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COURS

DE

MATHÉMATIQUES

A L'USAGE

DES ARCHITECTES, INGÉNIEURS CIVILS, ETC.

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PAR J. ADHÉMAR

PONTS BIAIS EN PIERRE ET EN BOIS

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Troisième Édition

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1876

Ponts biais - appareil hélicoïdal.

Fig. 1.

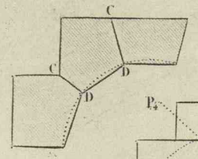


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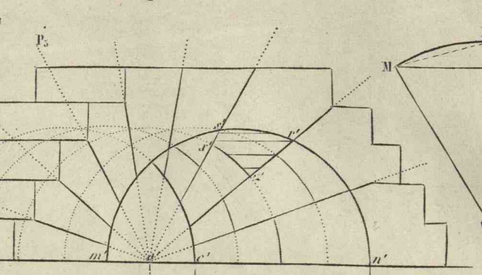


Fig. 6.

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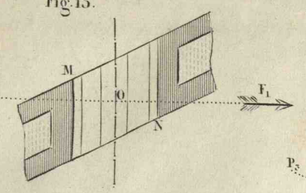


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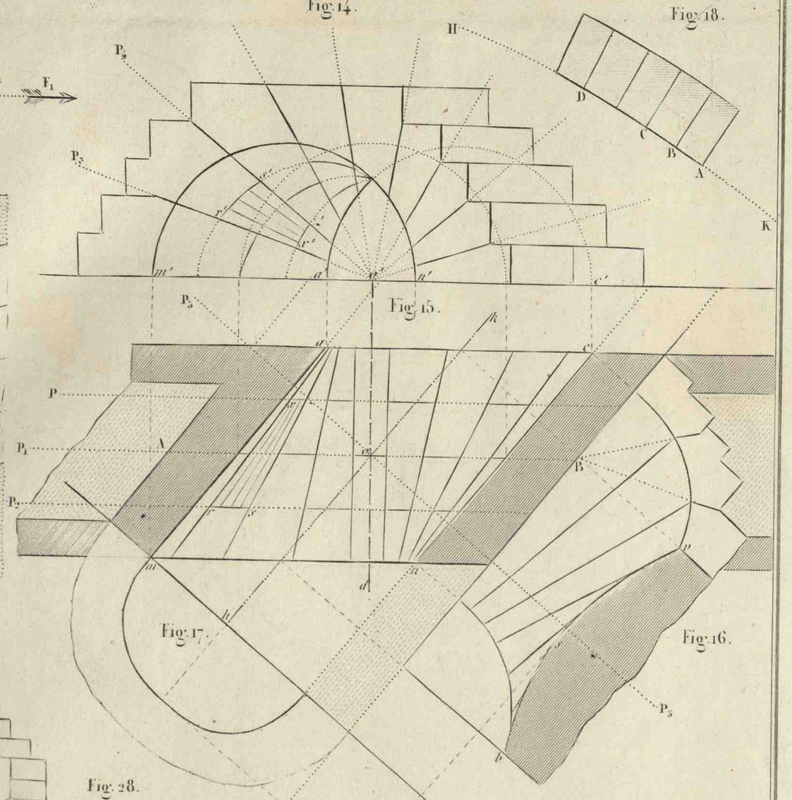


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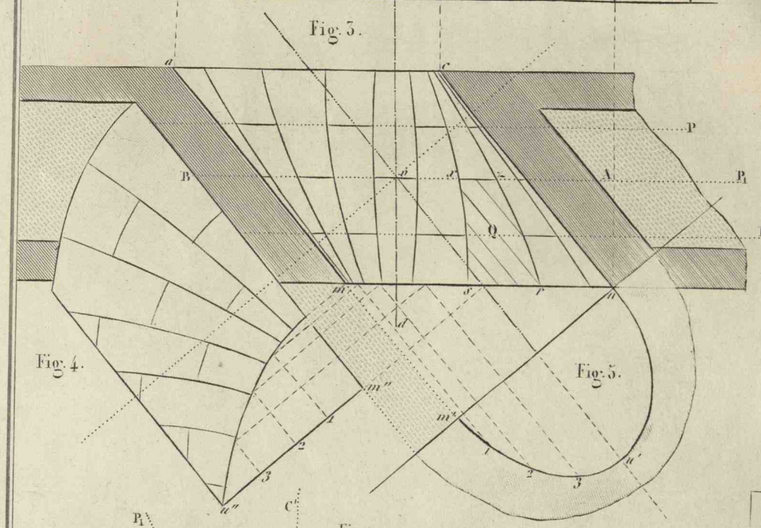


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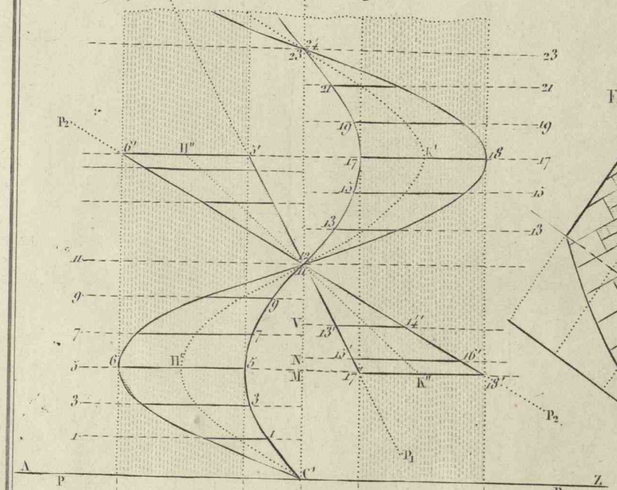


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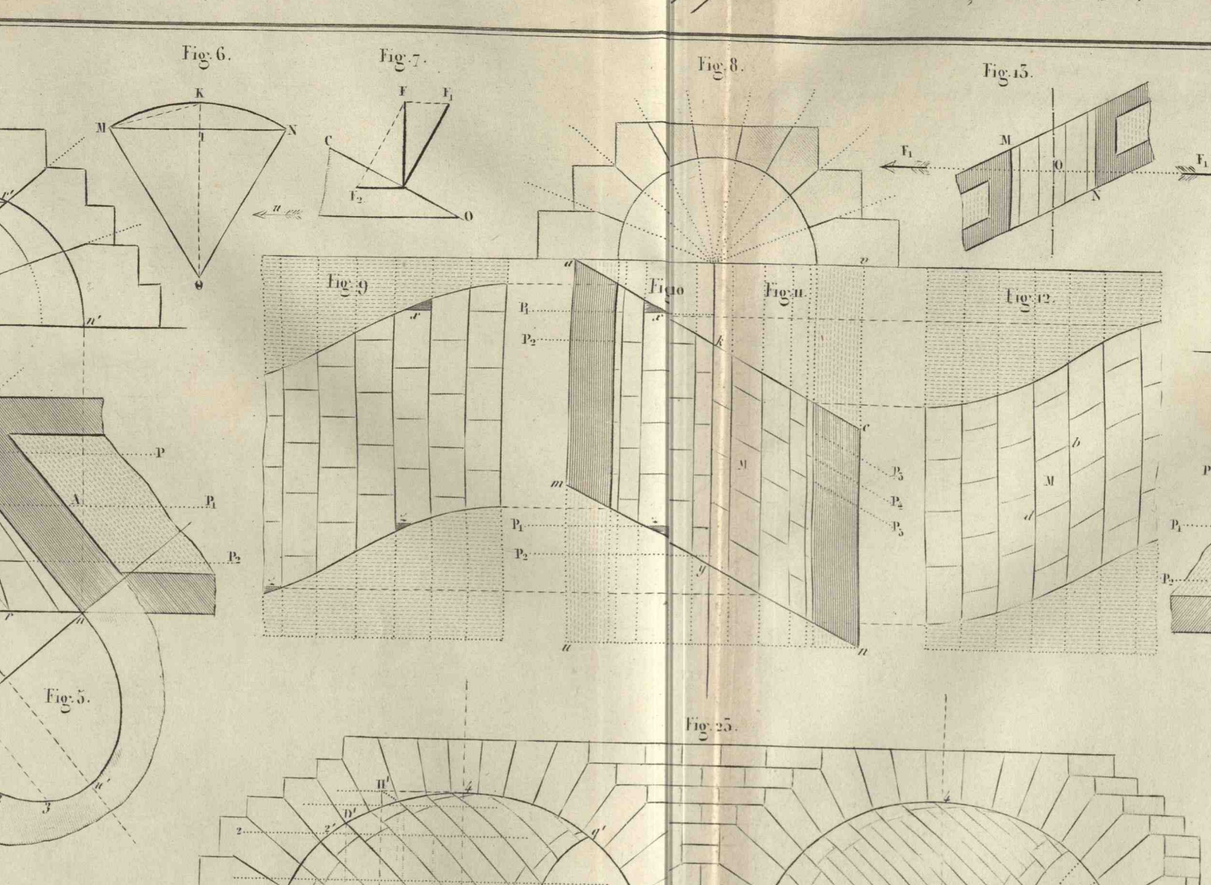


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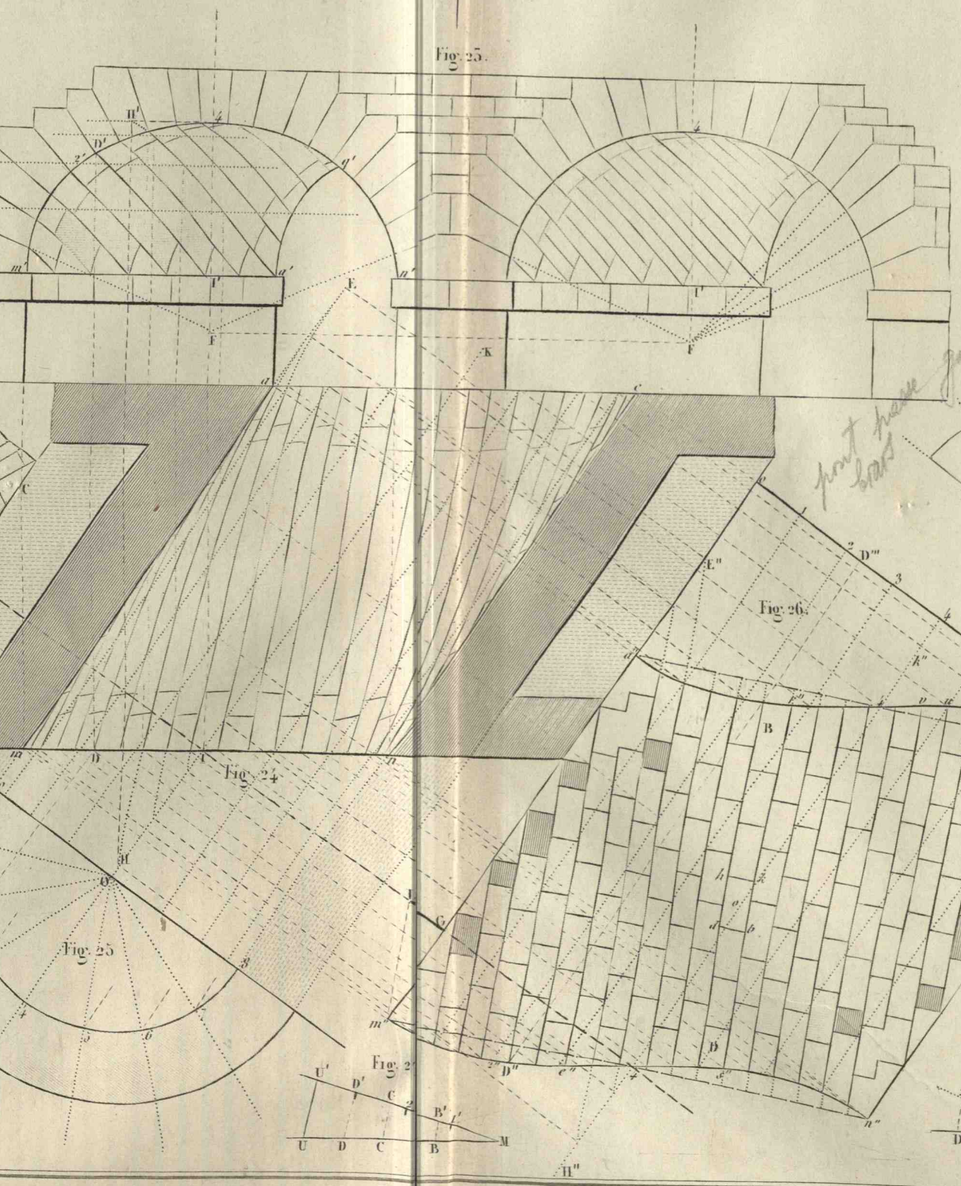


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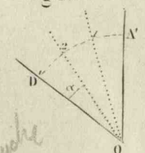


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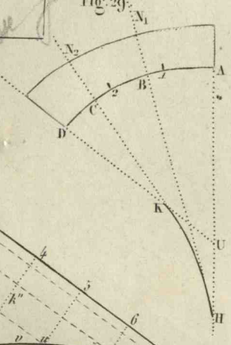


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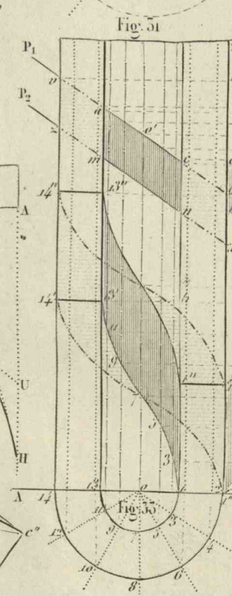


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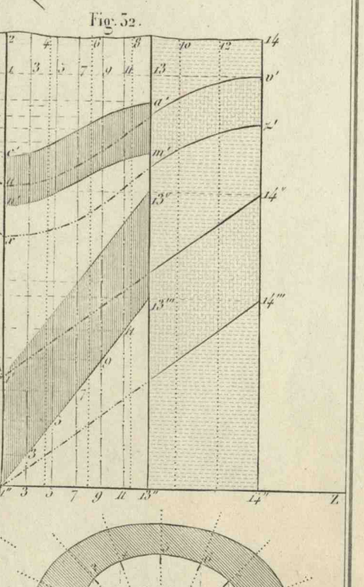


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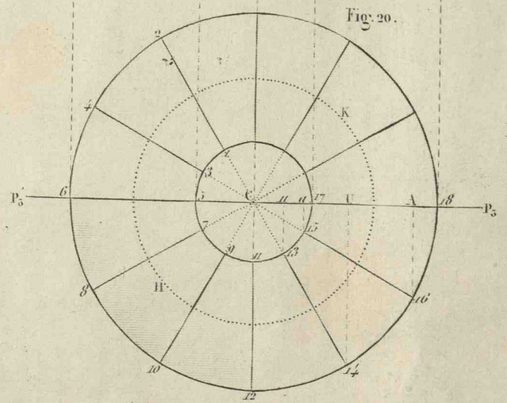


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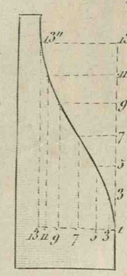


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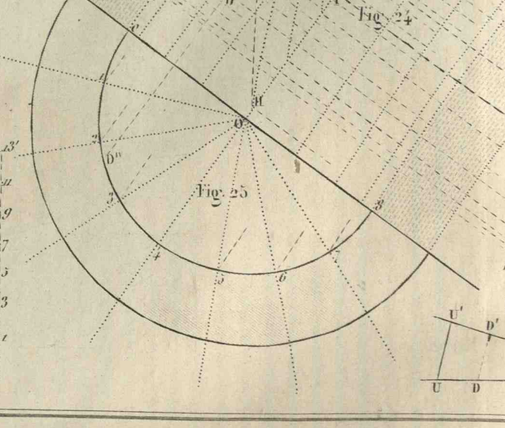


Fig. 25.

Fig. 26.



Fig. 27.

Fig. 30.

Fig. 33.

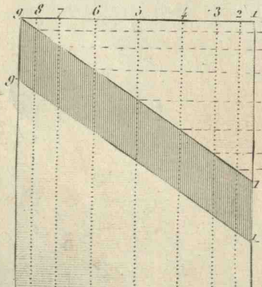


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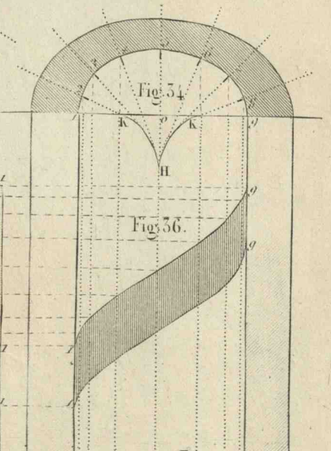


Fig. 35.

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Ponts biais - appareil hélicoïdal.

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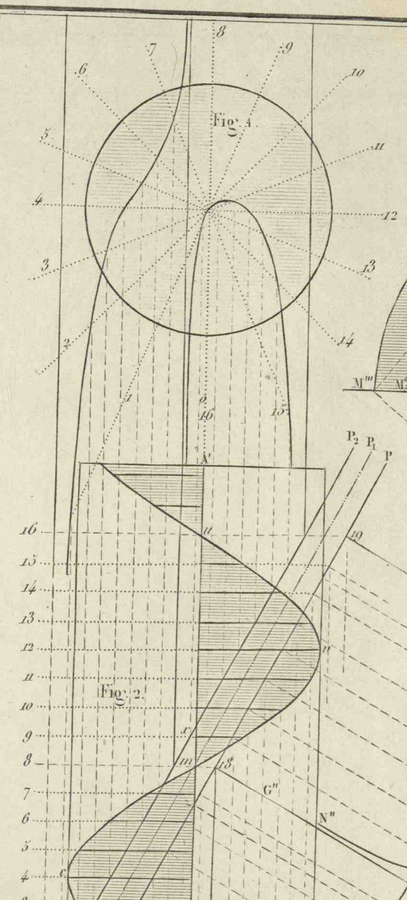


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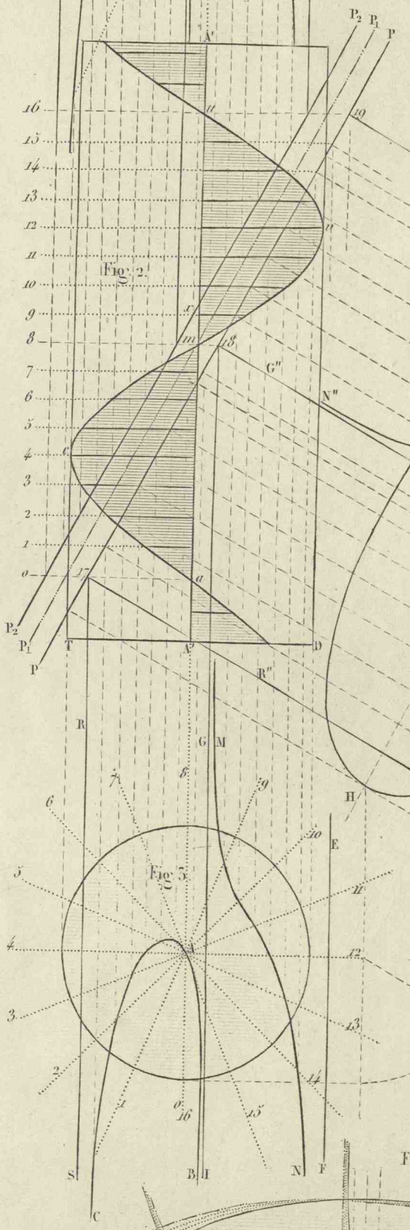


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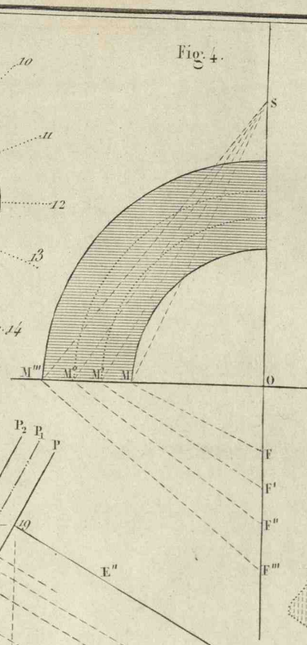


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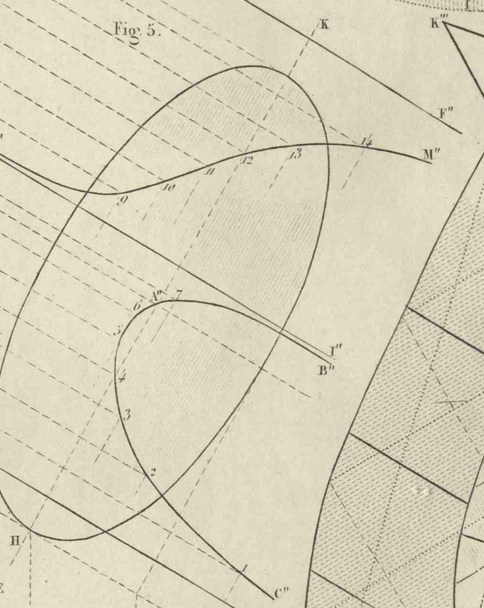


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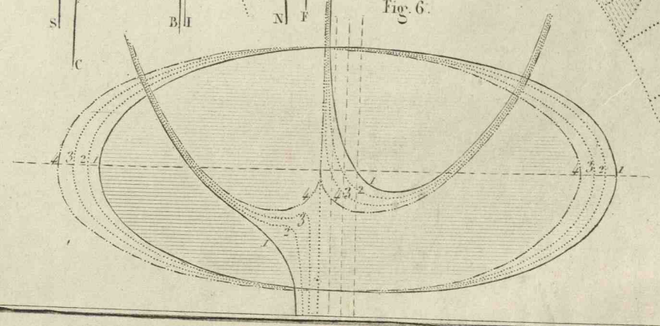


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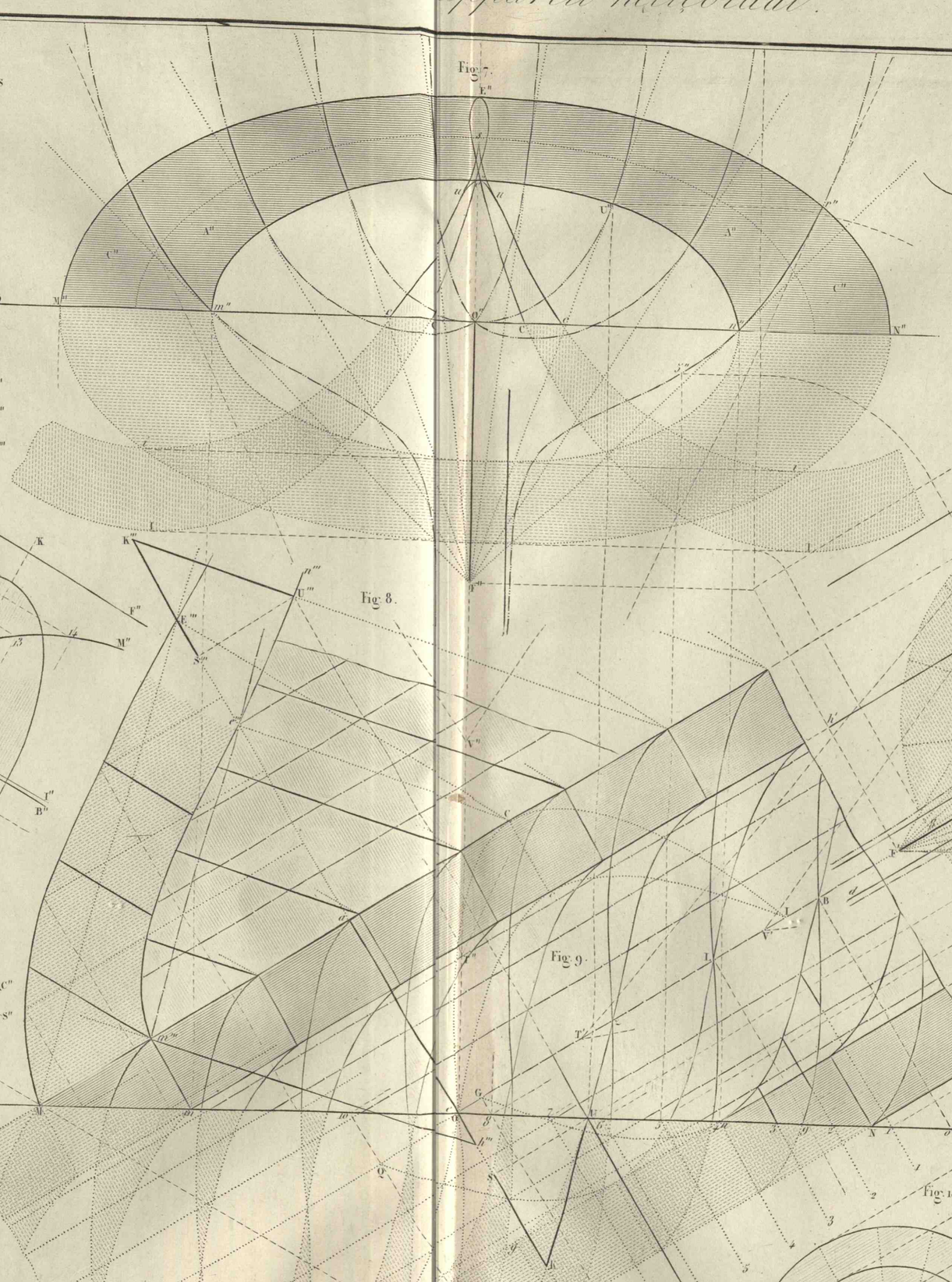


Fig. 8.

