Inv. A. 35.1447

IV. 18651

COURS

DE

MATHÉMATIQUES

A L'USAGE

DES ARCHITECTES, INGÉNIEURS CIVILS, ETC.

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[Tome 3]

PAR J. ADHÉMAR

APPLICATIONS DE GÉOMÉTRIE DESCRIPTIVE

CHARPENTES

BIBLIOTECA CENTRALĂ UNIVERSITARĂ BUCUREȘTI

2455.

Quatrième édition

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1873

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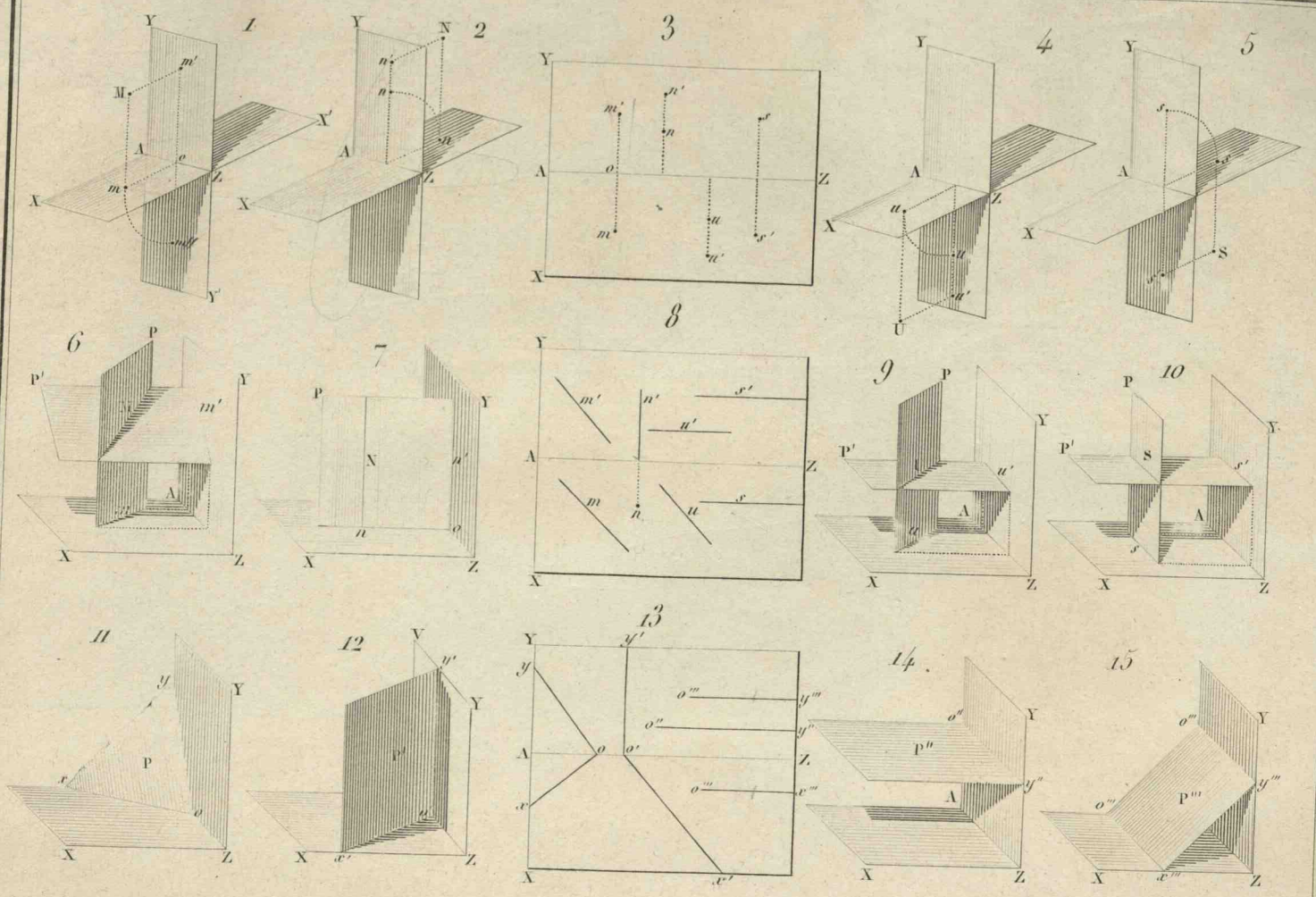
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RC115/06

B.C.U. Bucuresti
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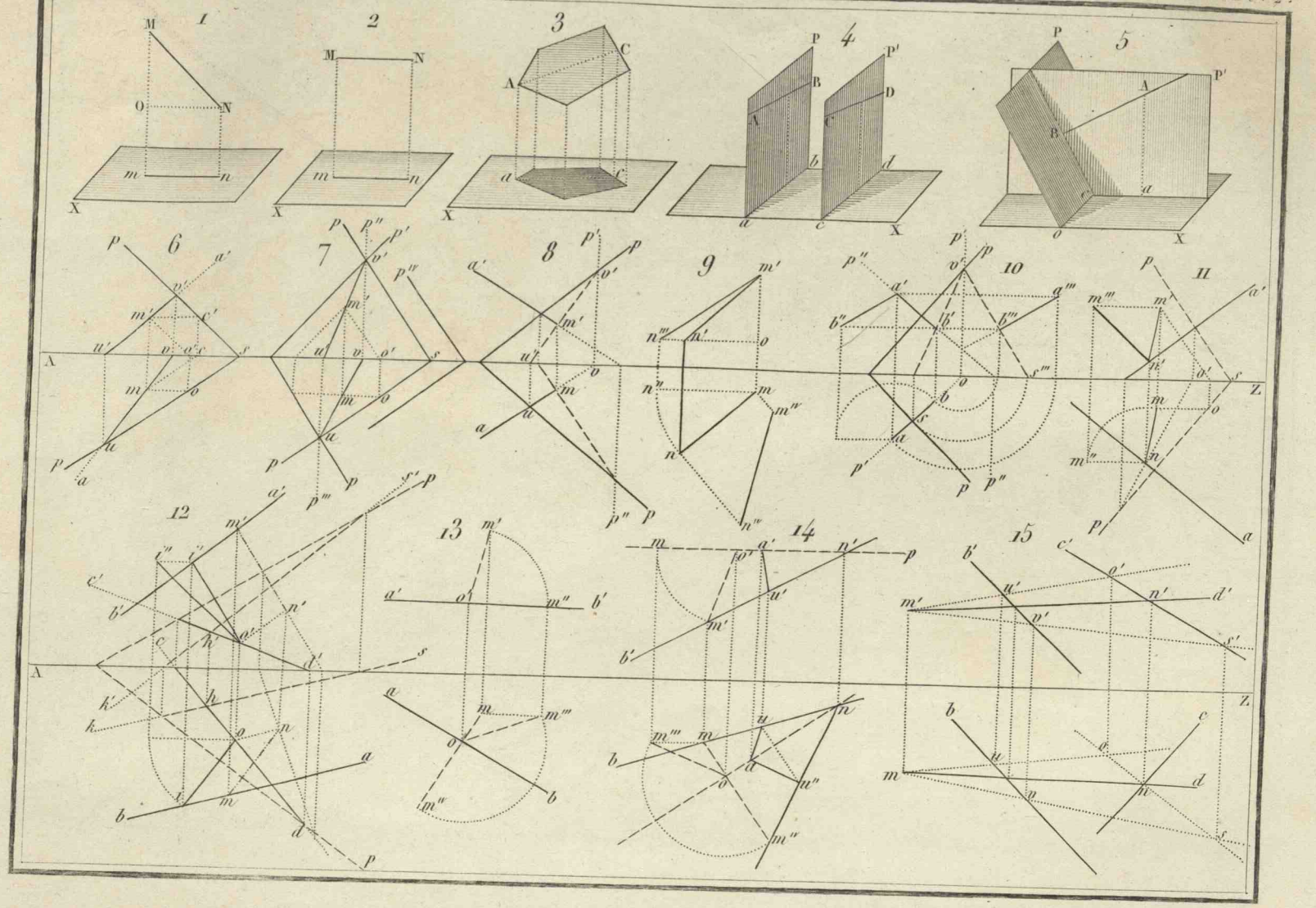
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Imp. Bellaplace, Bu. r. de l'Ecole de Medecine, Paris.

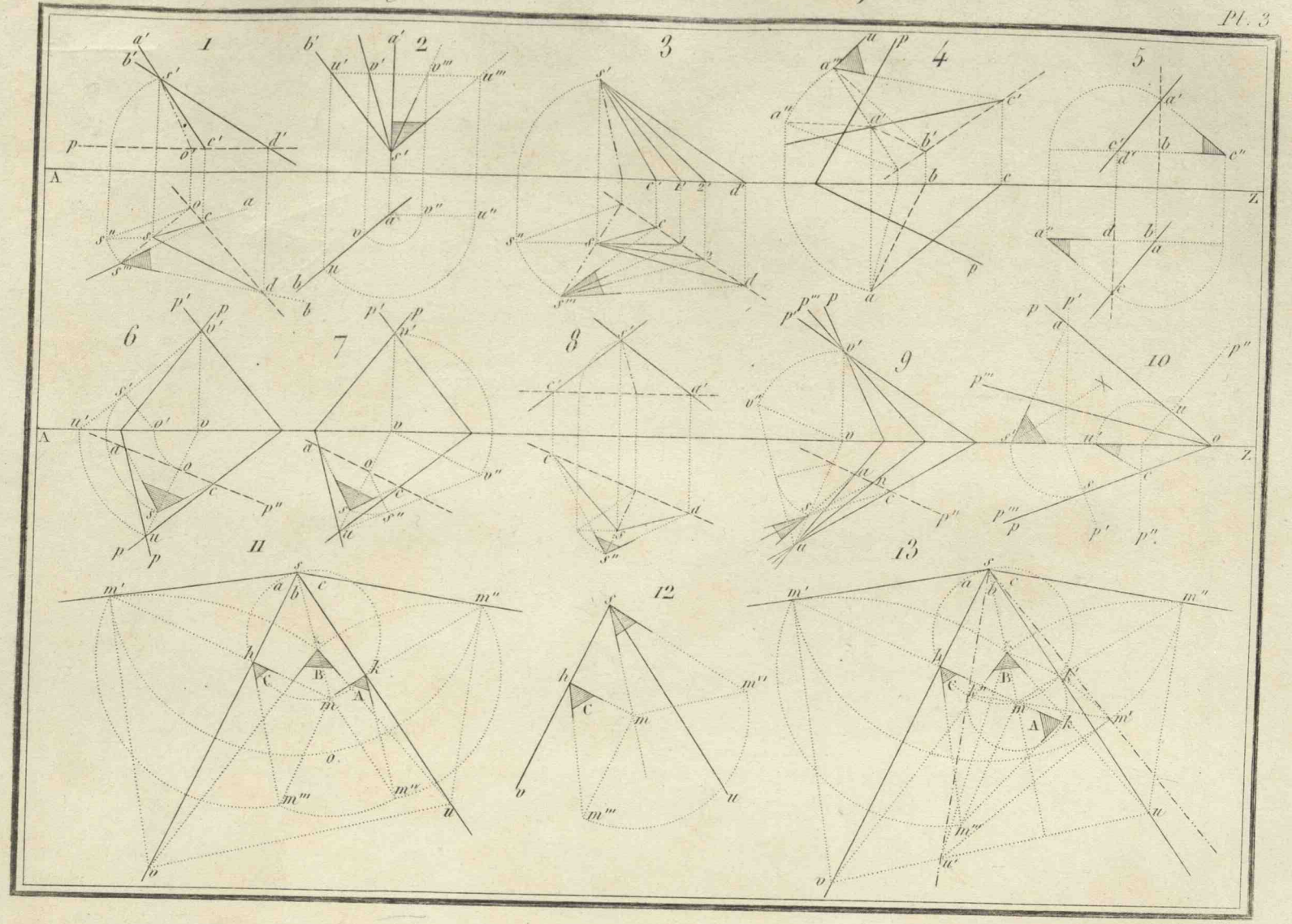
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Points, lignes droites, plans



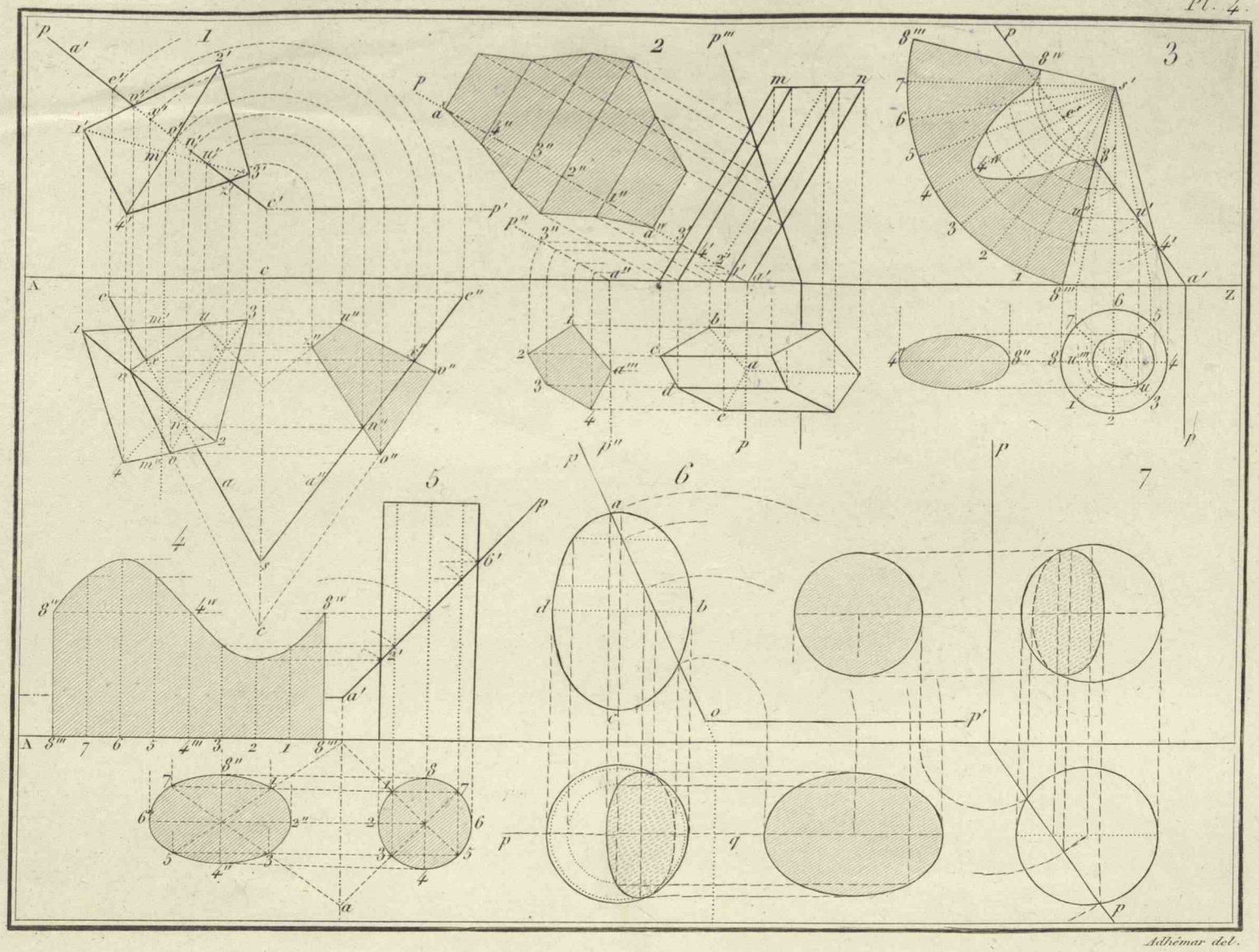
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Angles des droites et des plans



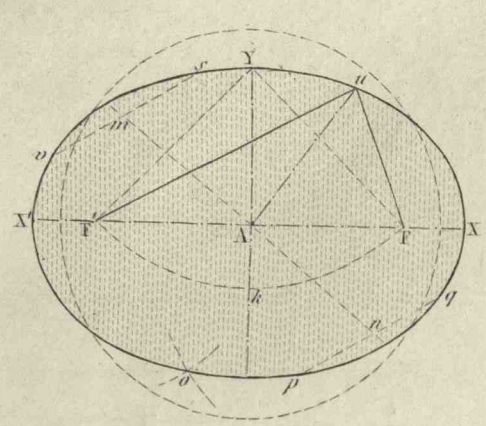
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Sections et courbes planes.

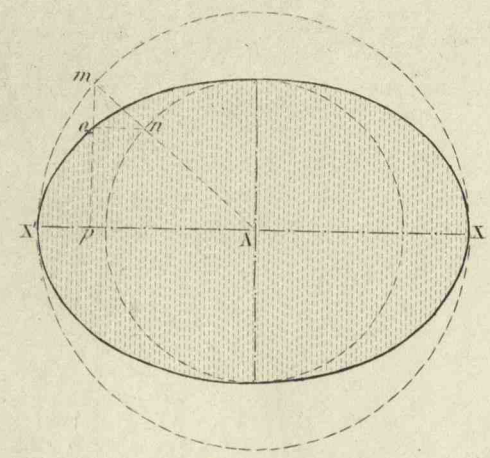


Courbes du 2ème degré

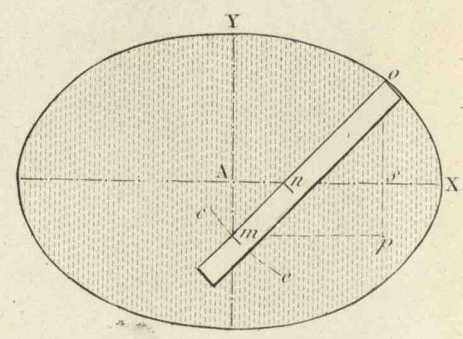
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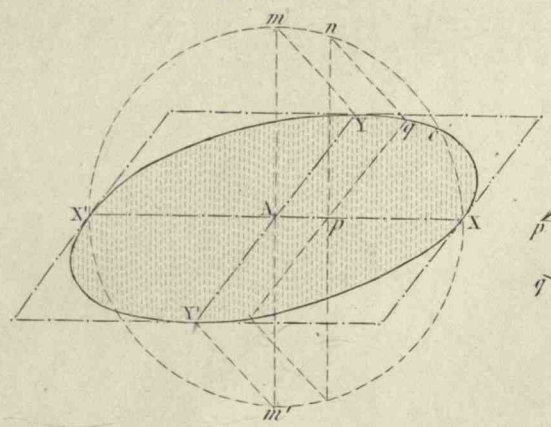
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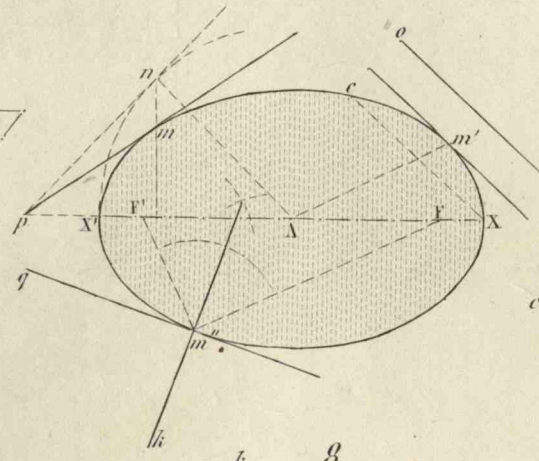
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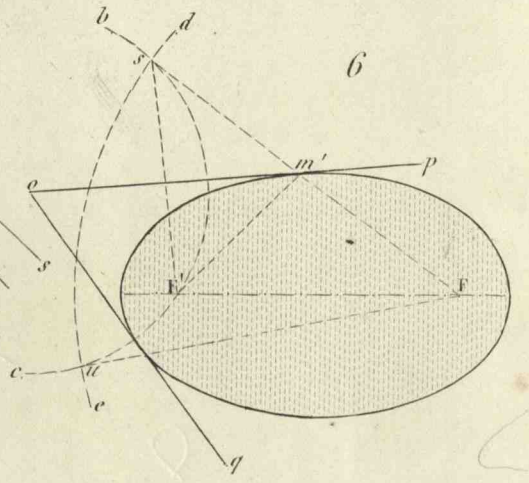
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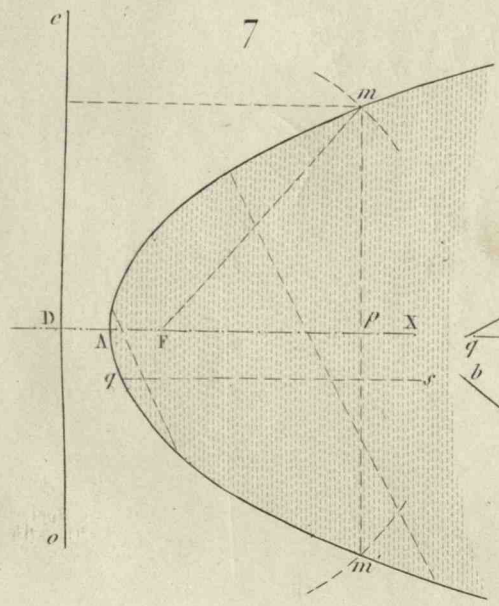
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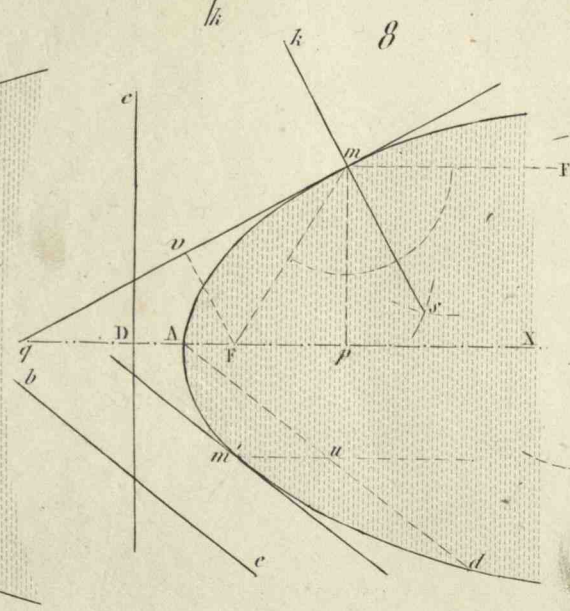
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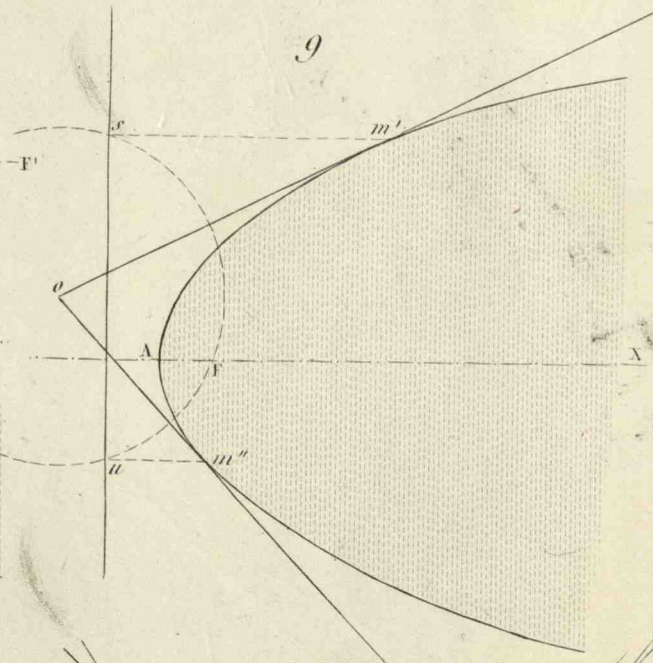
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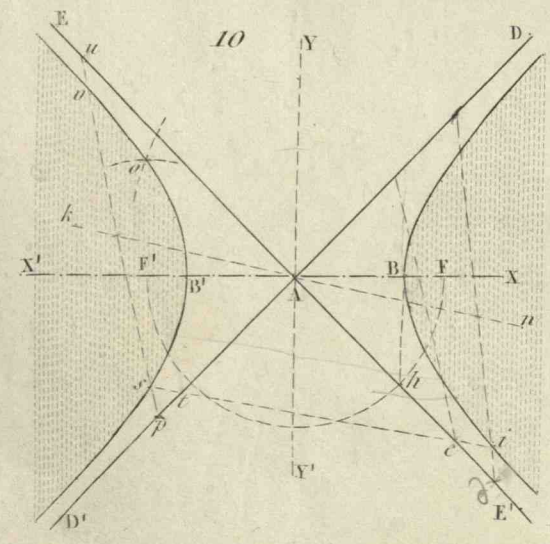
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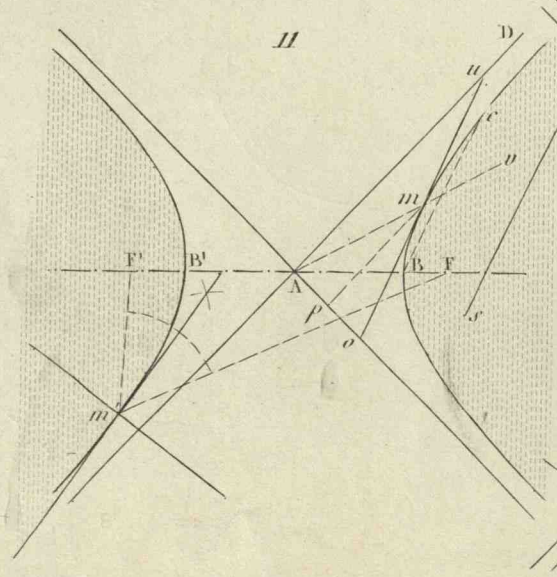
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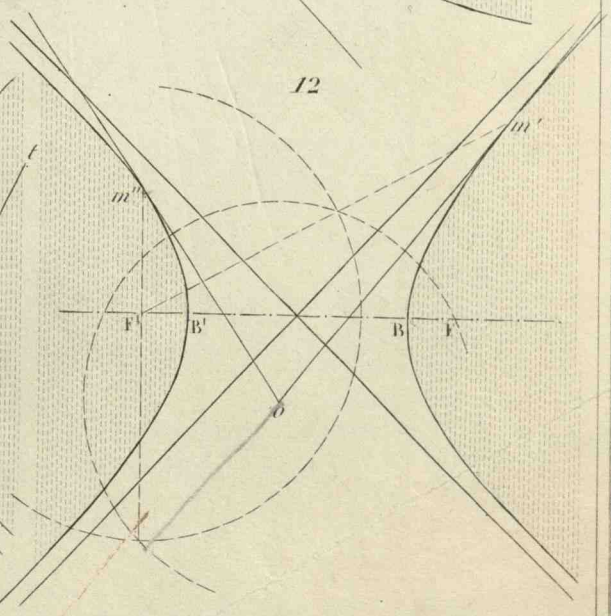
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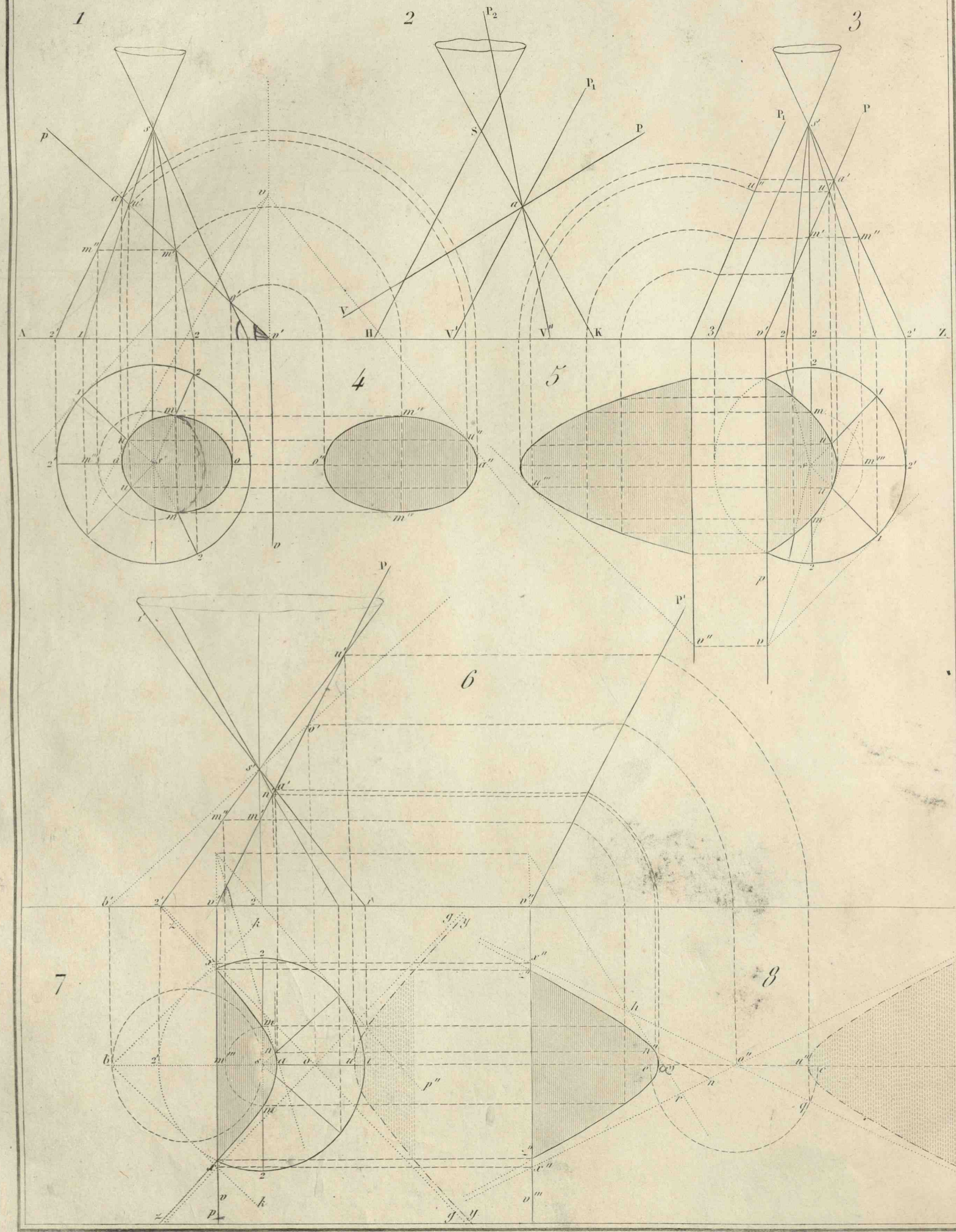


