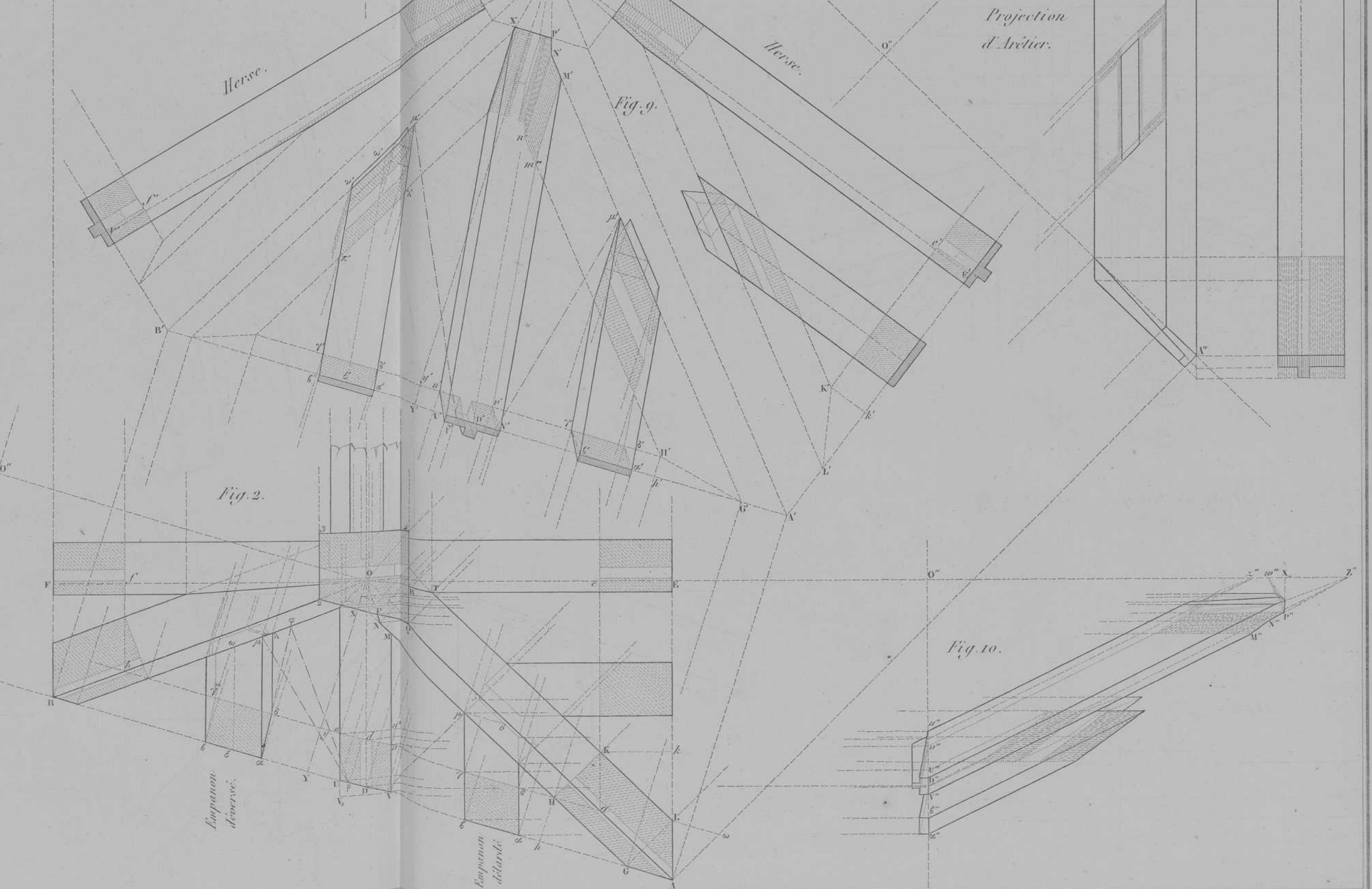


Fig. 2.

Empanon délaissé.

Empanon délaissé.