Fig. 9.

Fig. 10.

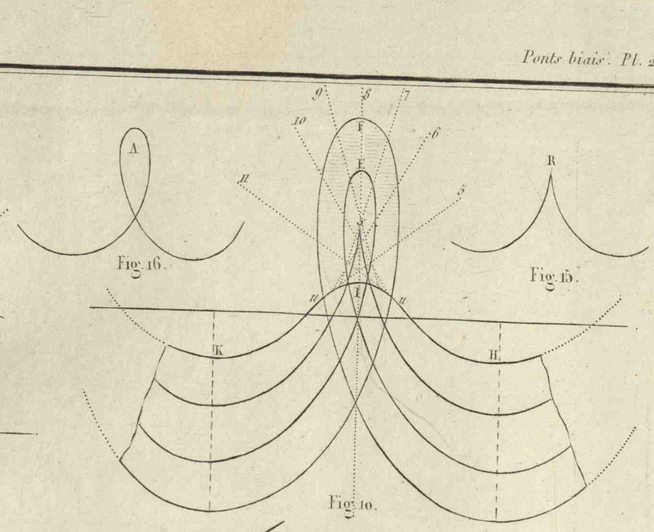


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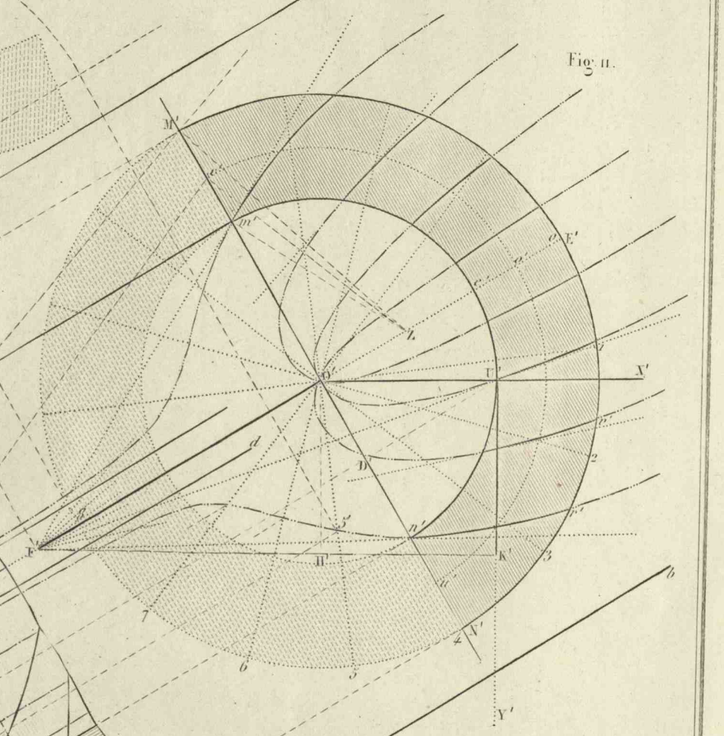


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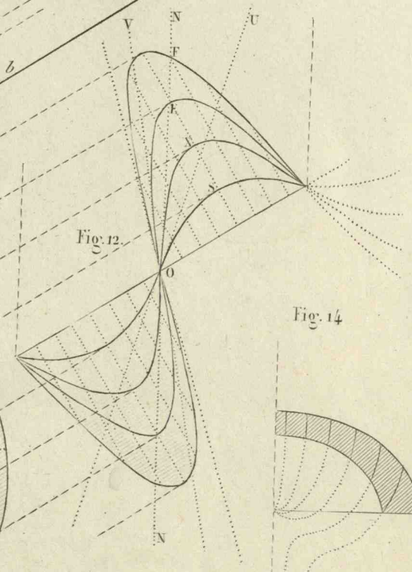


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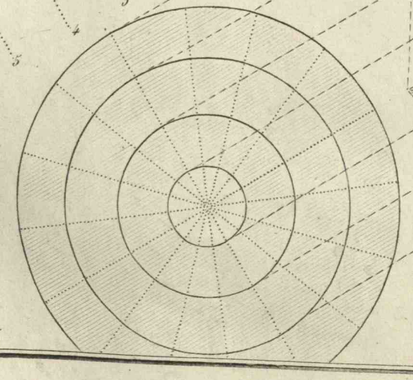
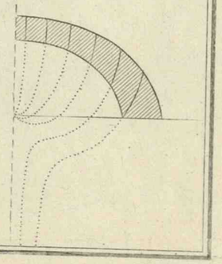


Fig. 14



Ponts biais - appareil hélicoïdal

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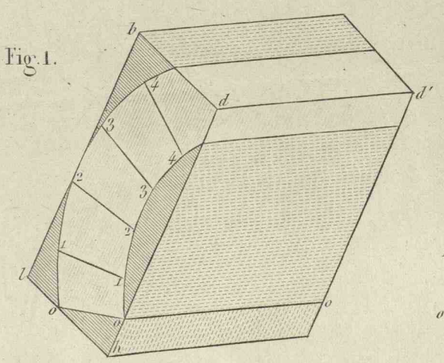


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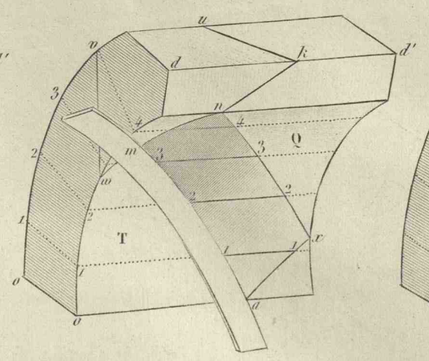


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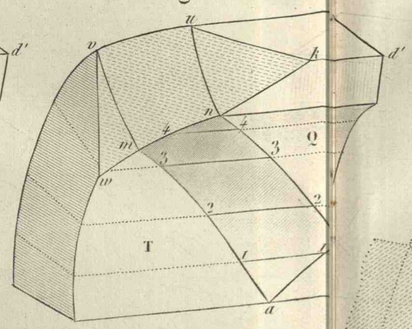


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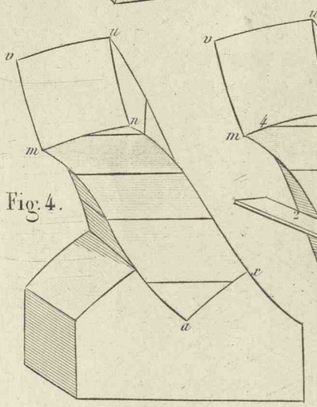


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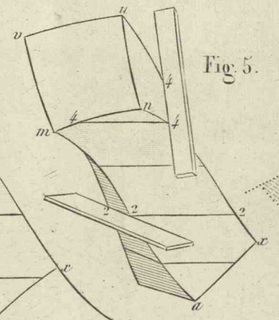


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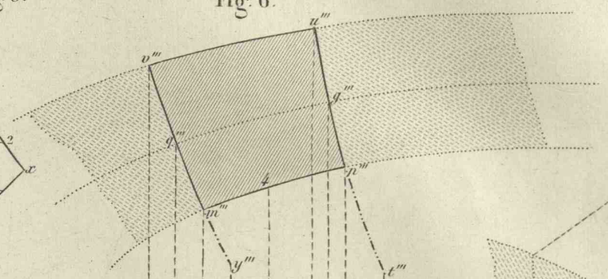


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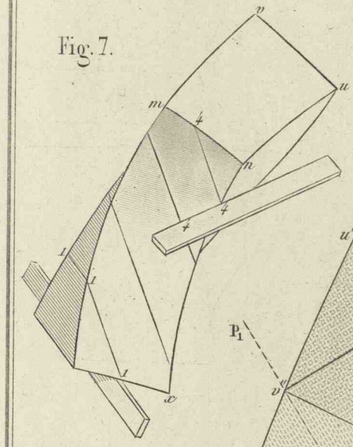


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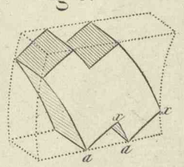


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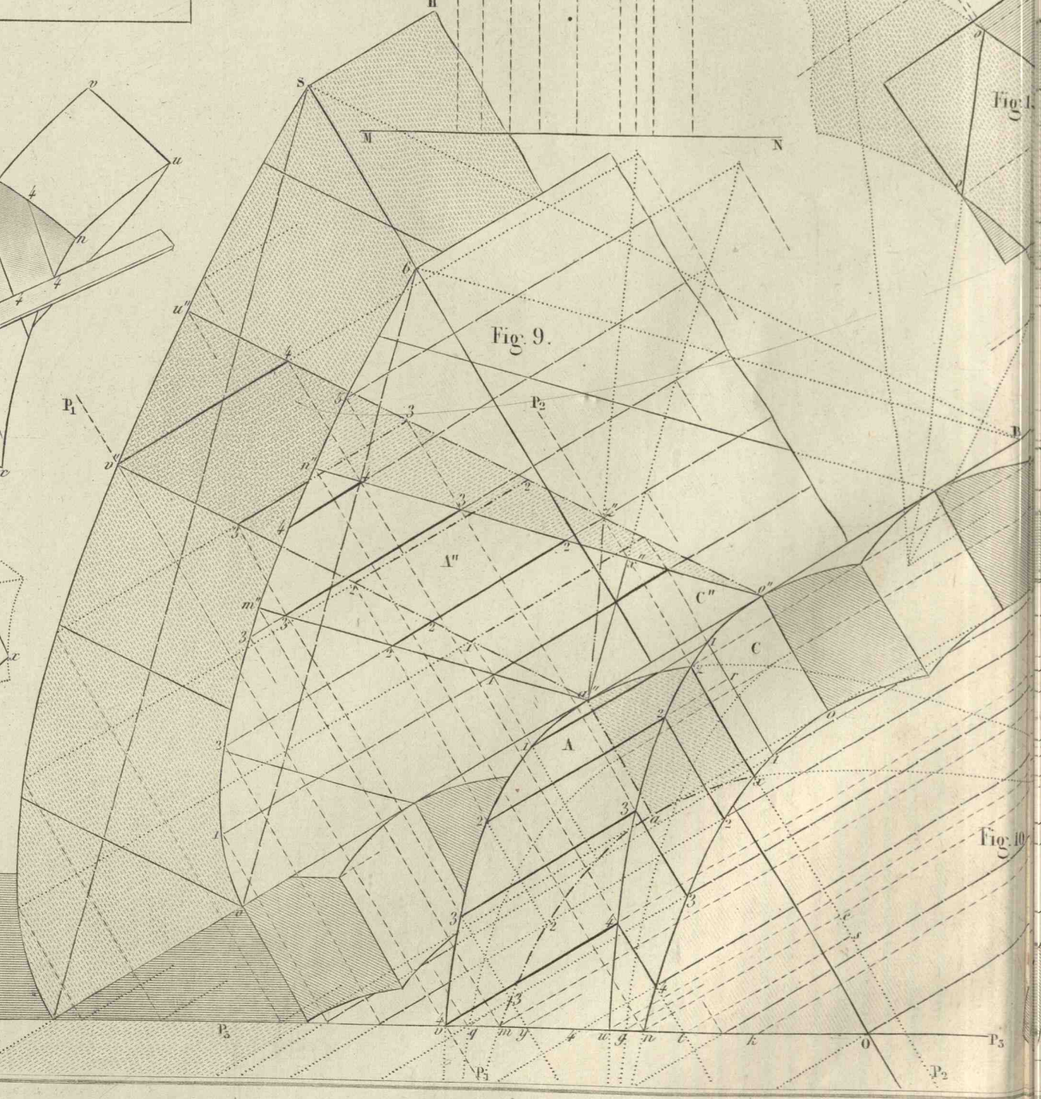


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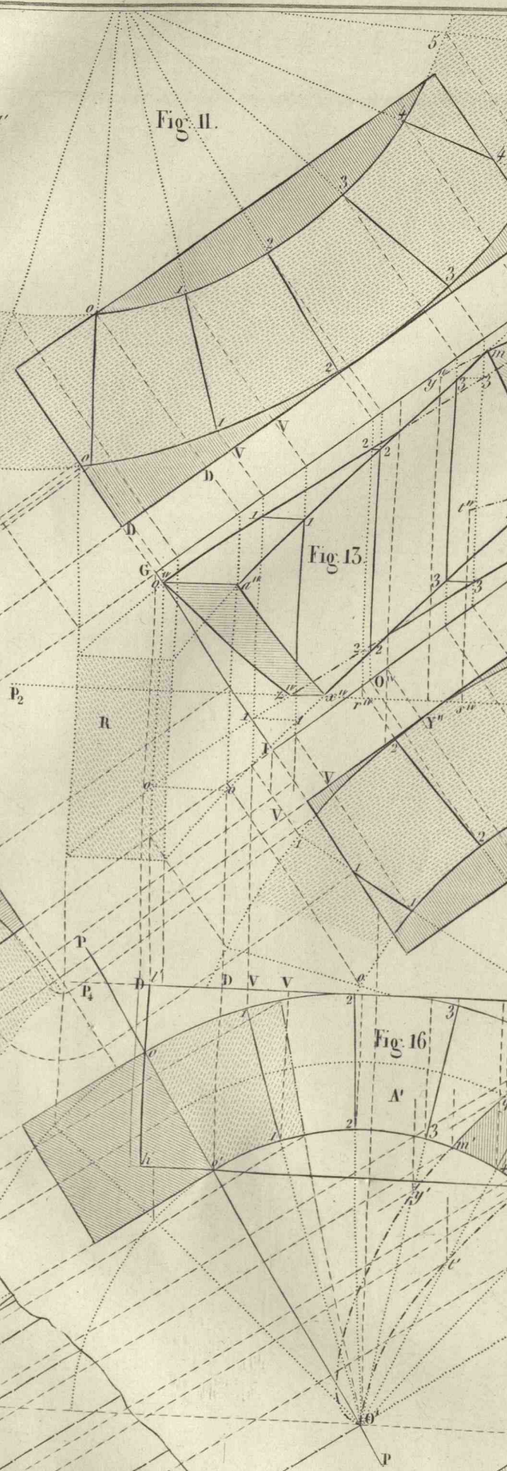


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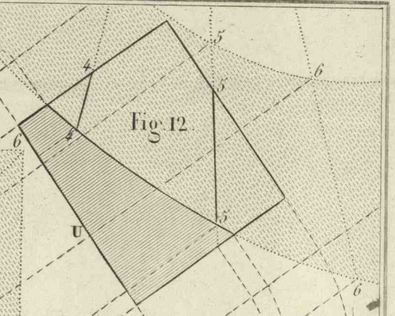


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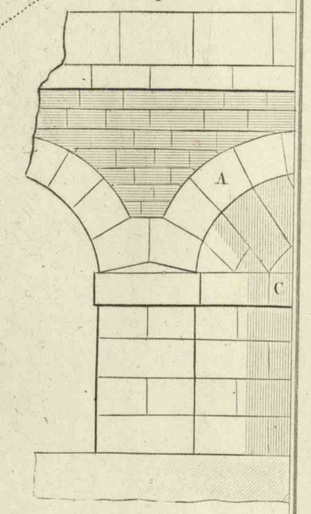


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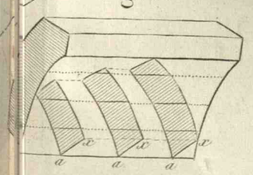


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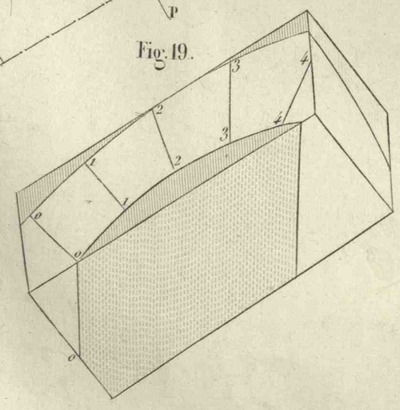
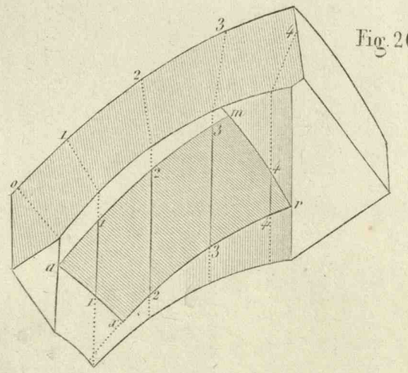


Fig. 20.



Ponts biais - appareil héliçoïdal

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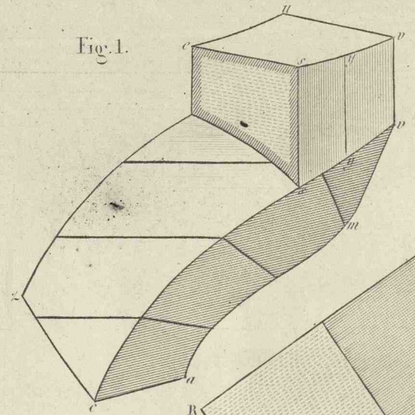


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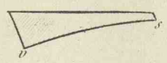


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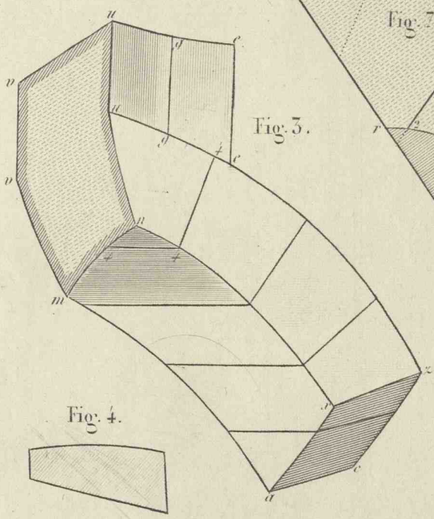


Fig. 4.



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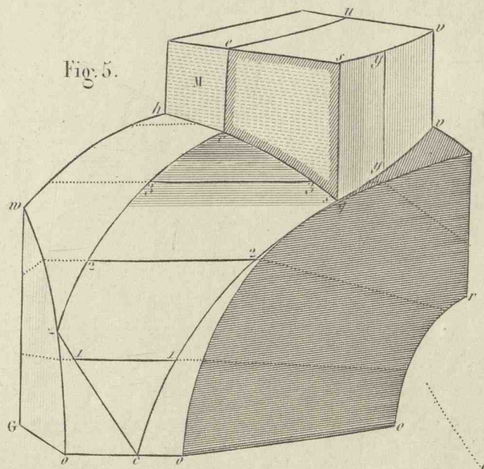


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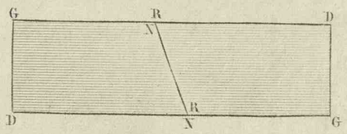


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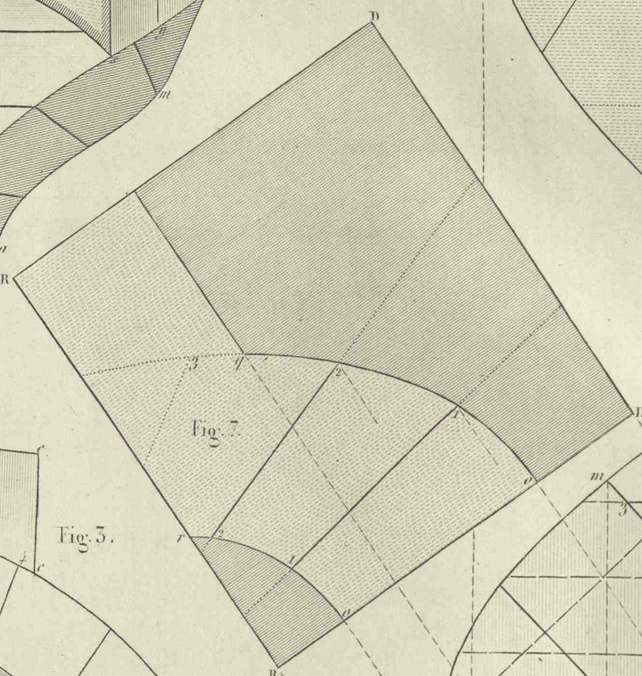


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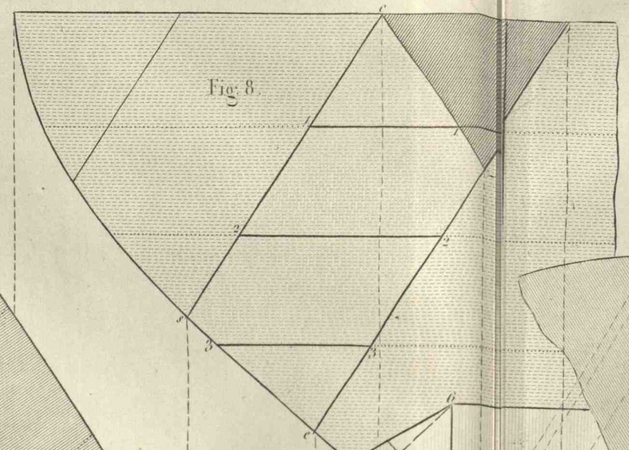


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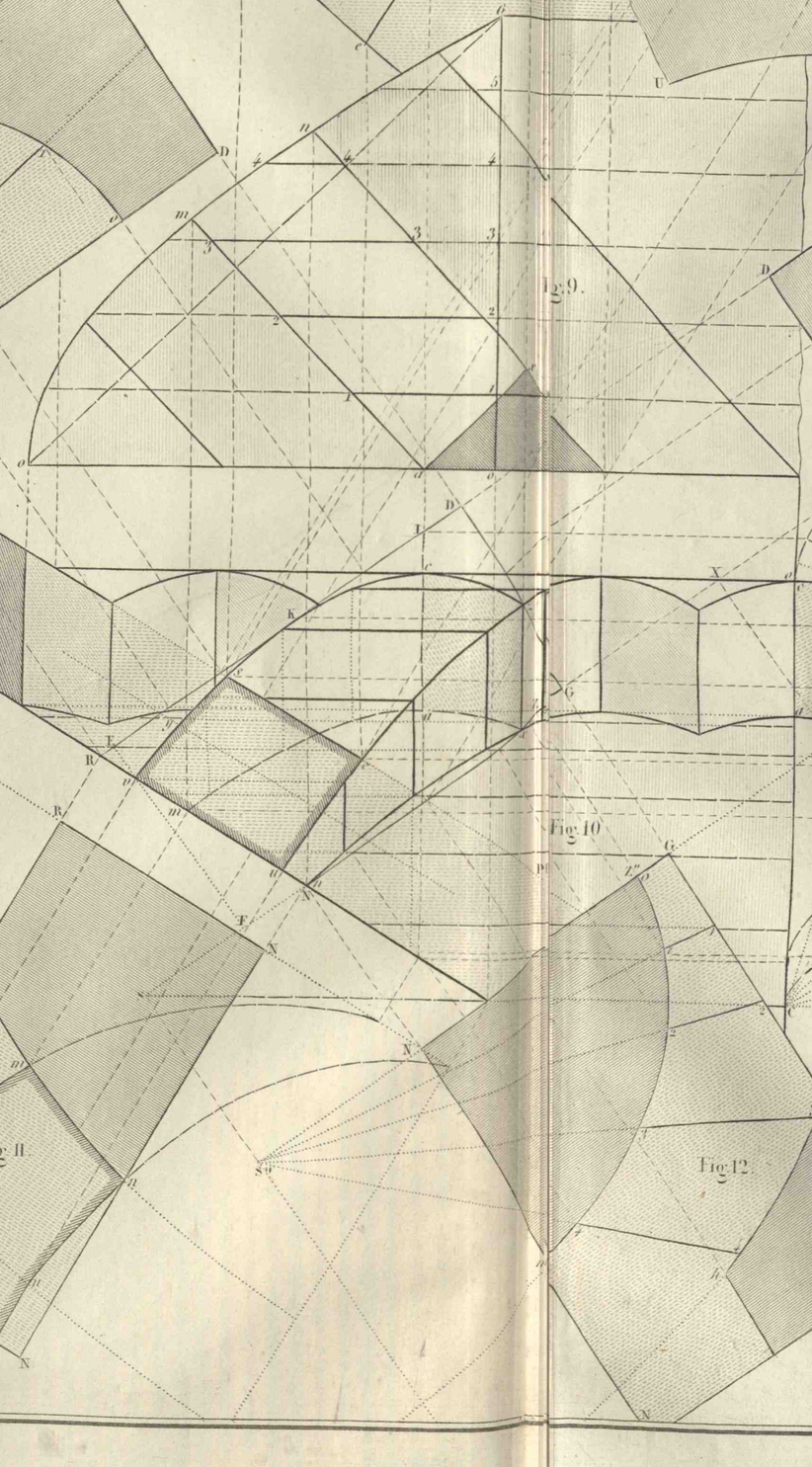


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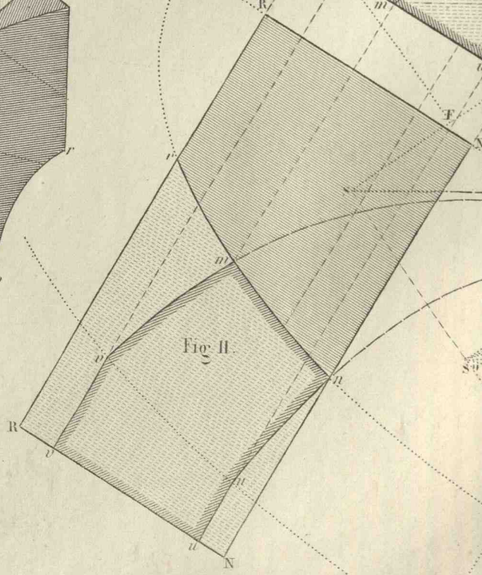


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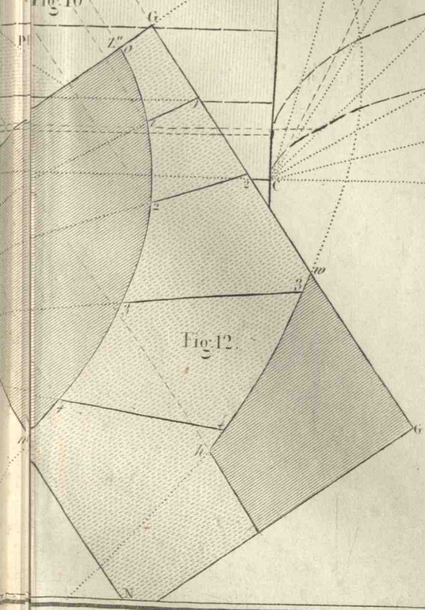


Fig. 13.