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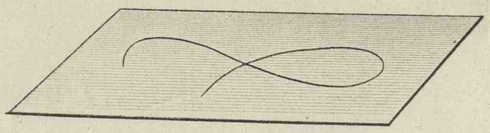
Sections coniques



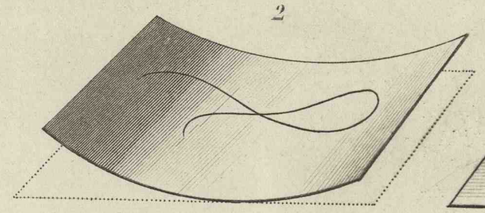
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Courbes à double courbure.

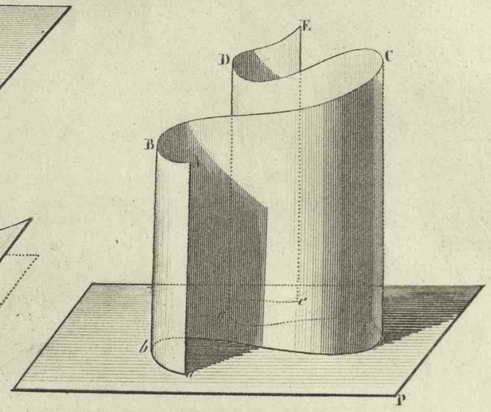
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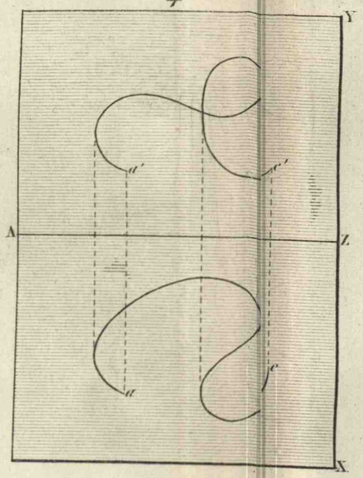
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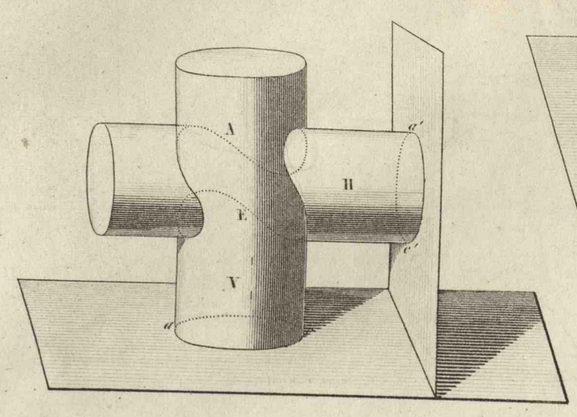
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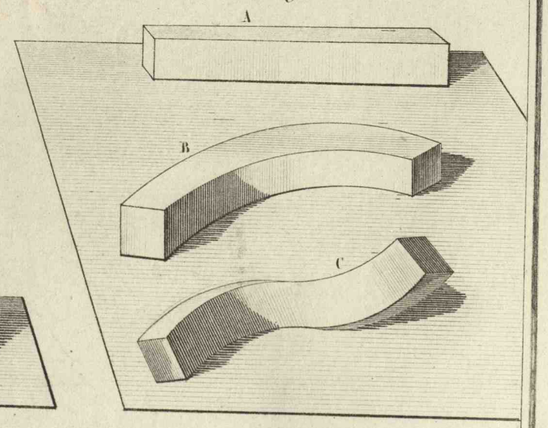
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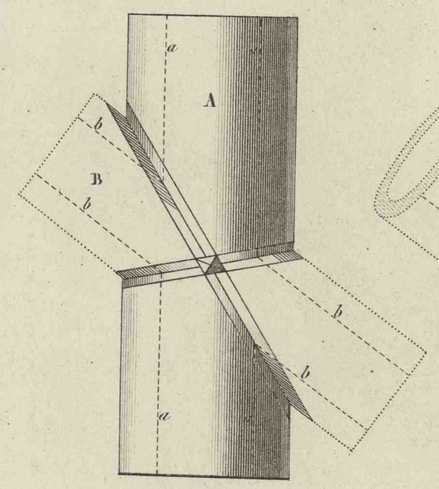
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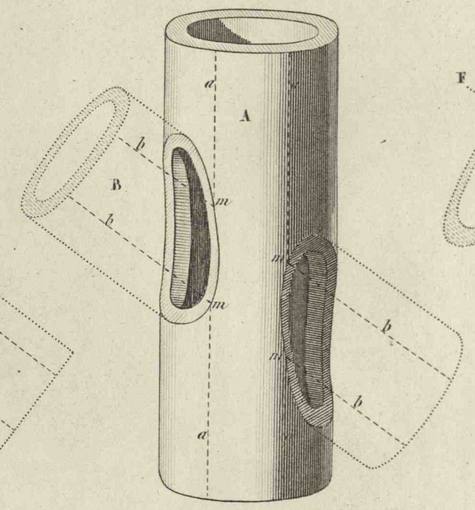
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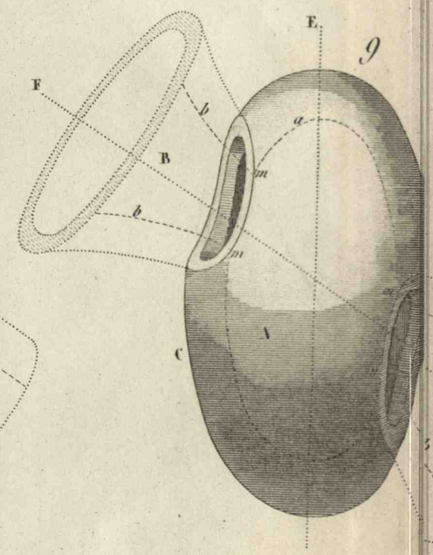
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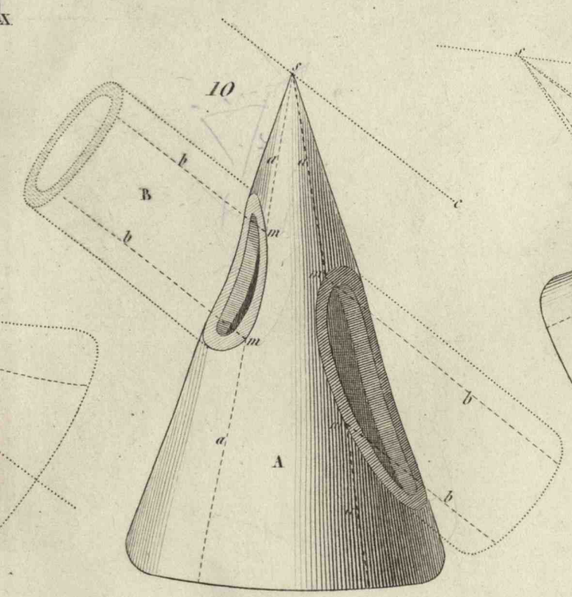
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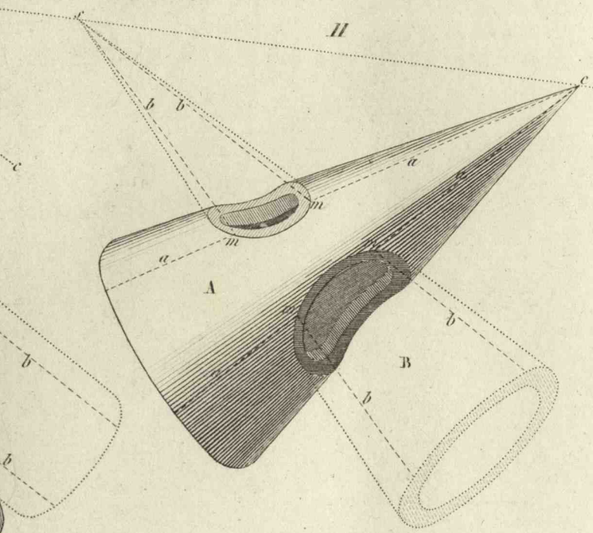
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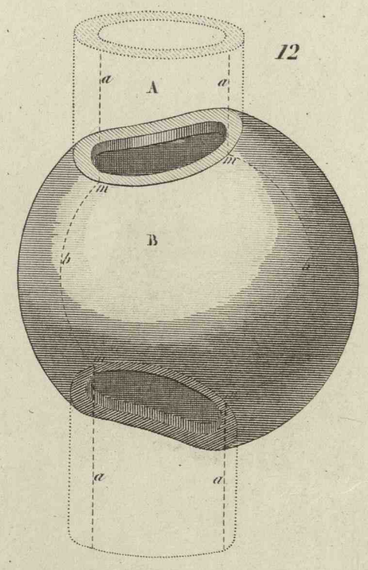
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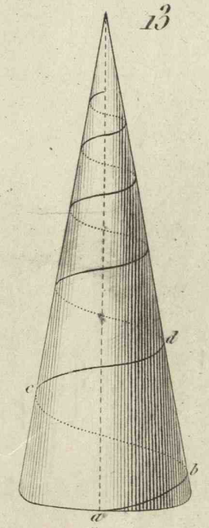
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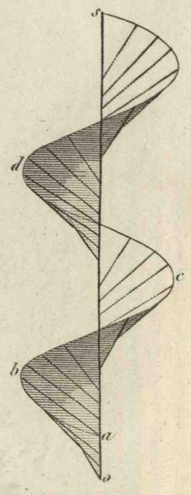
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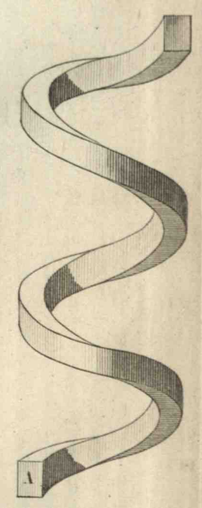
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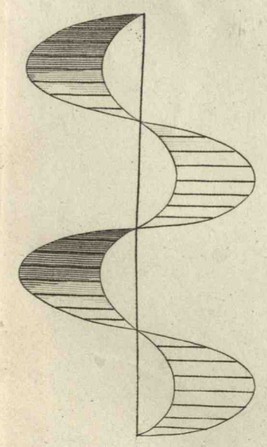
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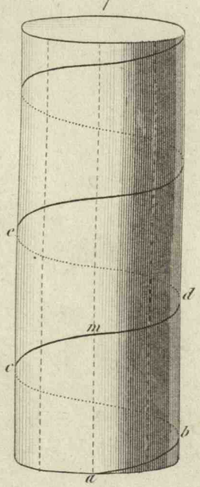
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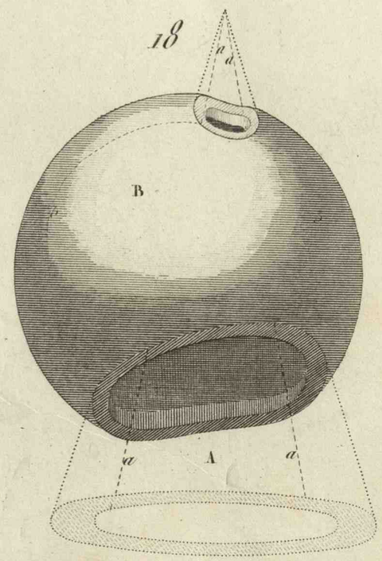
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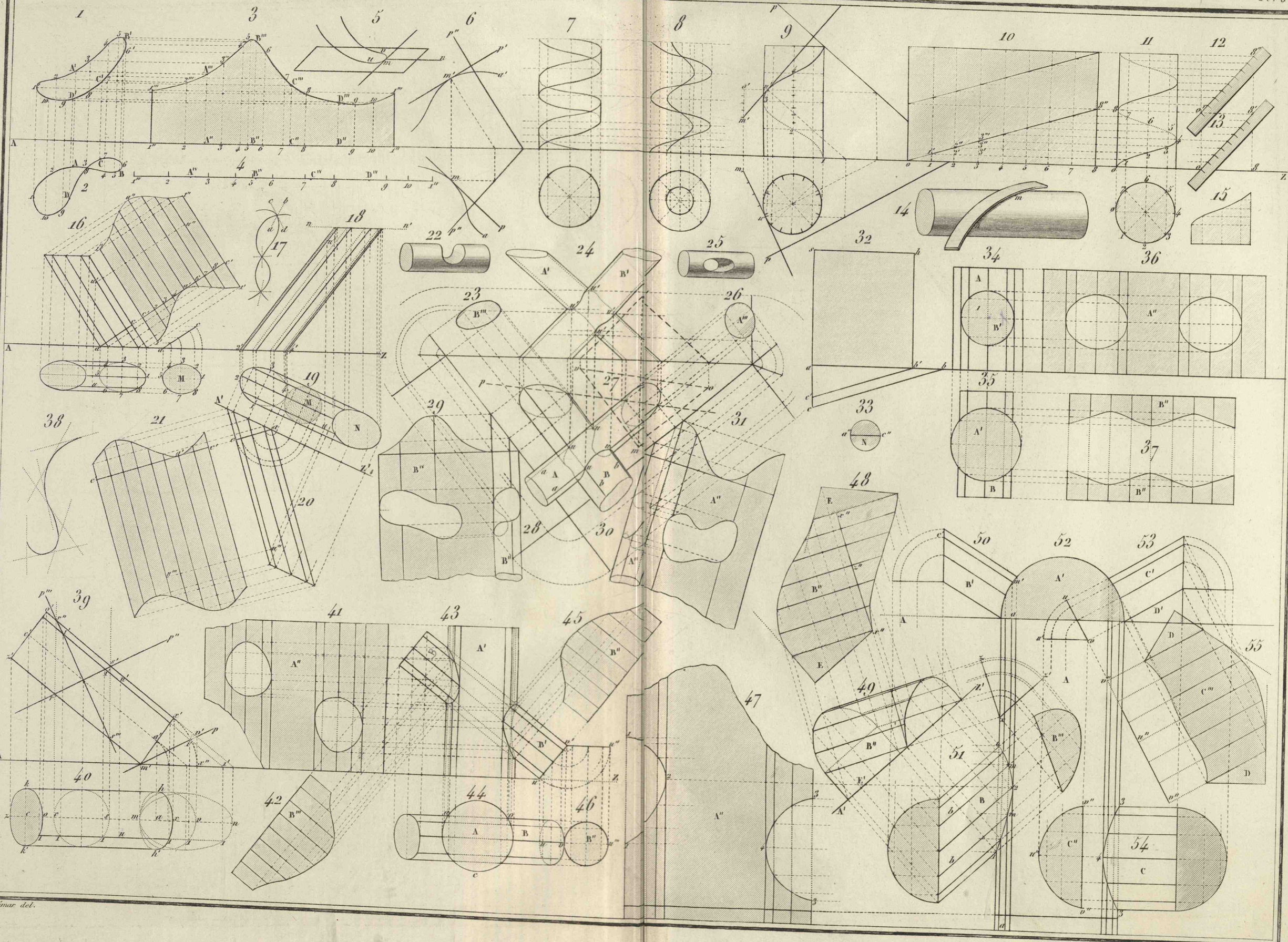
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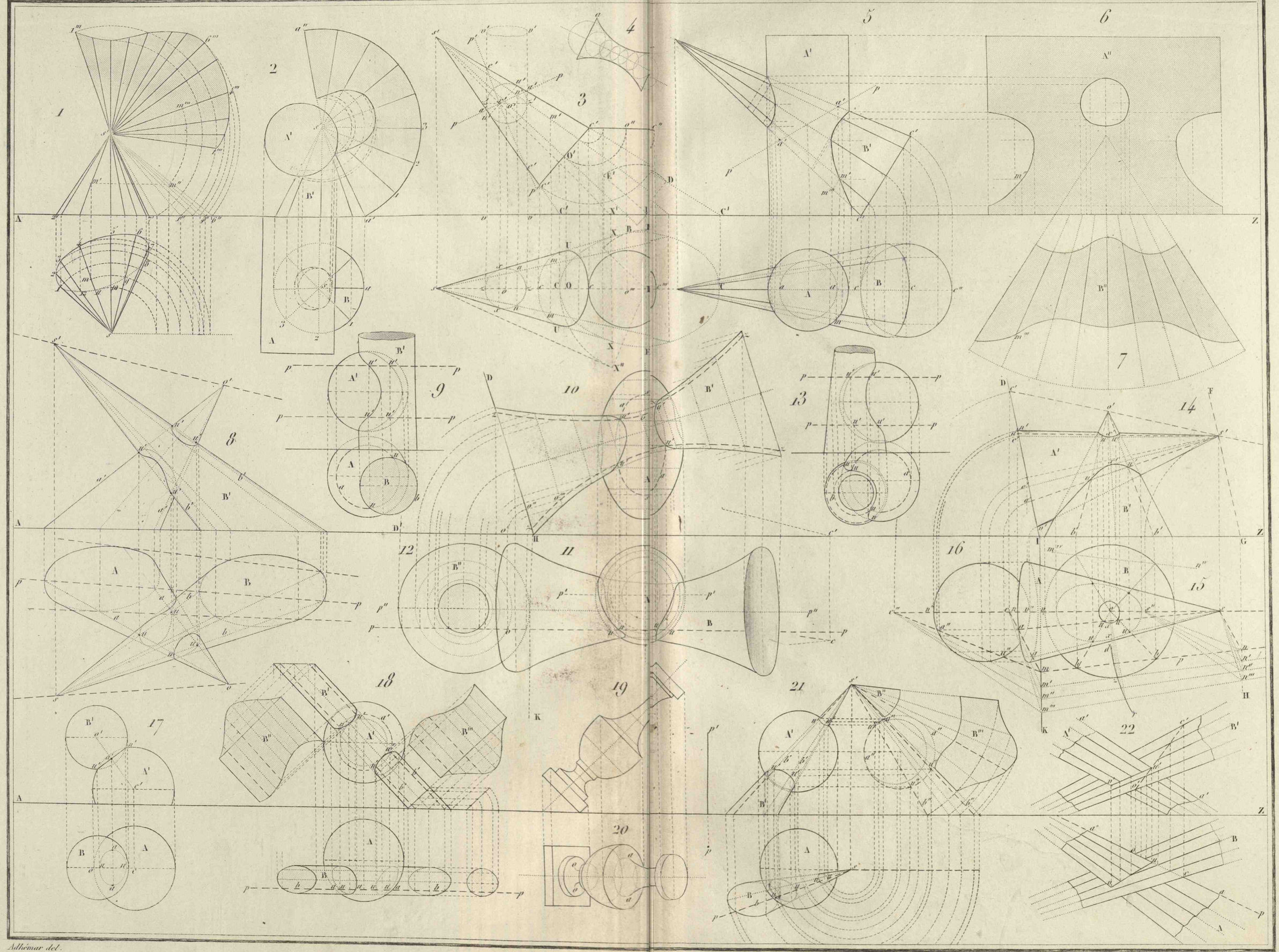
Adhémar del.

Durau sc.

Courbes à double courbure.



Courbes à double courbure.



1

2

3

4

c c

5

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6

a c

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a a'

8

m

9

10

v u p s a c

11

o a c'

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o a c

13

u z x x' a

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o u

15

x x x

16

m m n n

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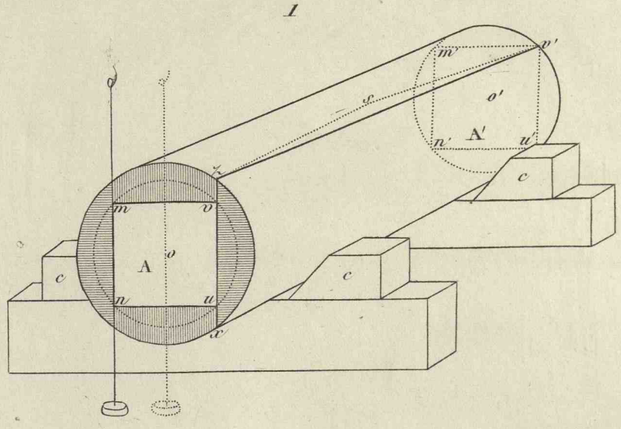
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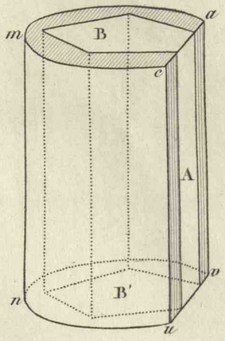
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Assemblages.