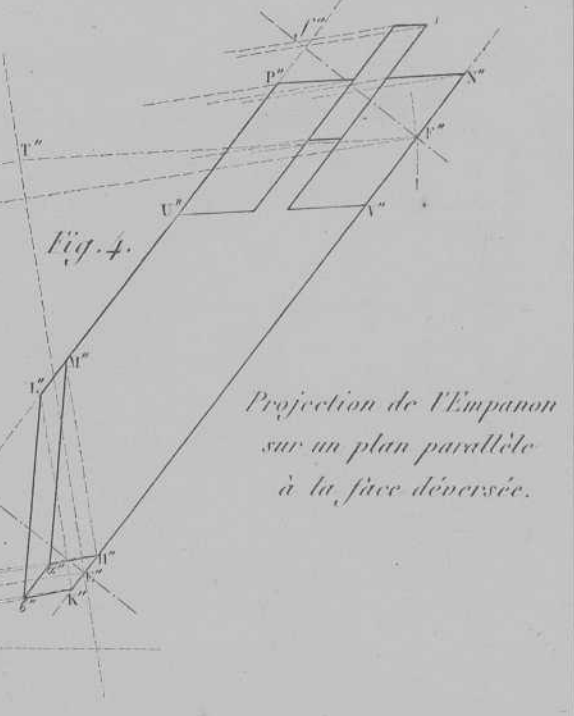
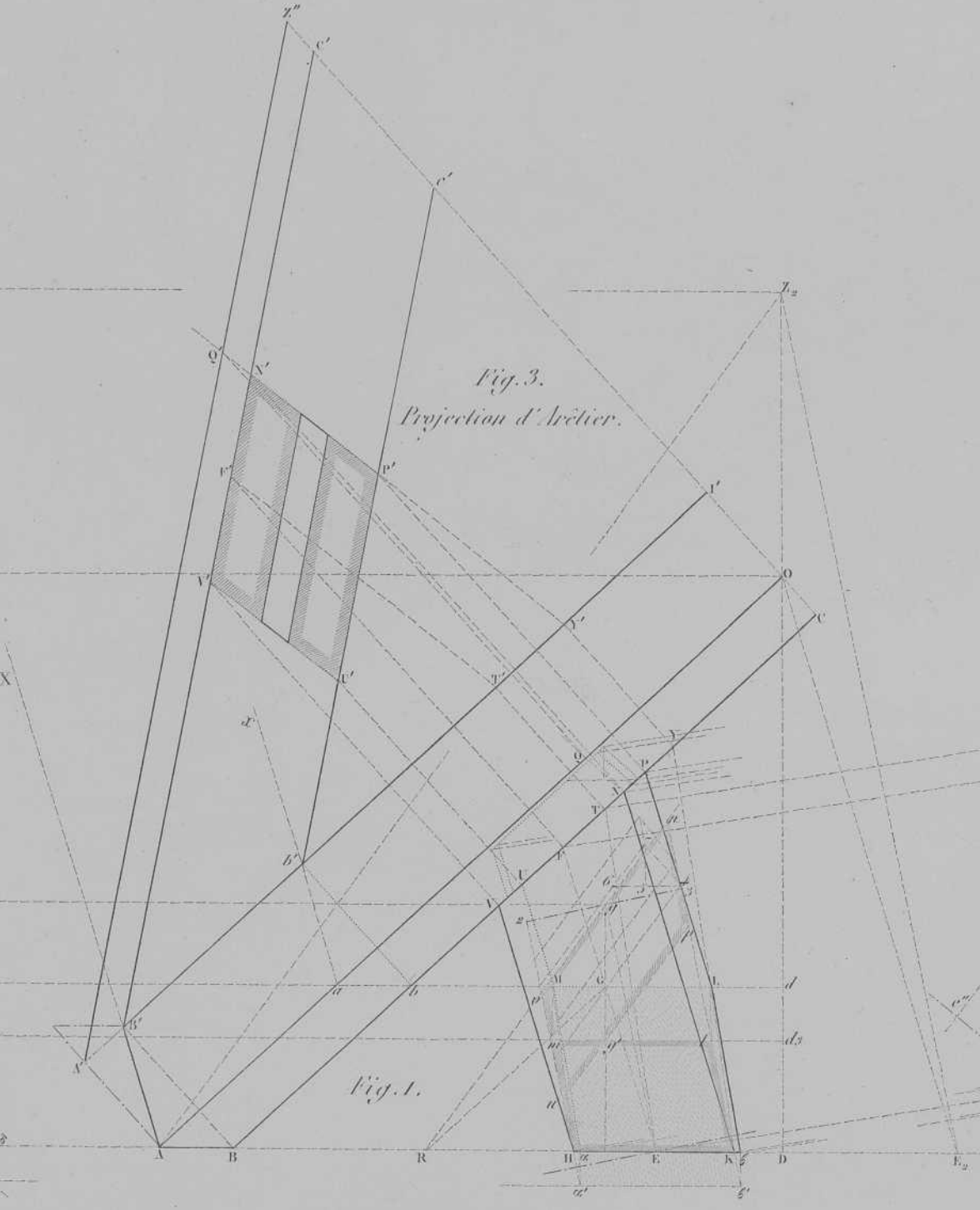
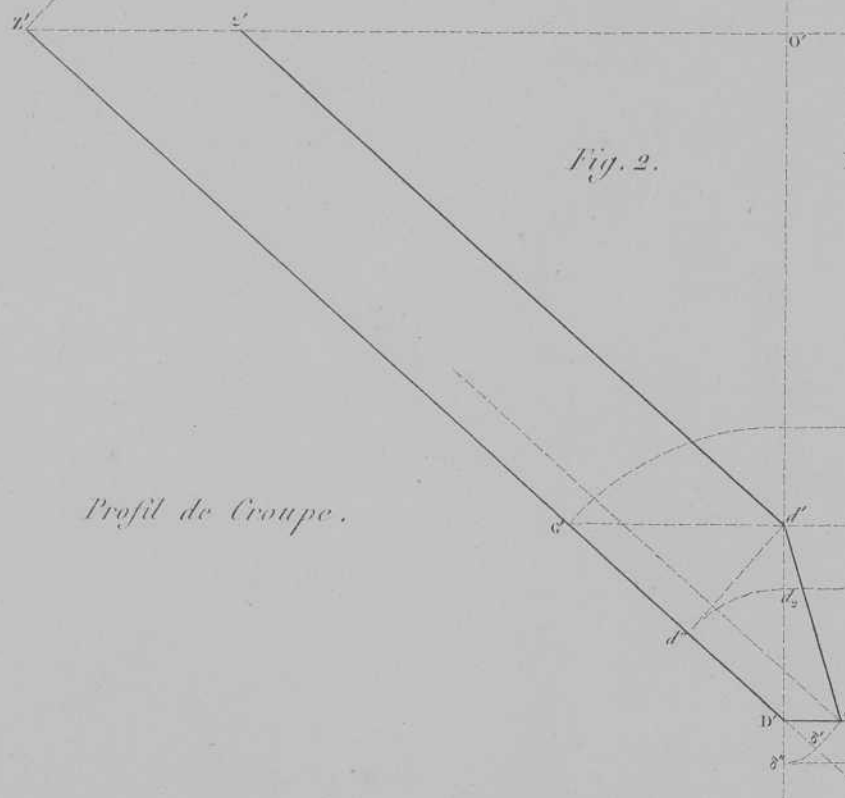
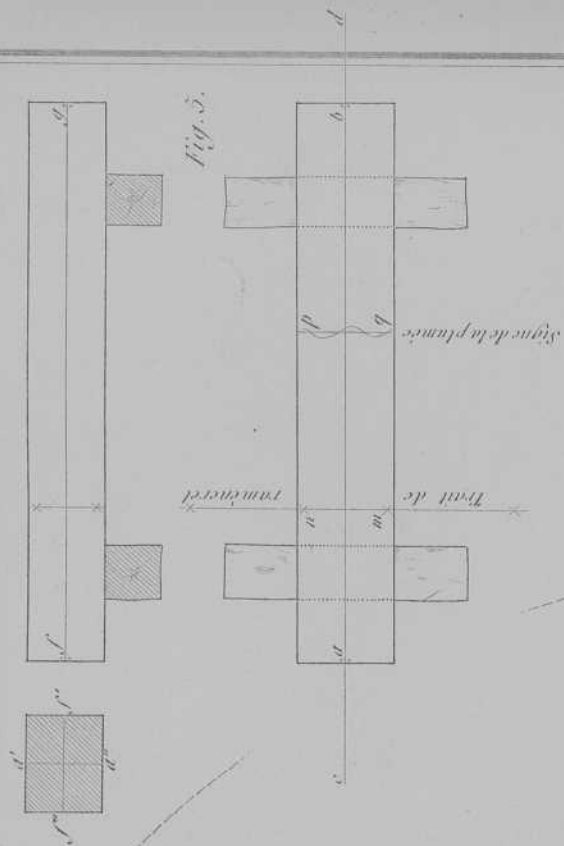
Projection d'Arrière.