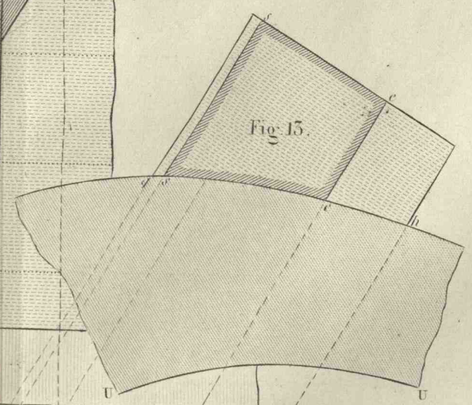


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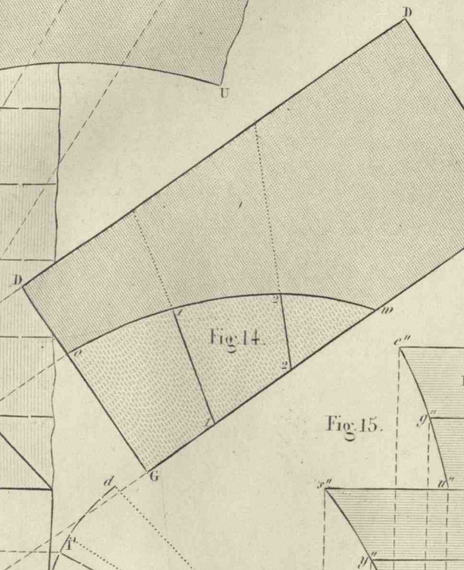


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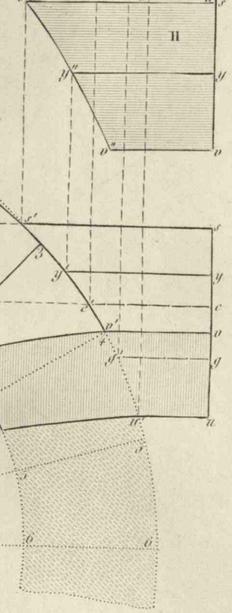


Fig. 16

Fig. 17.

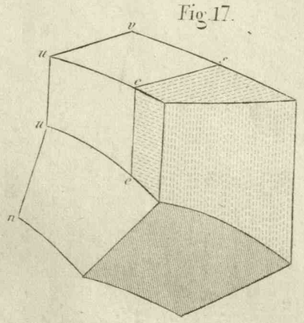


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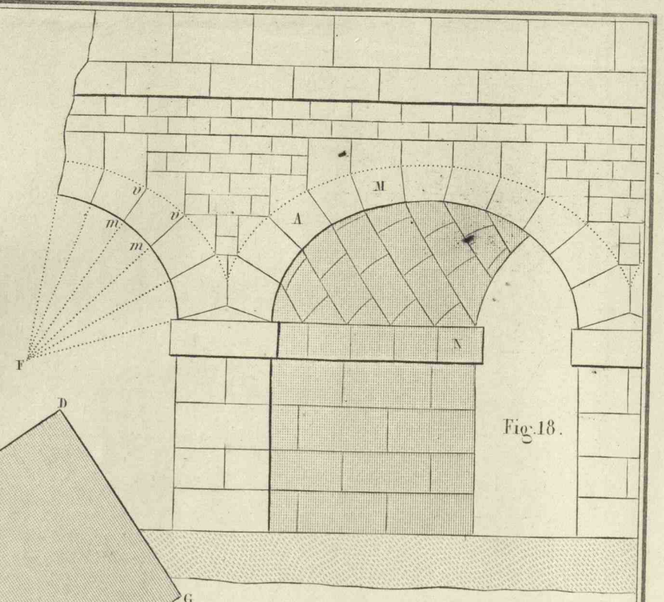


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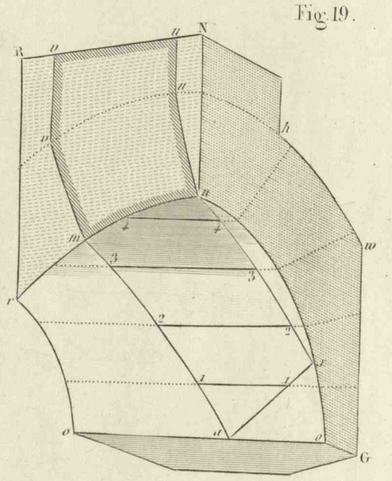
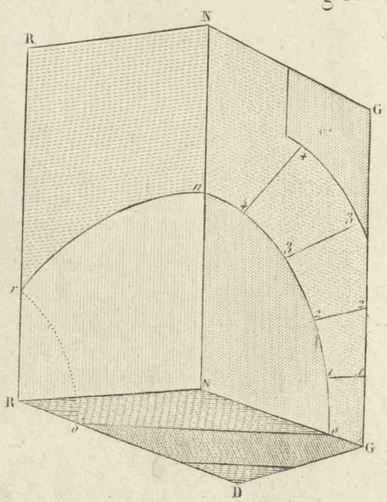


Fig. 20.



Ponts biais - appareil hélicoïdal

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Ponts biais - Cintre courant

Fig. 1.

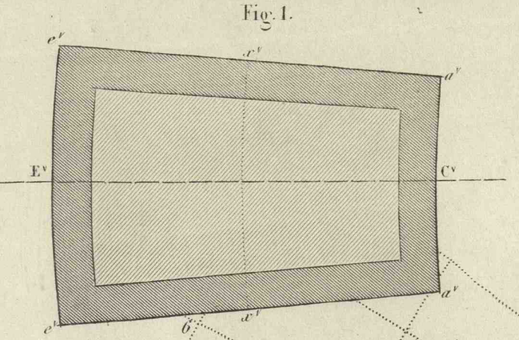


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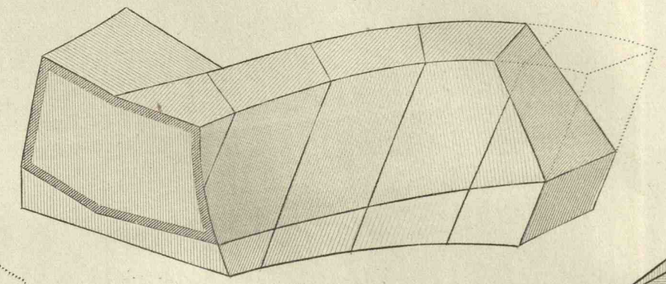


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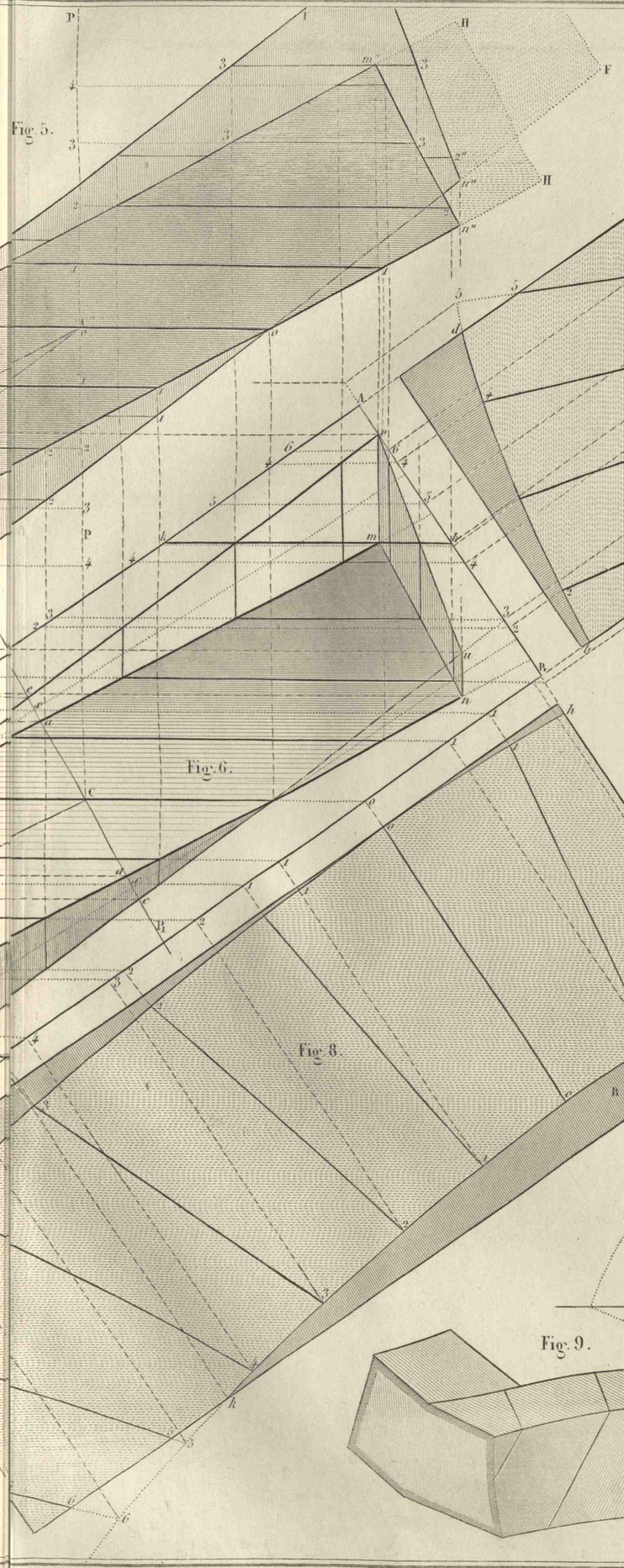


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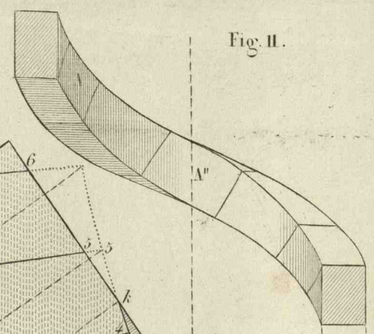


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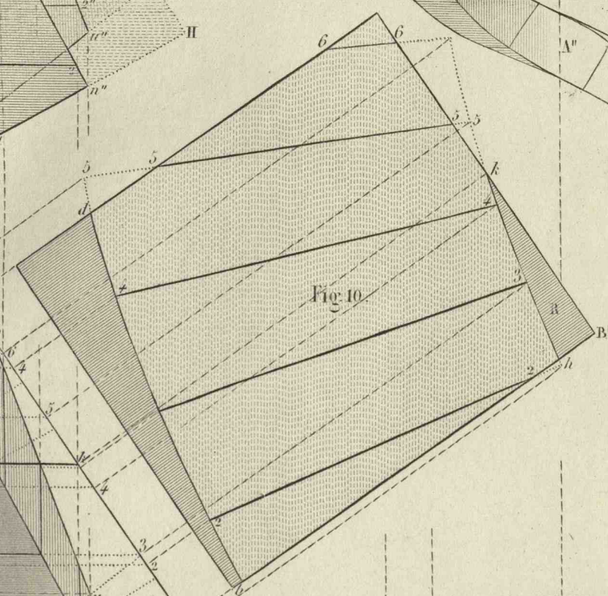


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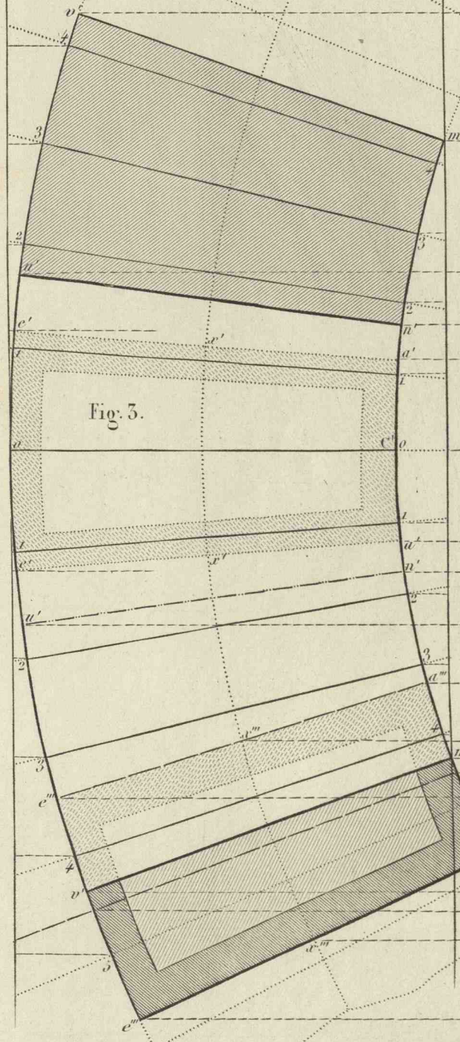


Fig. 4.



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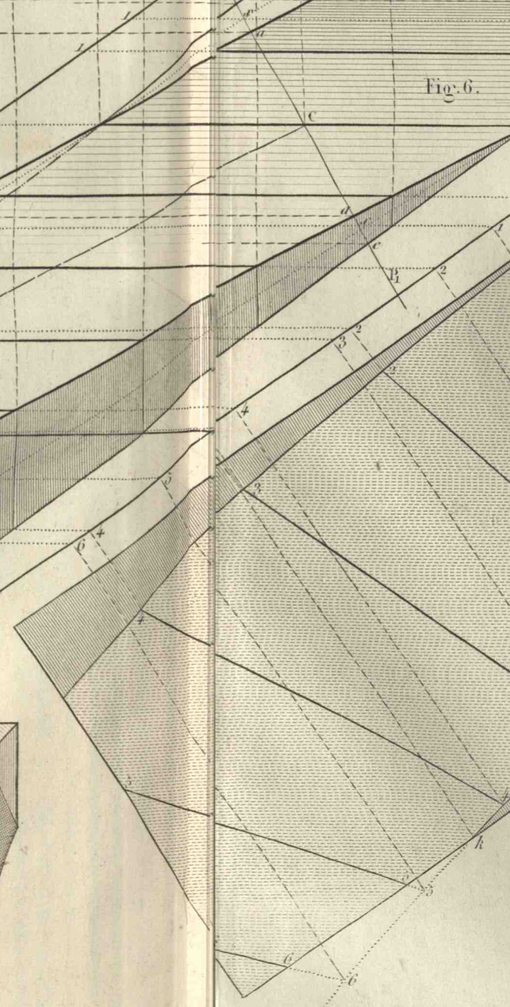


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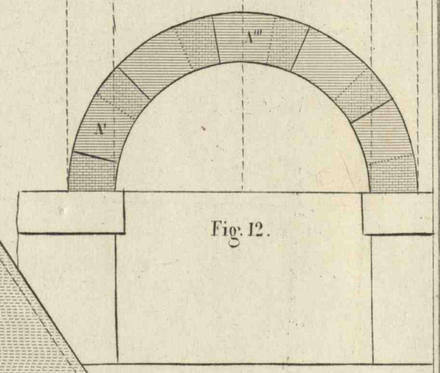


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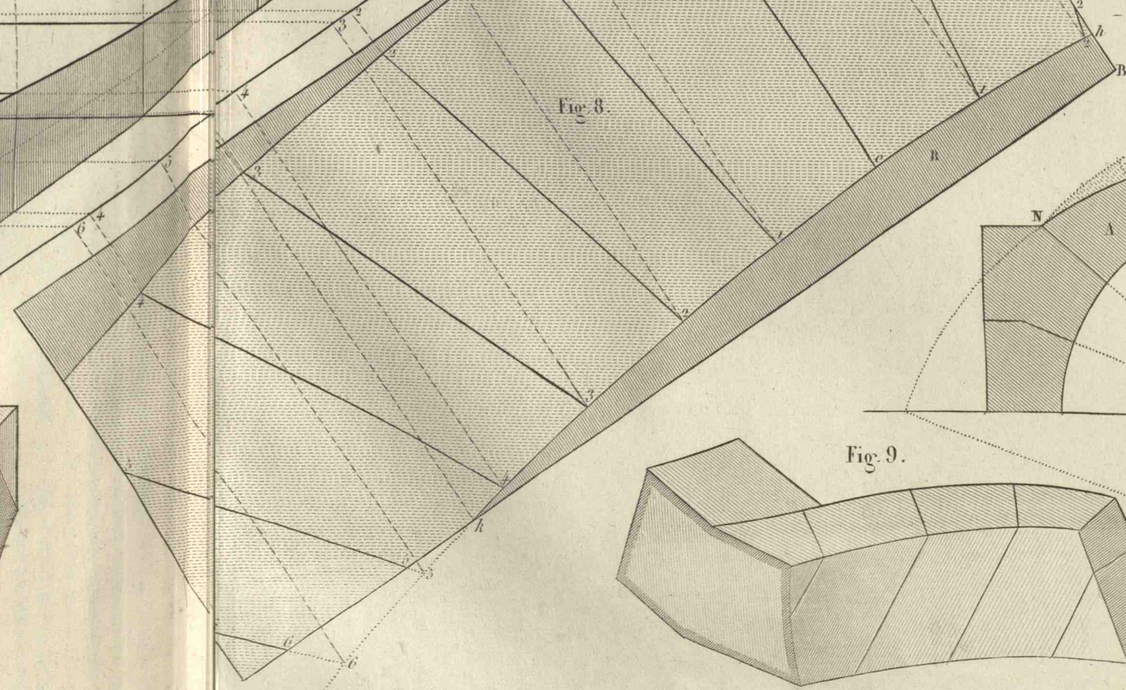


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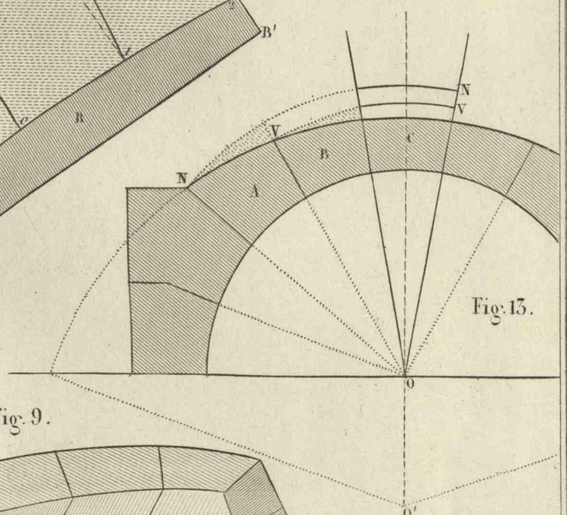


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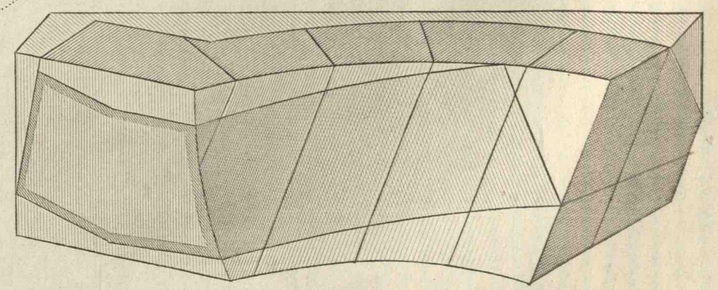
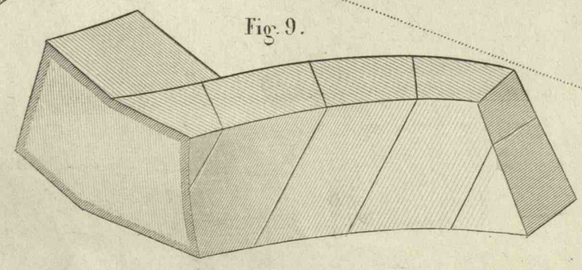


Fig. 9.



Ponts biais. - taille par Bouveau

Fig. 1.

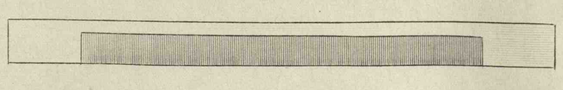


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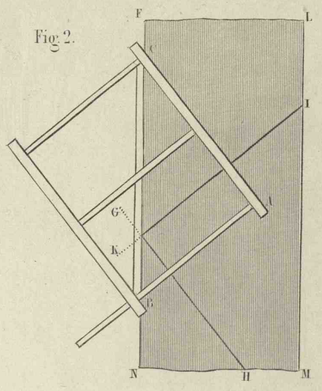


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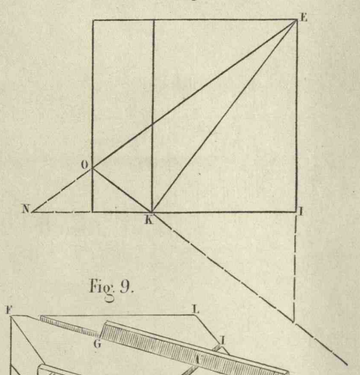


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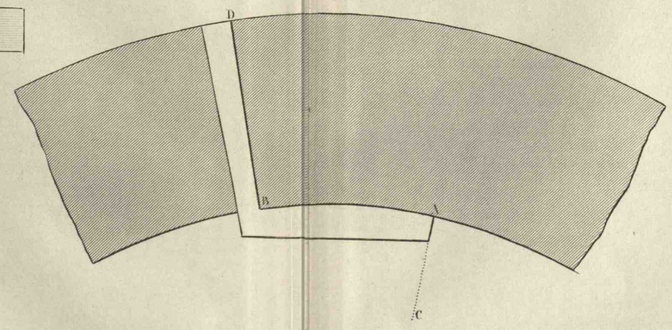


Fig. 5

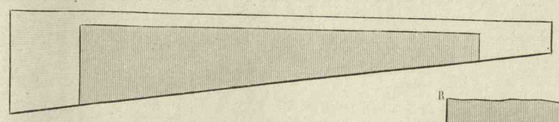
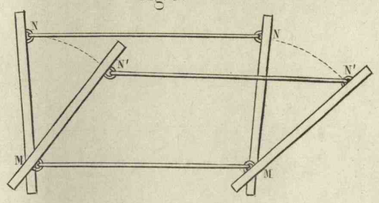


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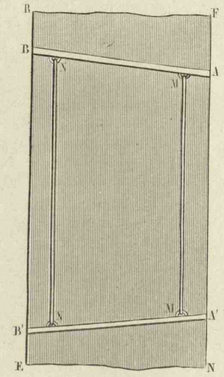


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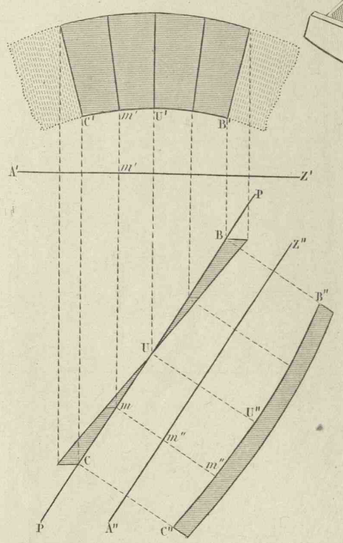


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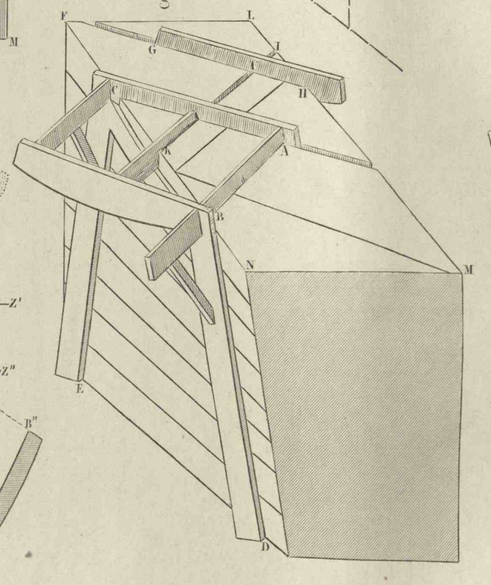


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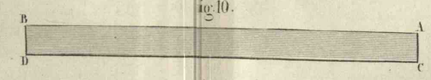


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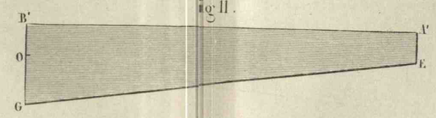


Fig. 12

Fig. 13.