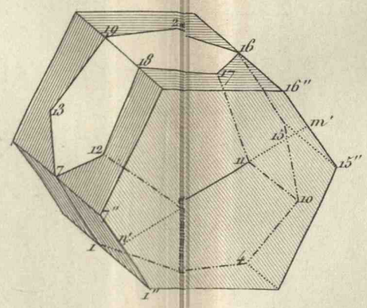
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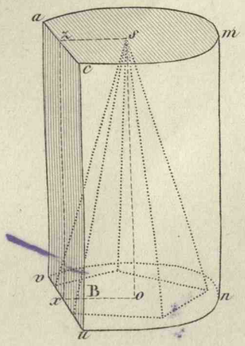
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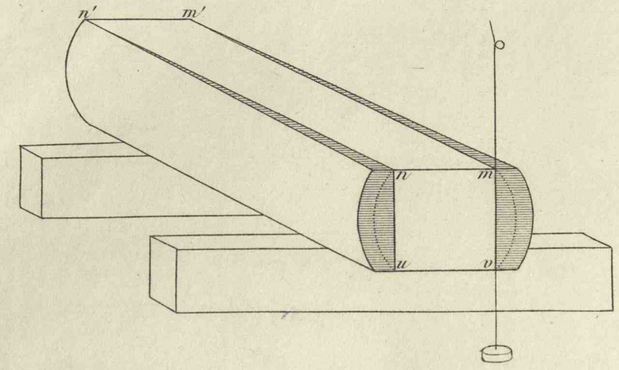
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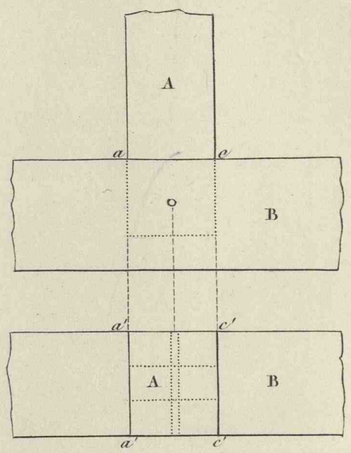
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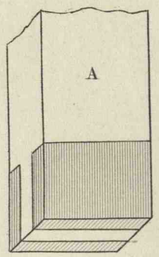
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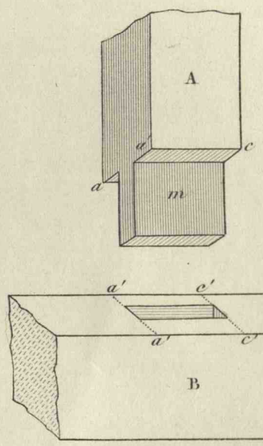
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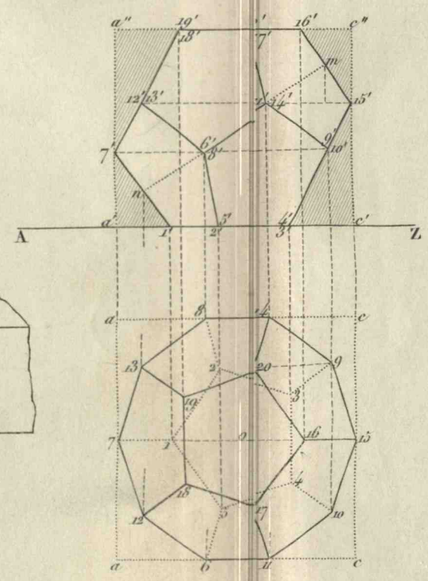
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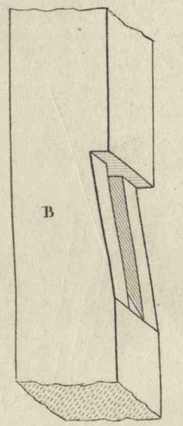
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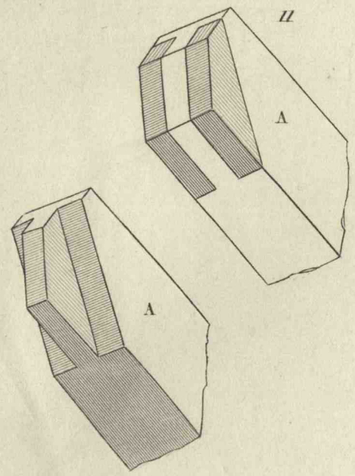
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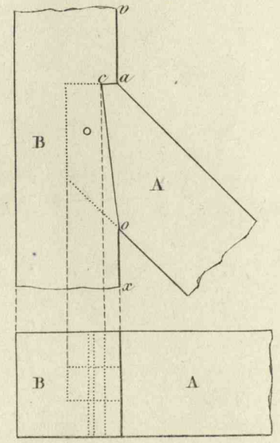
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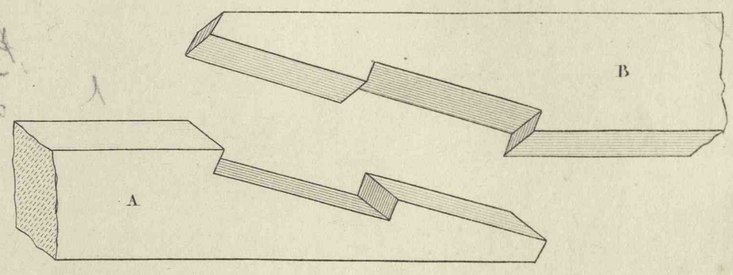
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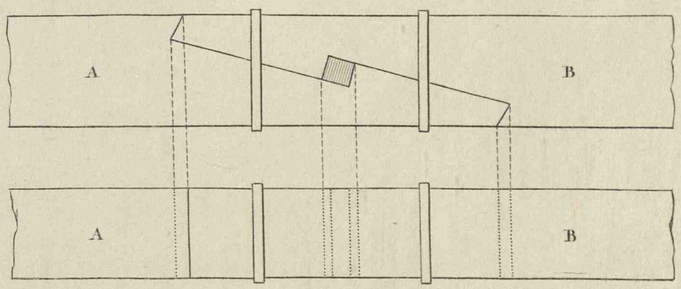
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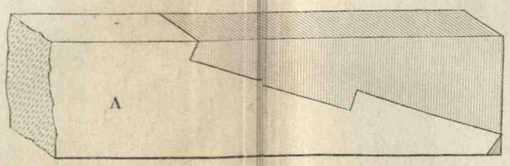
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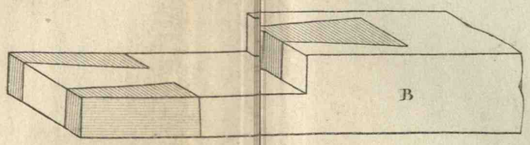
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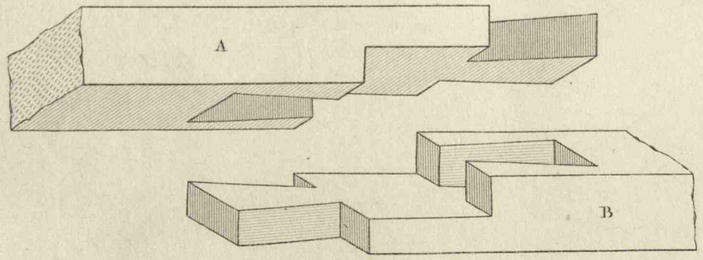
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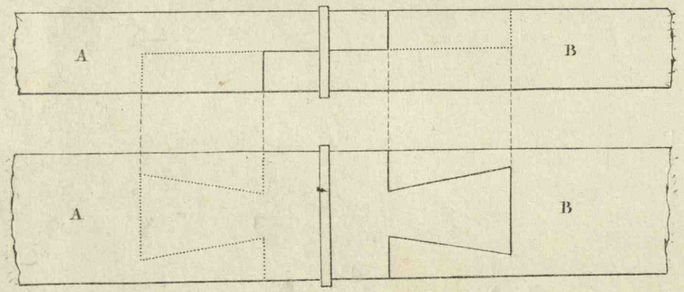
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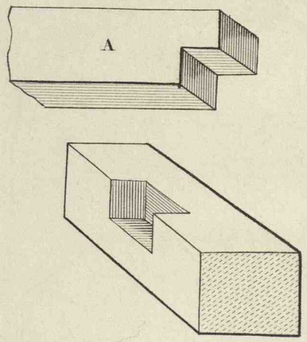


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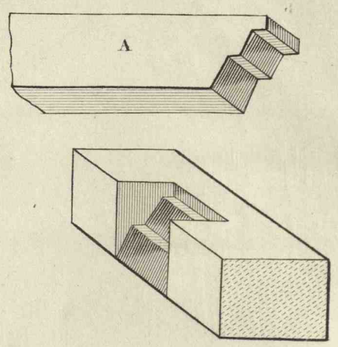


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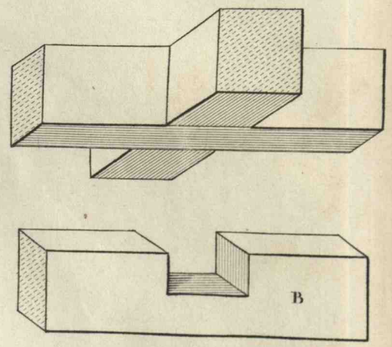
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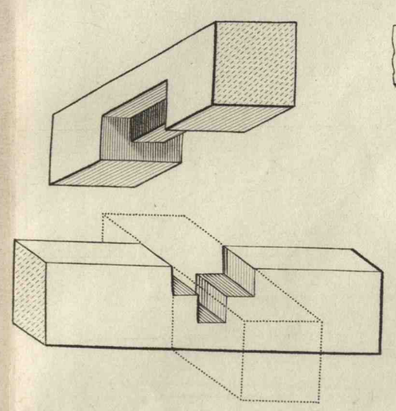
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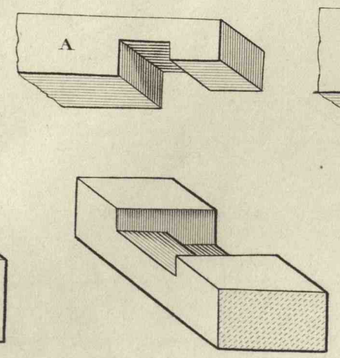
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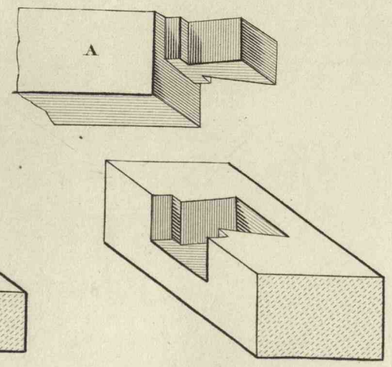
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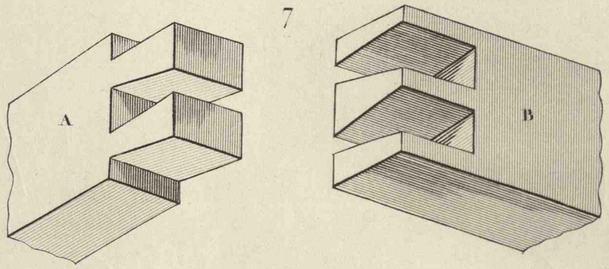
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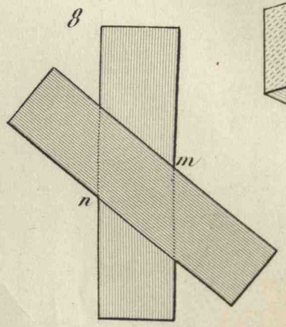
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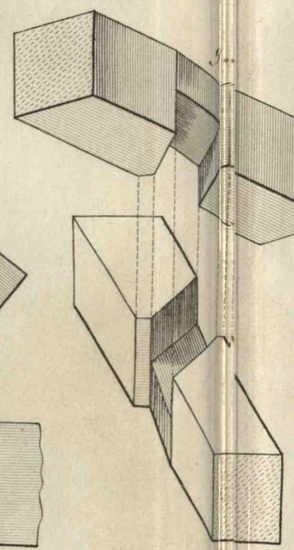
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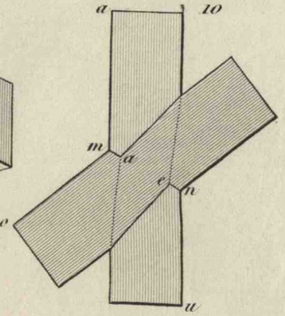
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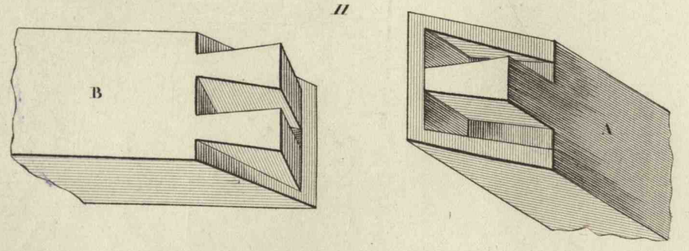
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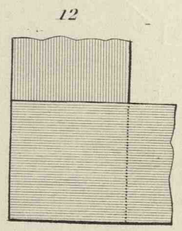
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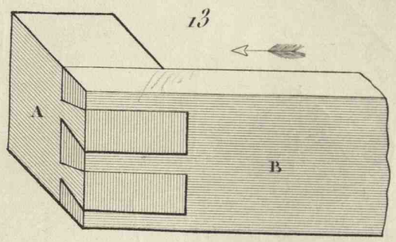
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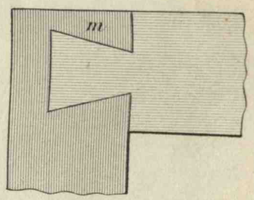
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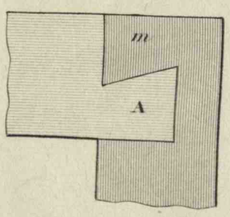
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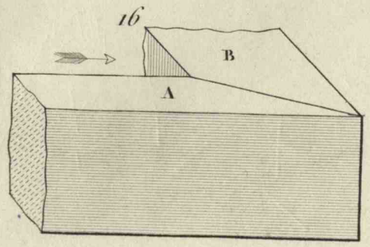
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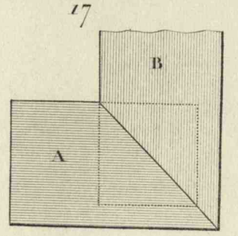
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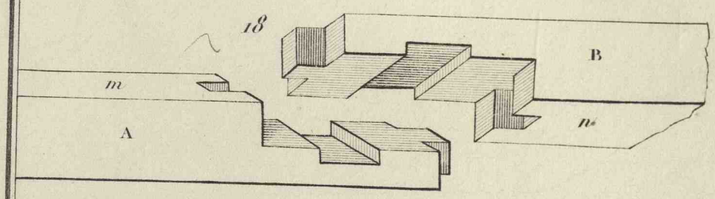
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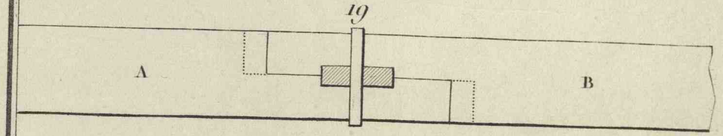
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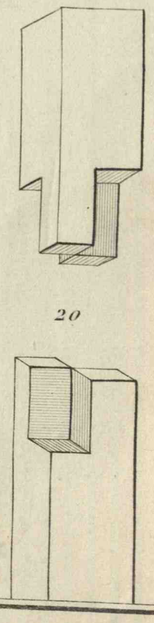
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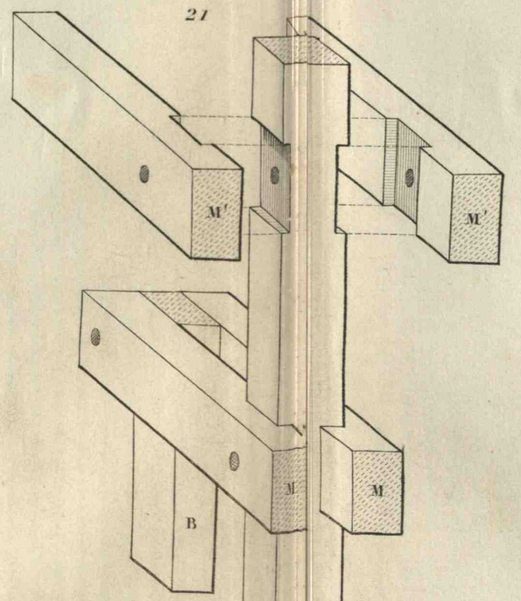
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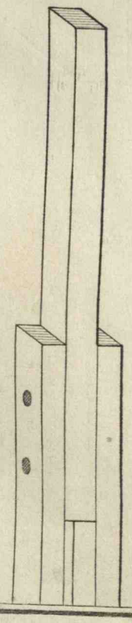
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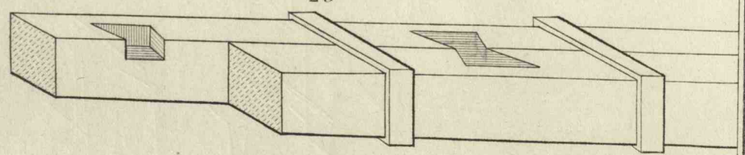
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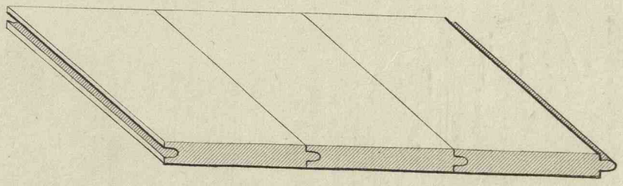
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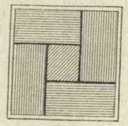
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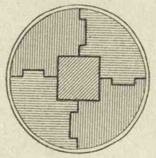
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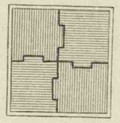
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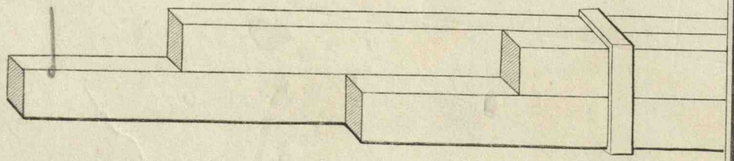
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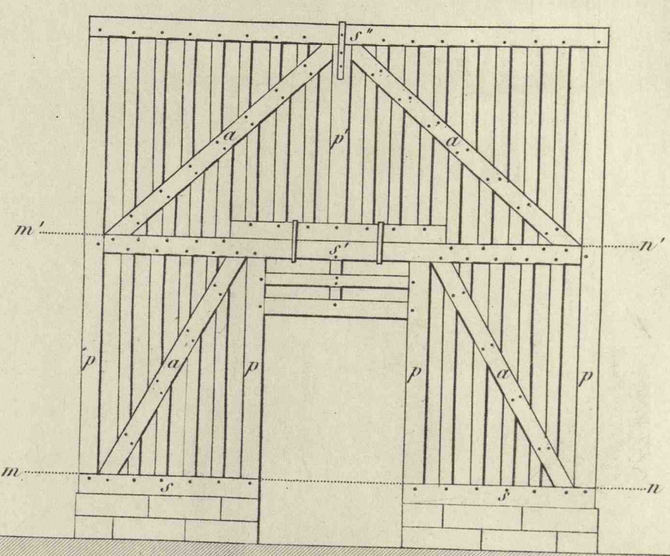


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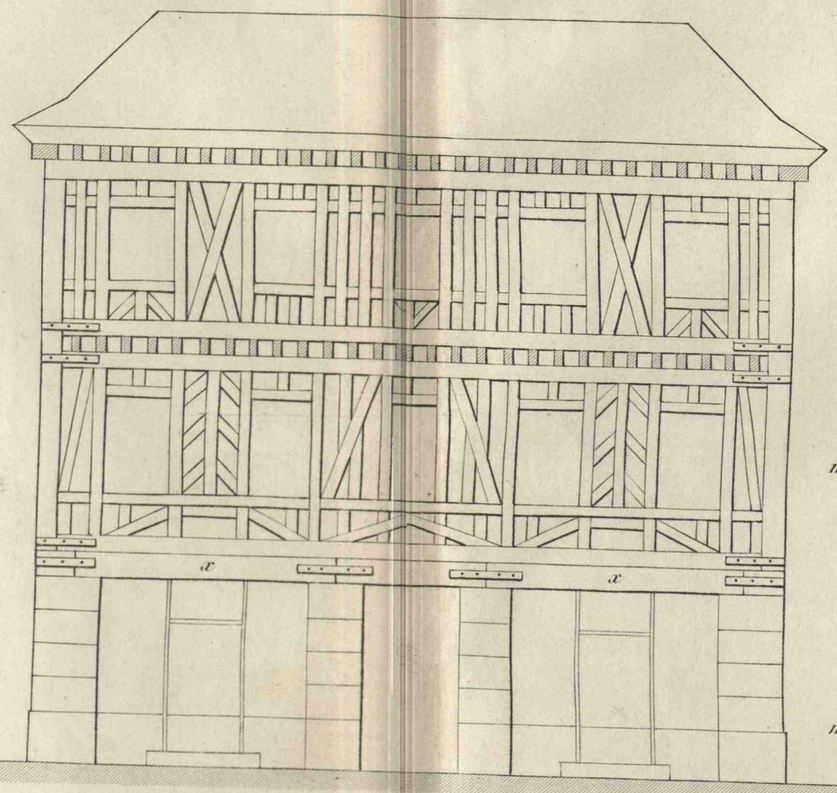
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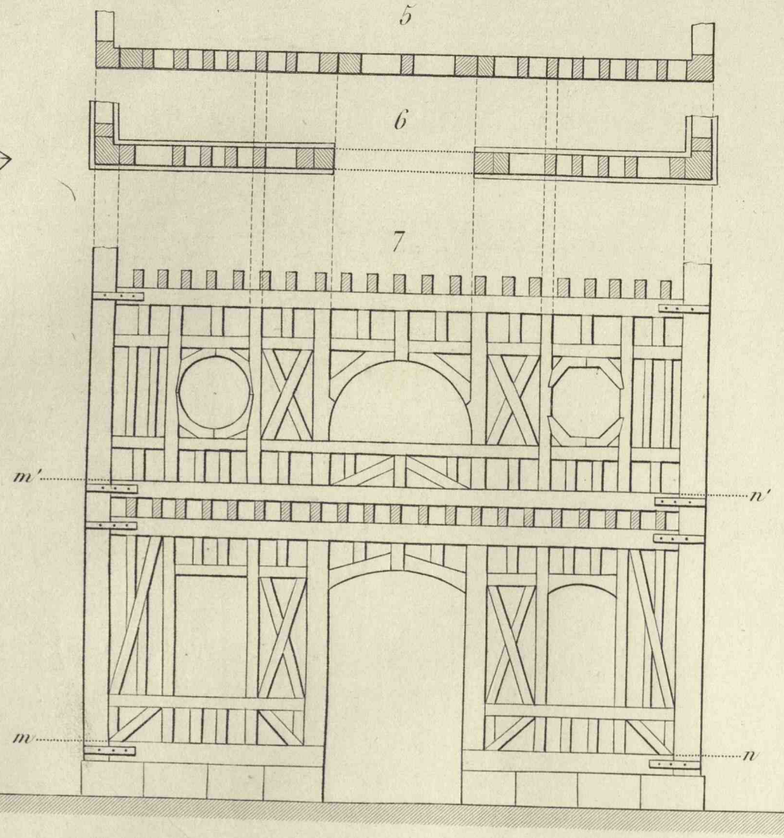
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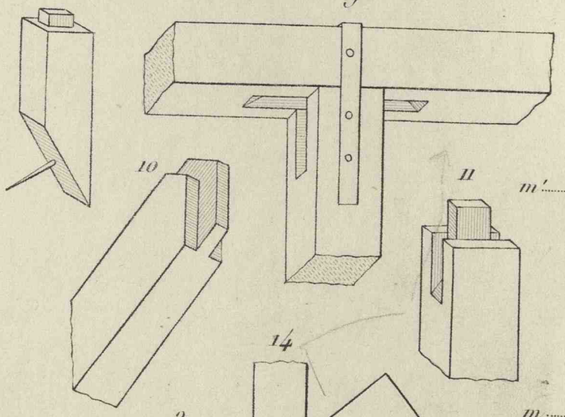


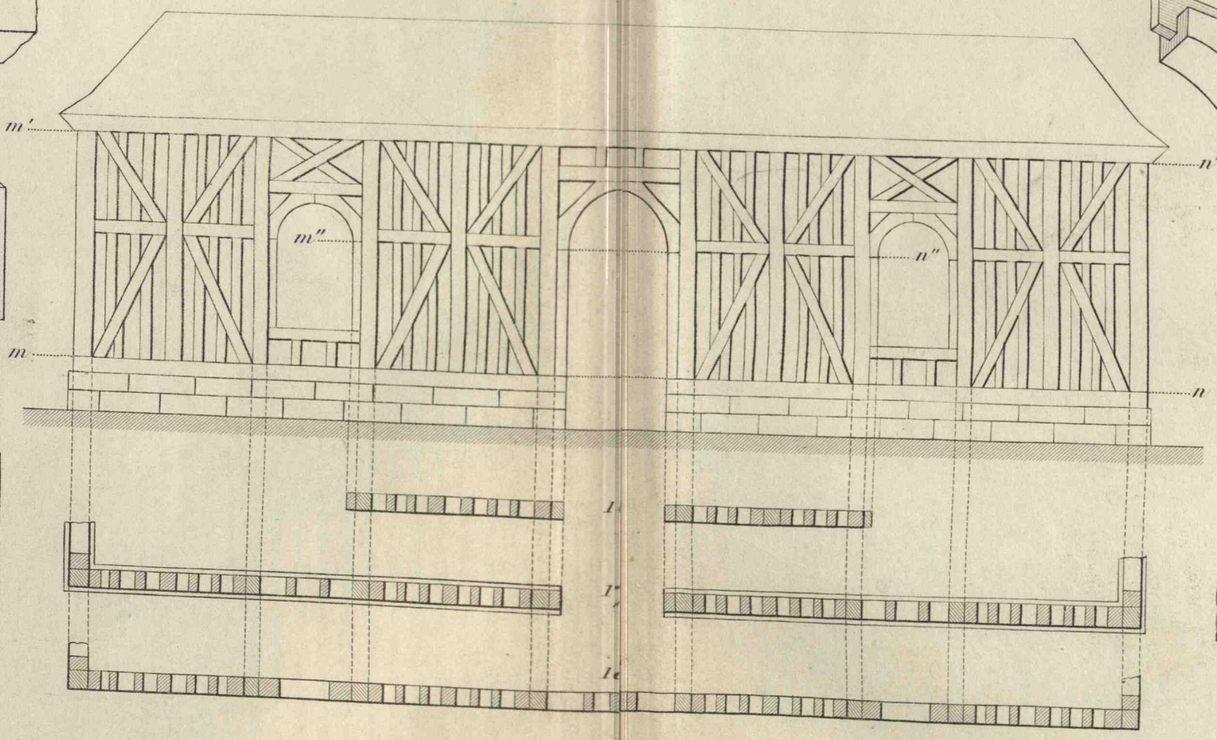
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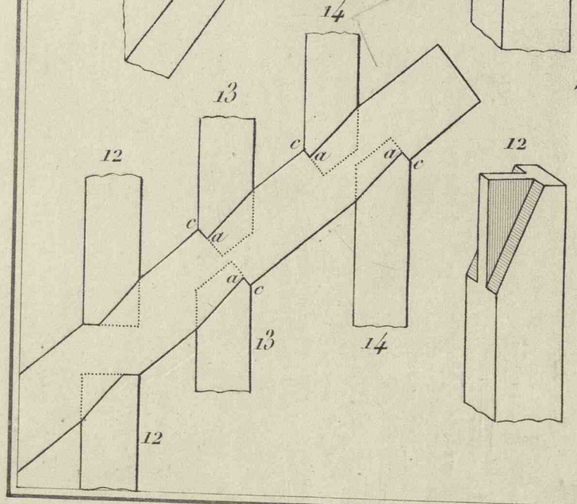




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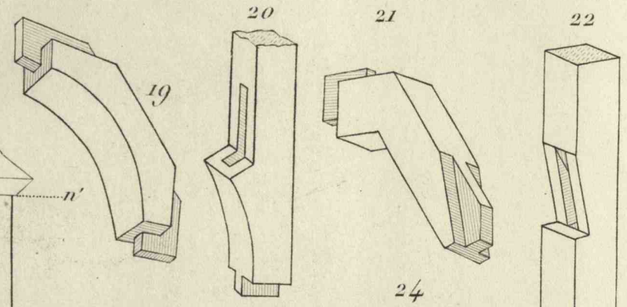