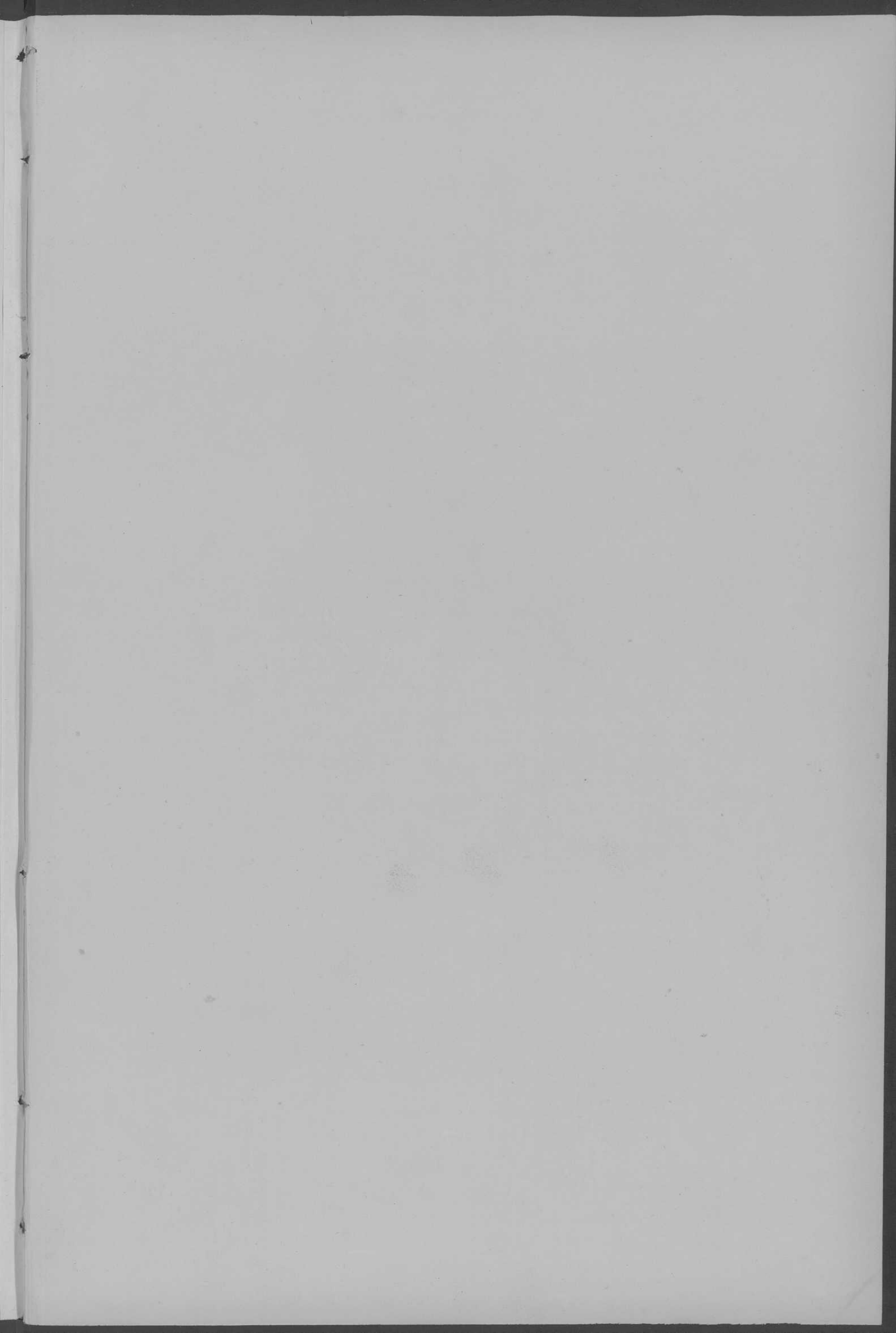
Fig. 7.