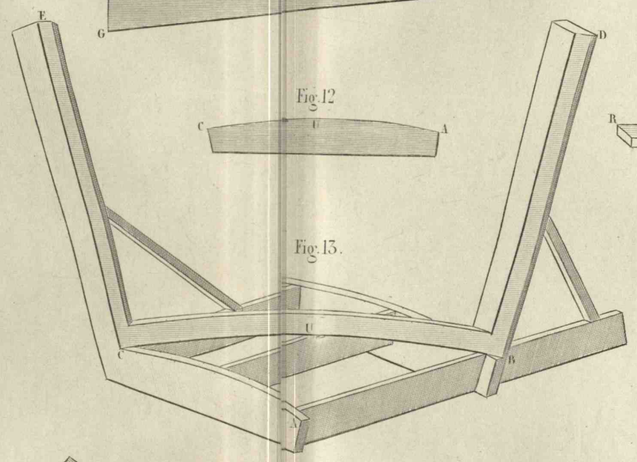


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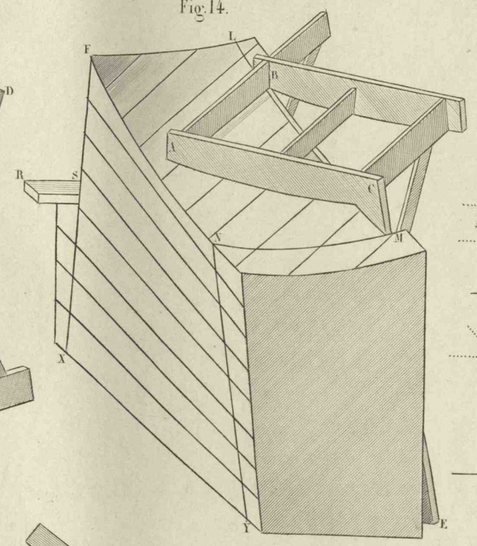


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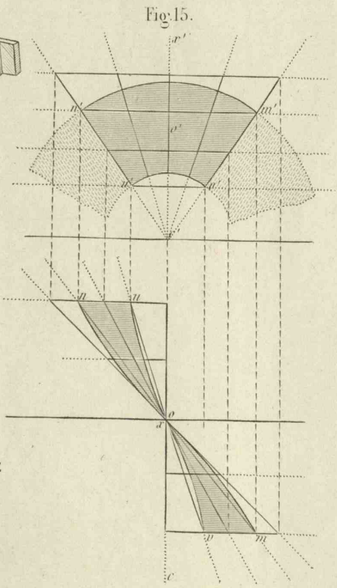


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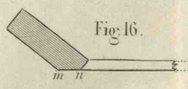


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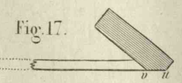


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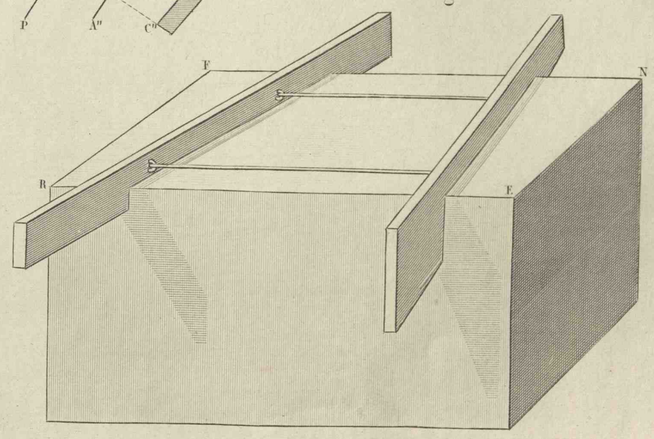


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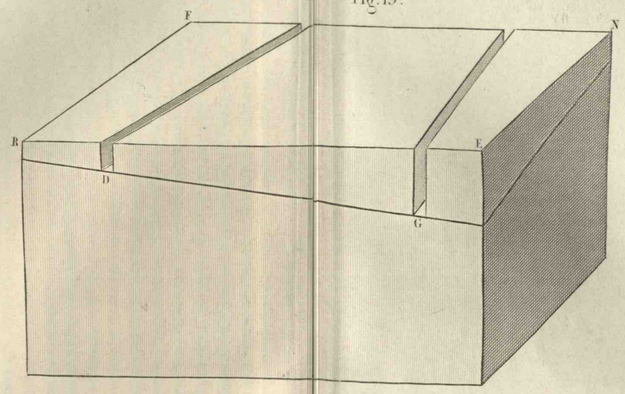
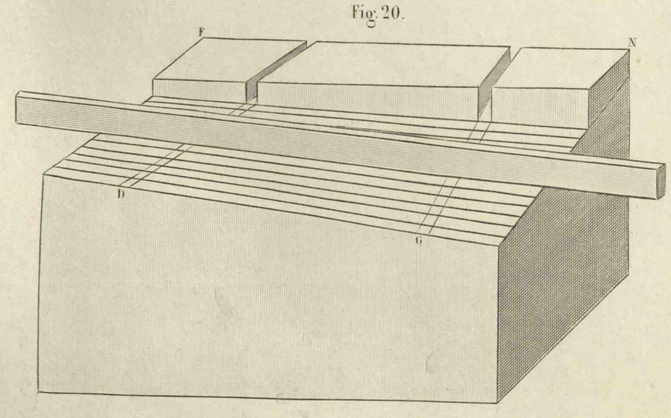


Fig. 20.



Imp. Rougier, R. des Mathurins S.t J.n 30. Paris.

Adhémar del.

Ponts biais -- taille par Beuveau

Fig. 1.

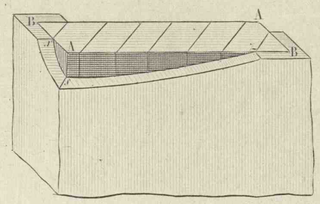


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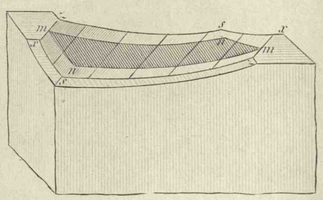


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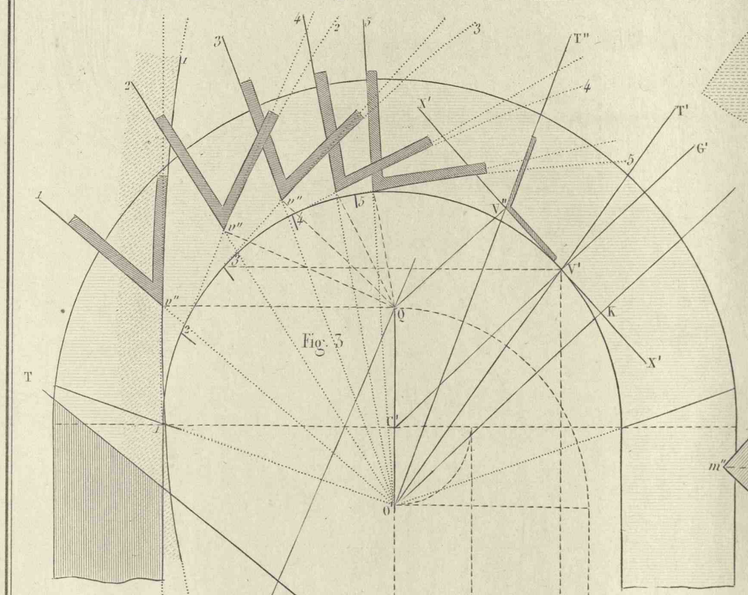


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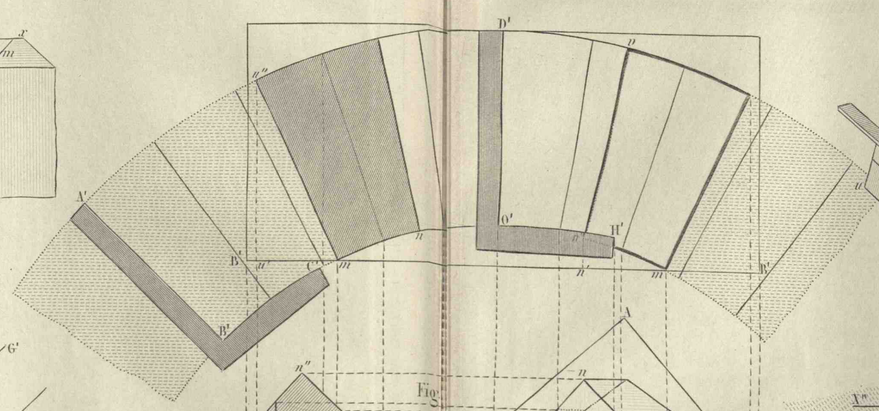


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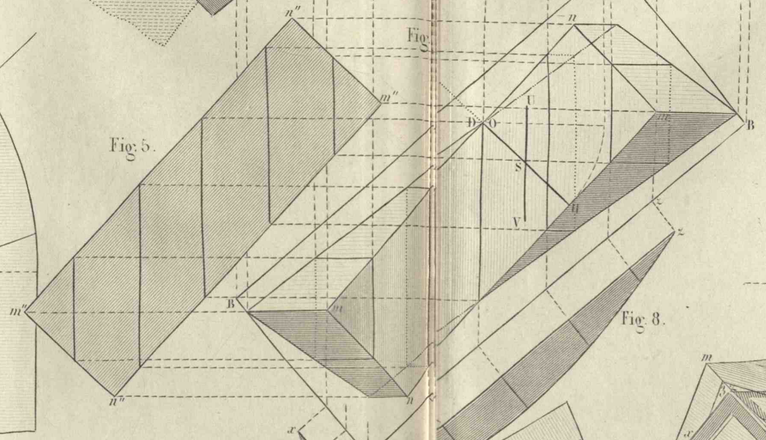


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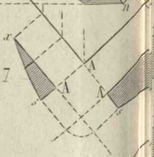


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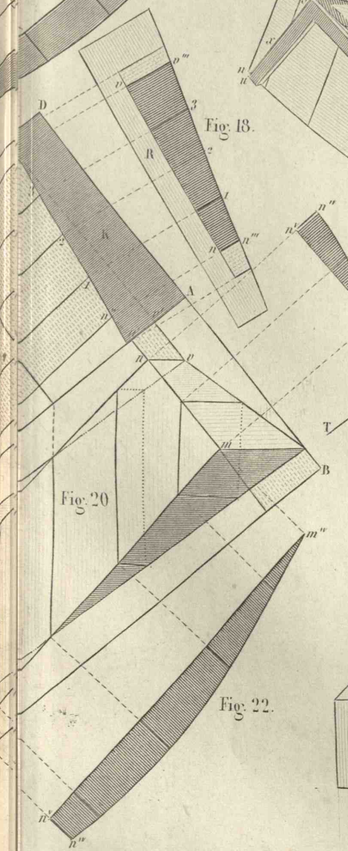


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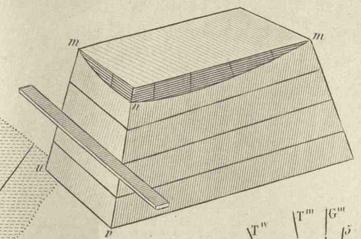


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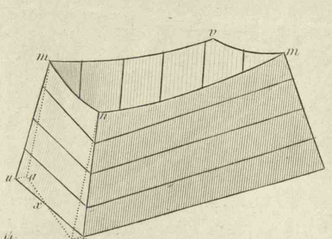


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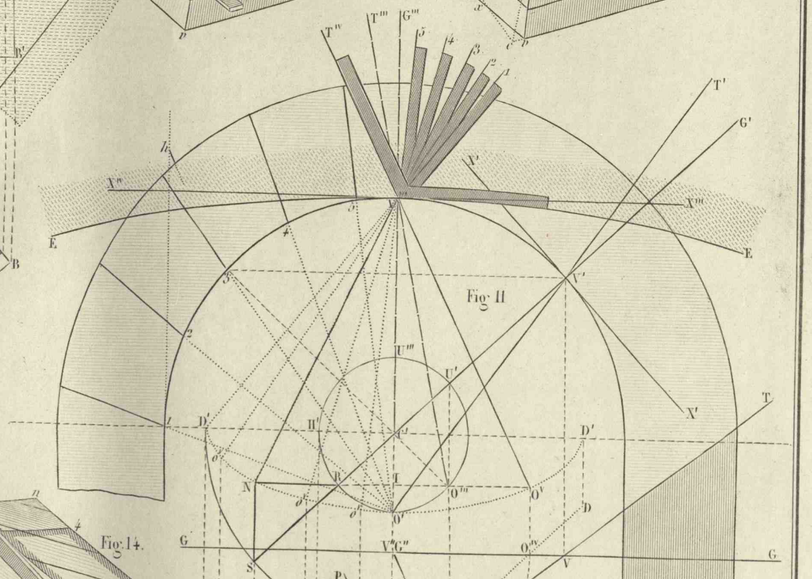


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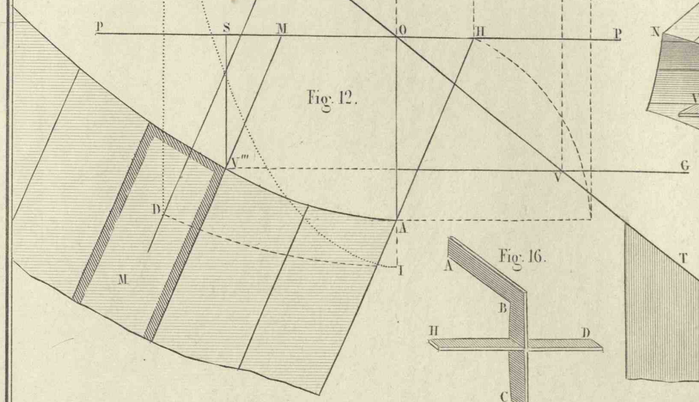


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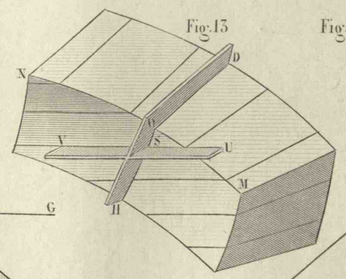


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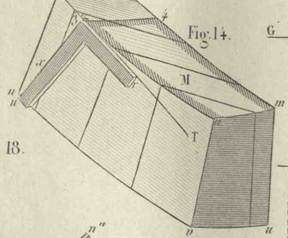


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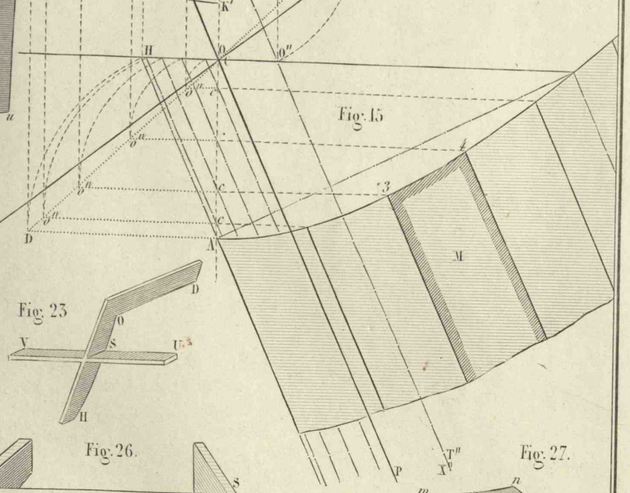


Fig. 16.

Fig. 17

Fig. 18.

Fig. 19.

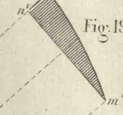


Fig. 20

Fig. 21.

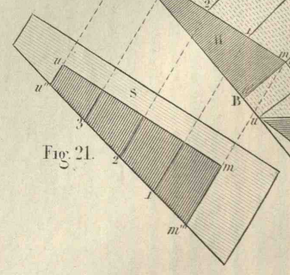


Fig. 22.

Fig. 23

Fig. 24.

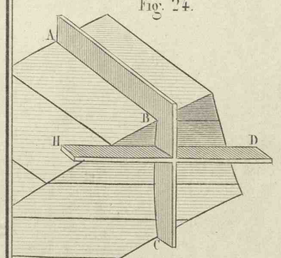


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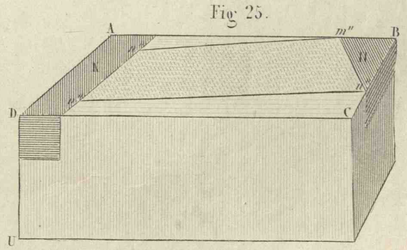


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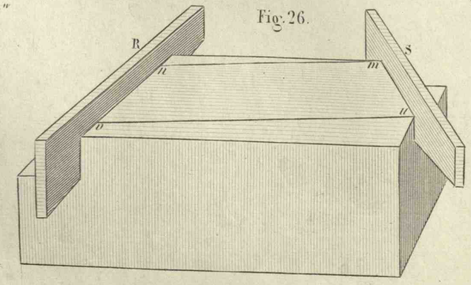


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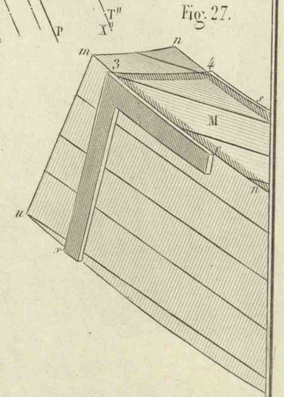


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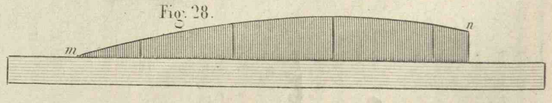
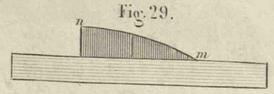


Fig. 29.



Ponts biais - Berceau circulaire - Joints normaux

Fig. 1

Fig. 2.

Fig. 3.

Fig. 4

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 8.

Fig. 9.

Fig. 10.

Fig. 11.

Fig. 12.

Fig. 13.

Fig. 14.

Fig. 15.

Fig. 17

Ponts biais - stabilité

Fig. 1.

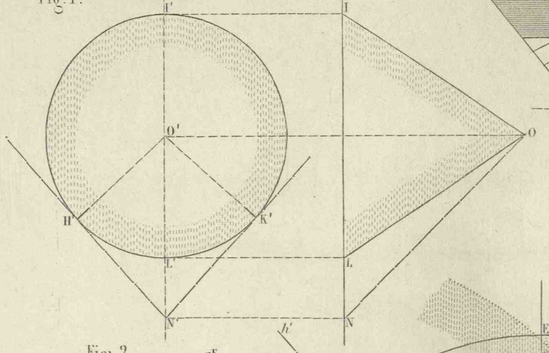


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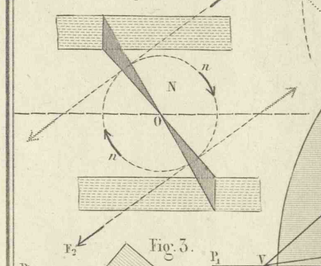


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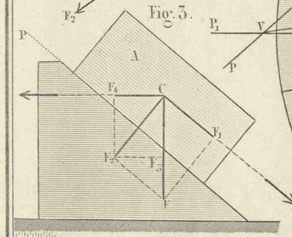


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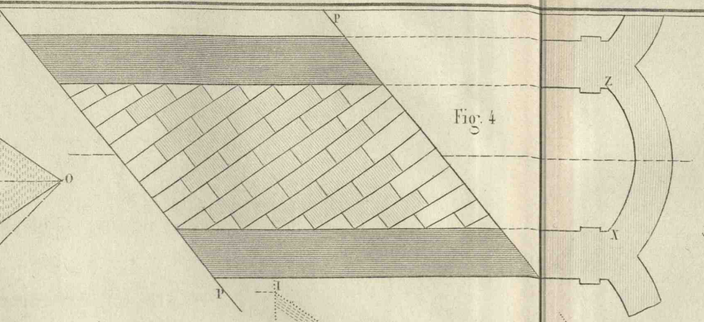


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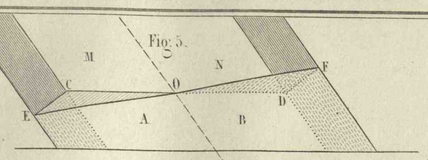


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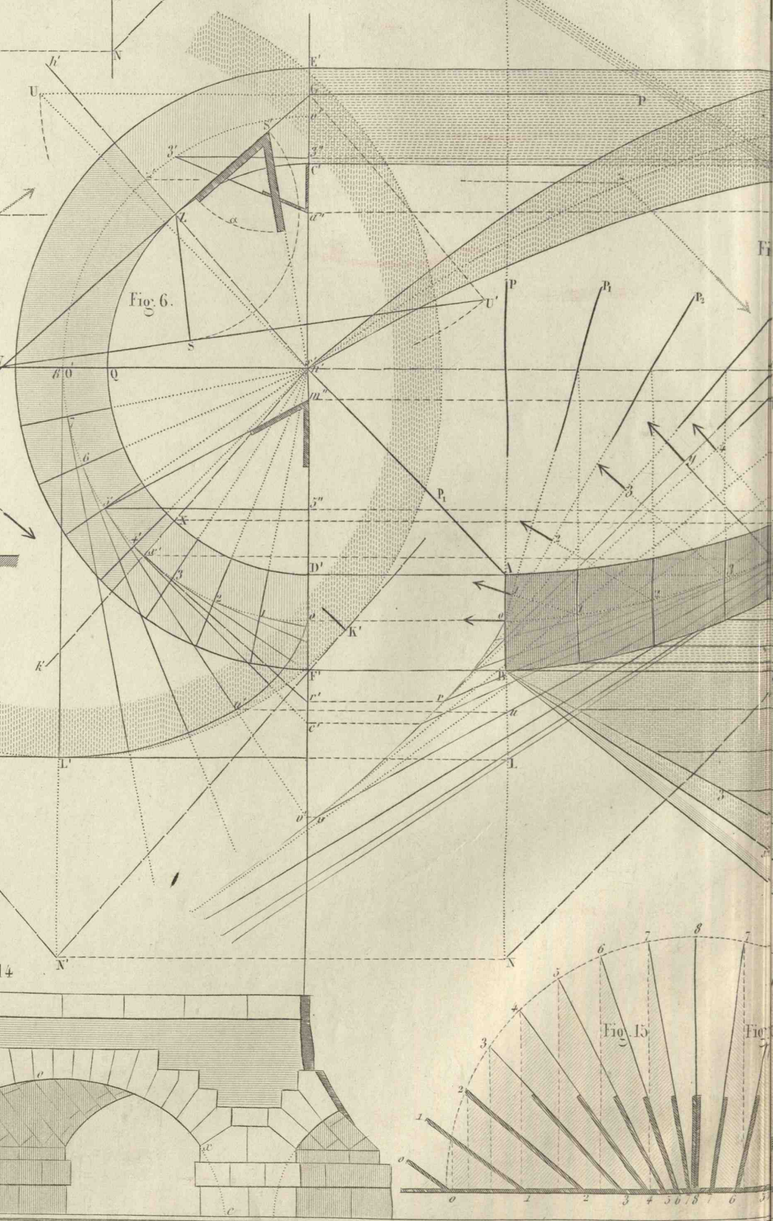


Fig. 7

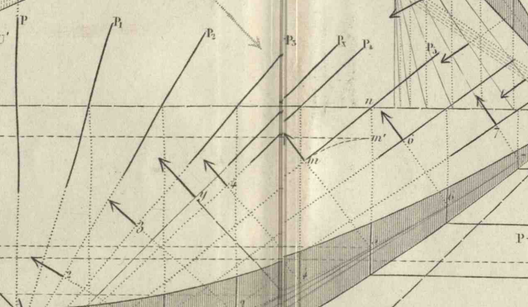


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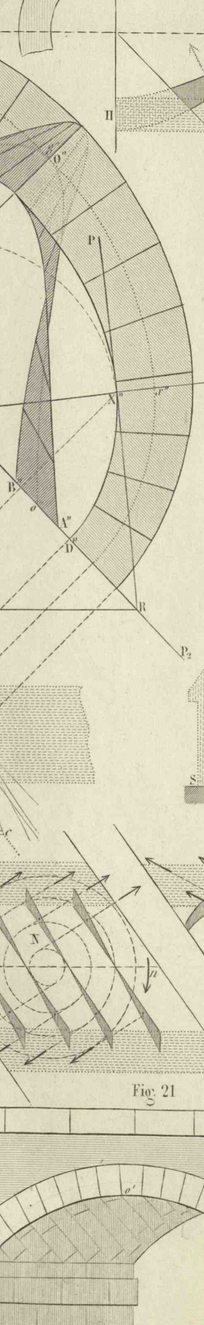


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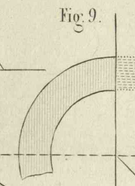


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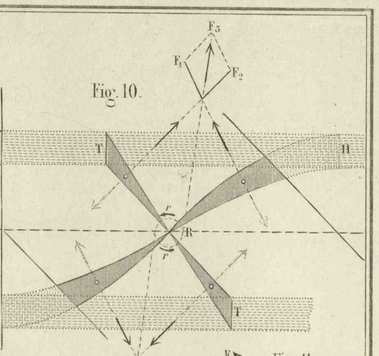


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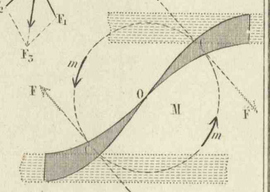


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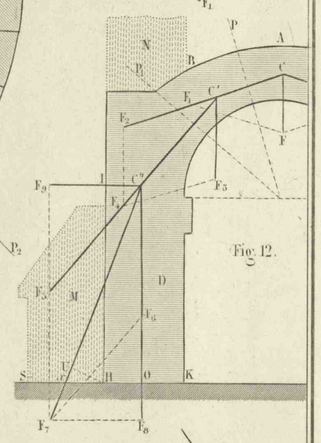


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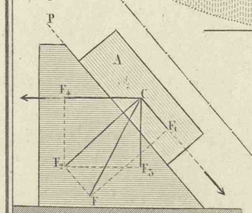


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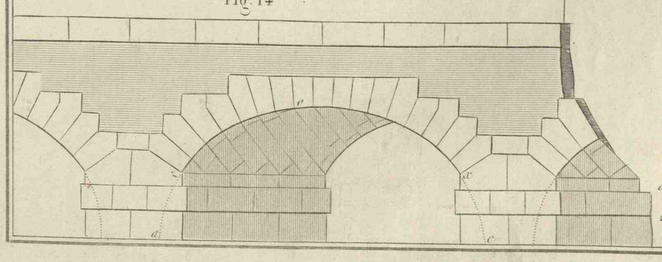


Fig. 15

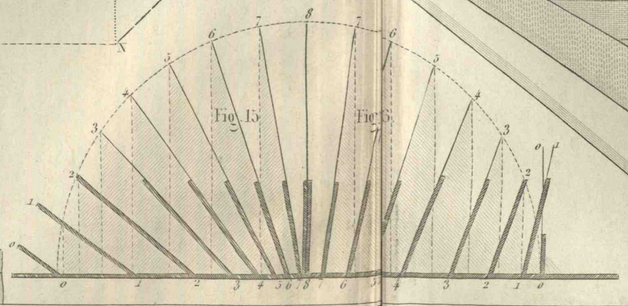


Fig. 16

Fig. 17

Fig. 18.