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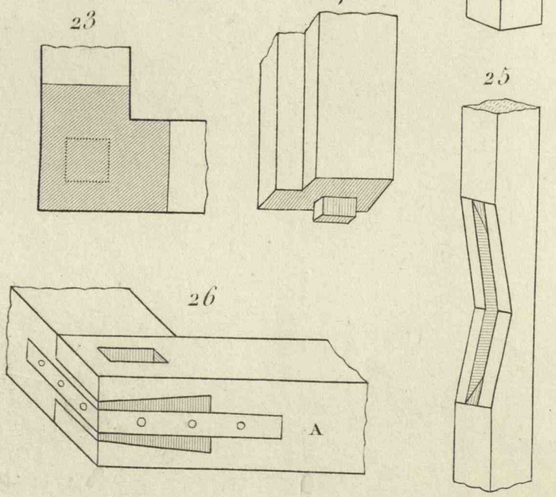
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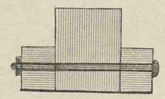
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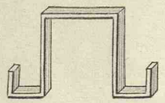
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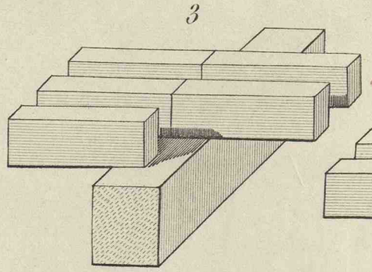
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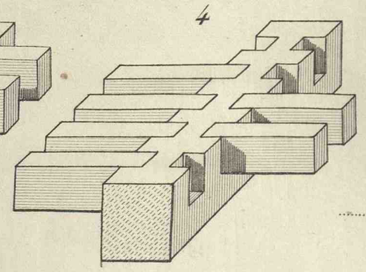
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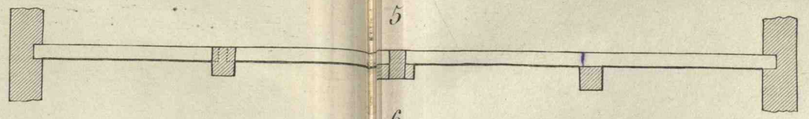
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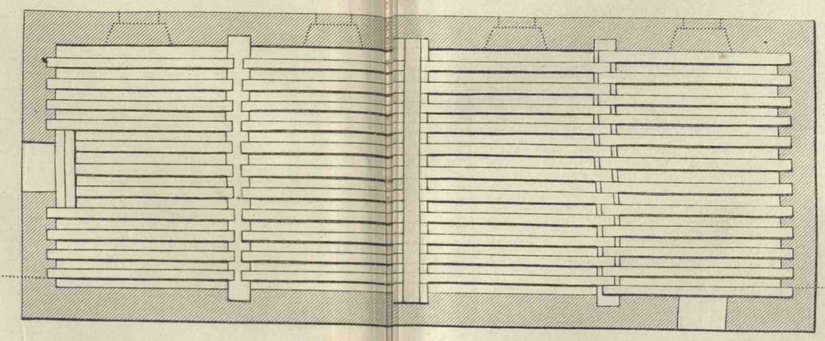
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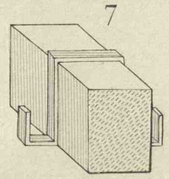
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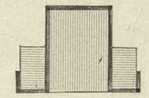
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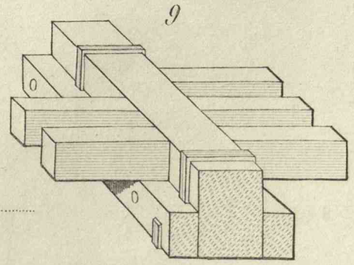
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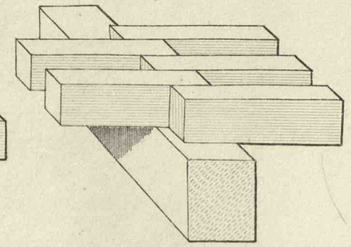
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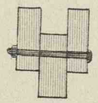
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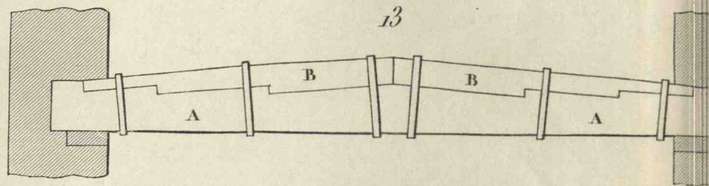
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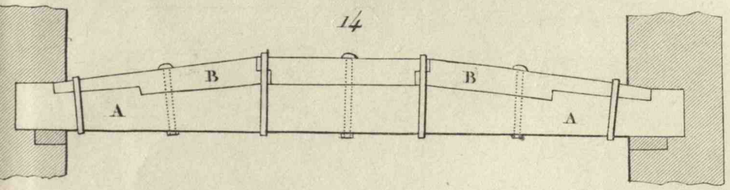
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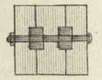
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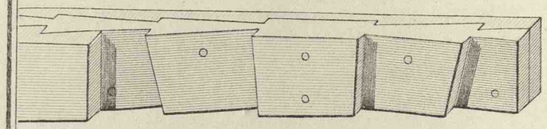
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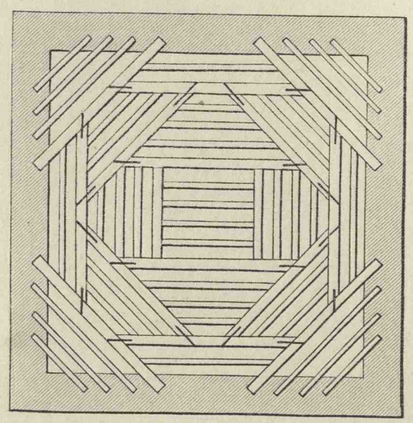
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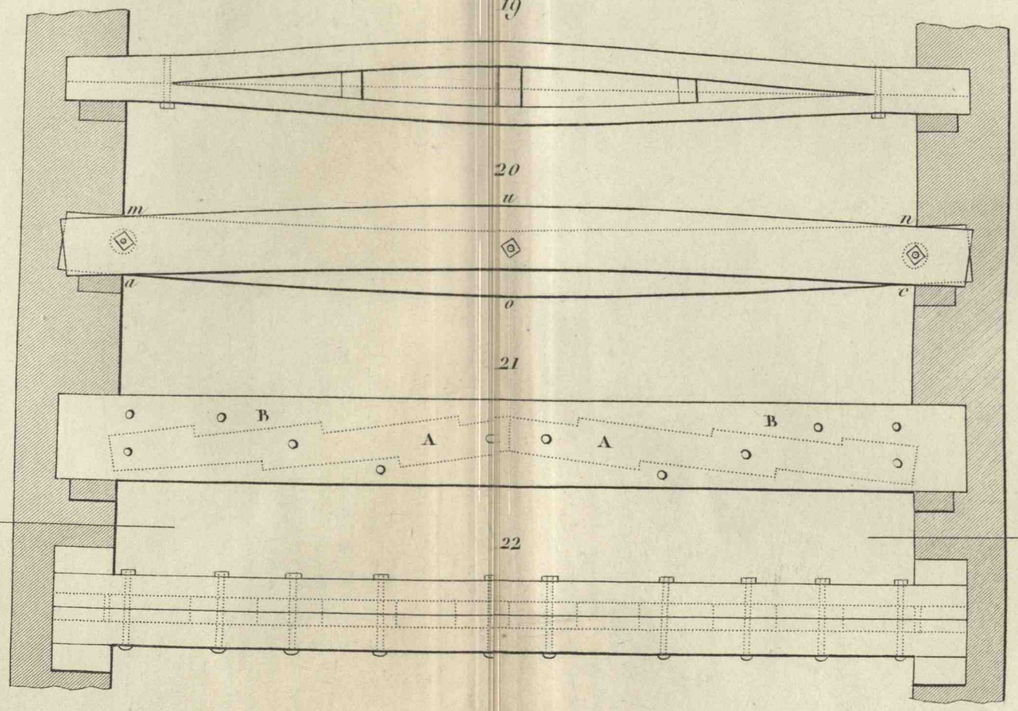
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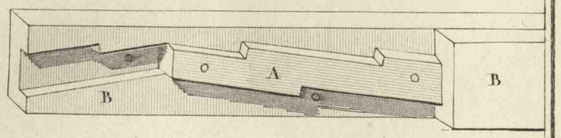


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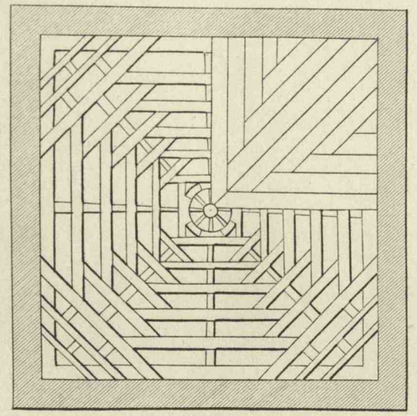
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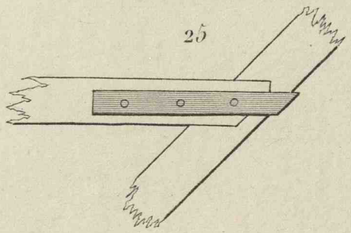
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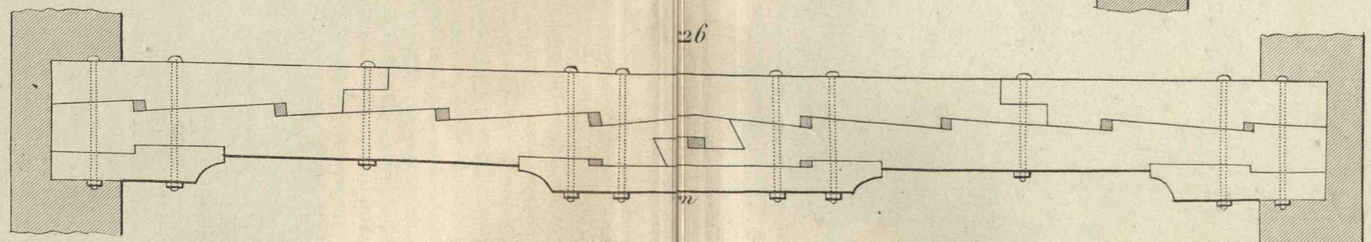
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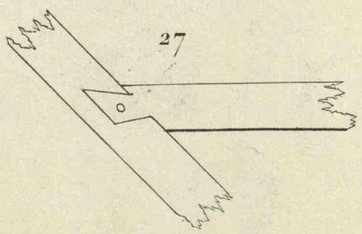
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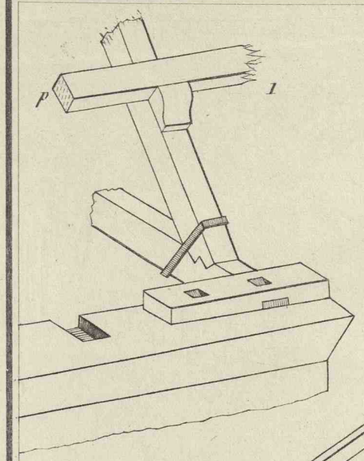


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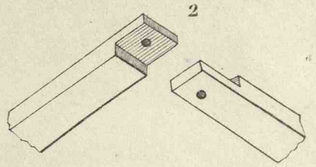


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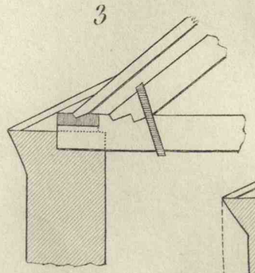
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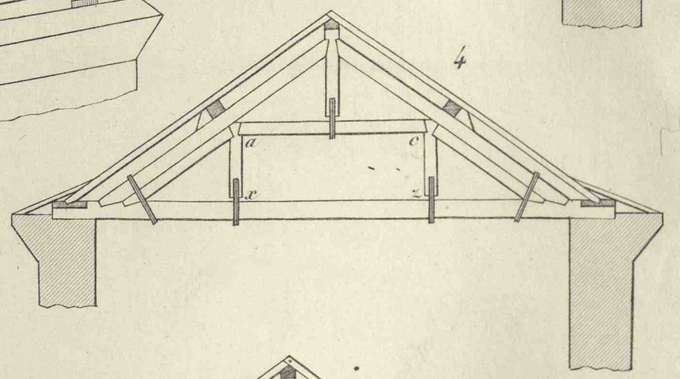
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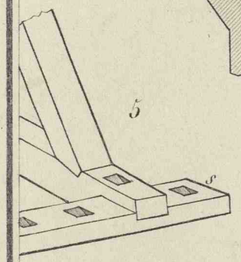
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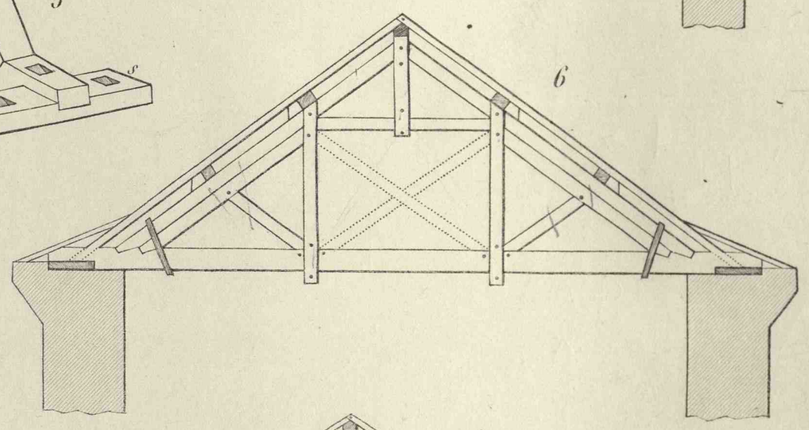
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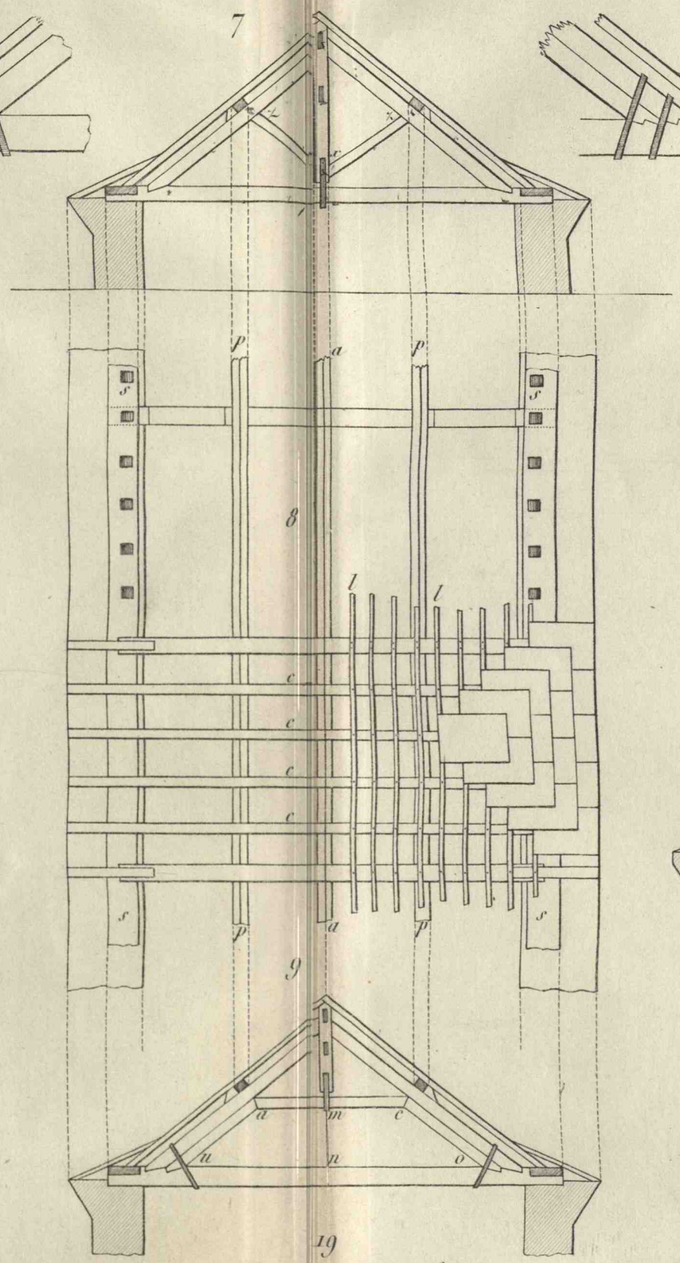
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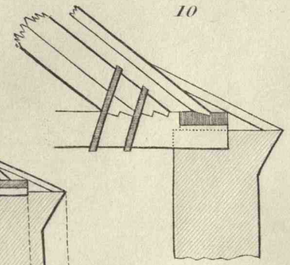
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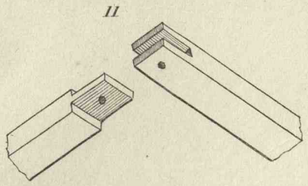
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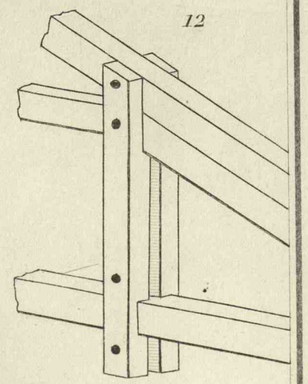
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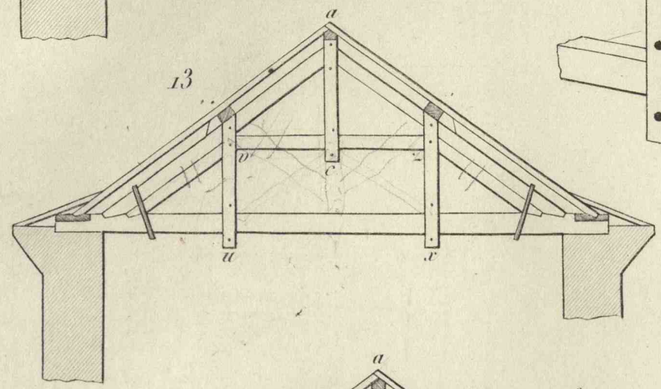
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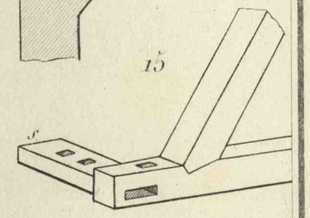
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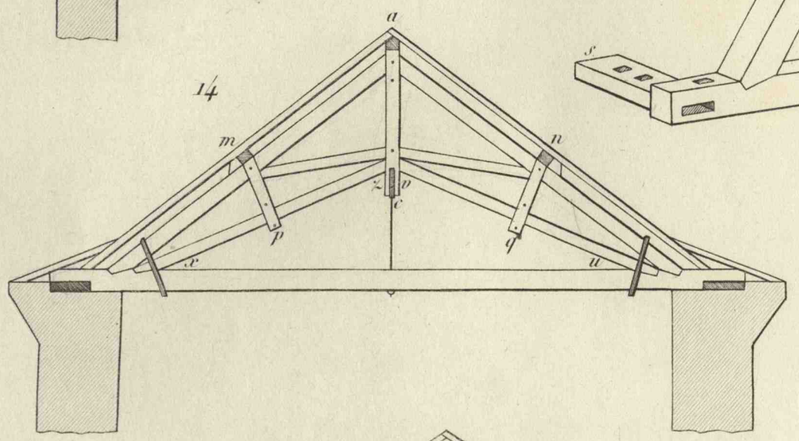
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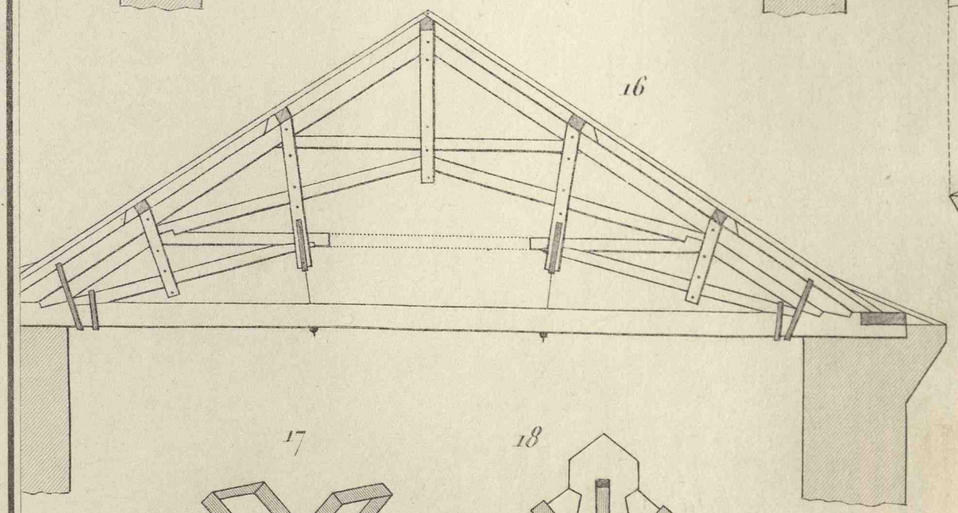
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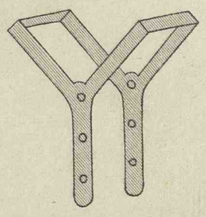
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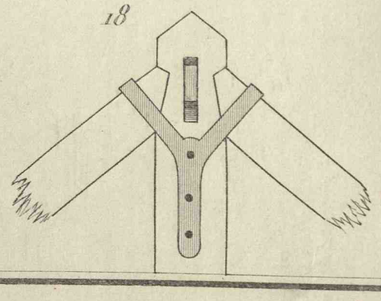
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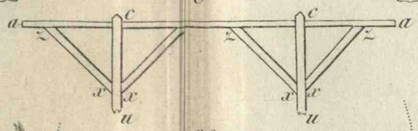
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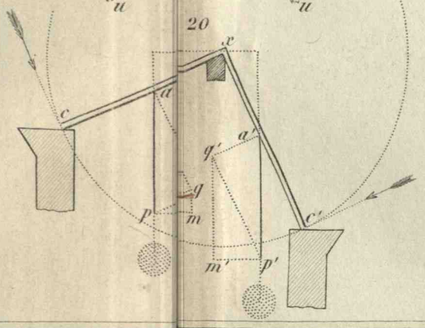
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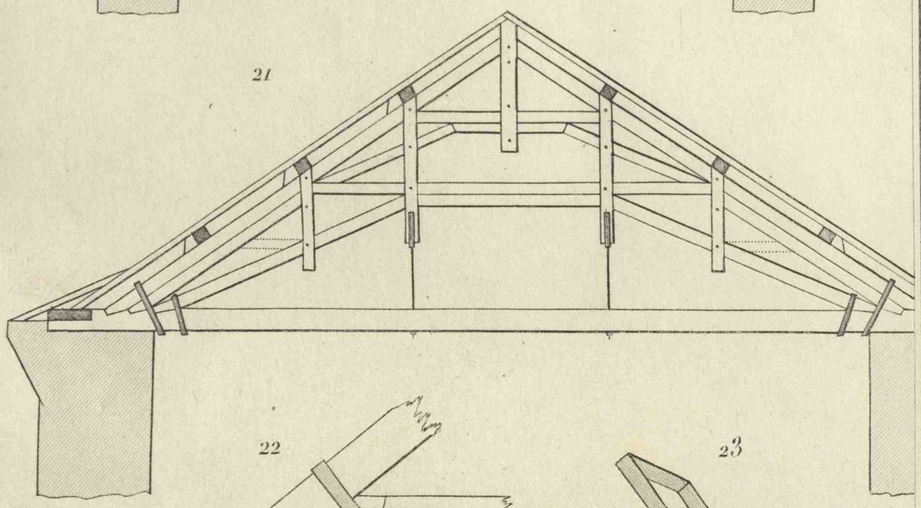
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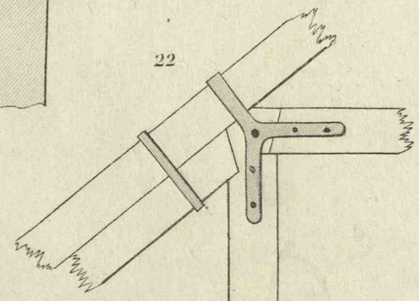
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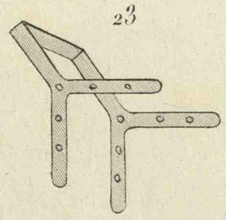
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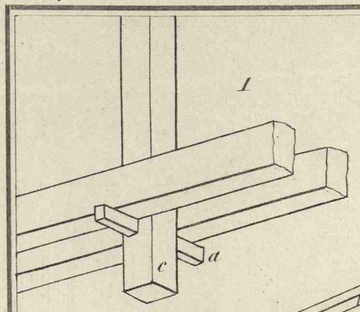


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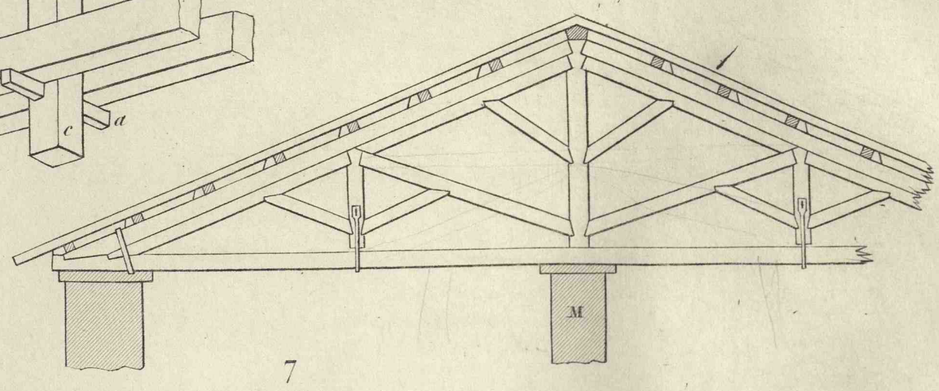