Fig. 8.

Fig. 10.

Empanon déversé d'une Croupe biaise.





Nœuds biaises.

Nœuds à faces verticales.

Fig. 9.

Plan général.

Fig. 8.

Fig. 7.

Fig. 1.

Fig. 3.

Fig. 2.

Fig. 4.

Fig. 5.

Fig. 6.

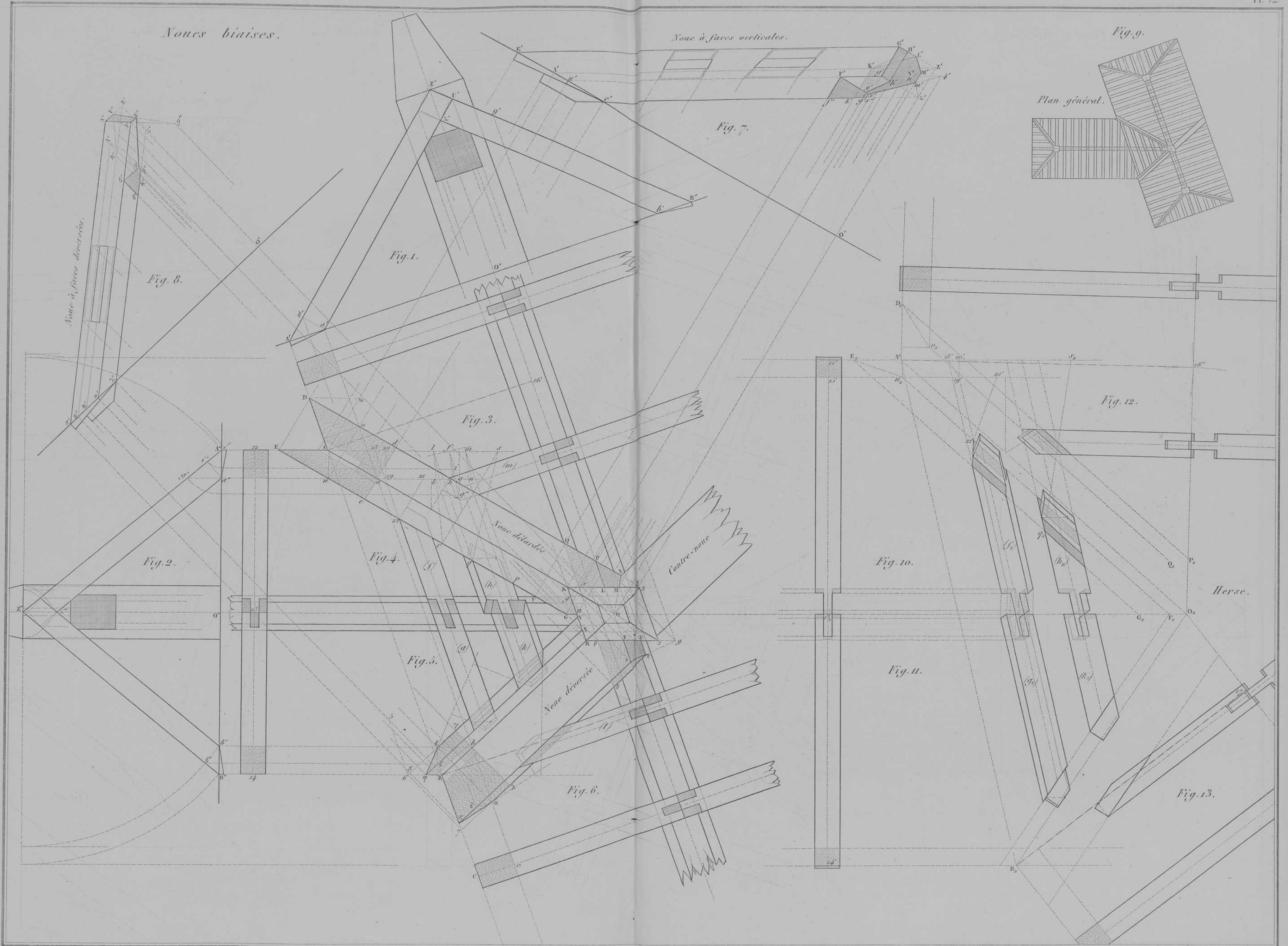
Fig. 10.