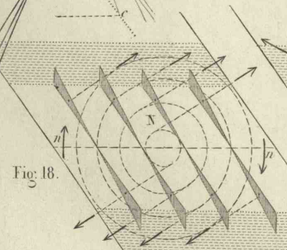


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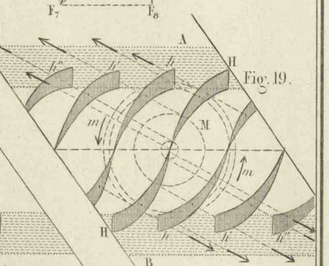


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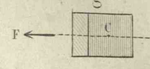
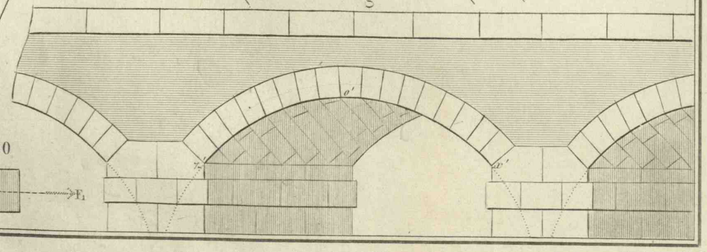


Fig. 21



Pont biais circulaire - Joints, Plans.

Fig. 1.

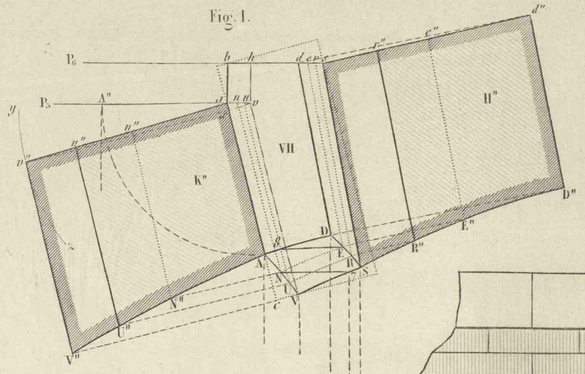


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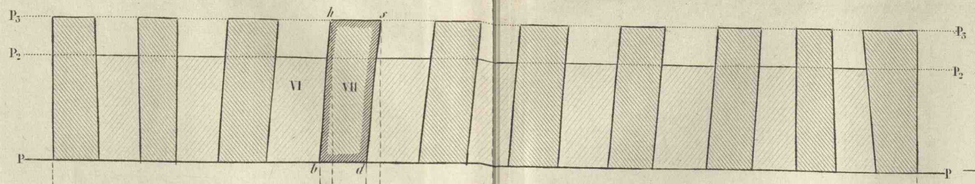


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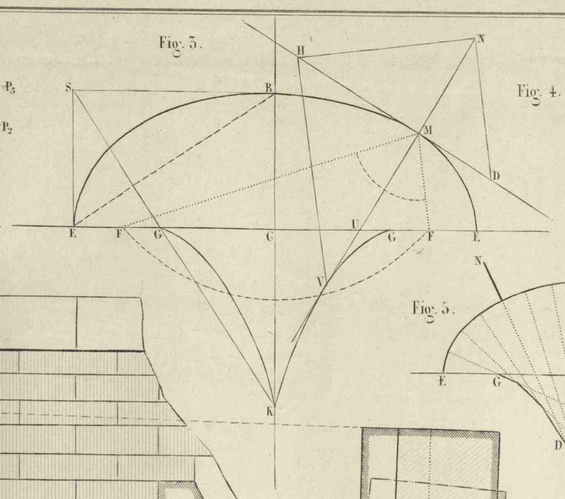


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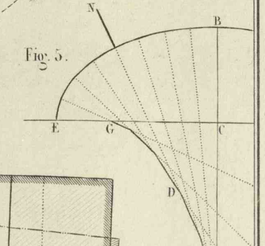


Fig. 5.

Fig. 6

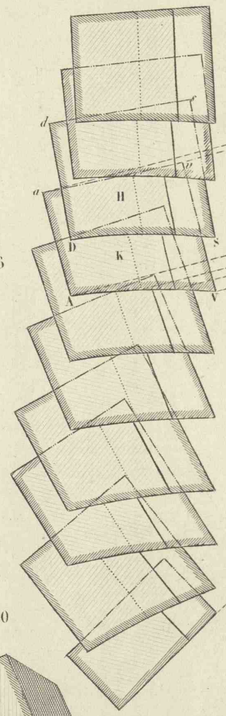


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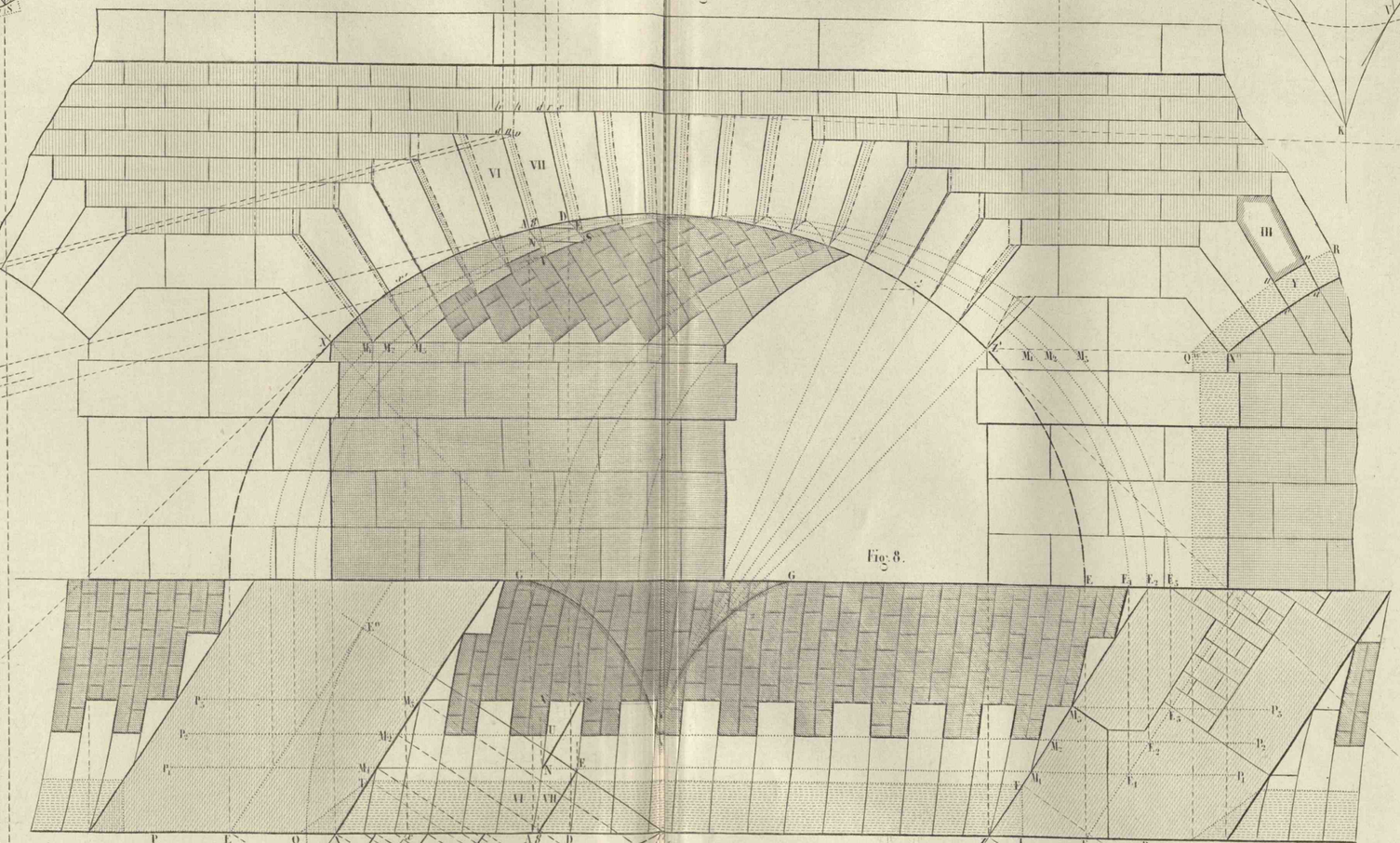


Fig. 8.

Fig. 9.

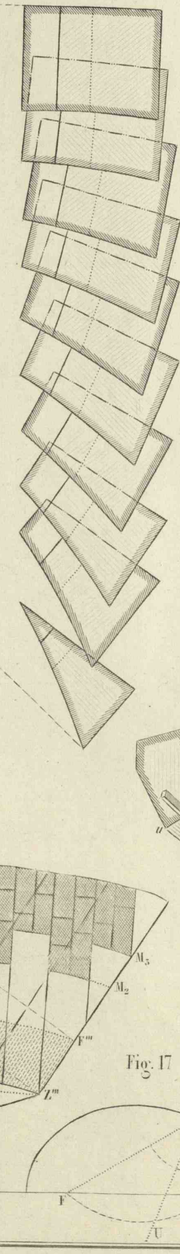


Fig. 10

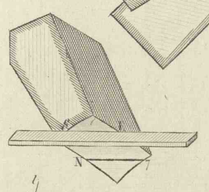


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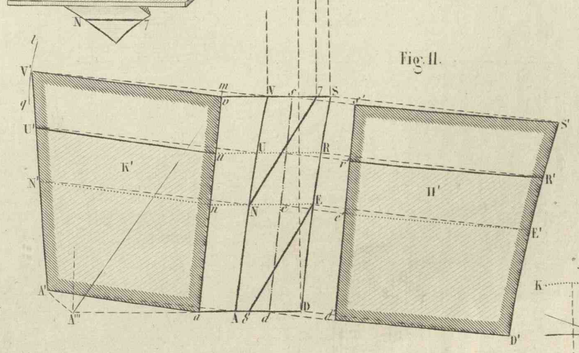


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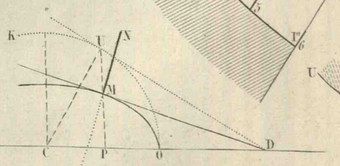


Fig. 13

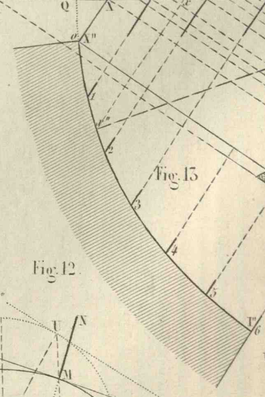


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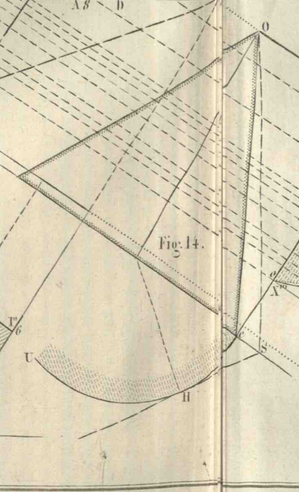


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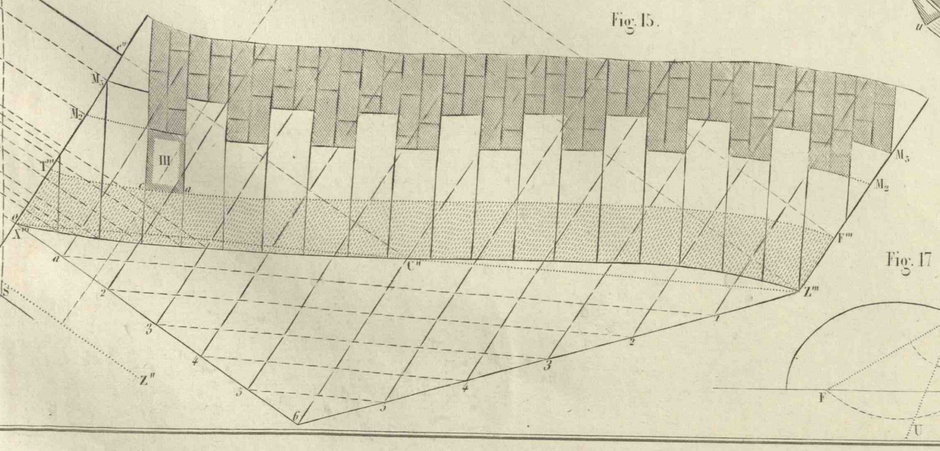


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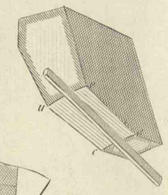
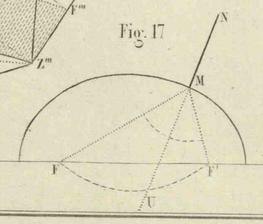


Fig. 17



Adhémar del.

Ponts biais - appareil orthogonal

Fig. 1

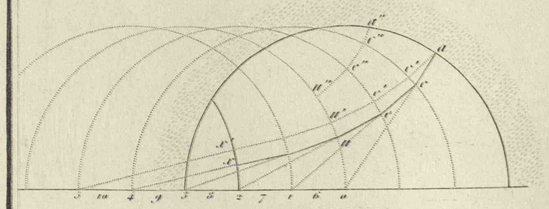


Fig. 2

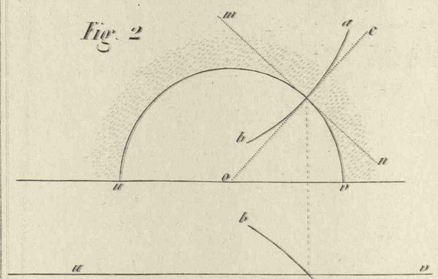


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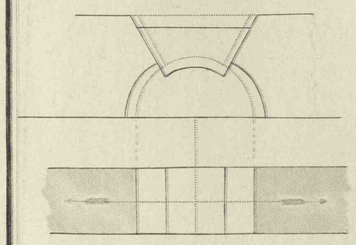


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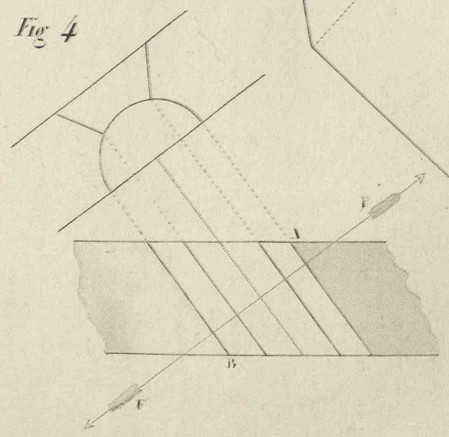


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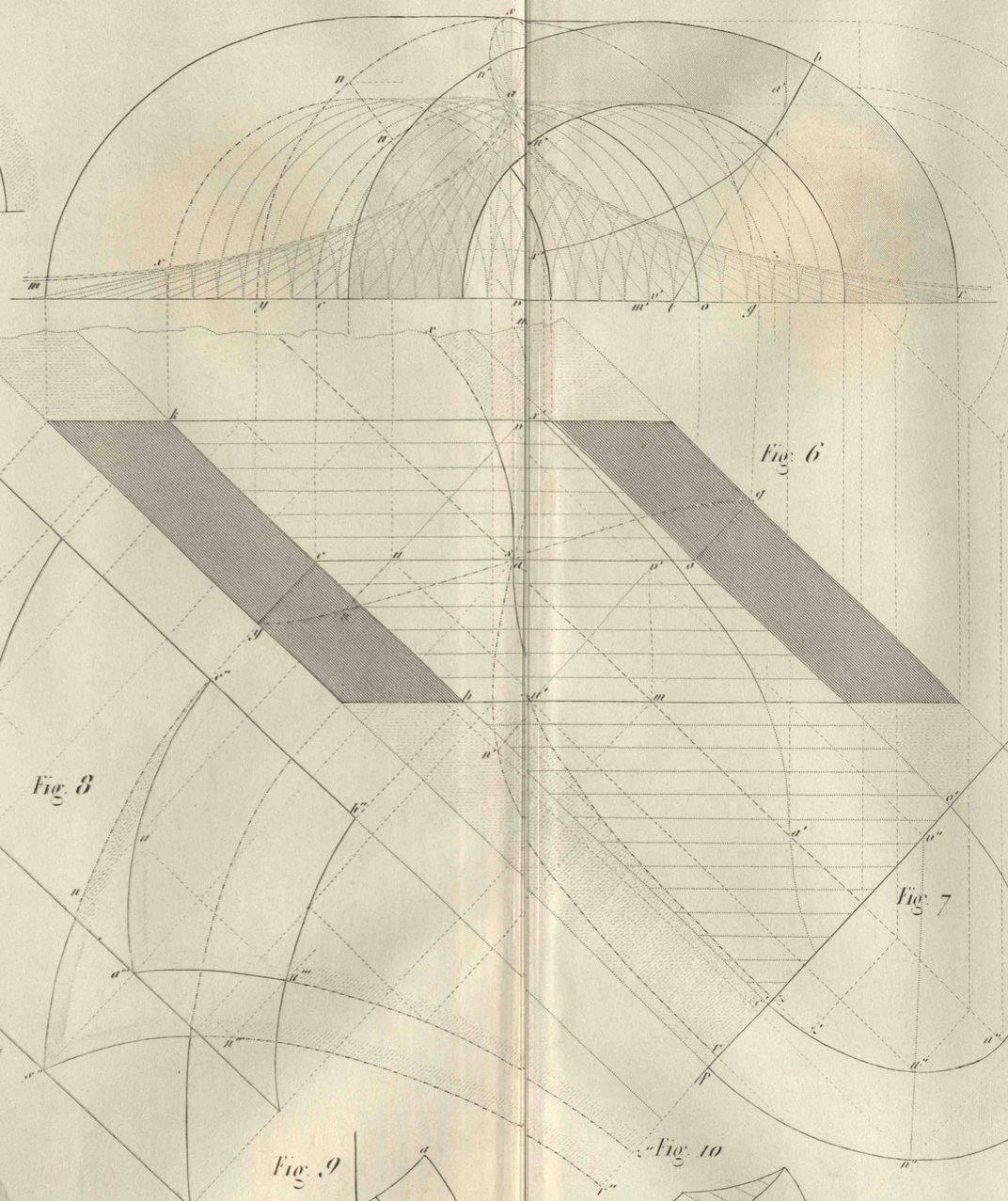


Fig. 6

Fig. 7

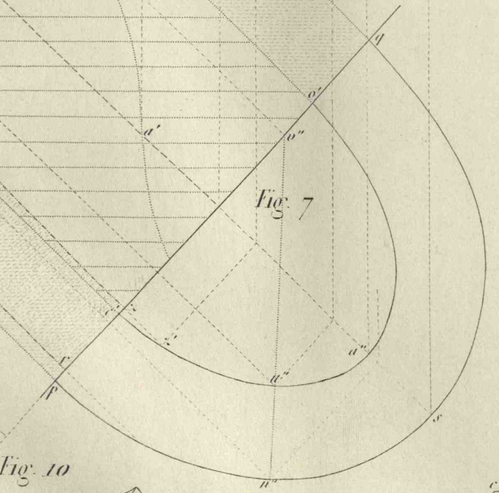


Fig. 8

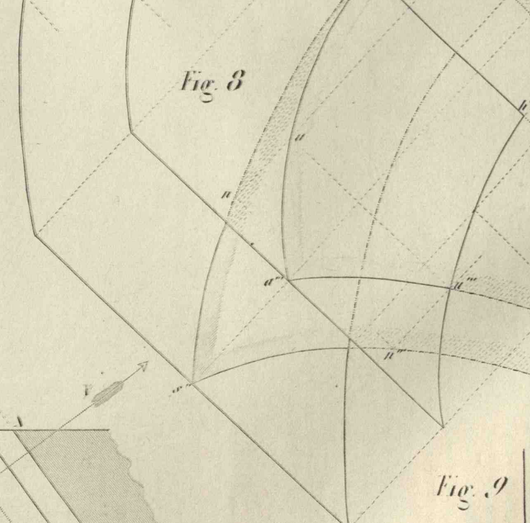


Fig. 9

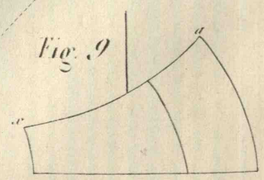


Fig. 10

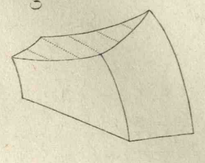


Fig. 11

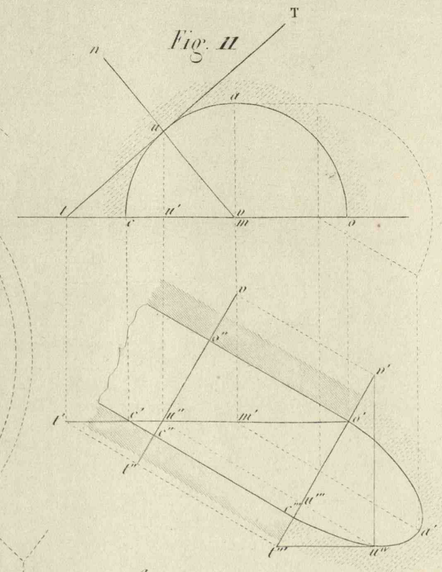


Fig. 12

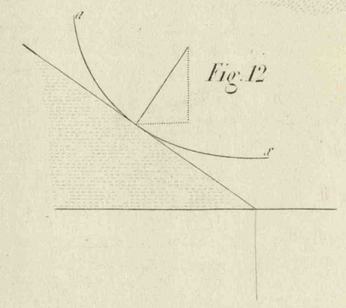


Fig. 13

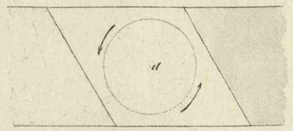
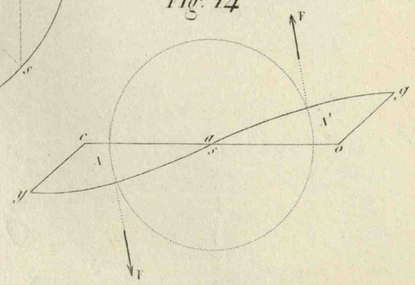


Fig. 14



Ponts biais - appareil orthogonal - Joints Plans

Fig. 1

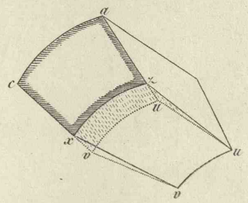


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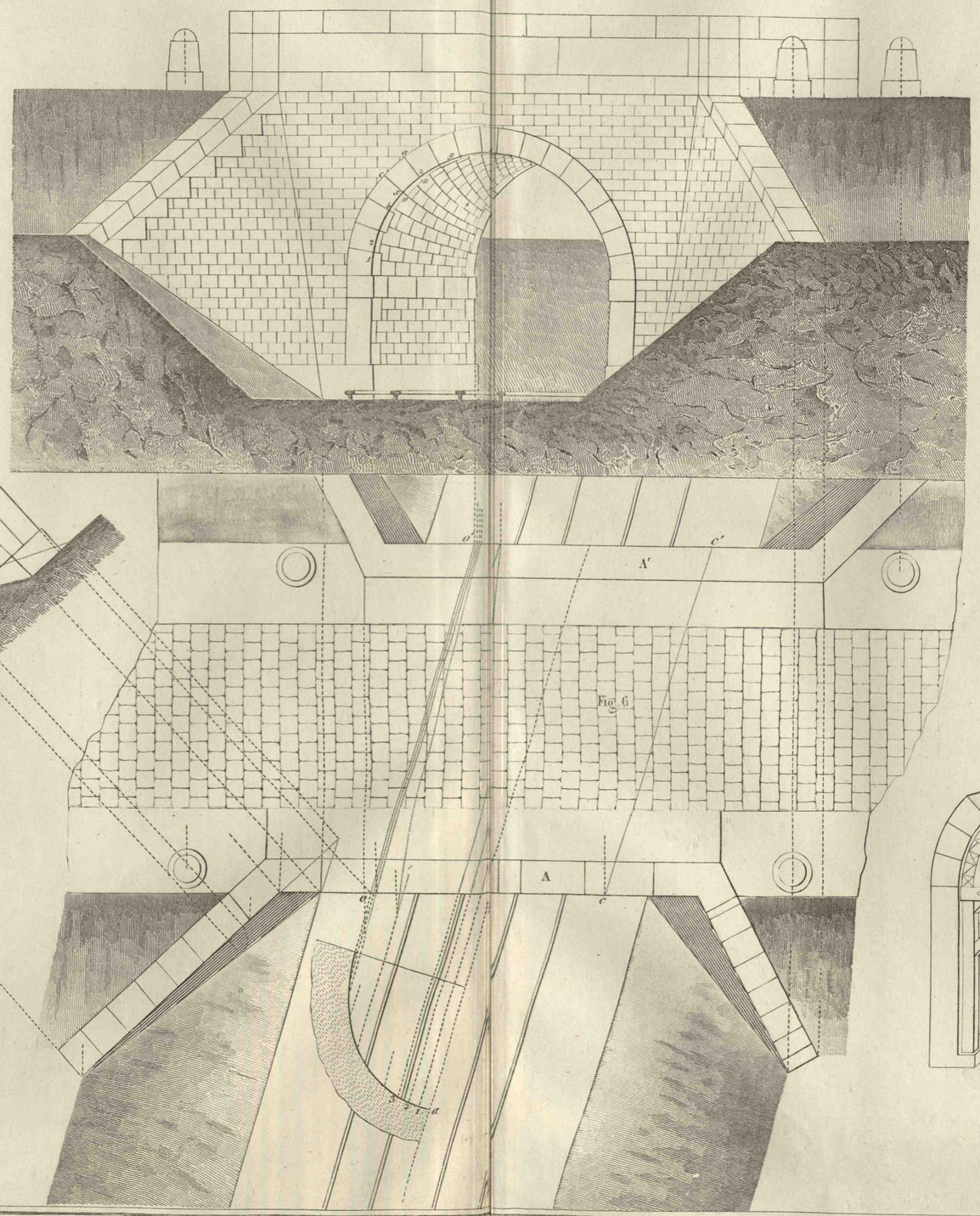


Fig. 3.