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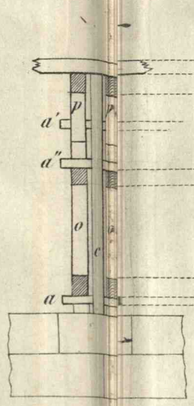
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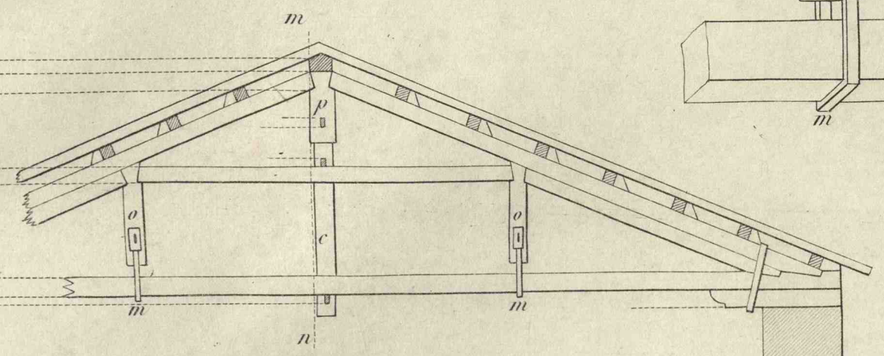
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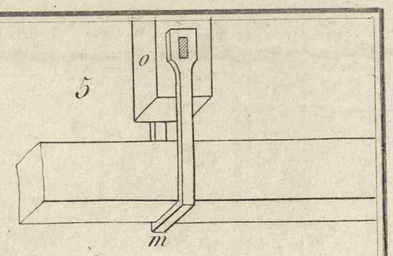
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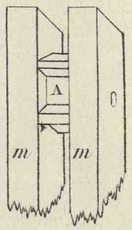
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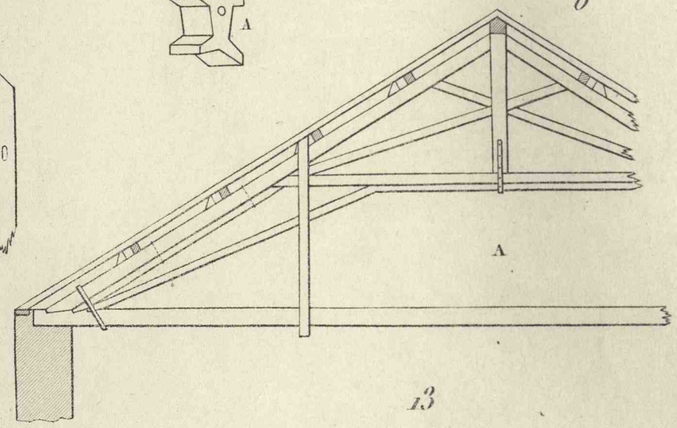
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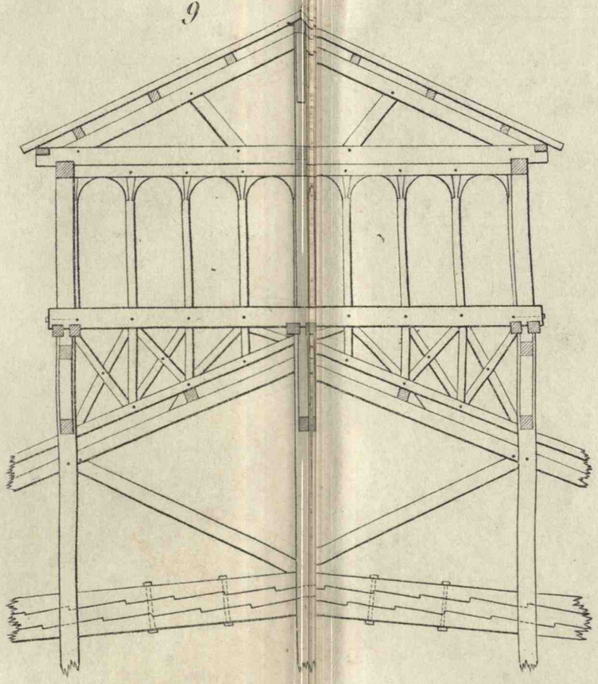
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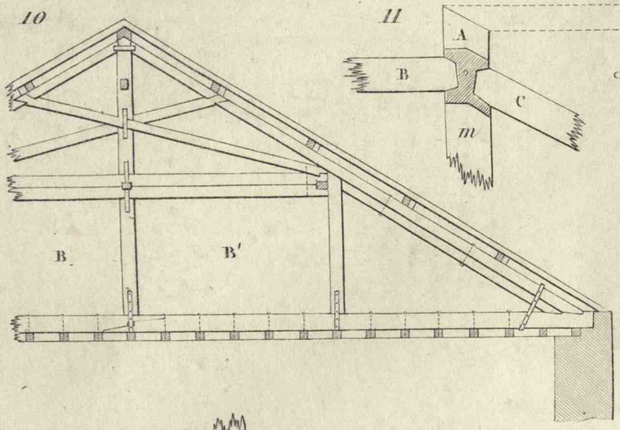
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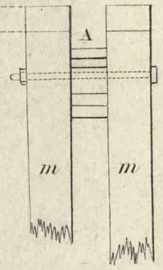


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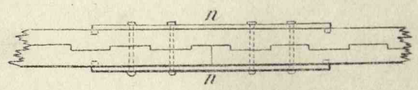


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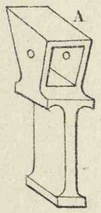
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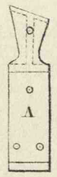
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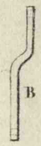
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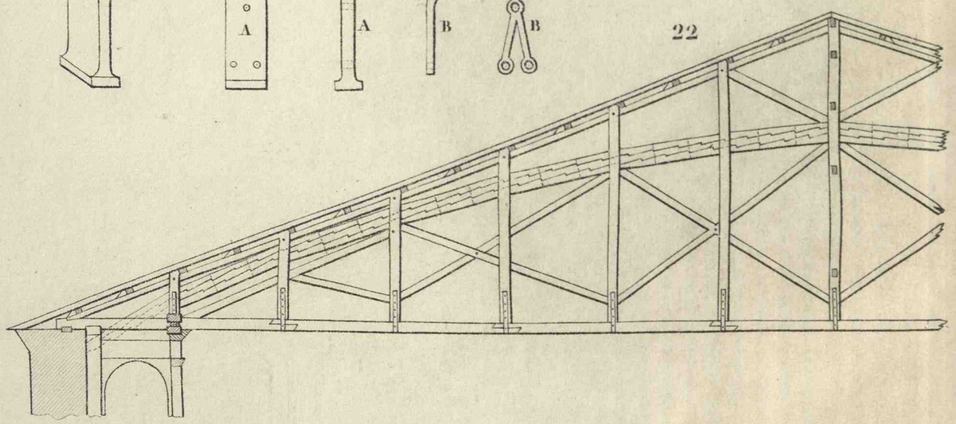
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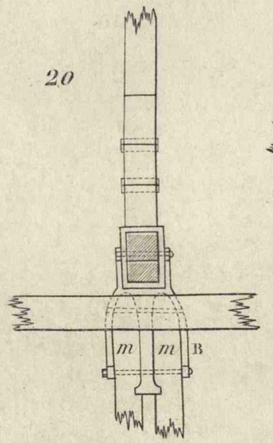
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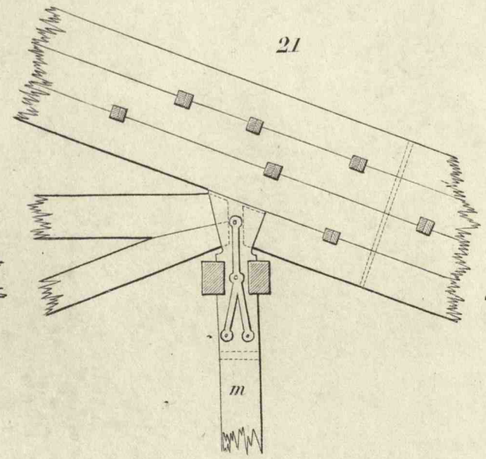
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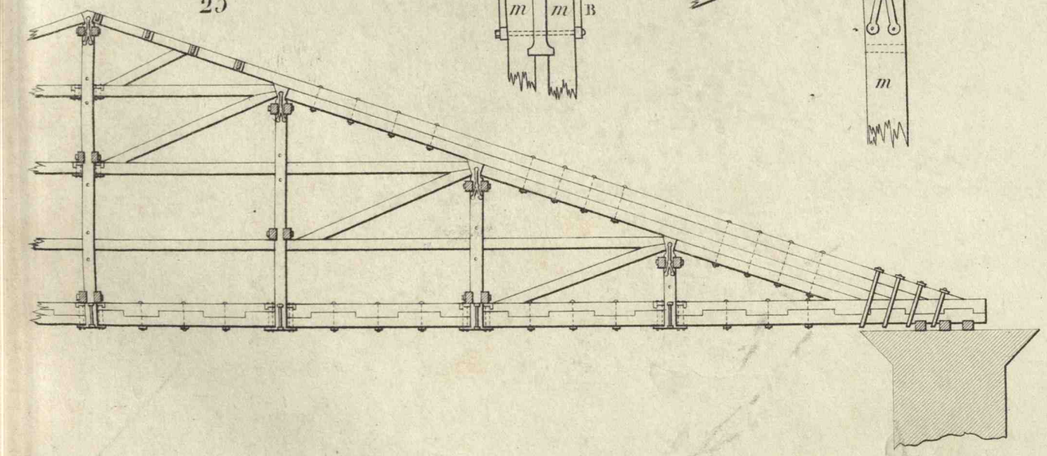
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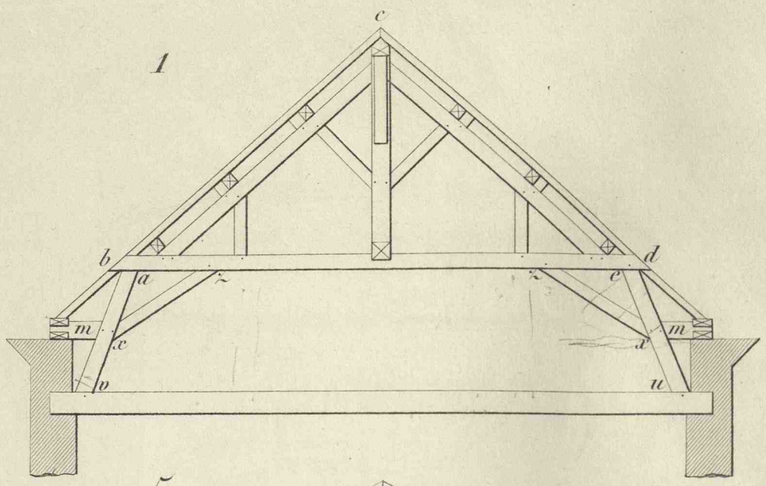


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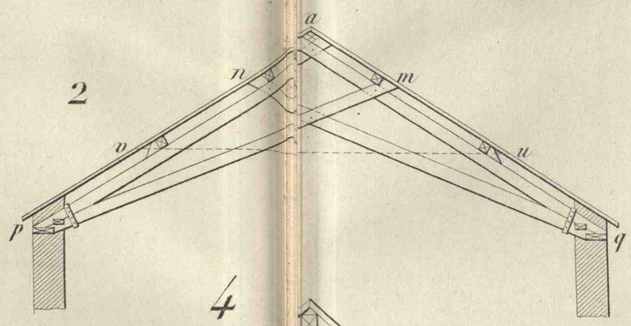


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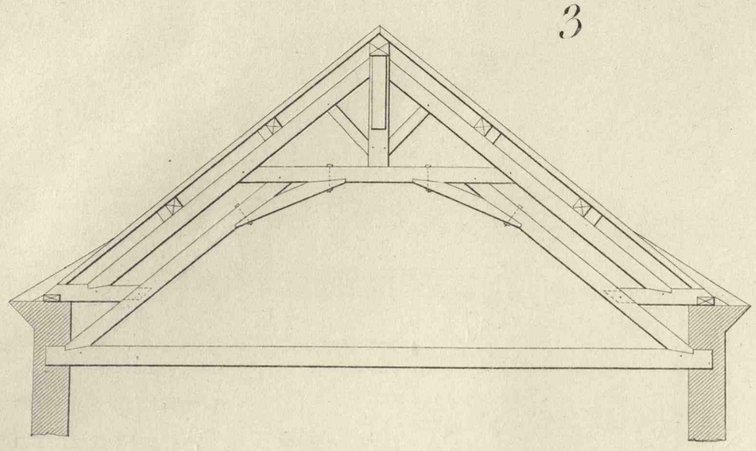
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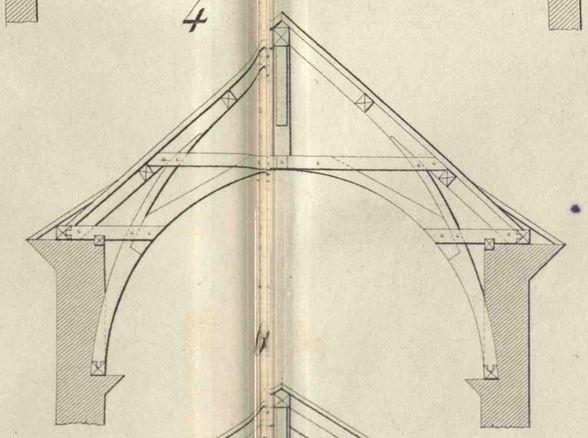
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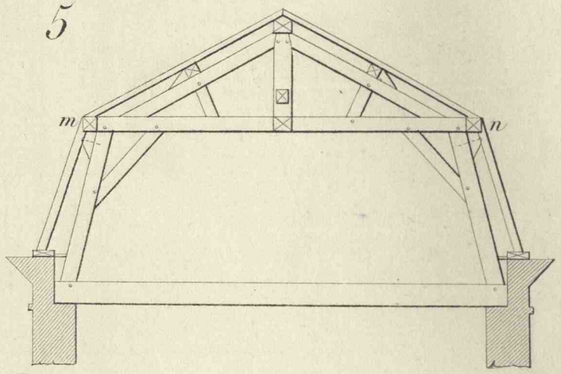
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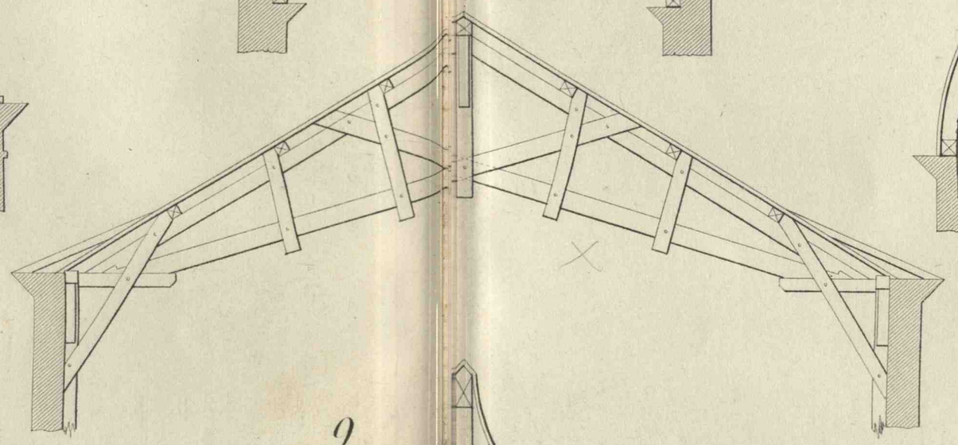
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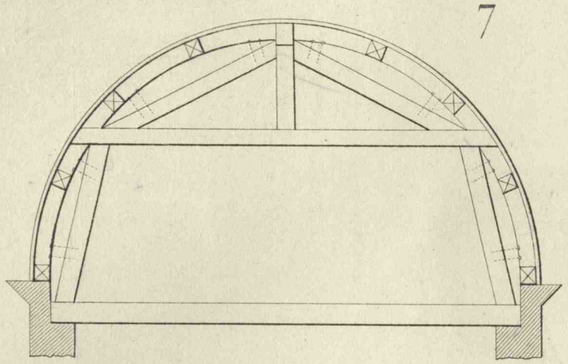
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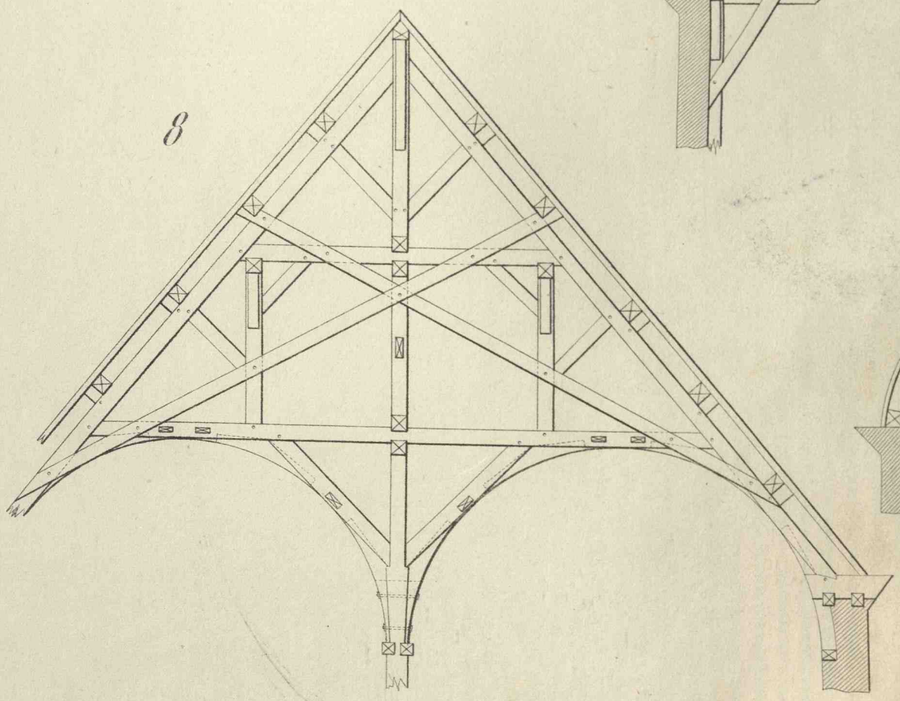
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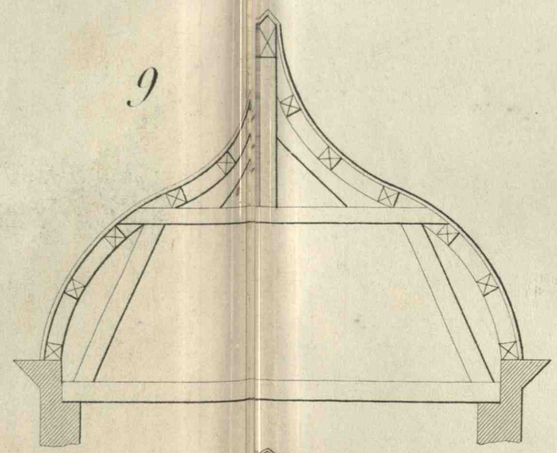
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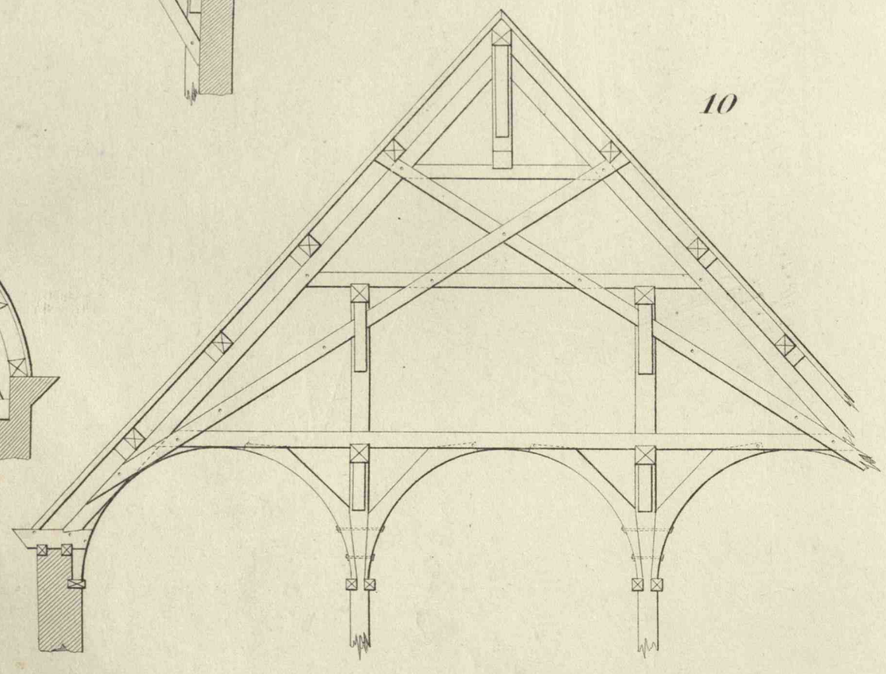
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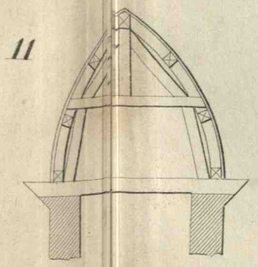
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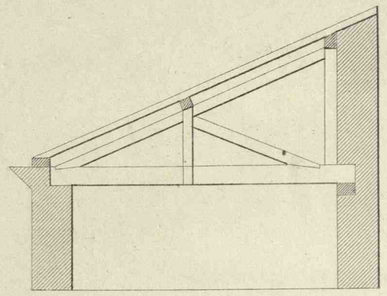
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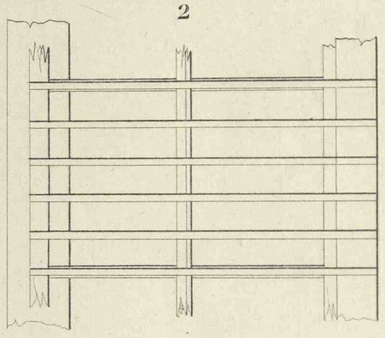
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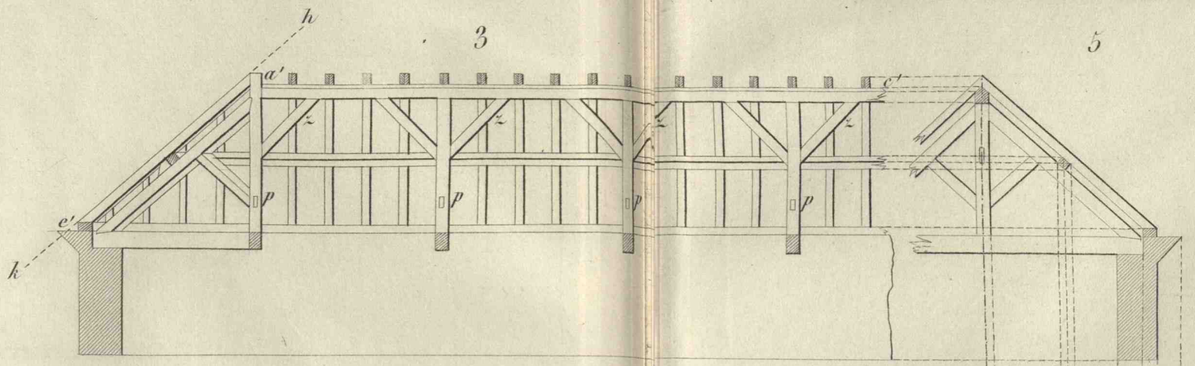
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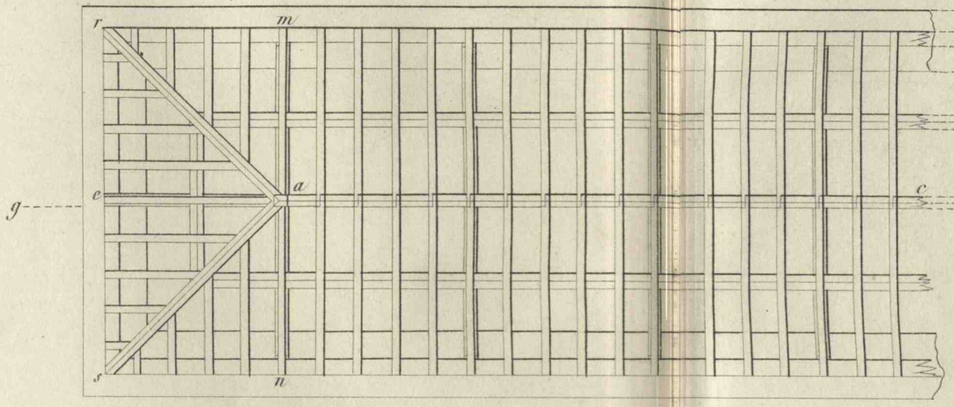
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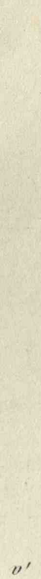
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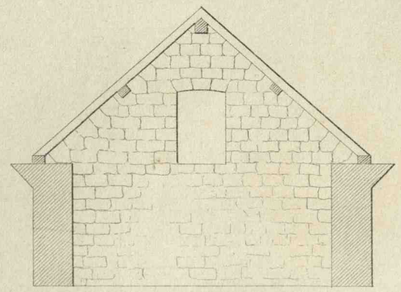
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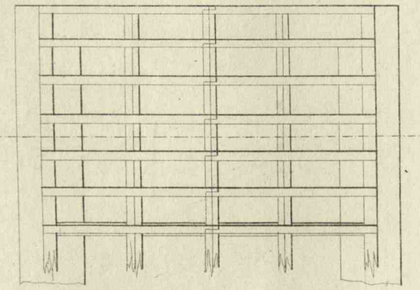
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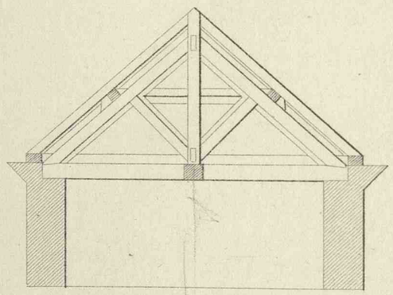
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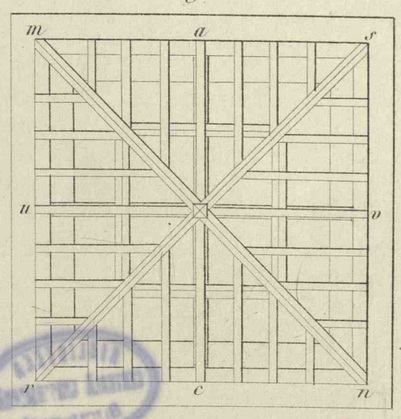
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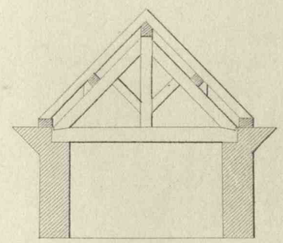
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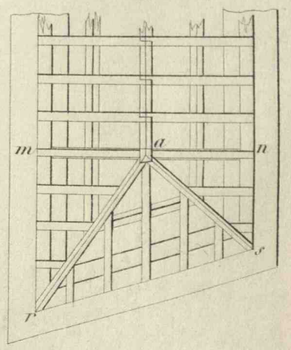
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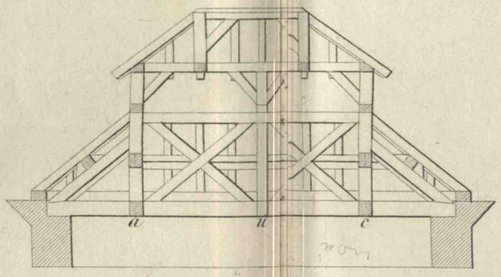
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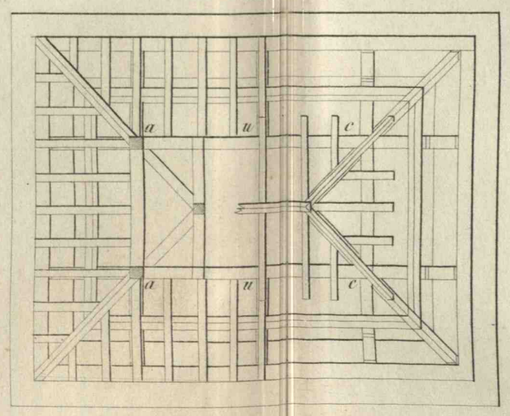
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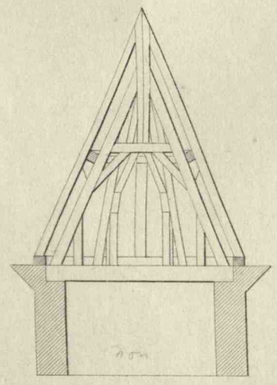
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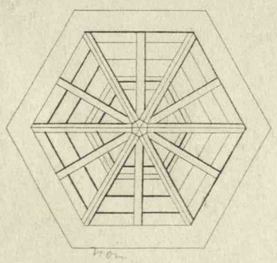
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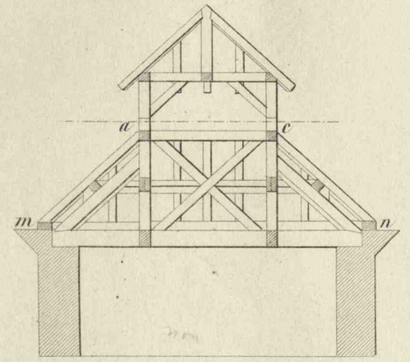
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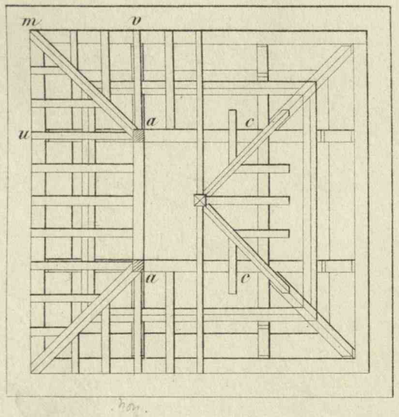
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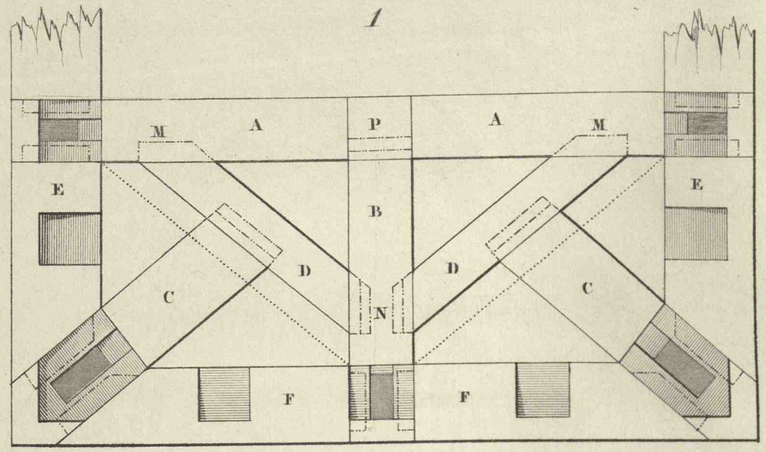


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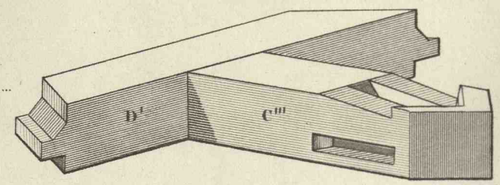


Croupe droite.