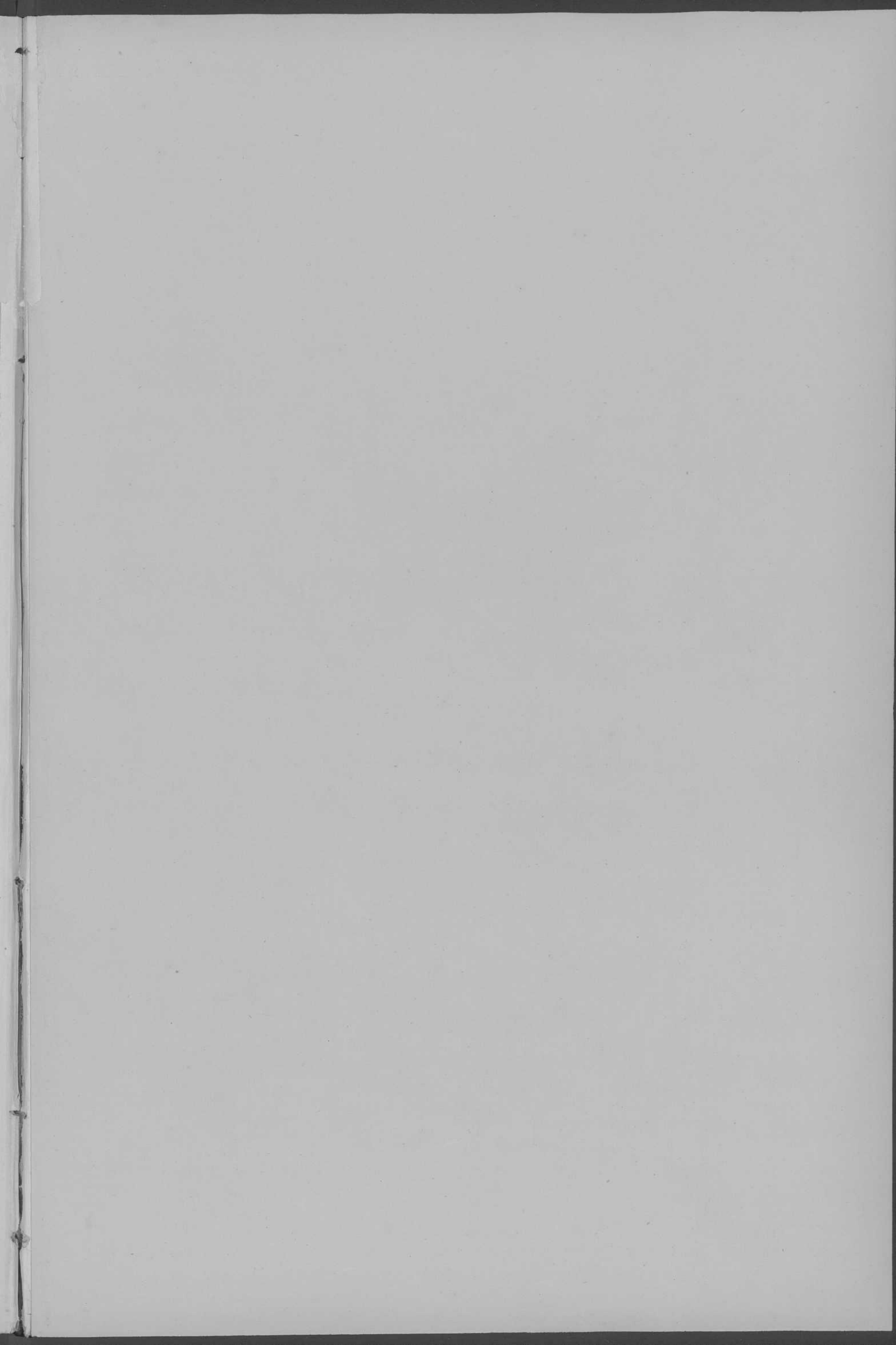
Fig. 11.

Fig. 12.

Fig. 13.

Herse.





Comble avec Arbalétriers, Pannes et Tasseaux.

Fig. 9.

Fig. 8.

Fig. 1.

Fig. 7.

Fig. 6.

Fig. 5.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 12.

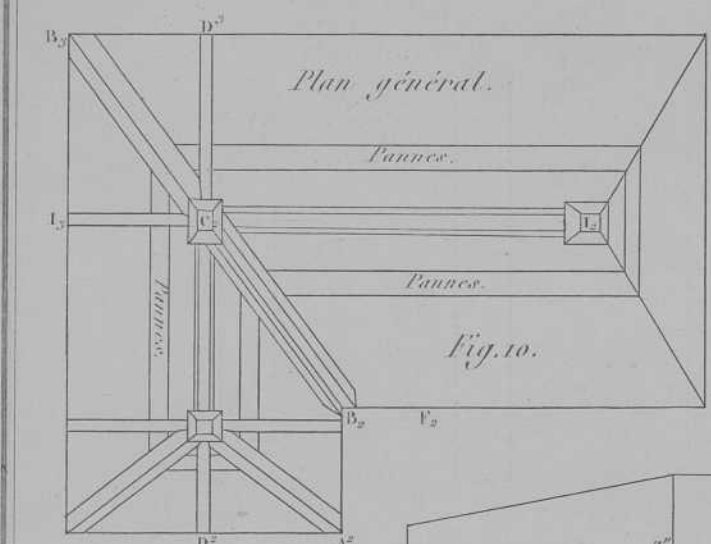
Fig. 13.

Fig. 11.

Plan général.