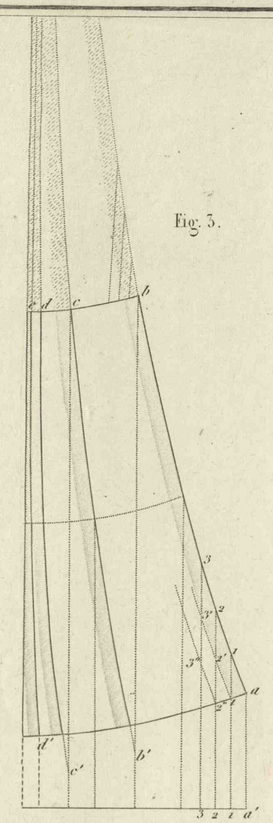


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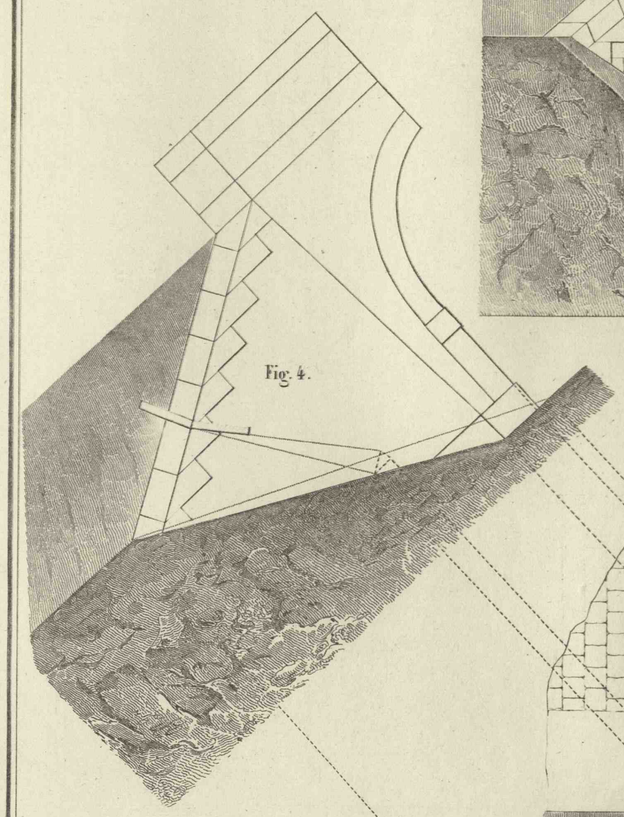


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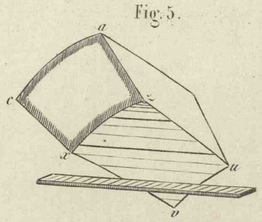
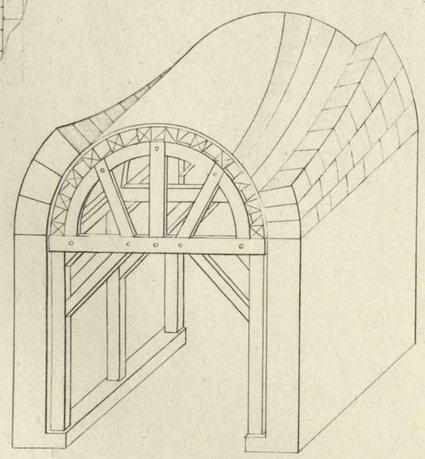


Fig. 6

Fig. 7.



Imp. Bougier, R. des Mathurins N. 3 bis Paris.

Adhémar del.

Ponts biais - appareil orthogonal convergent

Fig. 1.

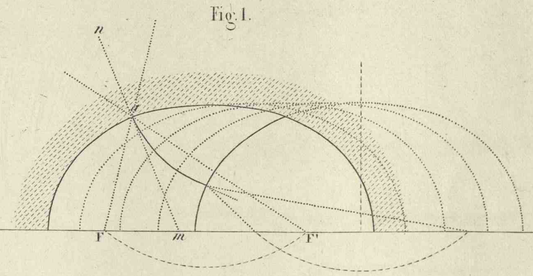


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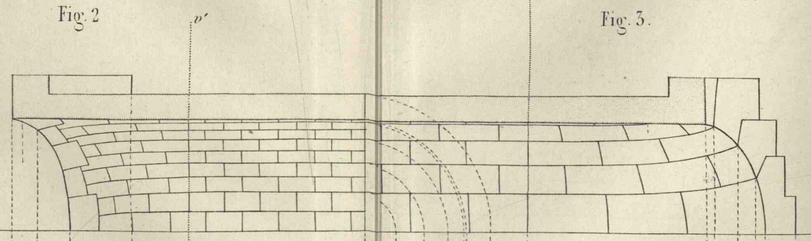


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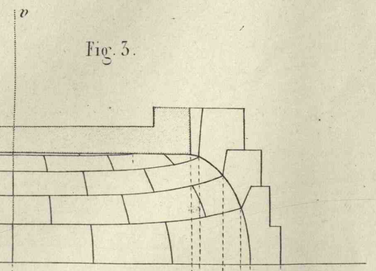


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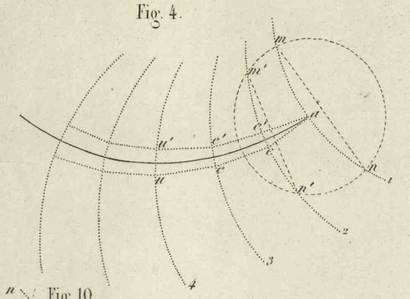


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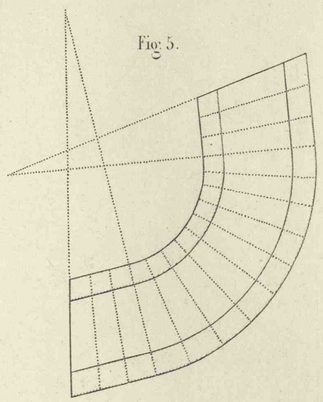


Fig. 6

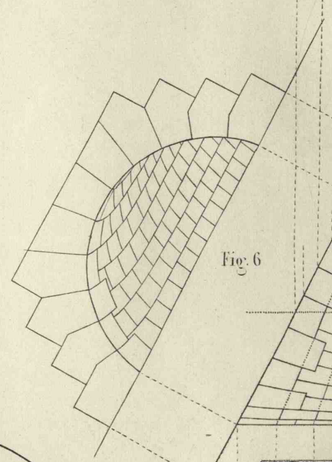


Fig. 7.

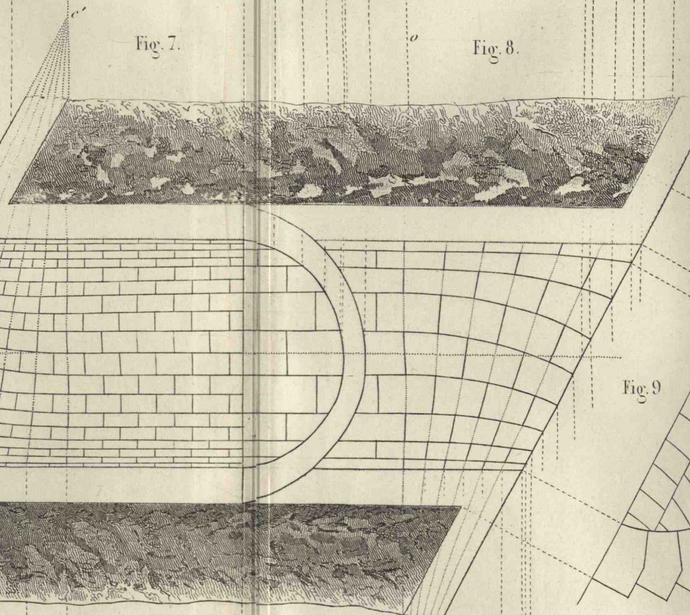


Fig. 8.

Fig. 9

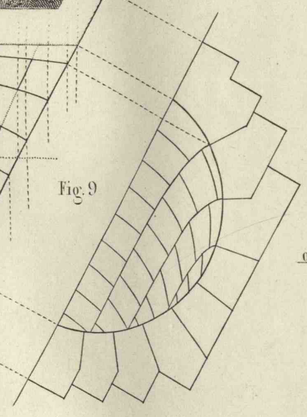


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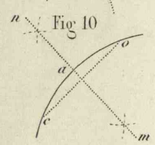


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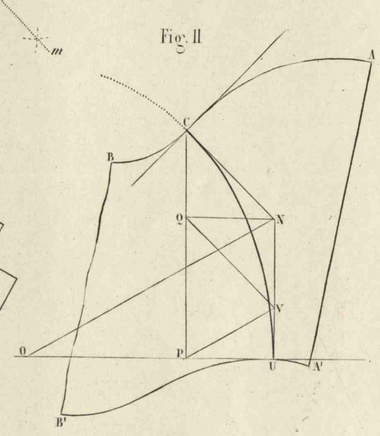


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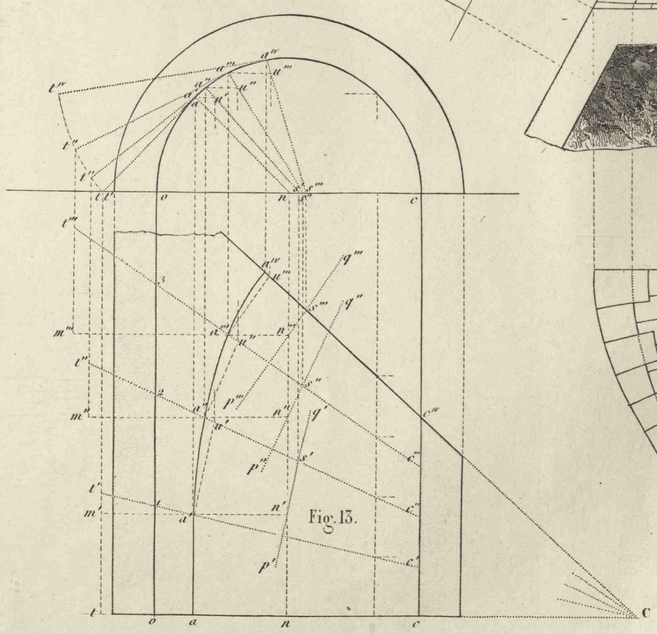


Fig. 13.

Fig. 14

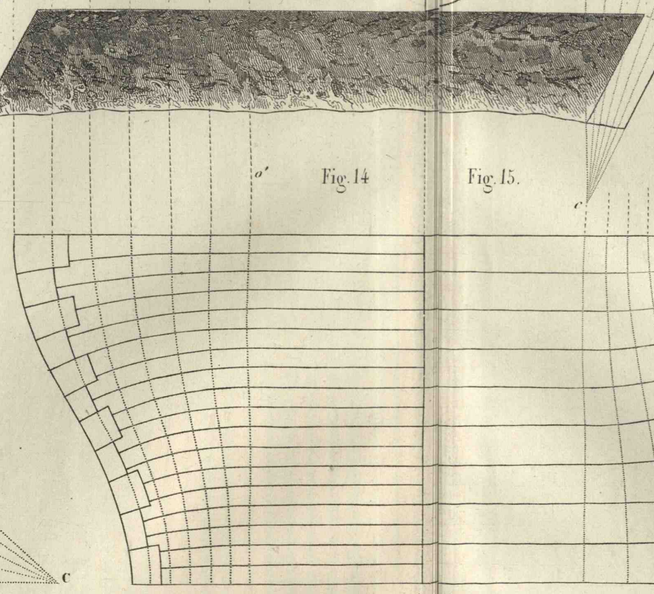


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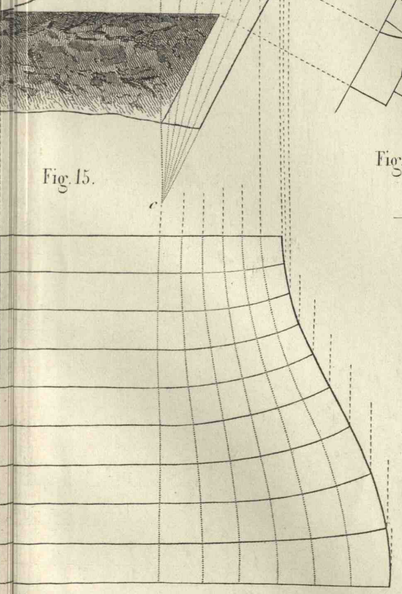


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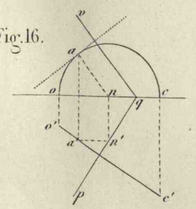
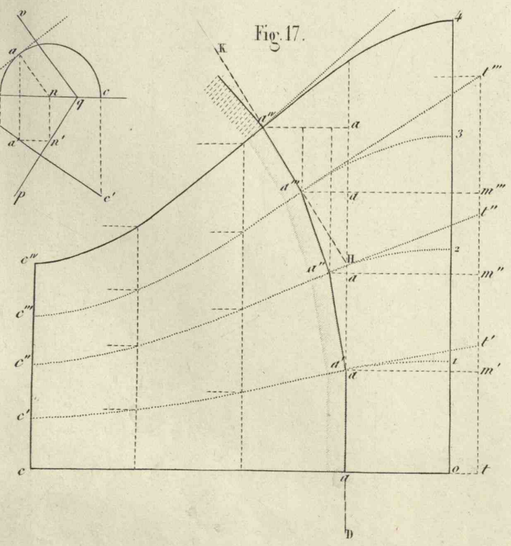


Fig. 17.



Imp. Rougier, R. des Mathurins S. J. 10. Paris.

Adhémar del.

Ponts biais - appareil orthogonal - Joints cylindriques

Fig. 1

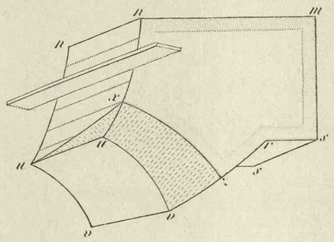


Fig. 2.

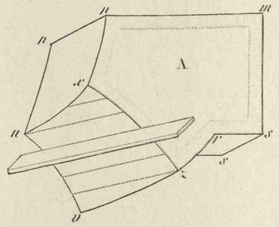


Fig. 3

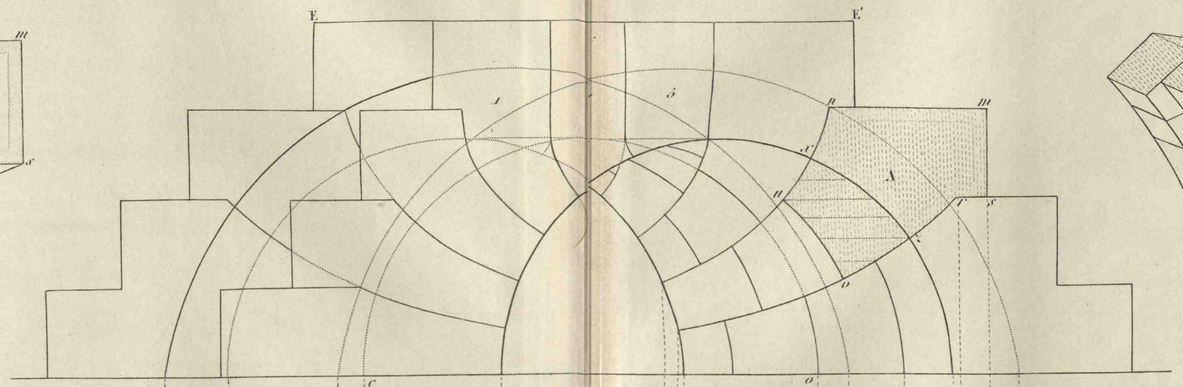


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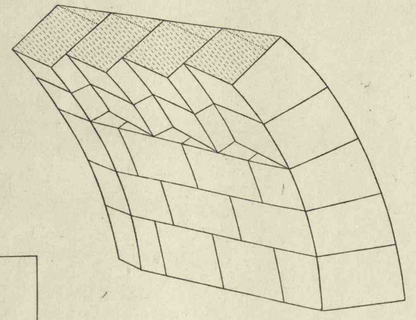


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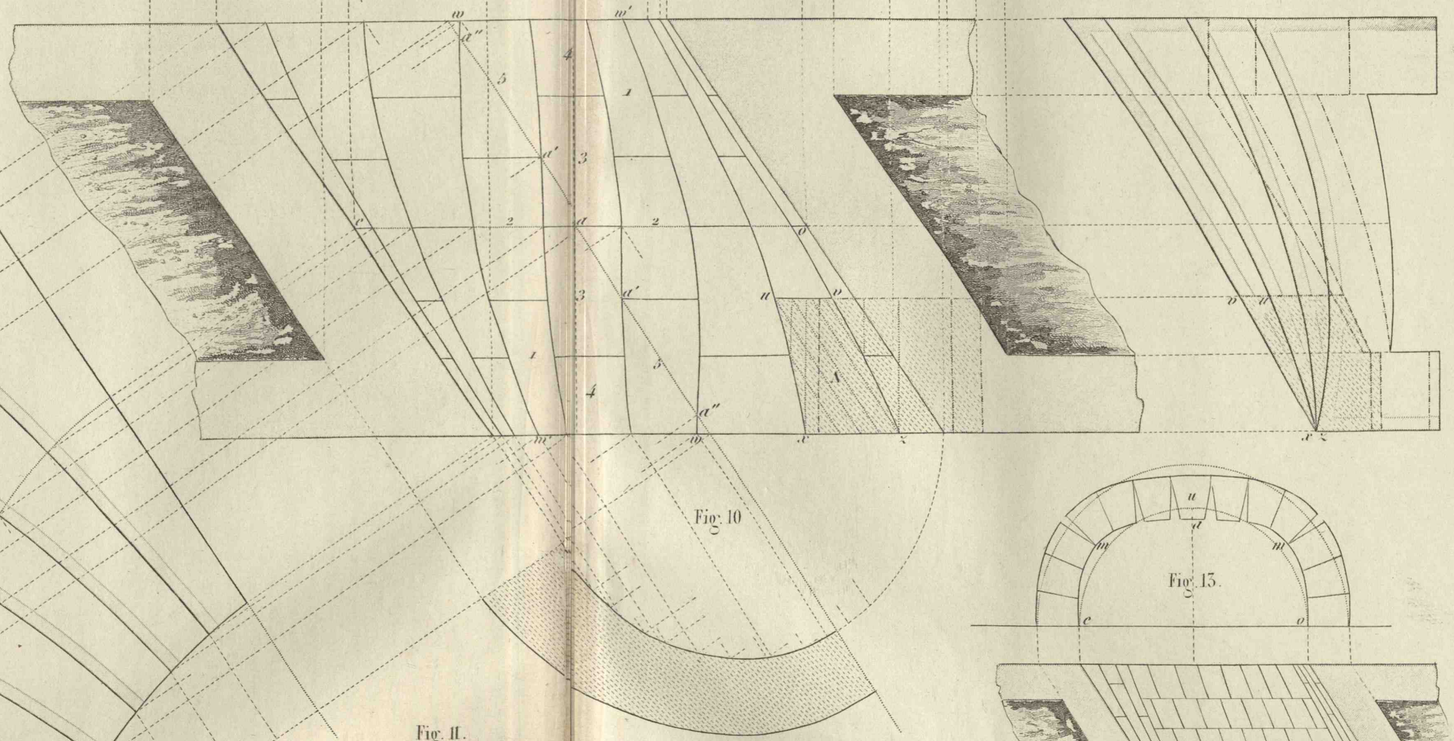


Fig. 6.

Fig. 9.

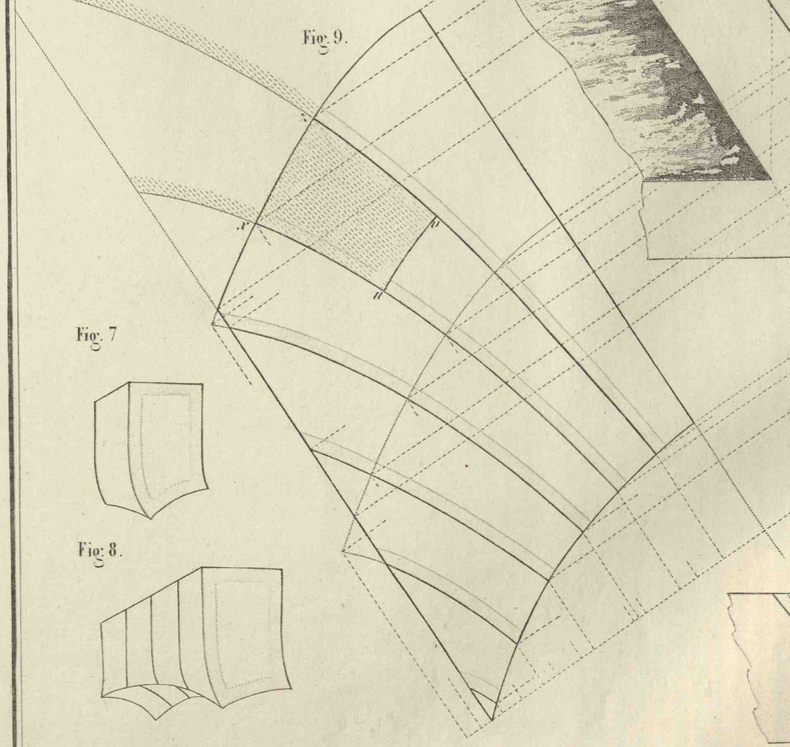


Fig. 7

Fig. 8.

Fig. 10

Fig. 11.

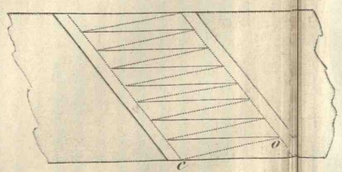


Fig. 12

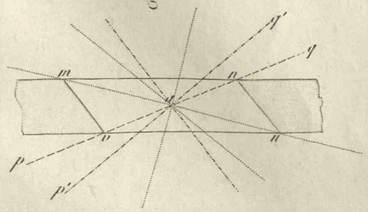
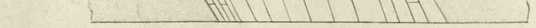


Fig. 13.

Fig. 14



Imp. Rouget fr. des Mathurins S. J. N°10. Paris.

Adhémar del.

Ponts biais — arcs droits.

Fig. 1.