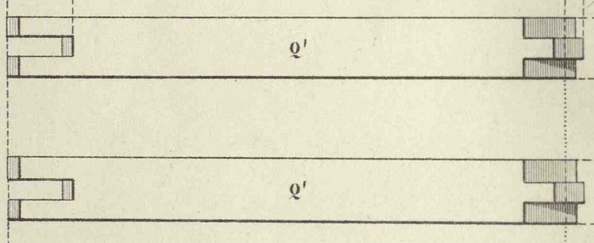
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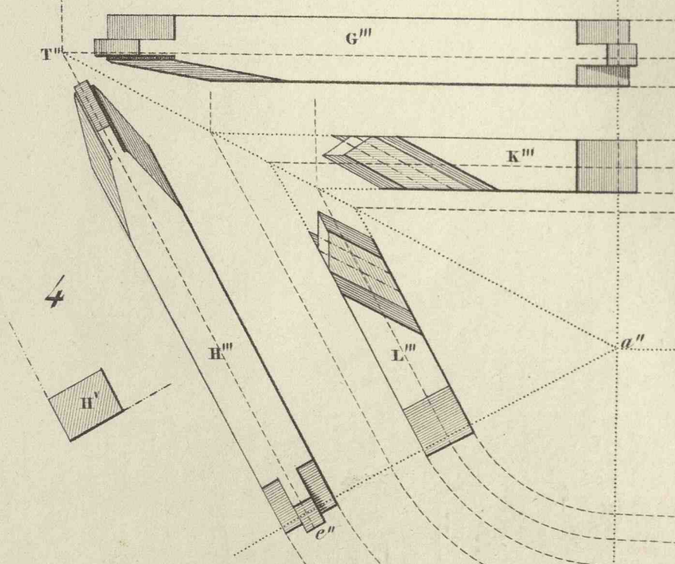
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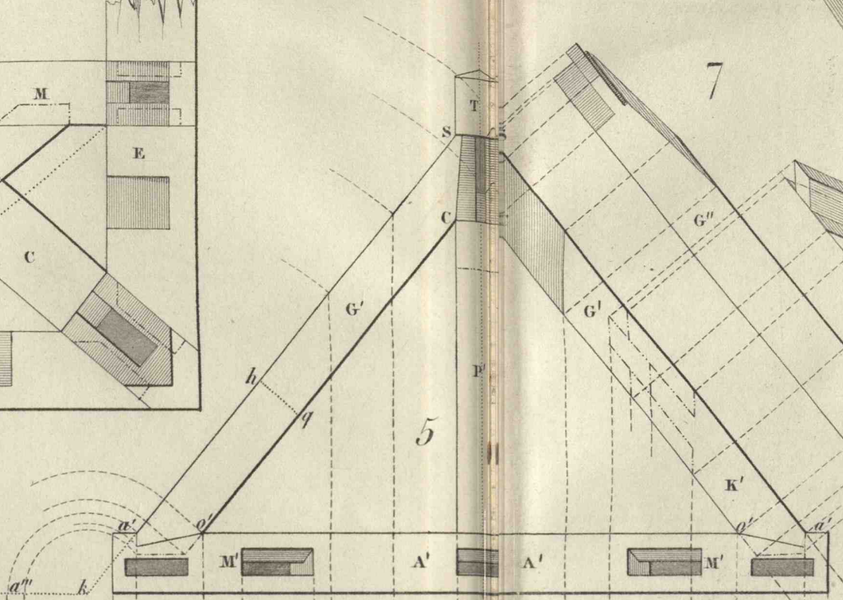
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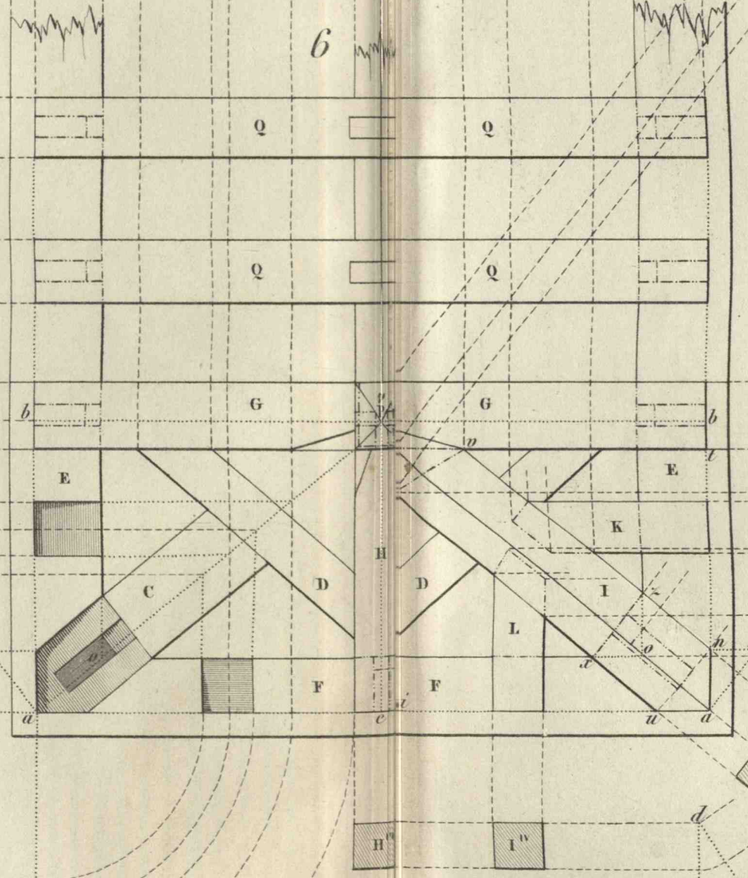
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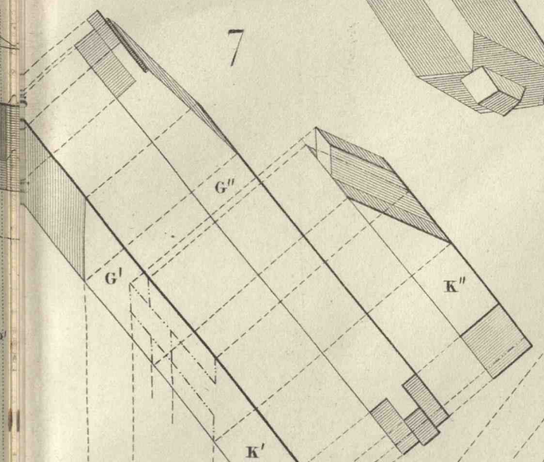
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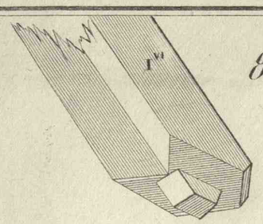
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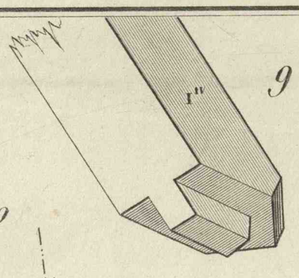
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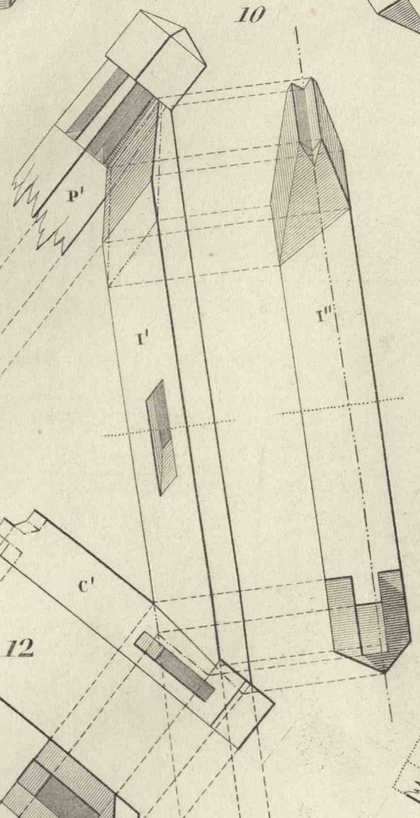
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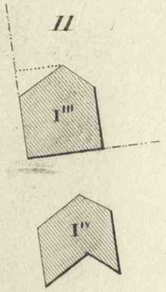
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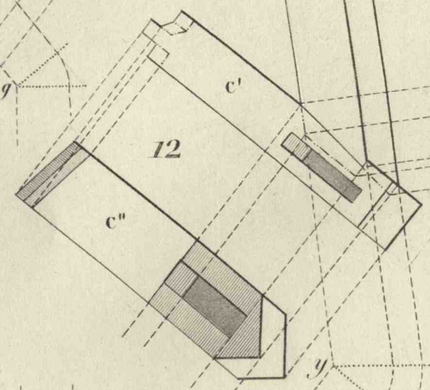
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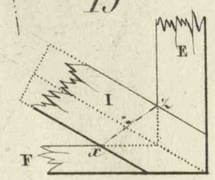
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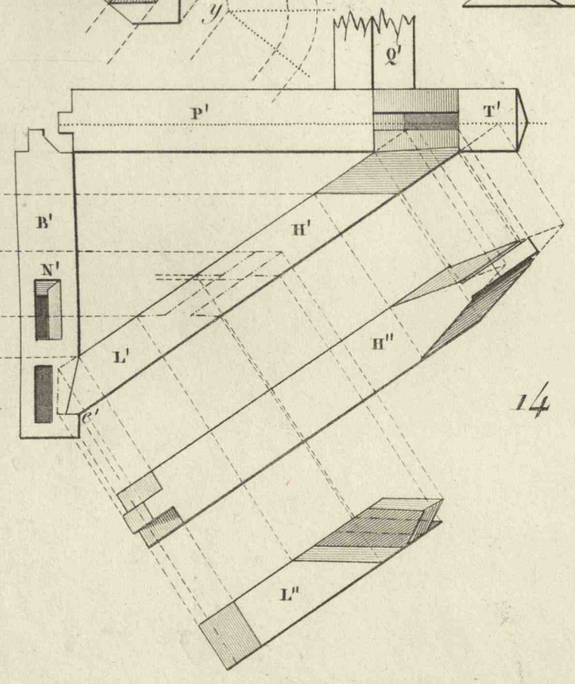
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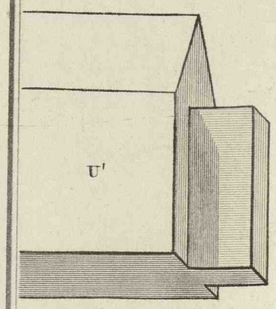


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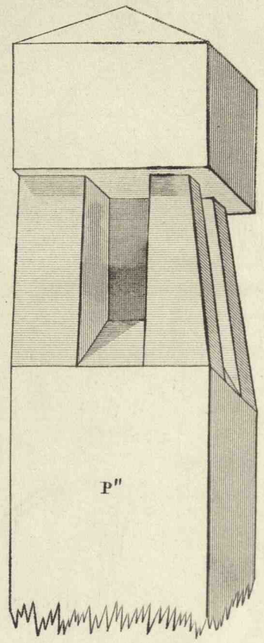


Poinçon de croupe droite.

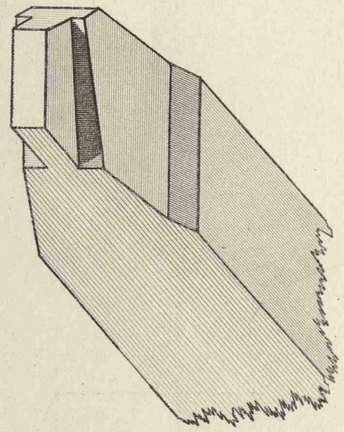
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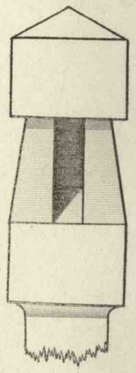
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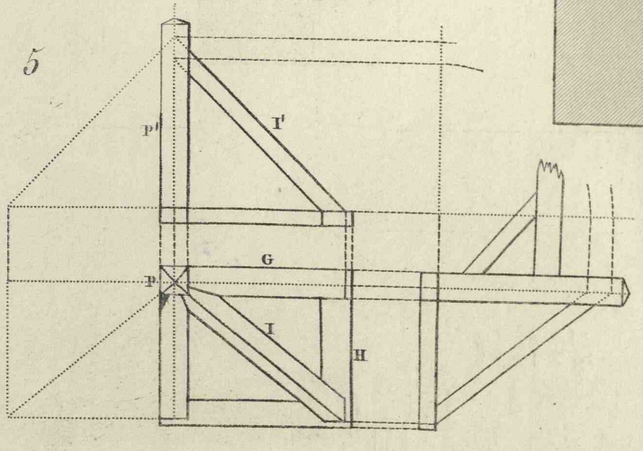
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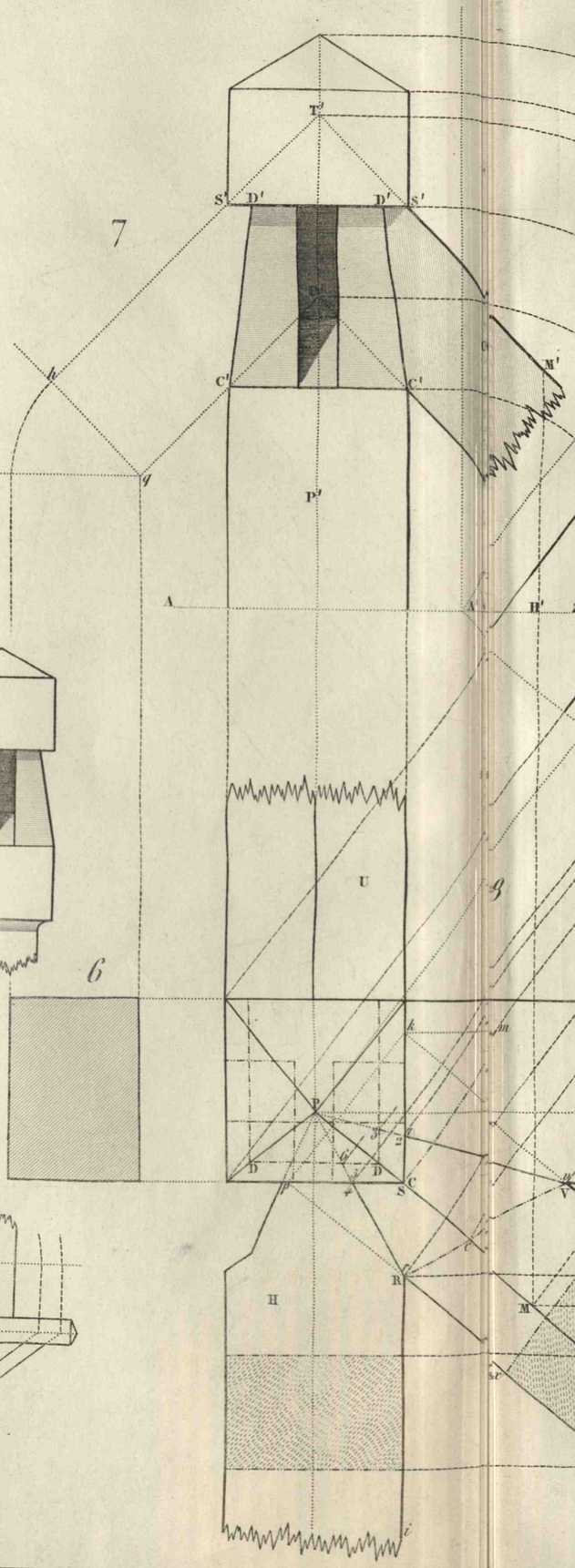


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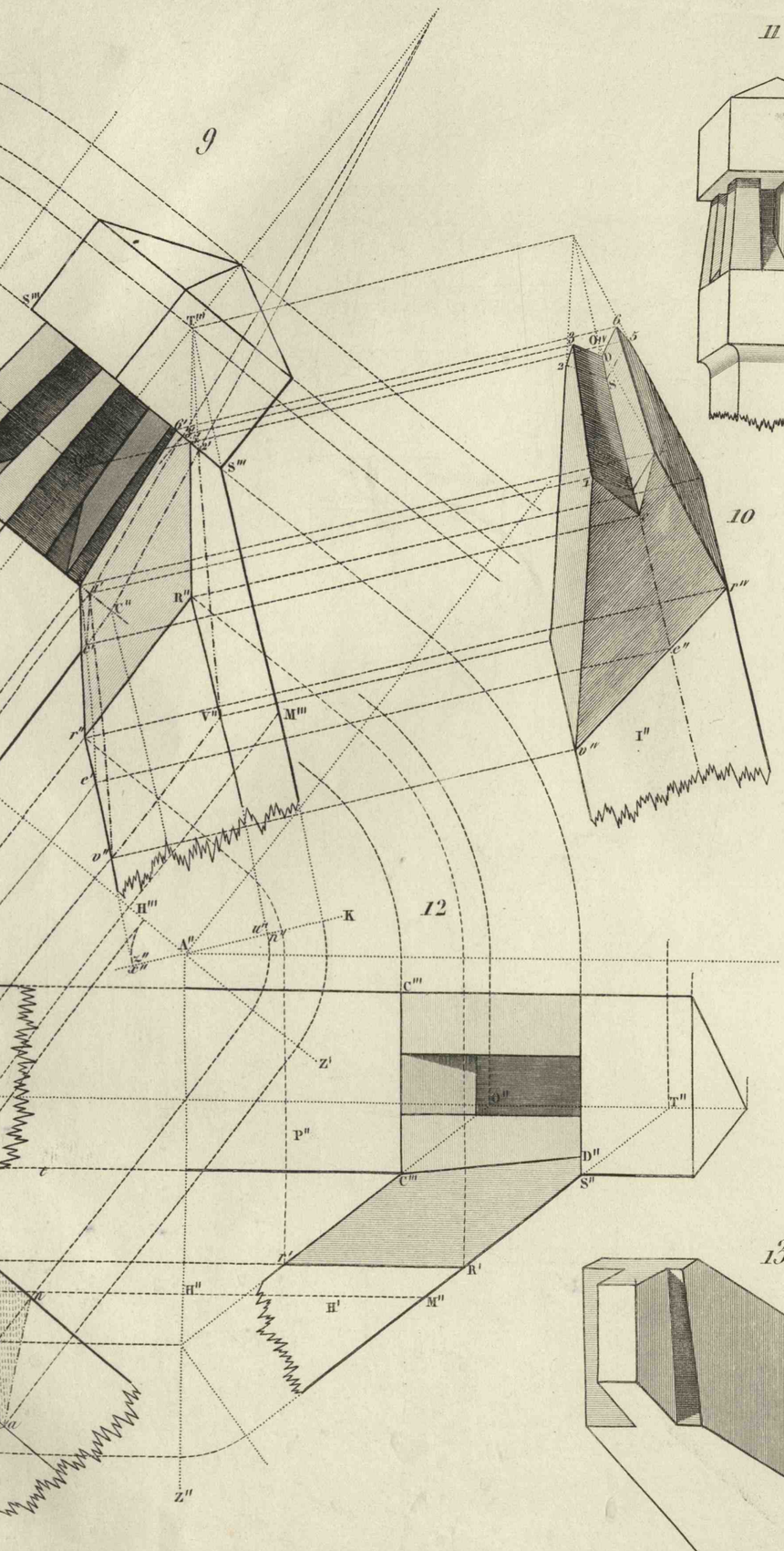
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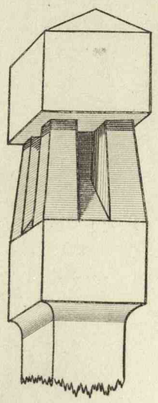
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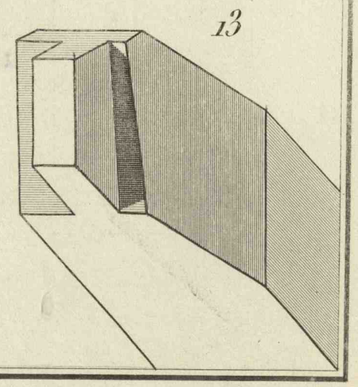
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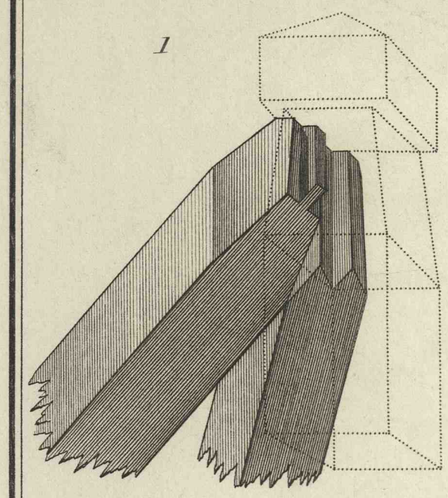


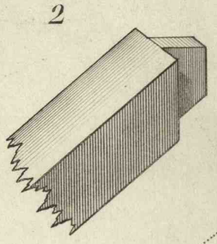
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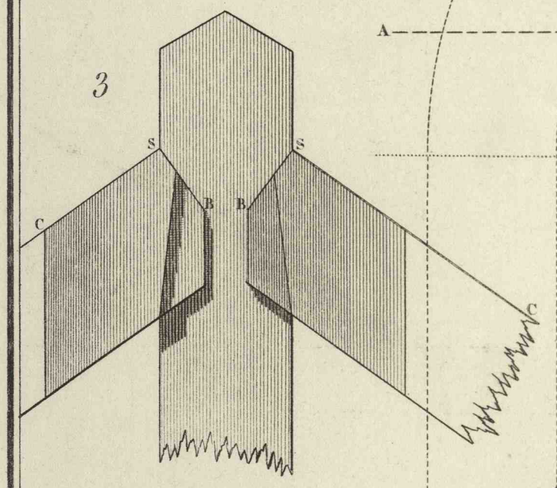
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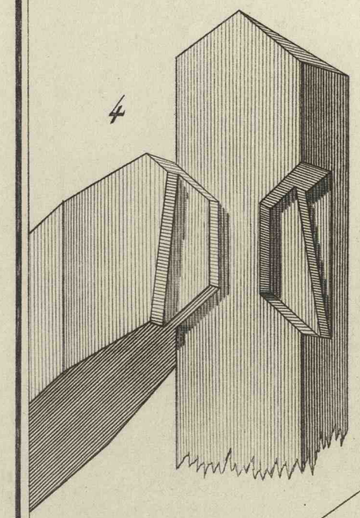


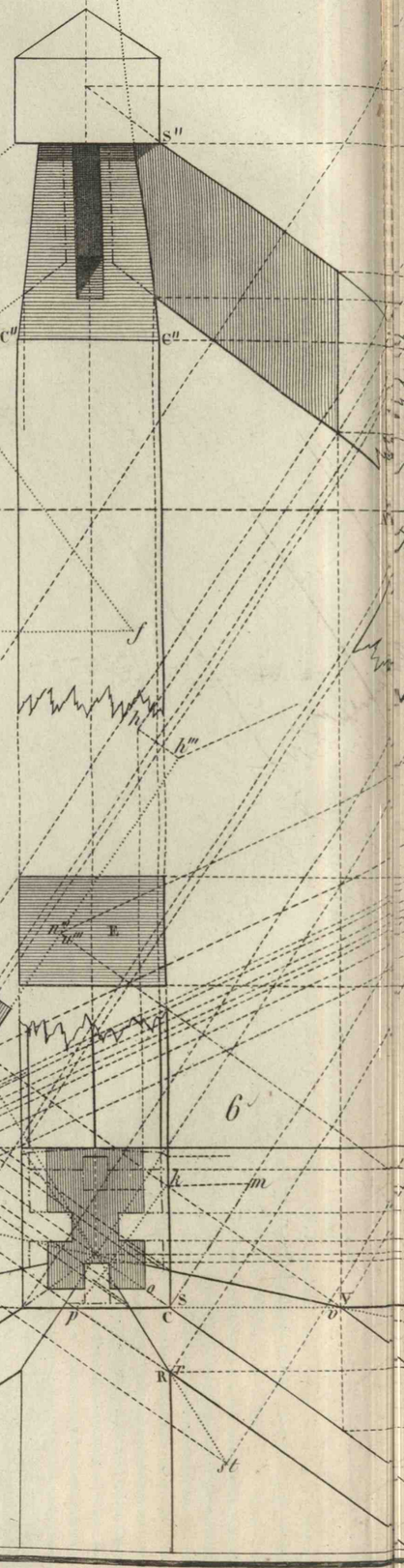
2ème Etude de Poinçon.