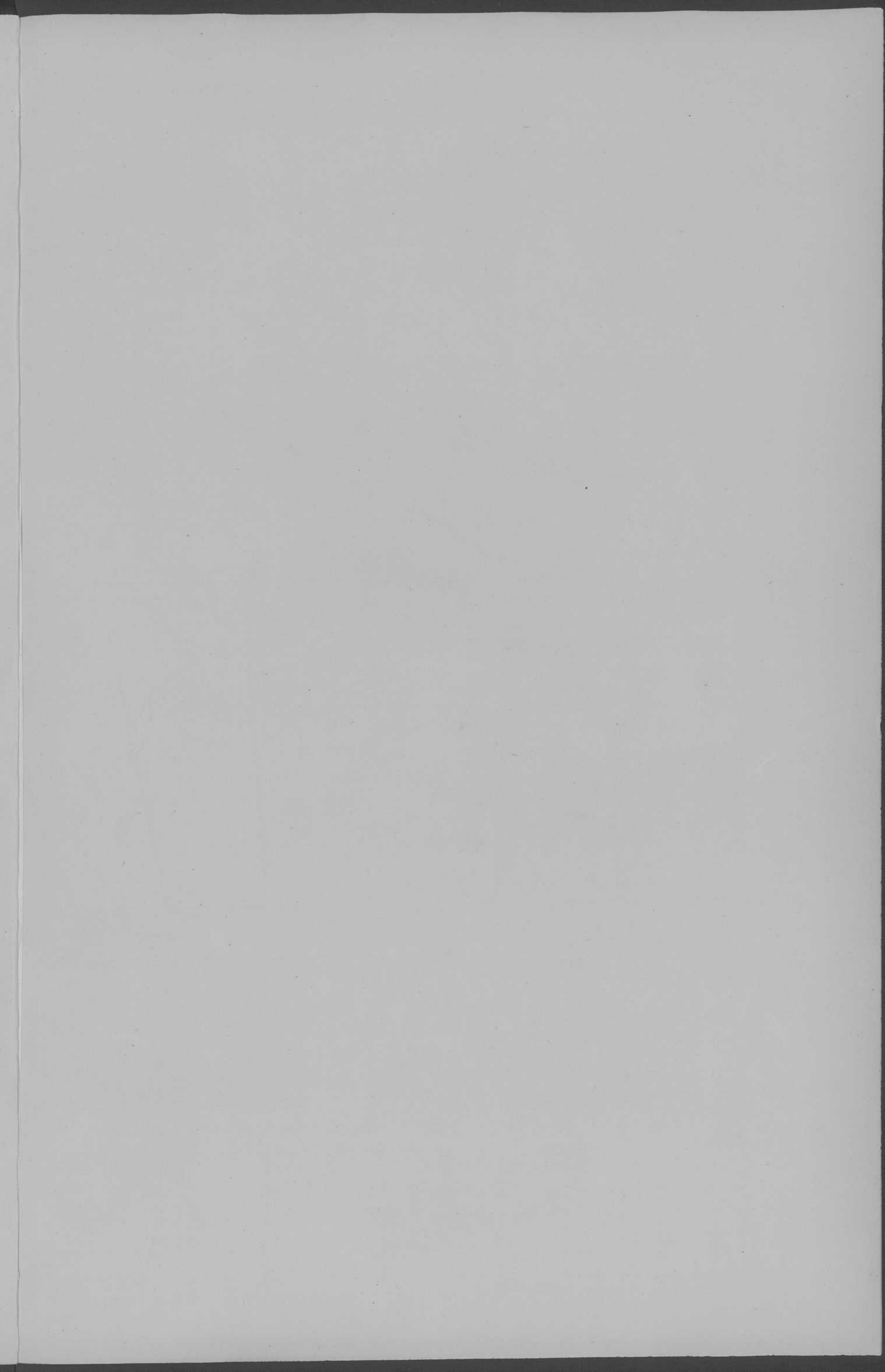
Pannes.

Fig. 10.