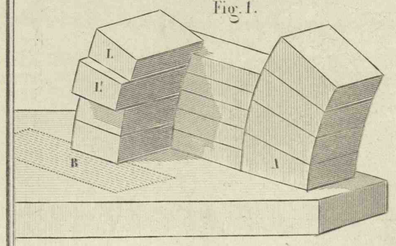


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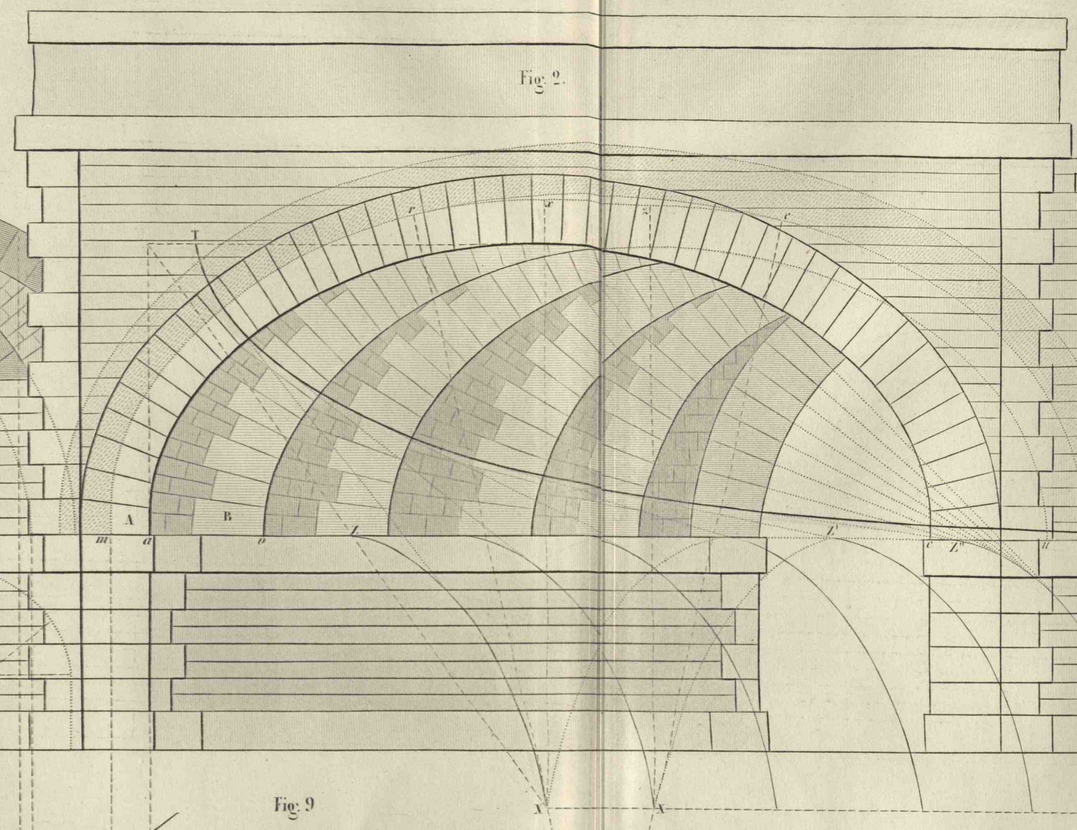


Fig. 3.

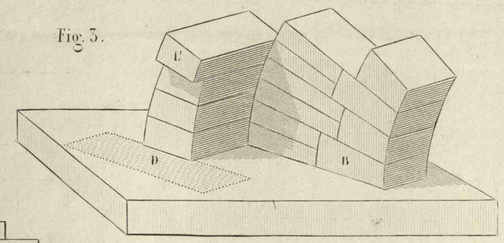


Fig. 4

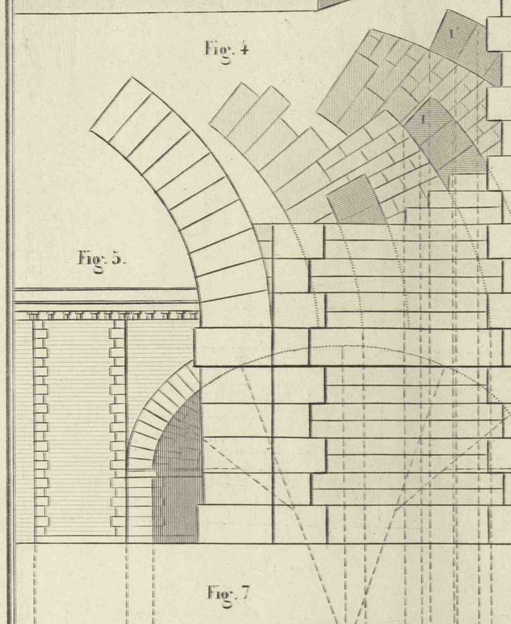


Fig. 5.

Fig. 6.

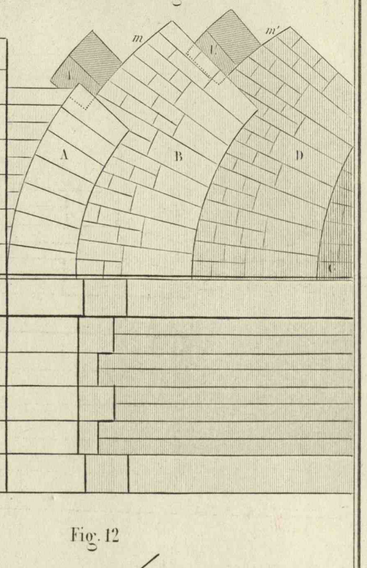


Fig. 7

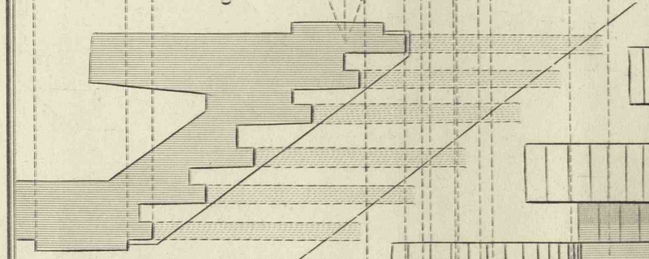


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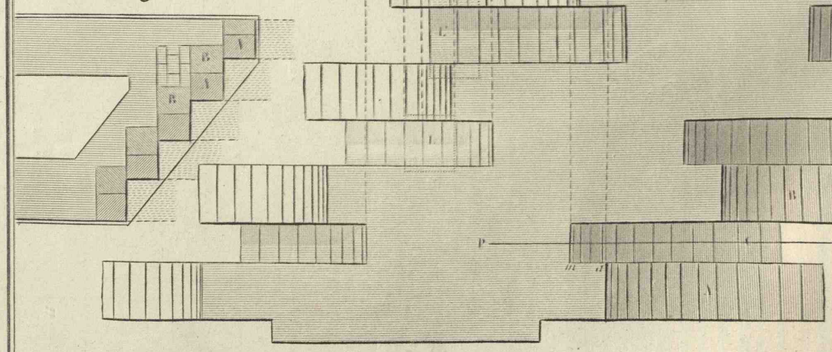


Fig. 9

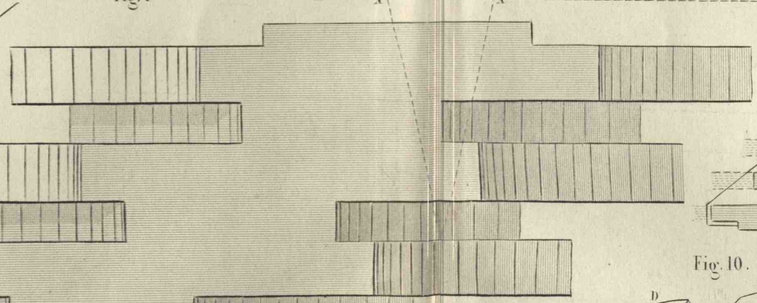


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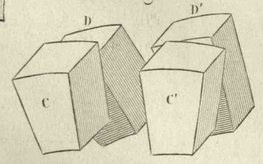


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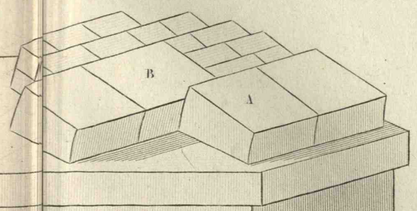


Fig. 12

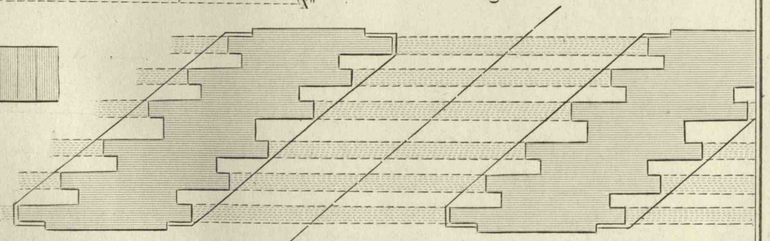
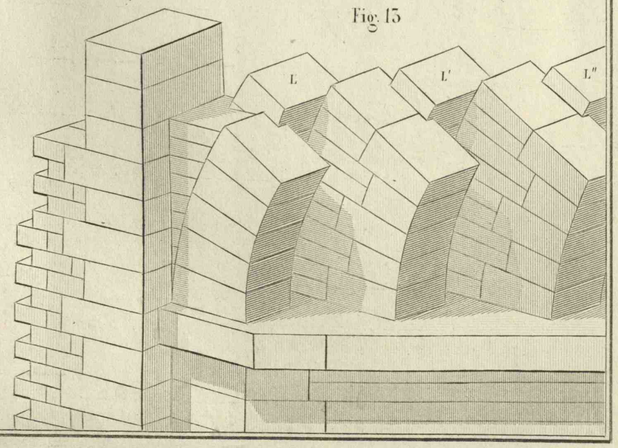


Fig. 13



Adhemar del

Ponts biais en bois

Fig. 1.

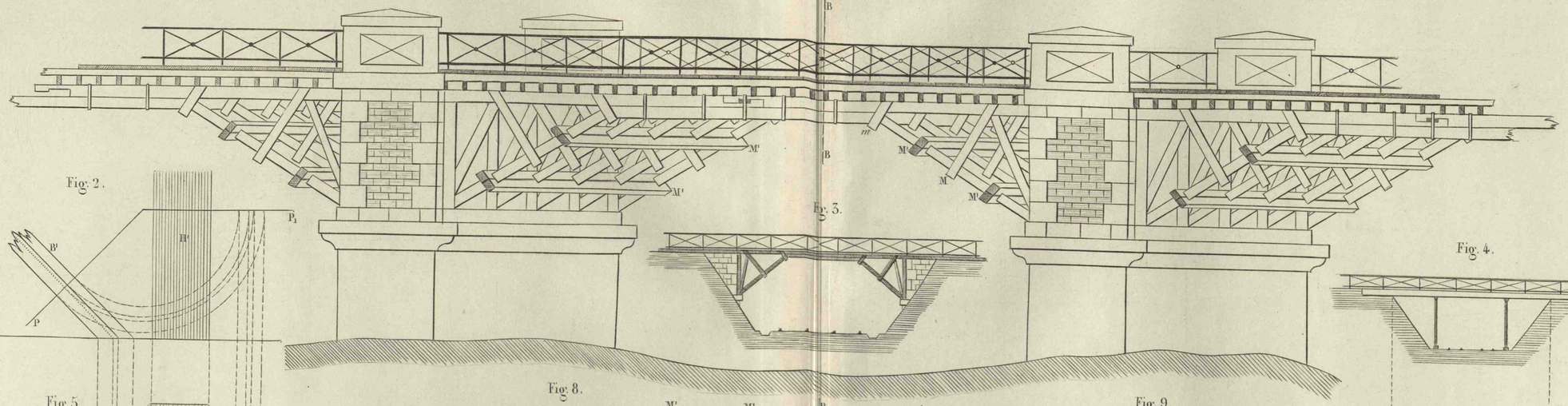


Fig. 2.

Fig. 3.

Fig. 4.

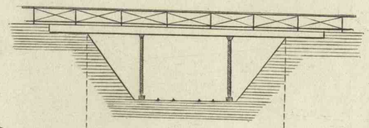


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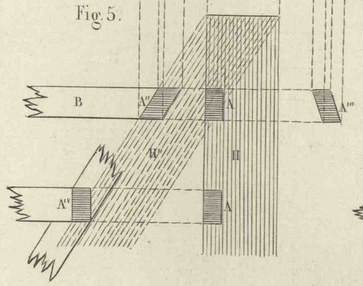


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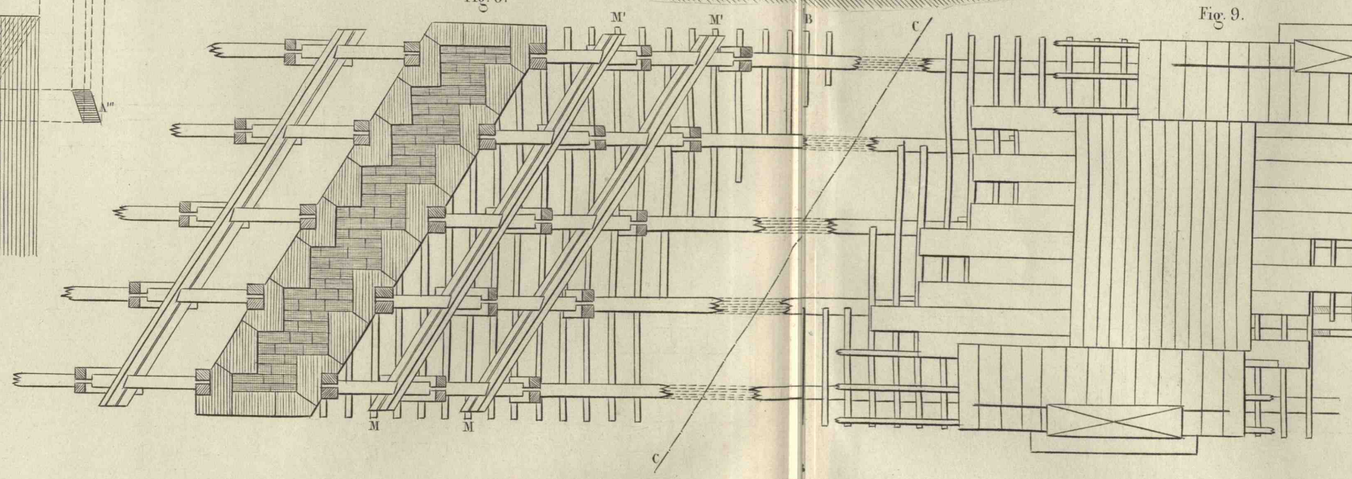


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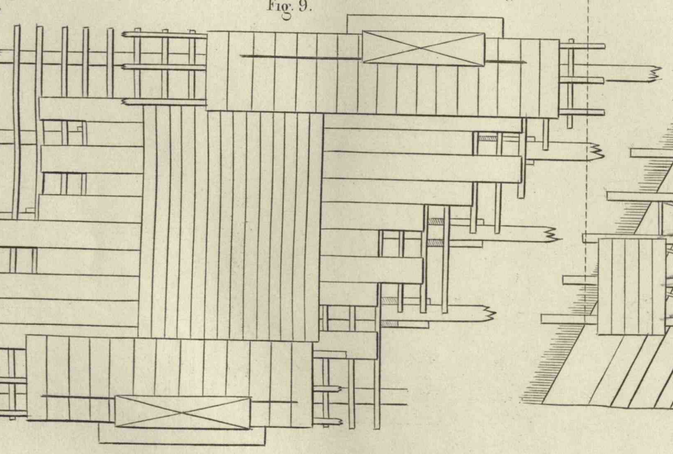


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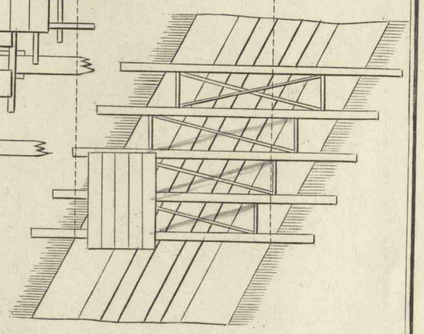


Fig. 6.



Fig. 7.



Fig. 11.

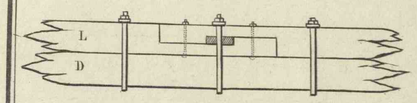


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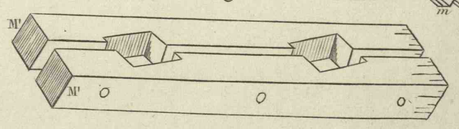


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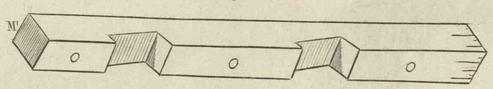


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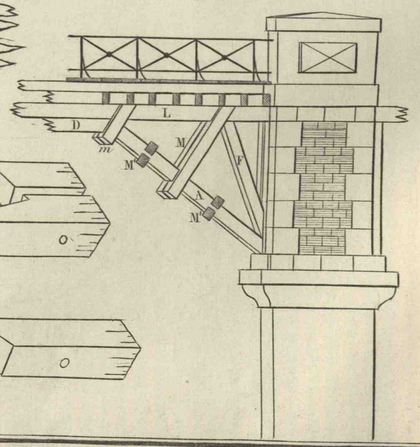


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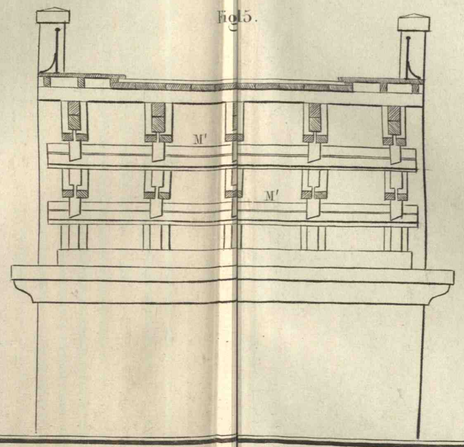


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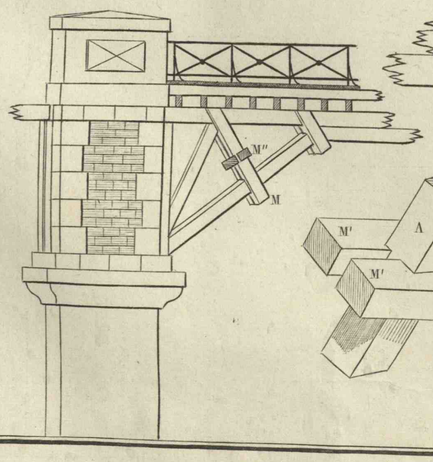


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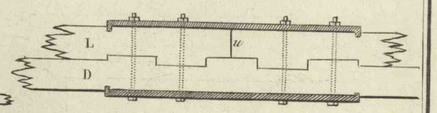
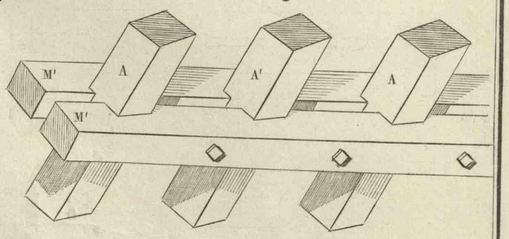


Fig. 18.



Adhémar del.

Ponts biais en bois - Etude de moises.

Fig. 1.

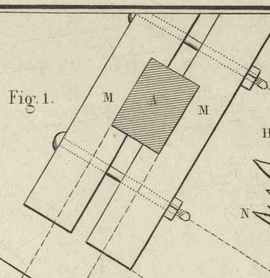


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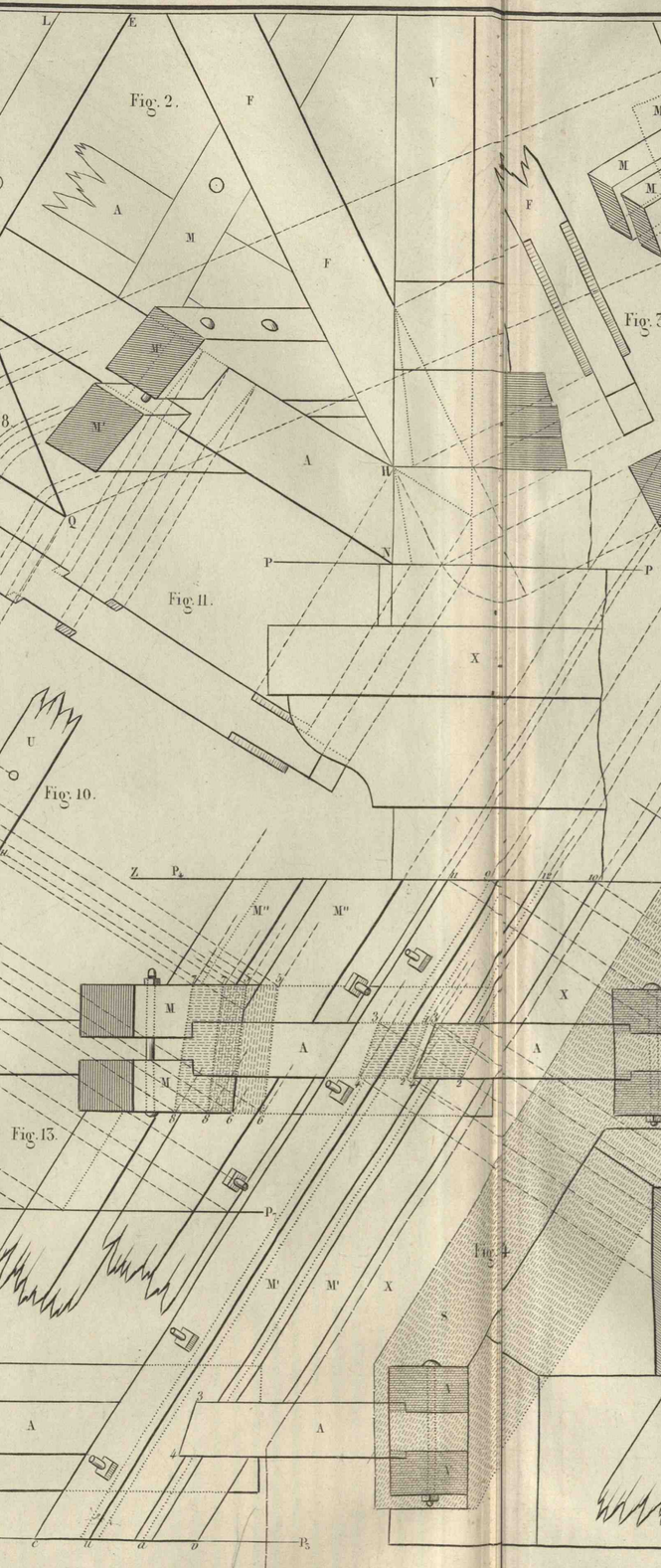


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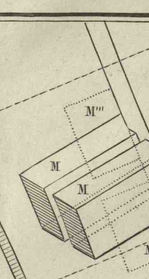


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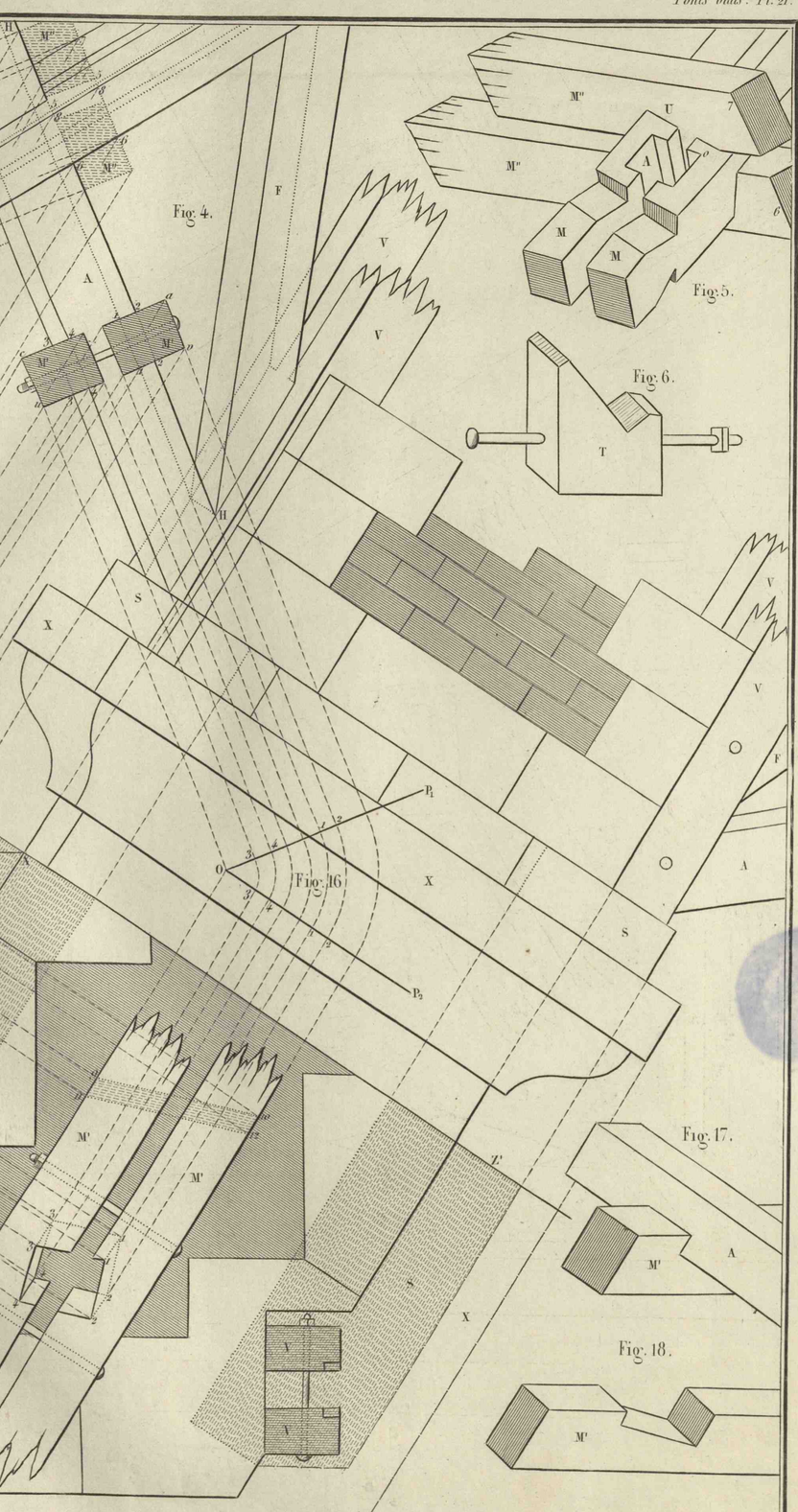


Fig. 5.