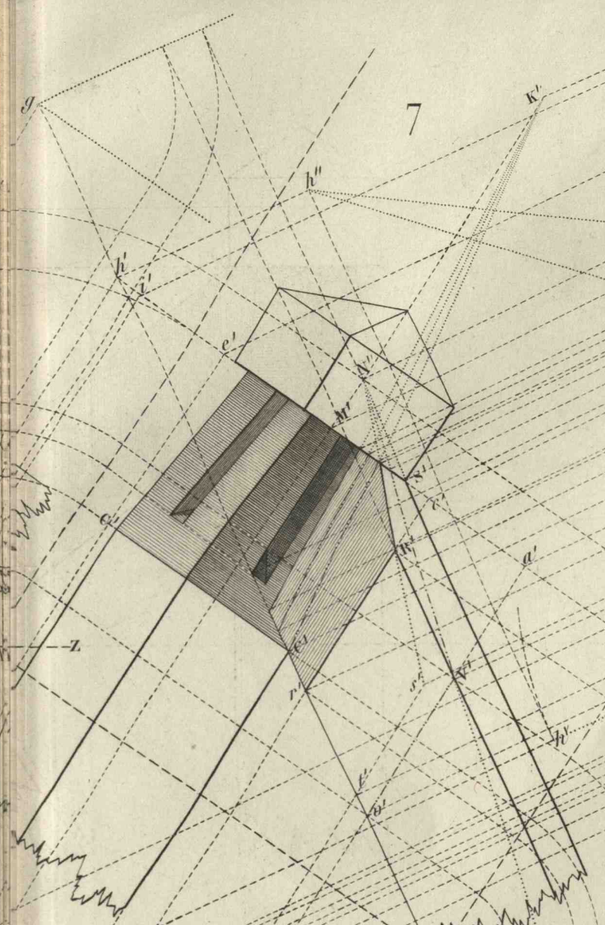


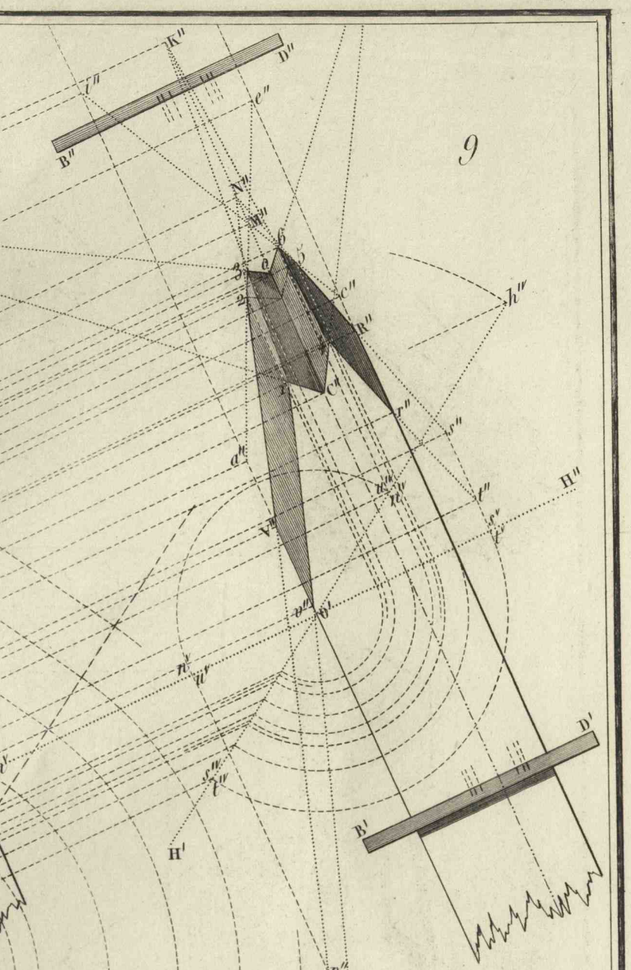


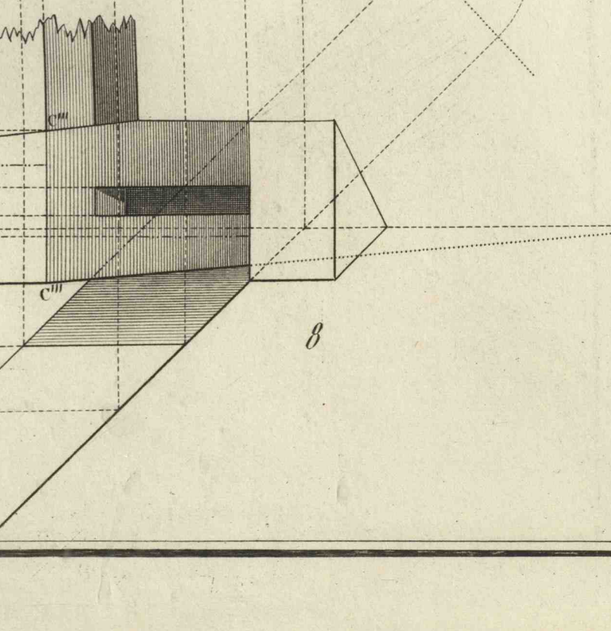




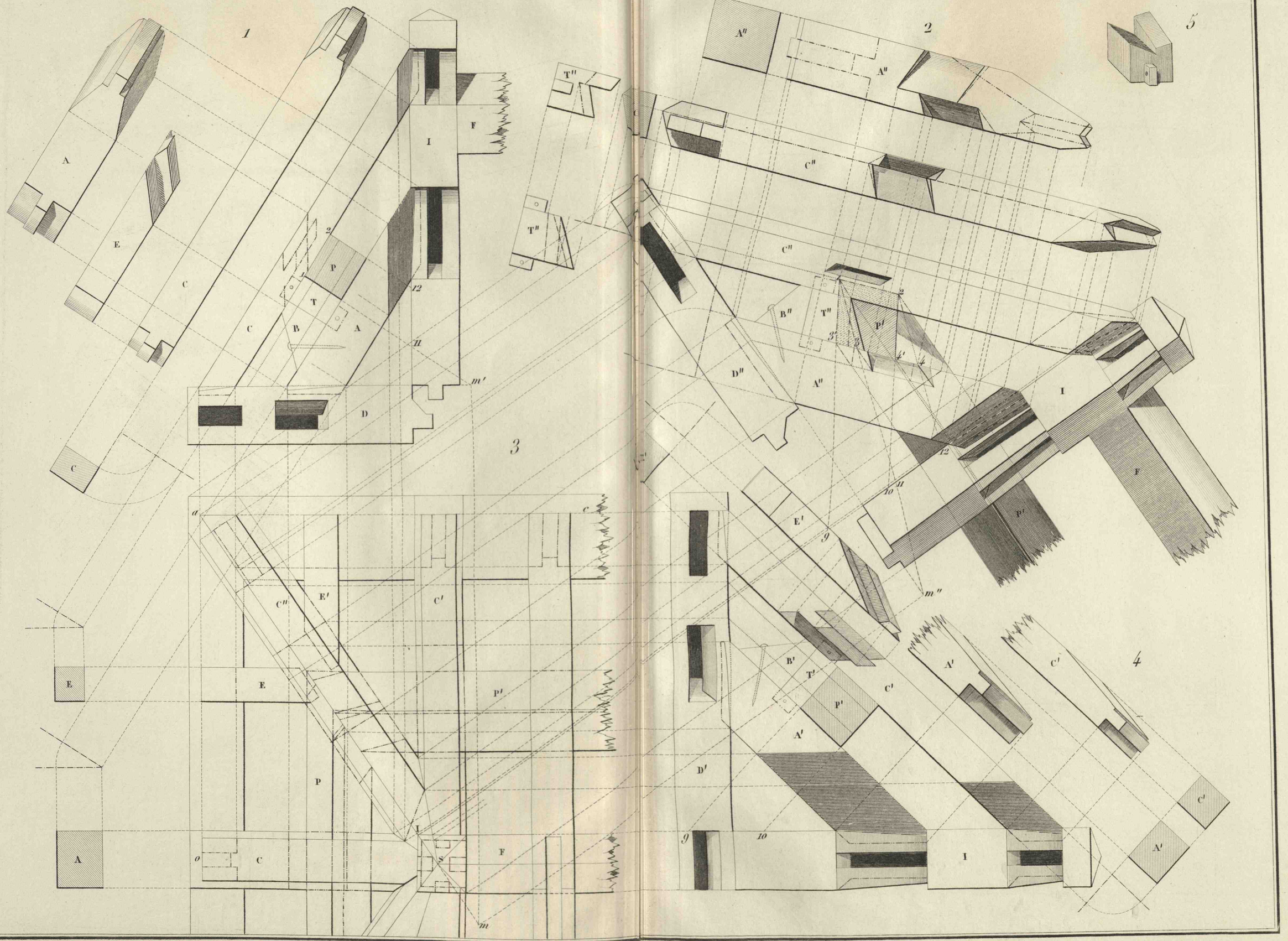








Croupe droite avec arrêtiers et tasseaux



Études de pannes et tasseaux

Charpente

Croupe biaise

1

2

a d

U X

E'

F'

A'

C

C'

Z'

4

5

m n d

u s

a c

b

8

D

p

M

E

7

i

G N

G III

F

F III

O

L

H

R

Z

K

O III

L III

H'

L'

O'

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q

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o

Z''

Y

6

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B''

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O''

L''

H''

10

F''

G''

E''

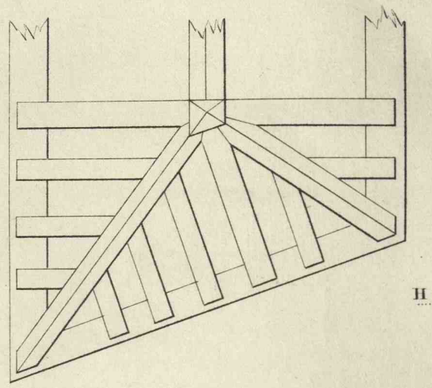
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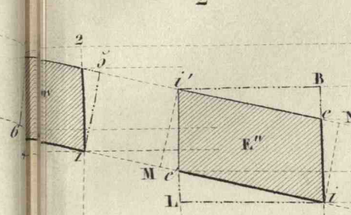
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Empanon et chevron de croupe biaise

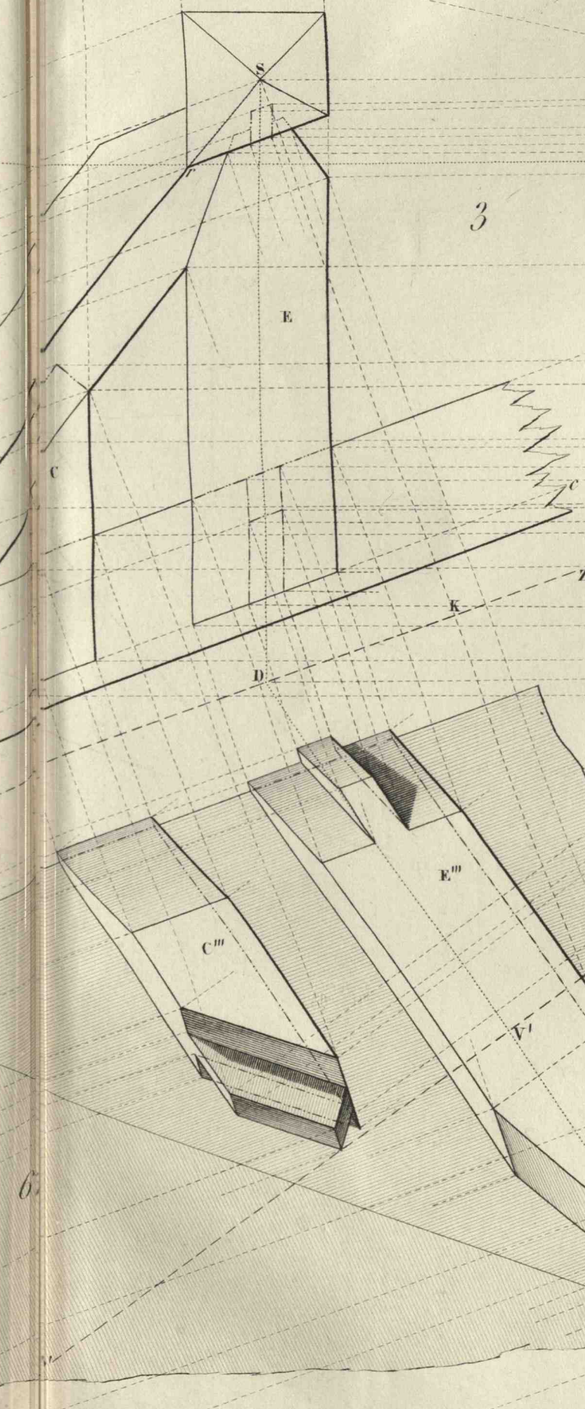
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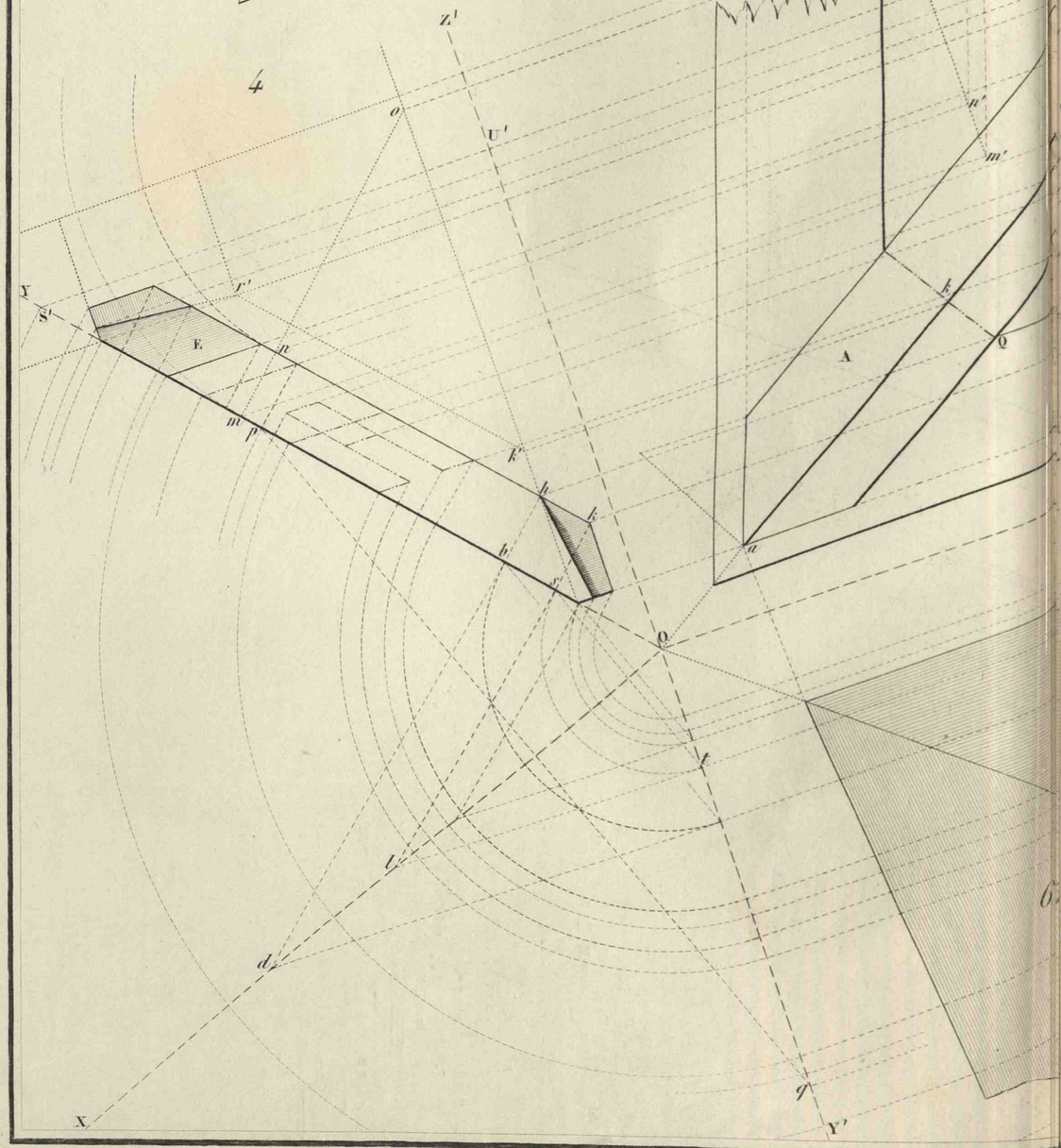
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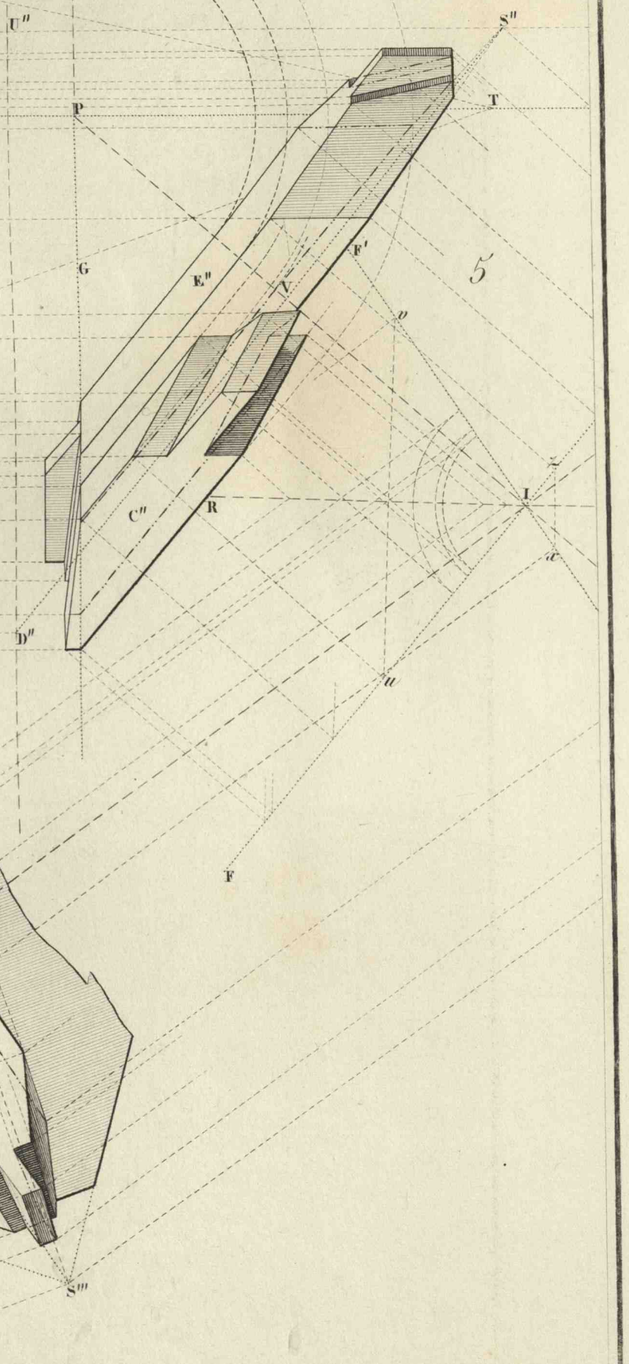
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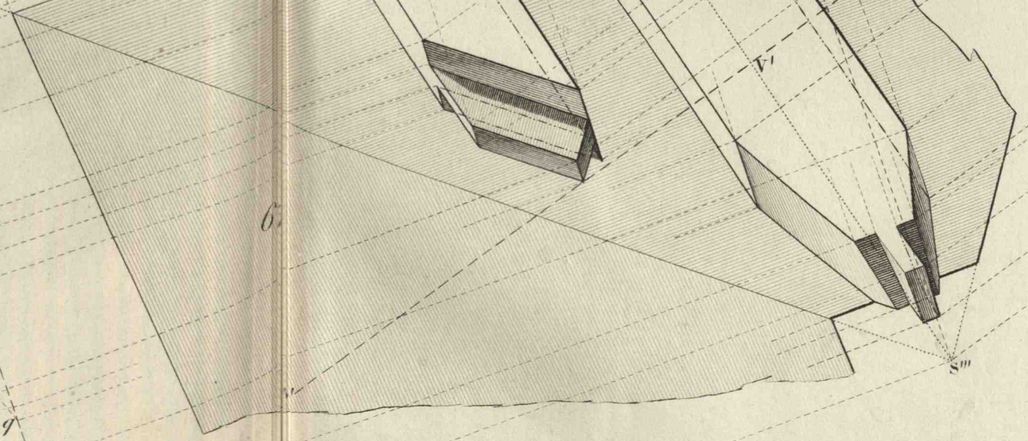
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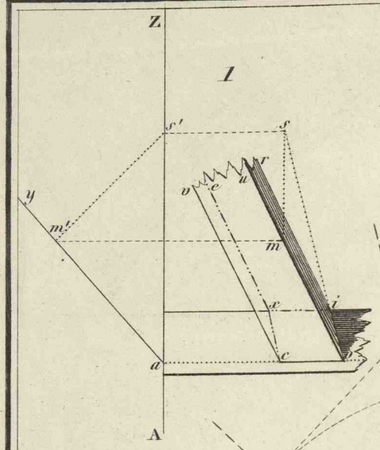
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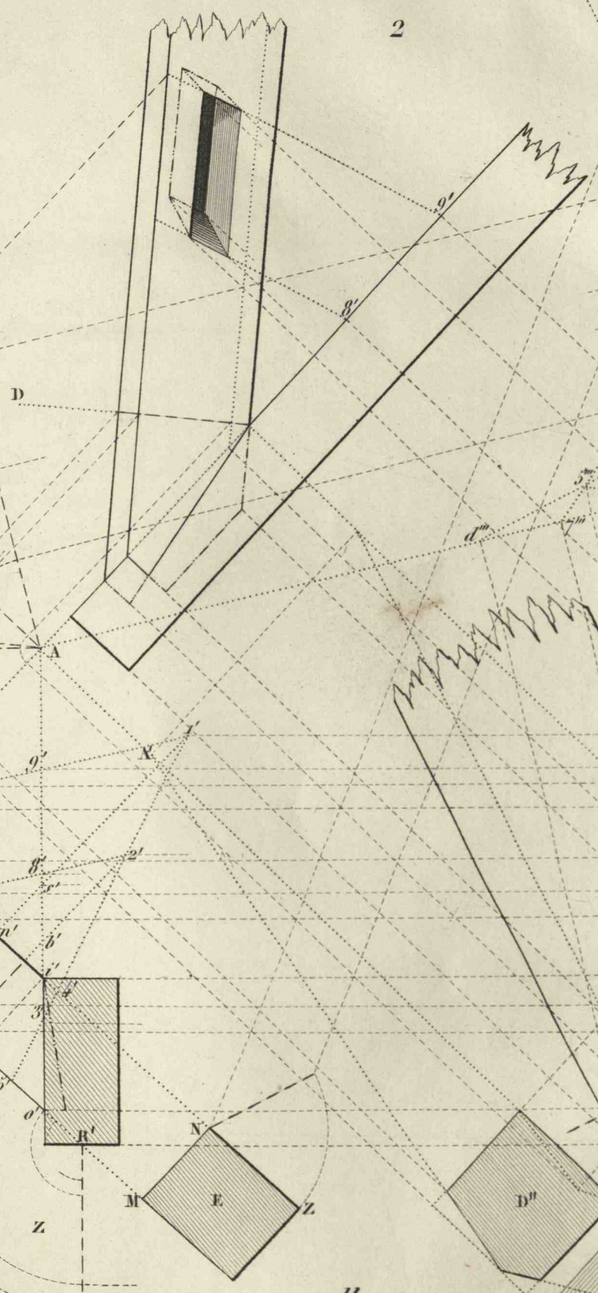


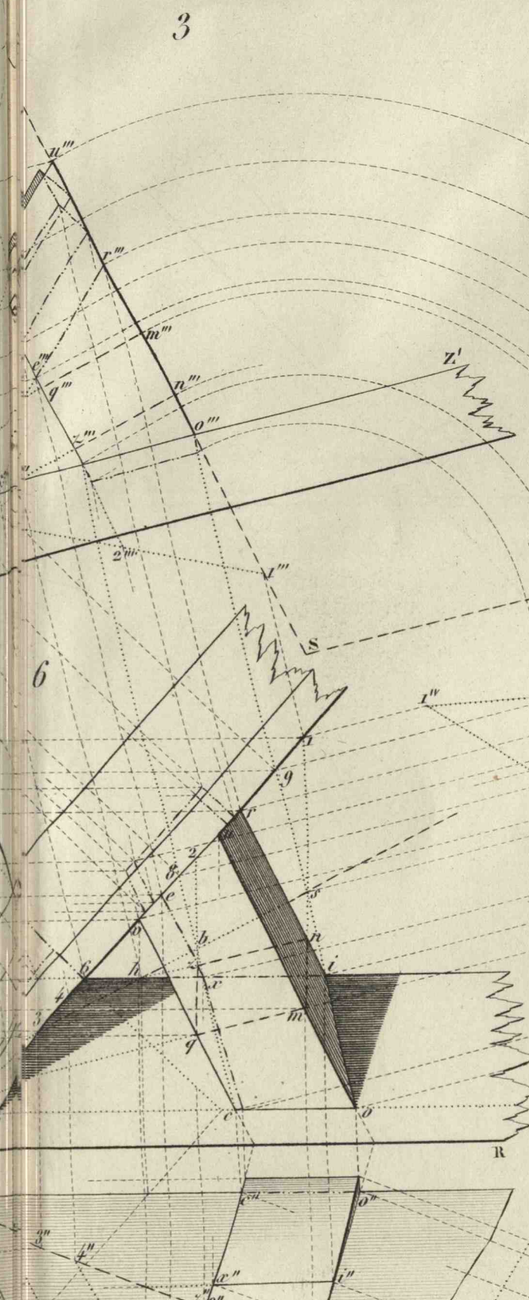
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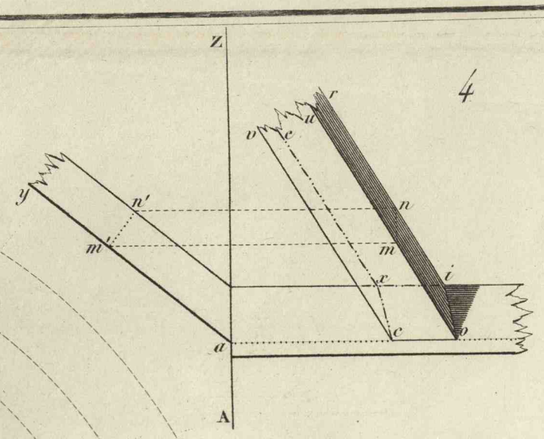