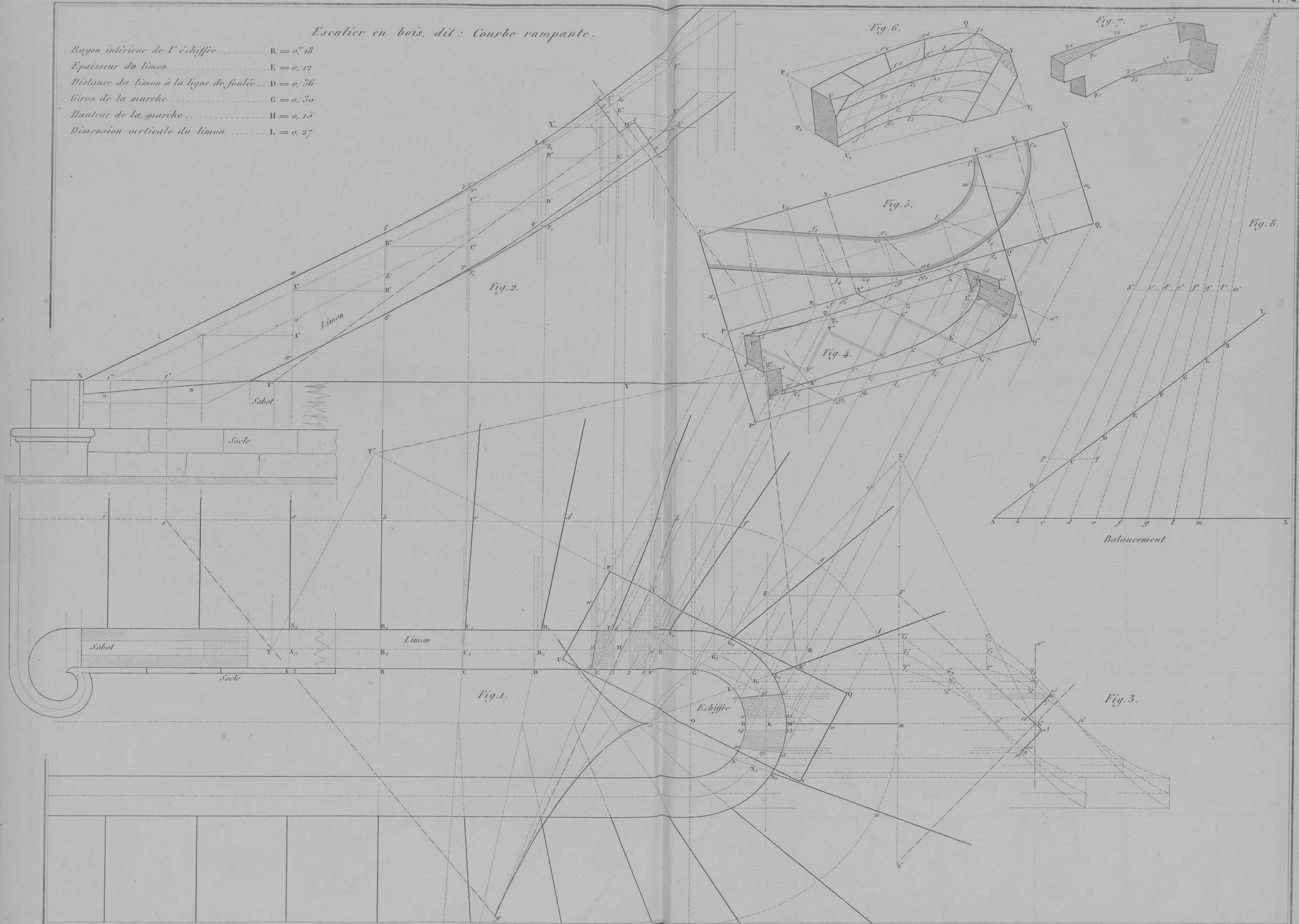
Echelle de 0^m 07 pour mètre.

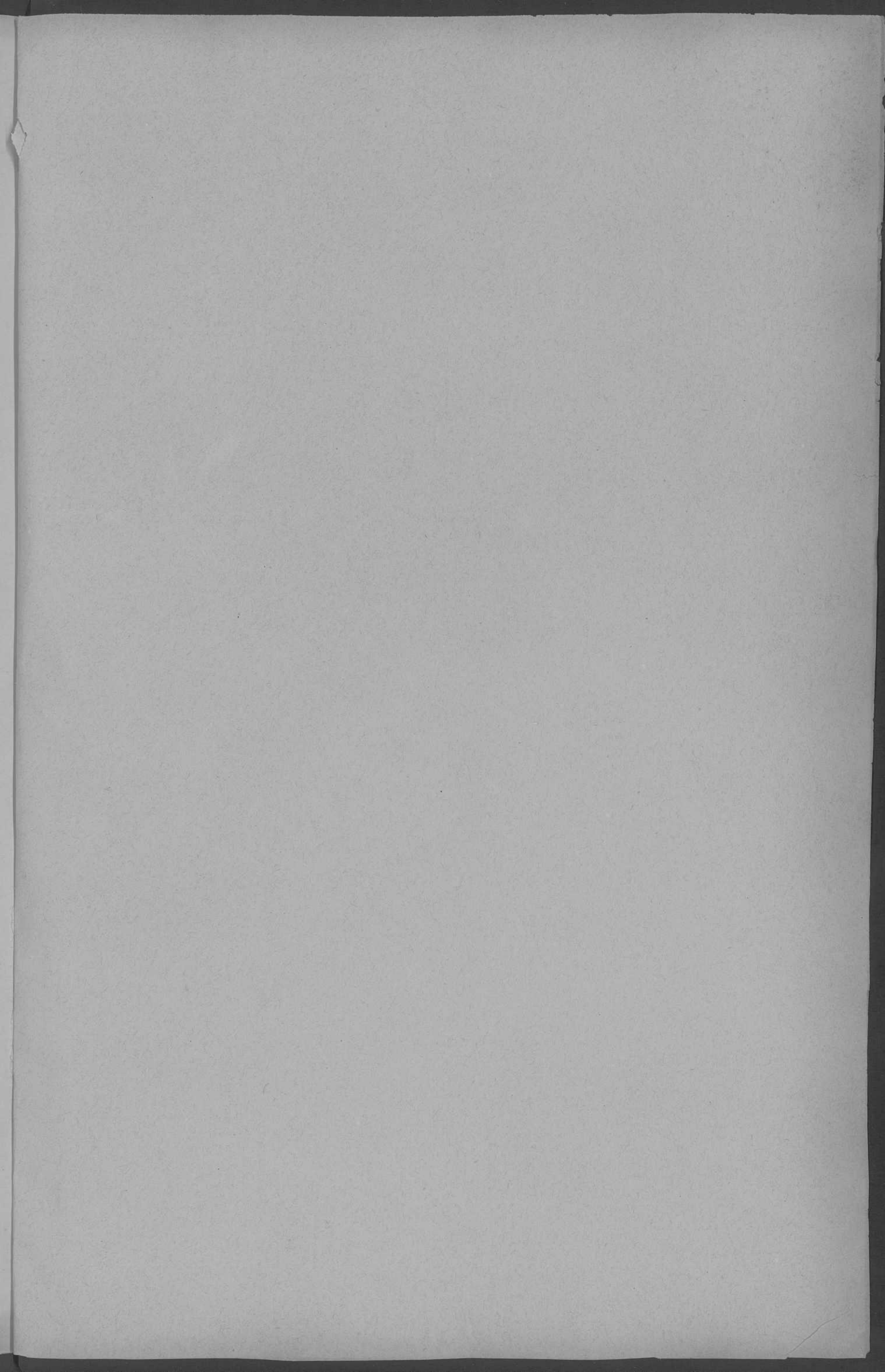
3 mètres.