Fig. 6.

Fig. 7.

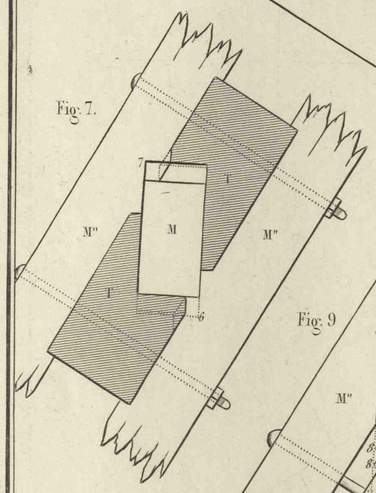


Fig. 8.

Fig. 9

Fig. 10.

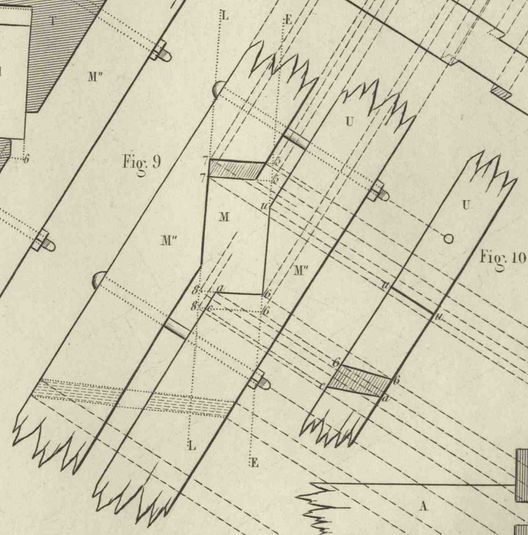


Fig. 11.

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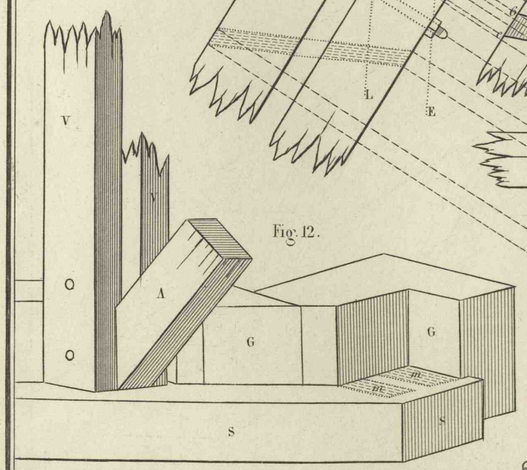


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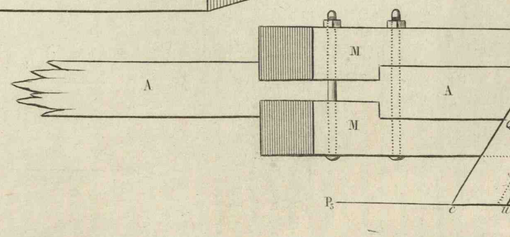


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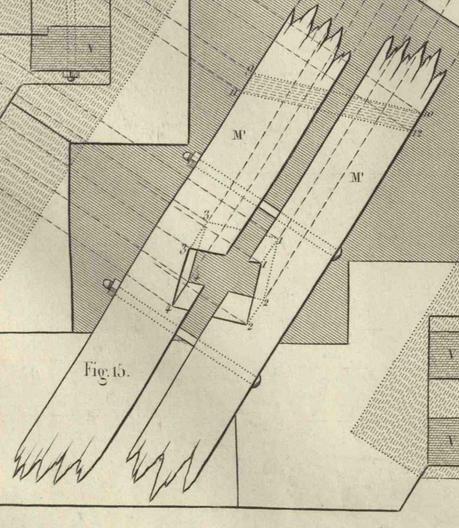


Fig. 16

Fig. 17.

Fig. 18.

Ponts biais en treillis

Fig. 1.

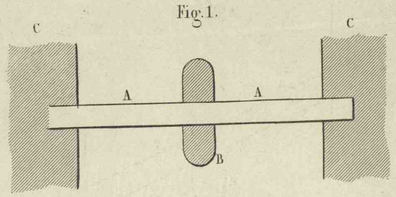


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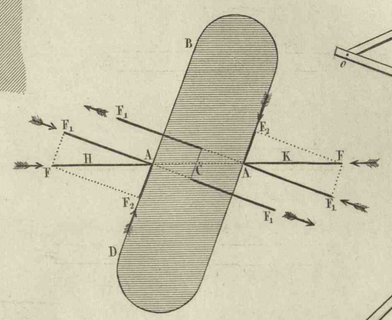


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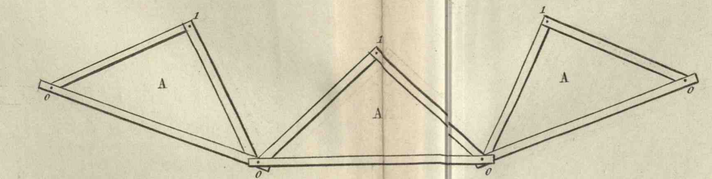


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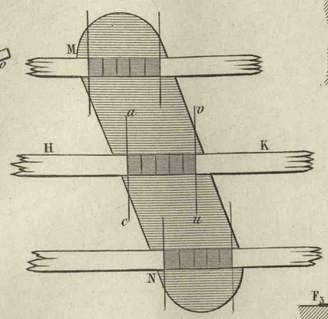


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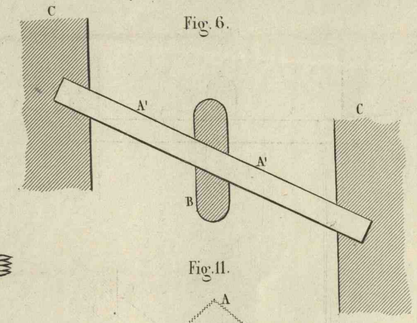


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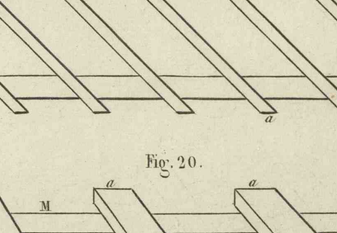


Fig. 4.



Fig. 11.

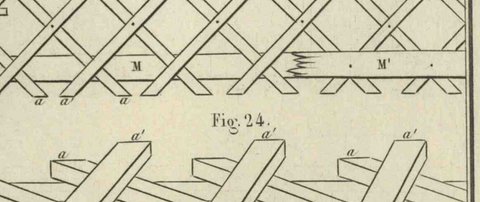


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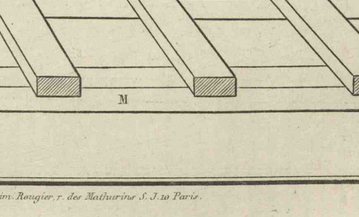


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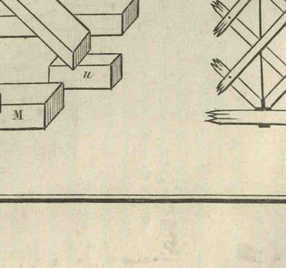


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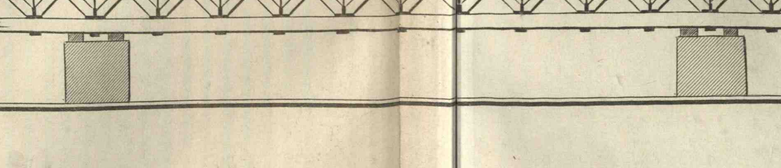


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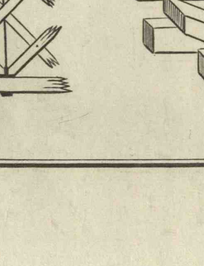


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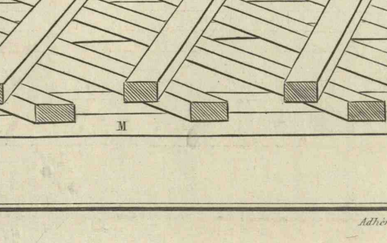


Fig. 17.

Fig. 13.

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Fig. 18

Fig. 23.

Fig. 20.

Fig. 22

Fig. 24.

Imprim. Rougier, r. des Mathurins S. J. to Paris.

Adhémar del.

Ponts biais — Américains.

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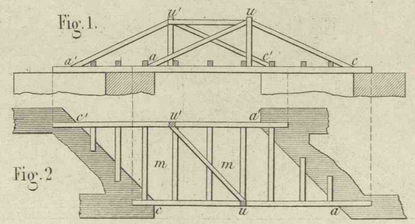


Fig. 2

Fig. 3

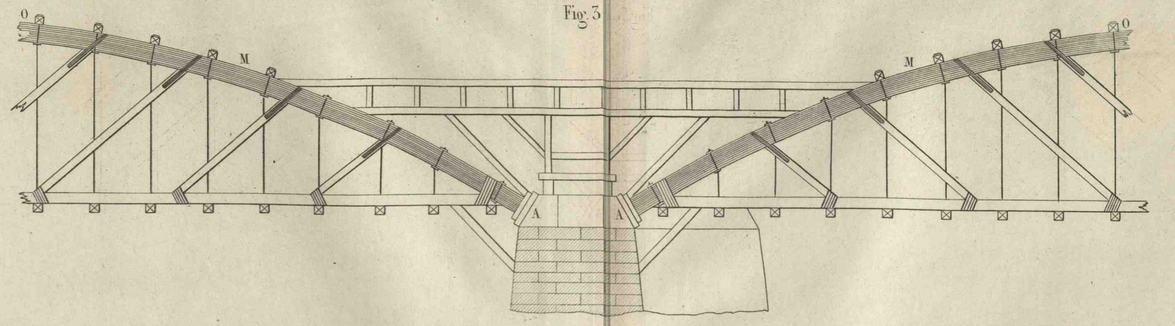


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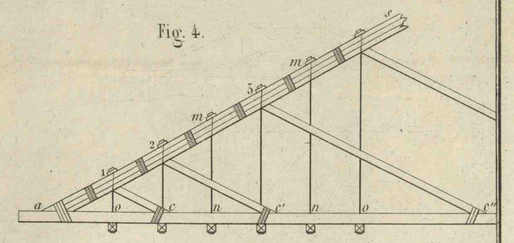


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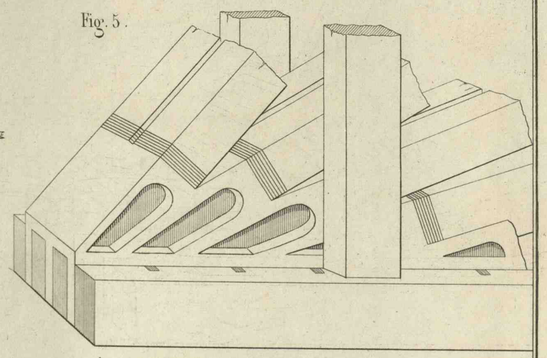


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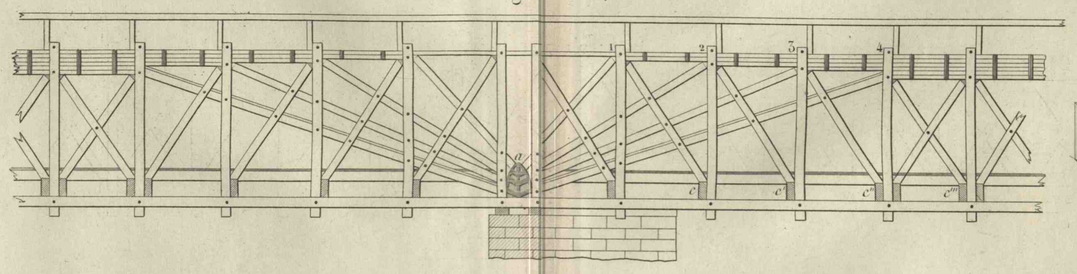


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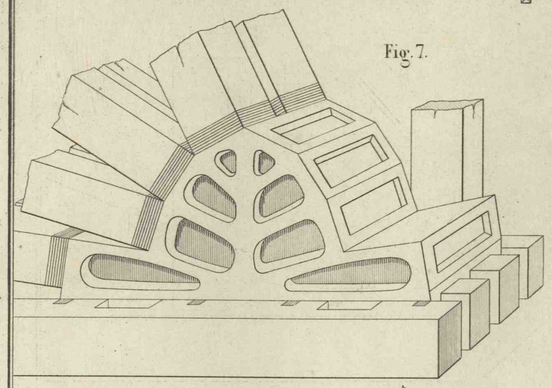


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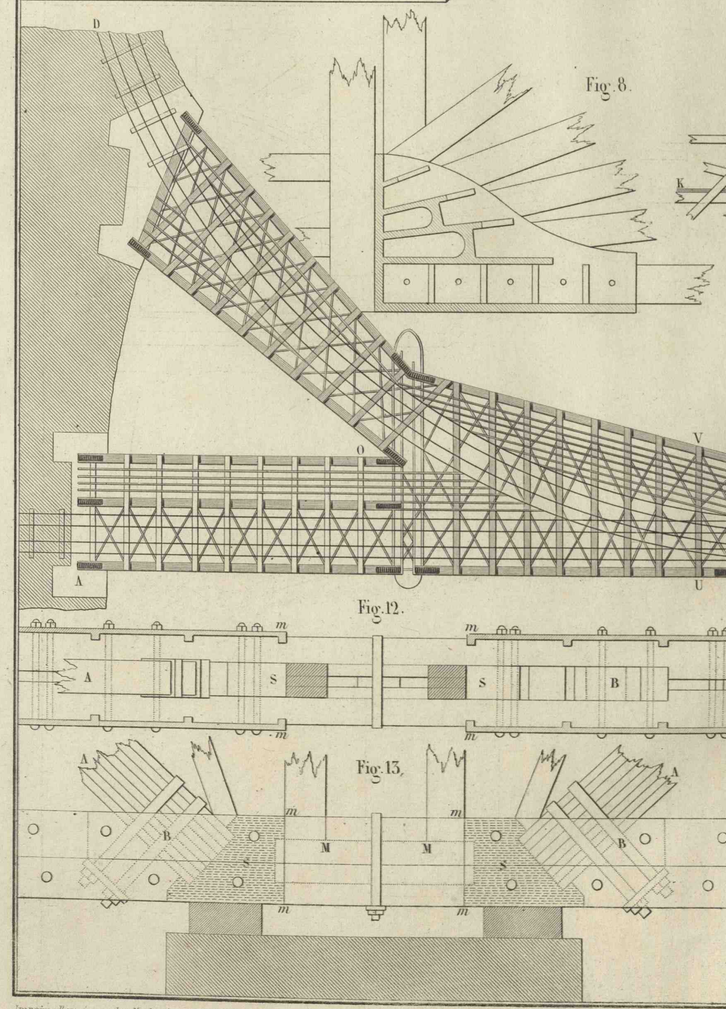


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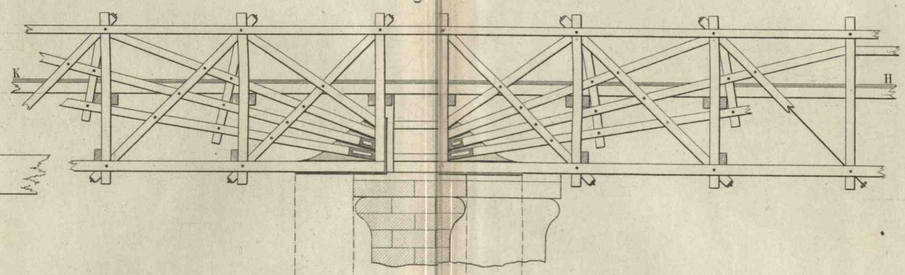


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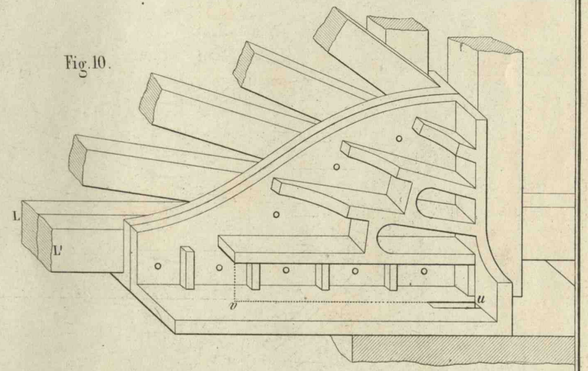


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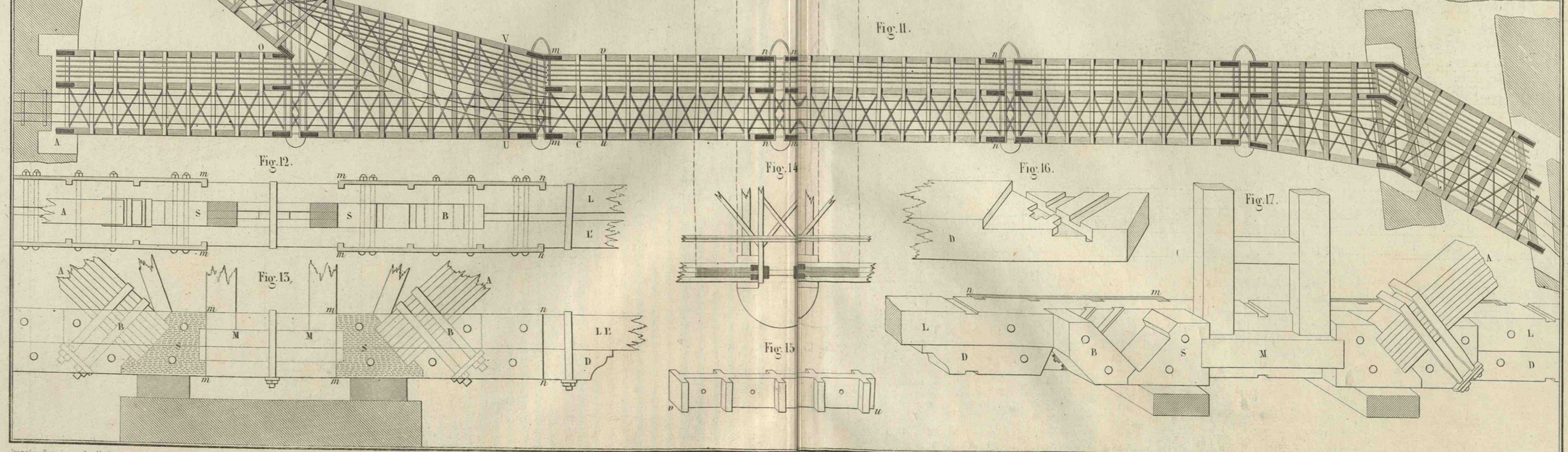


Fig. 12.

Fig. 13.

Fig. 14

Fig. 15

Fig. 16.

Fig. 17.

Imprim. Rougier, r. des Mathurins S.J.10 Paris

Adhémar del.

Cintres biais — Décintrement

Fig. 1.

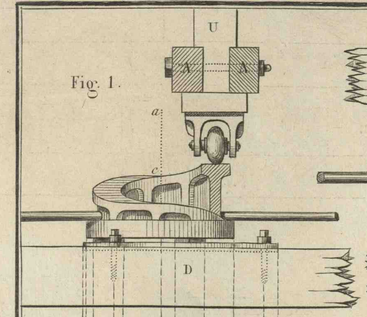


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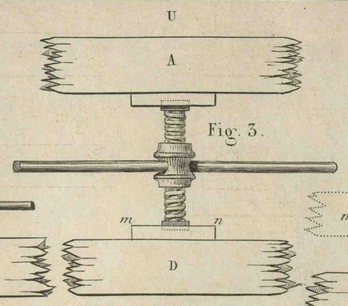
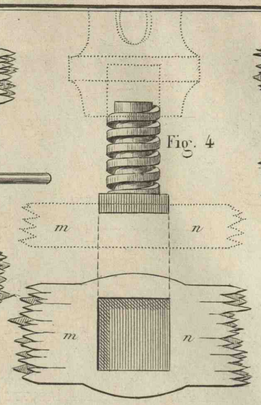


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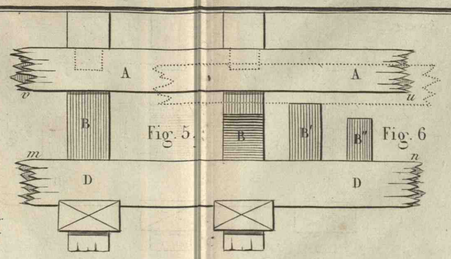


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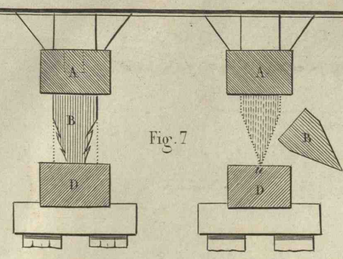


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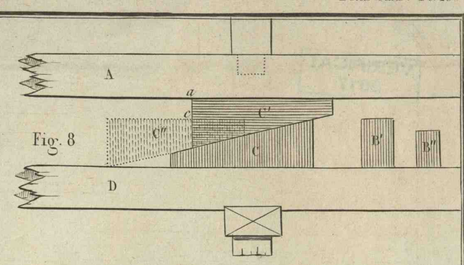


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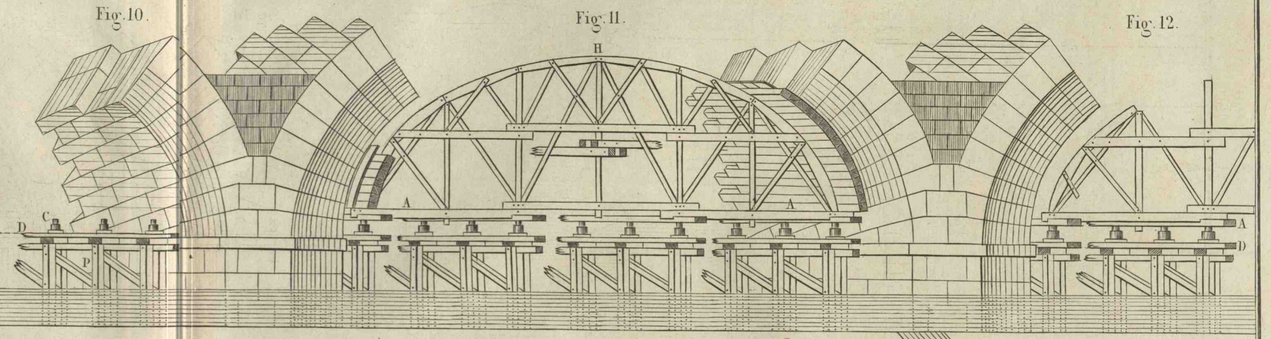


Fig. 11.

Fig. 12.

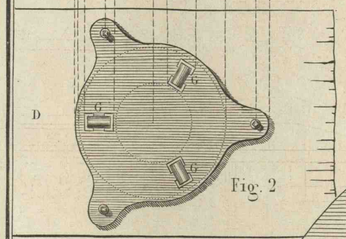
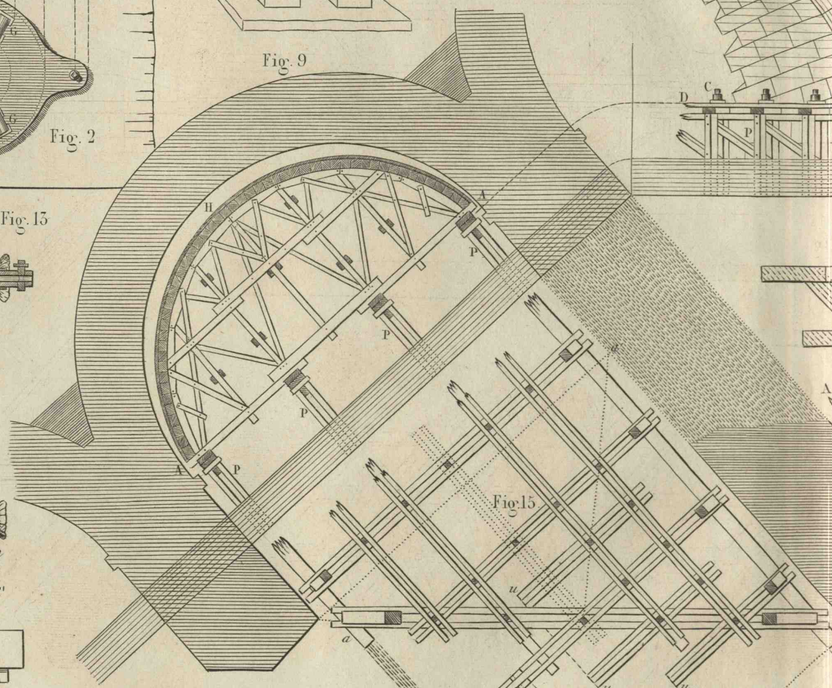


Fig. 2.

Fig. 9


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