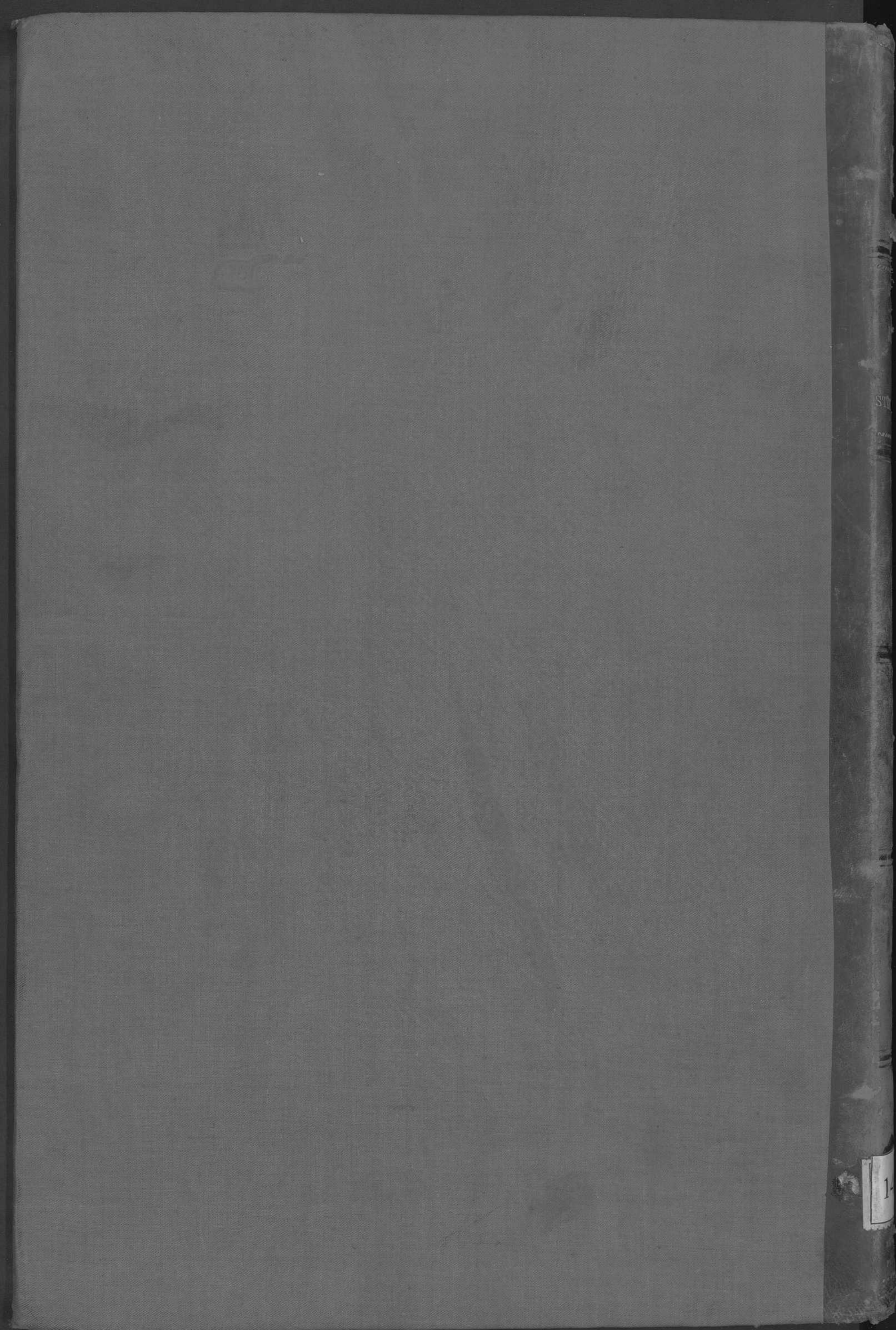


Escalier en bois, dit: Courbe rampante.

Rayon intérieur de l'échiffre $R = 0,18$
 Epaisseur du limon $E = 0,12$
 Distance du limon à la ligne de foulée $D = 0,36$
 Ciron de la marche $G = 0,30$
 Hauteur de la marche $H = 0,15$
 Dimension verticale du limon $L = 0,27$







29
32

Lexon

ATLAS

DE

STEREOTOMY

14.885

BIBLIOTHECA
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