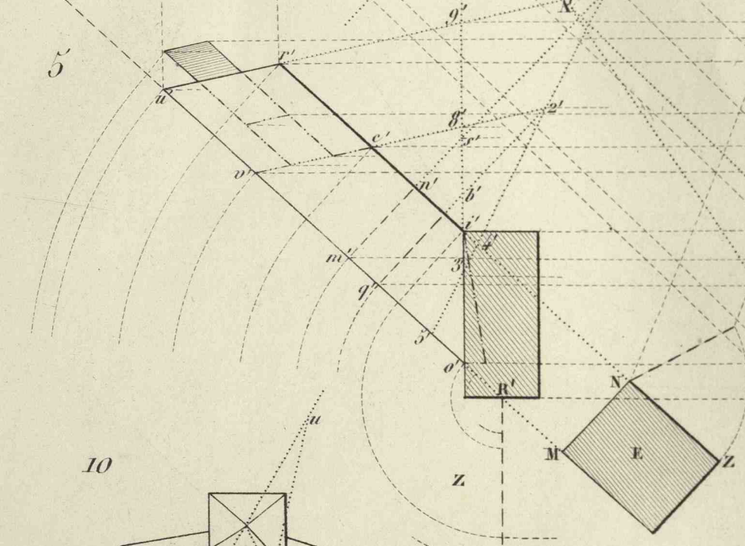
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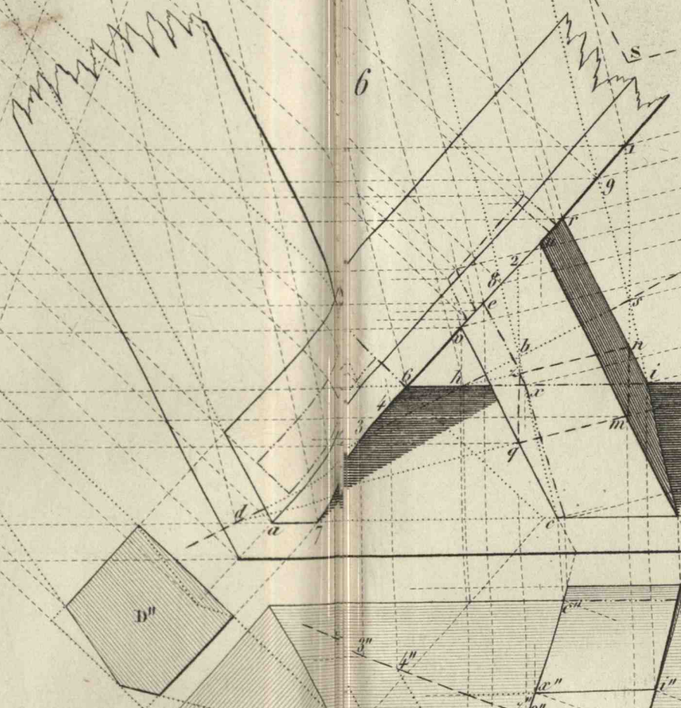


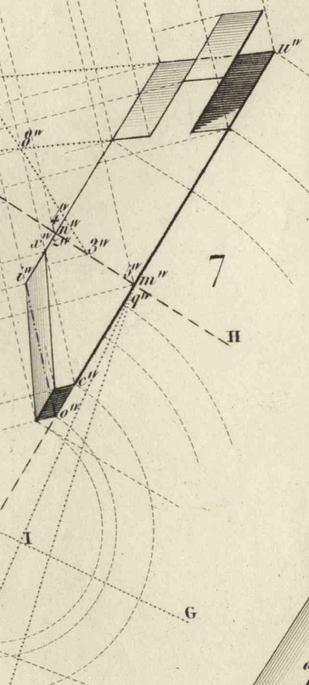


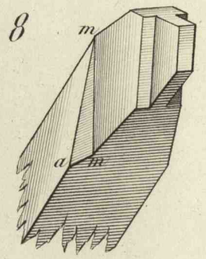


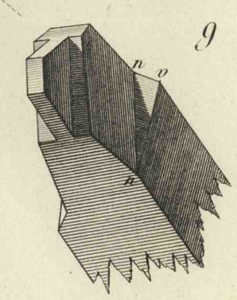


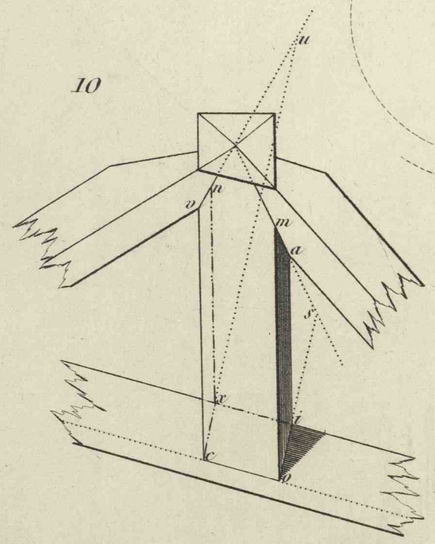


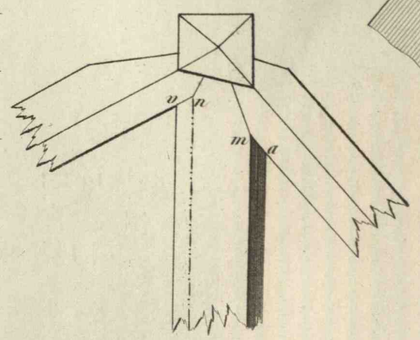


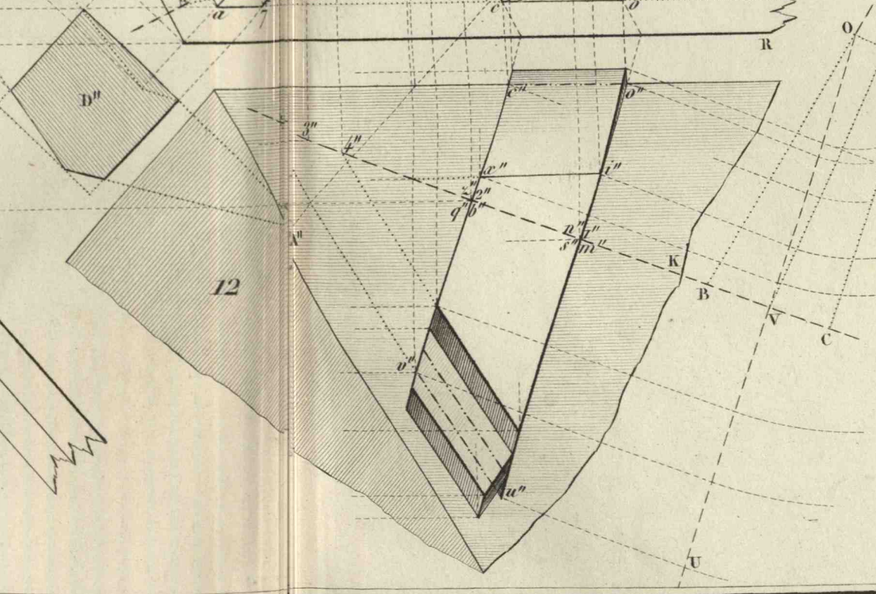


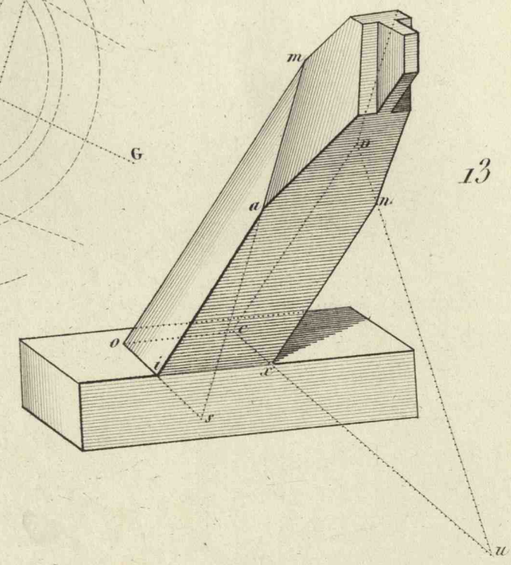












Intersections de combles

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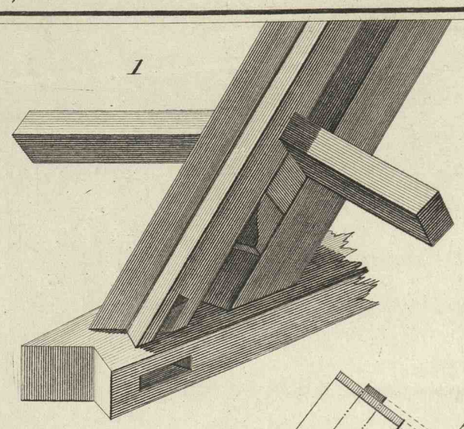
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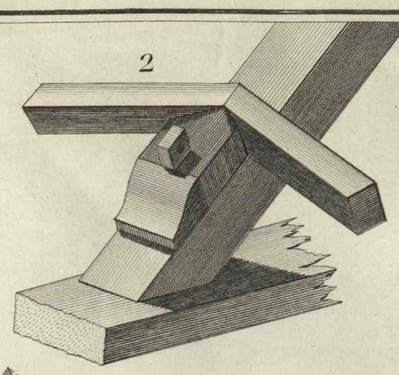
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Noue sur pans et arbalétriers

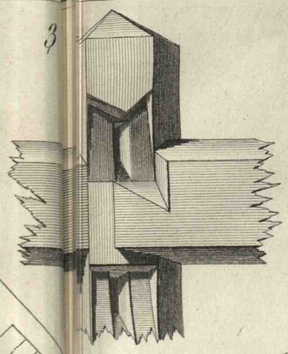
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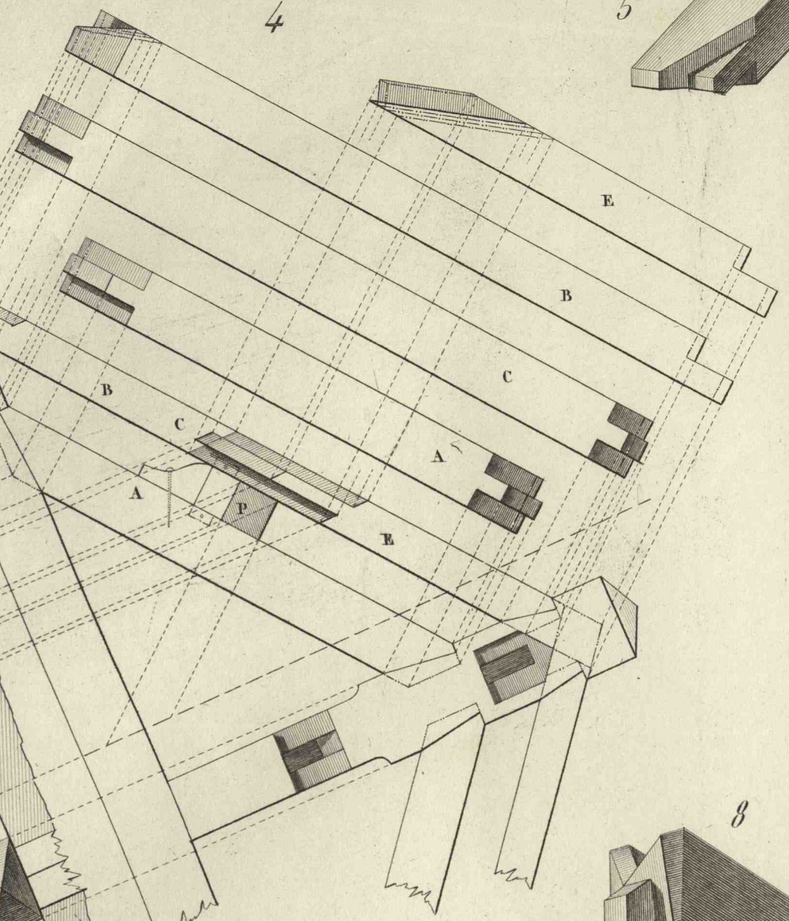
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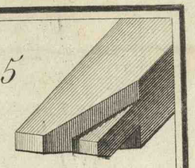
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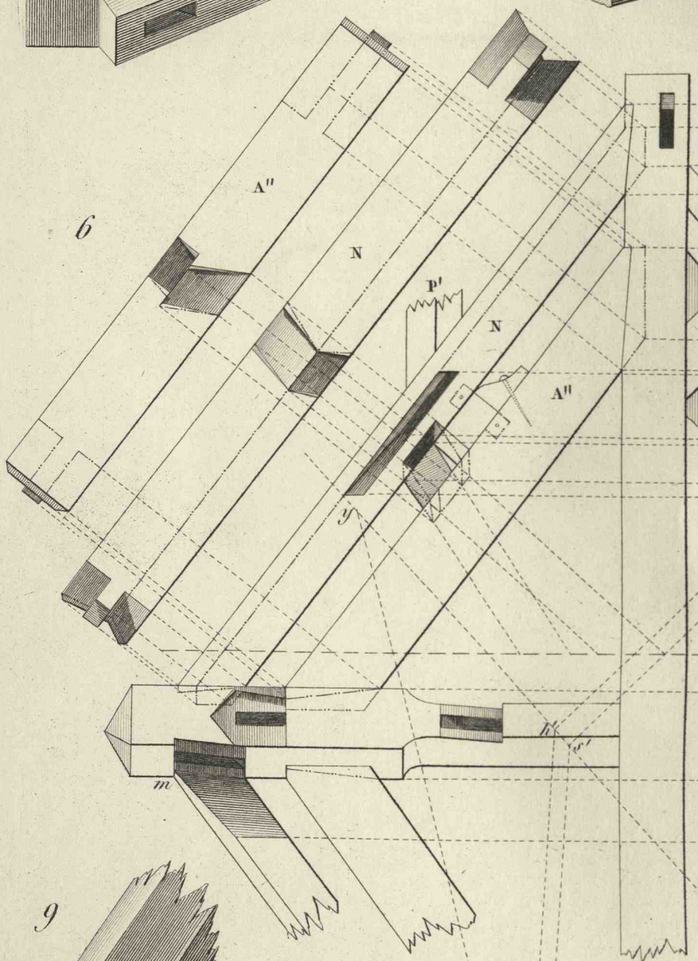
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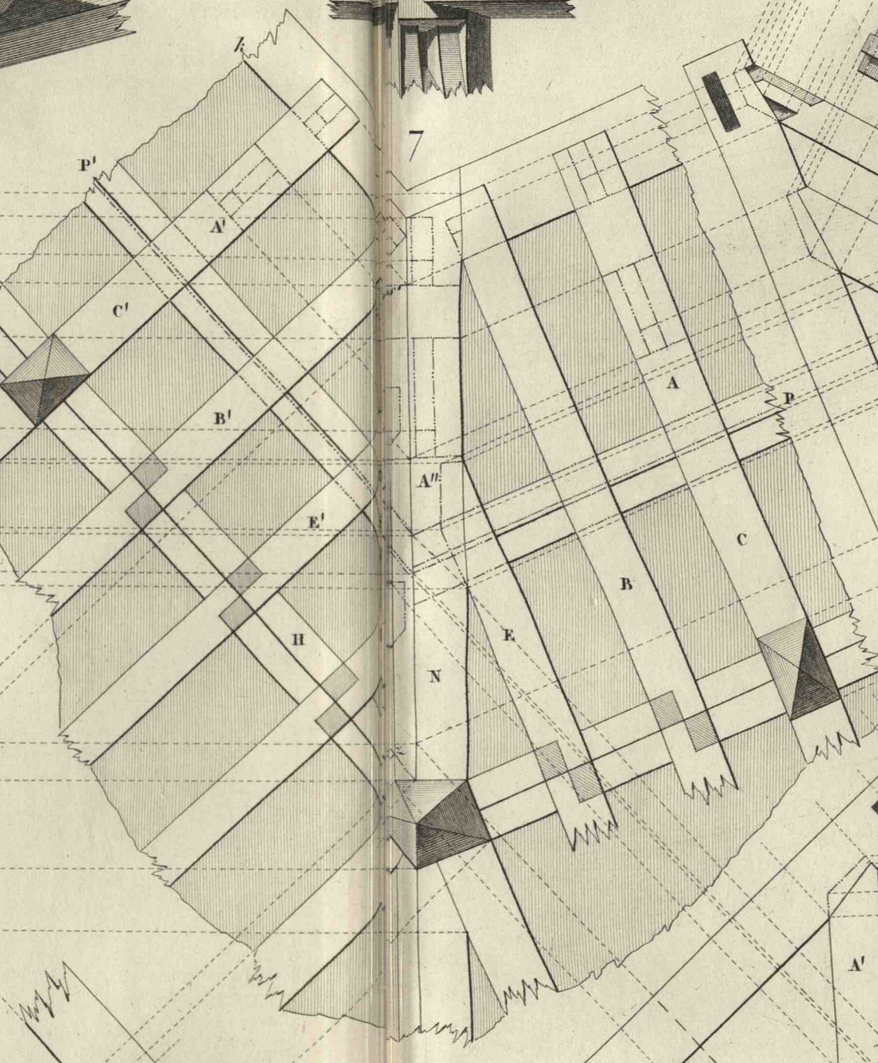
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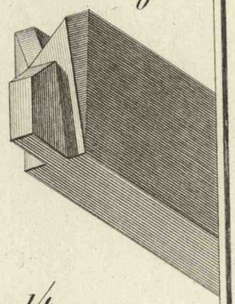
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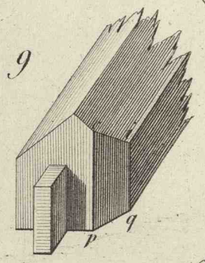
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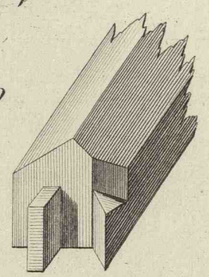
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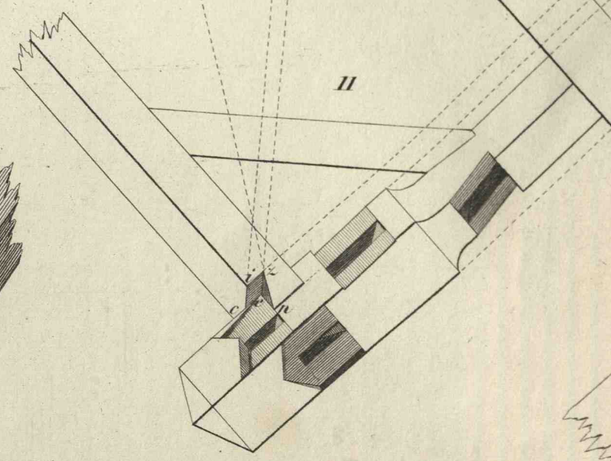
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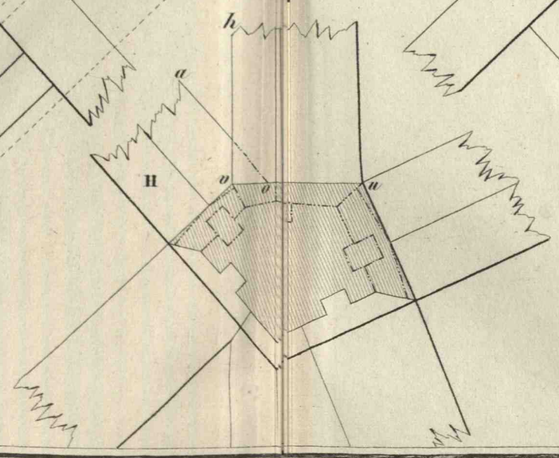
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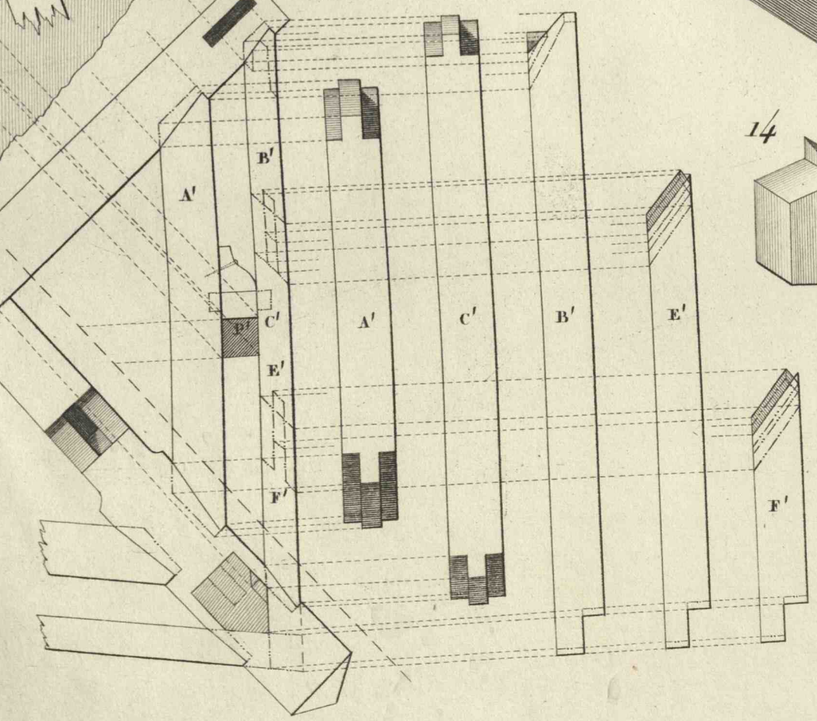
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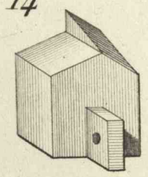
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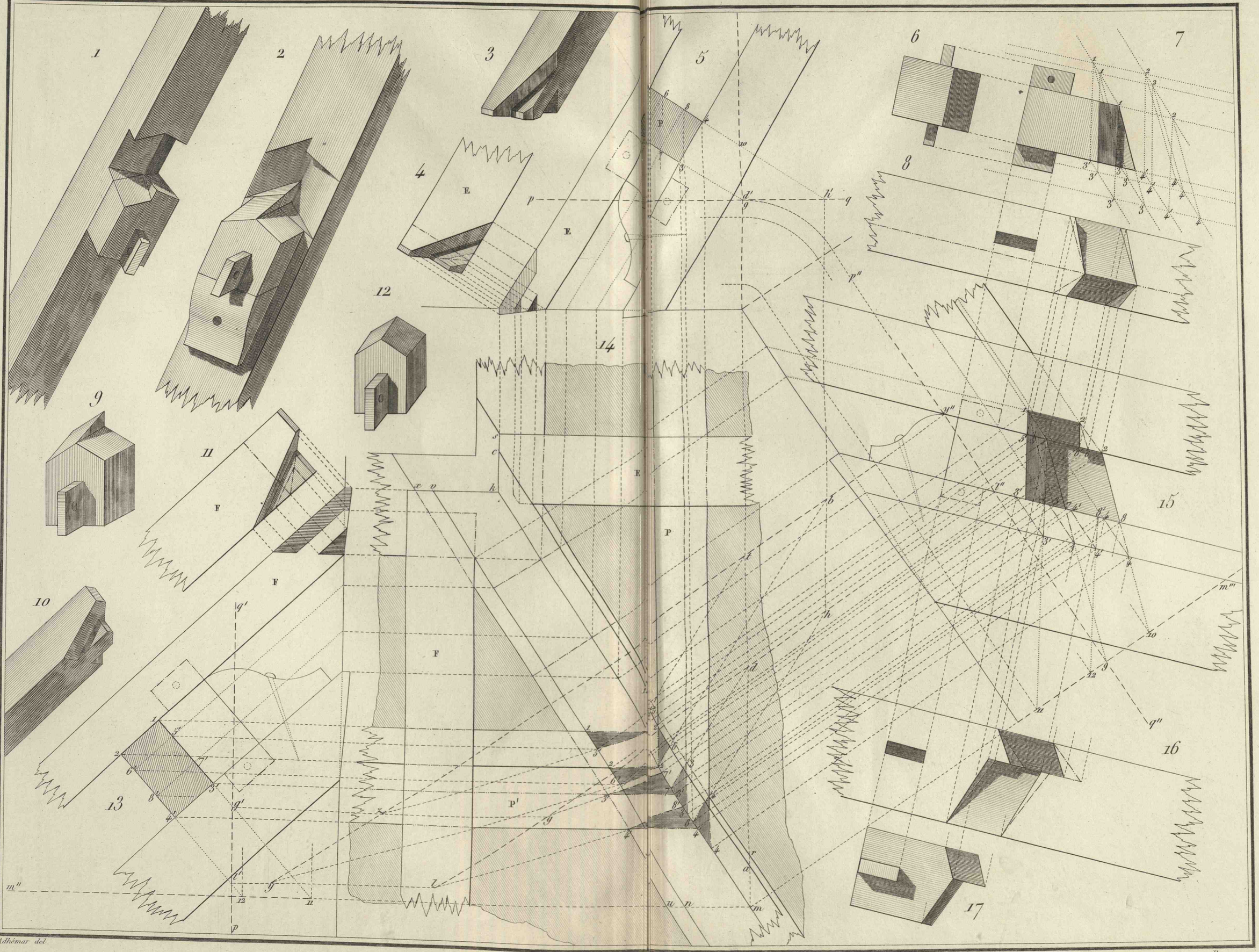
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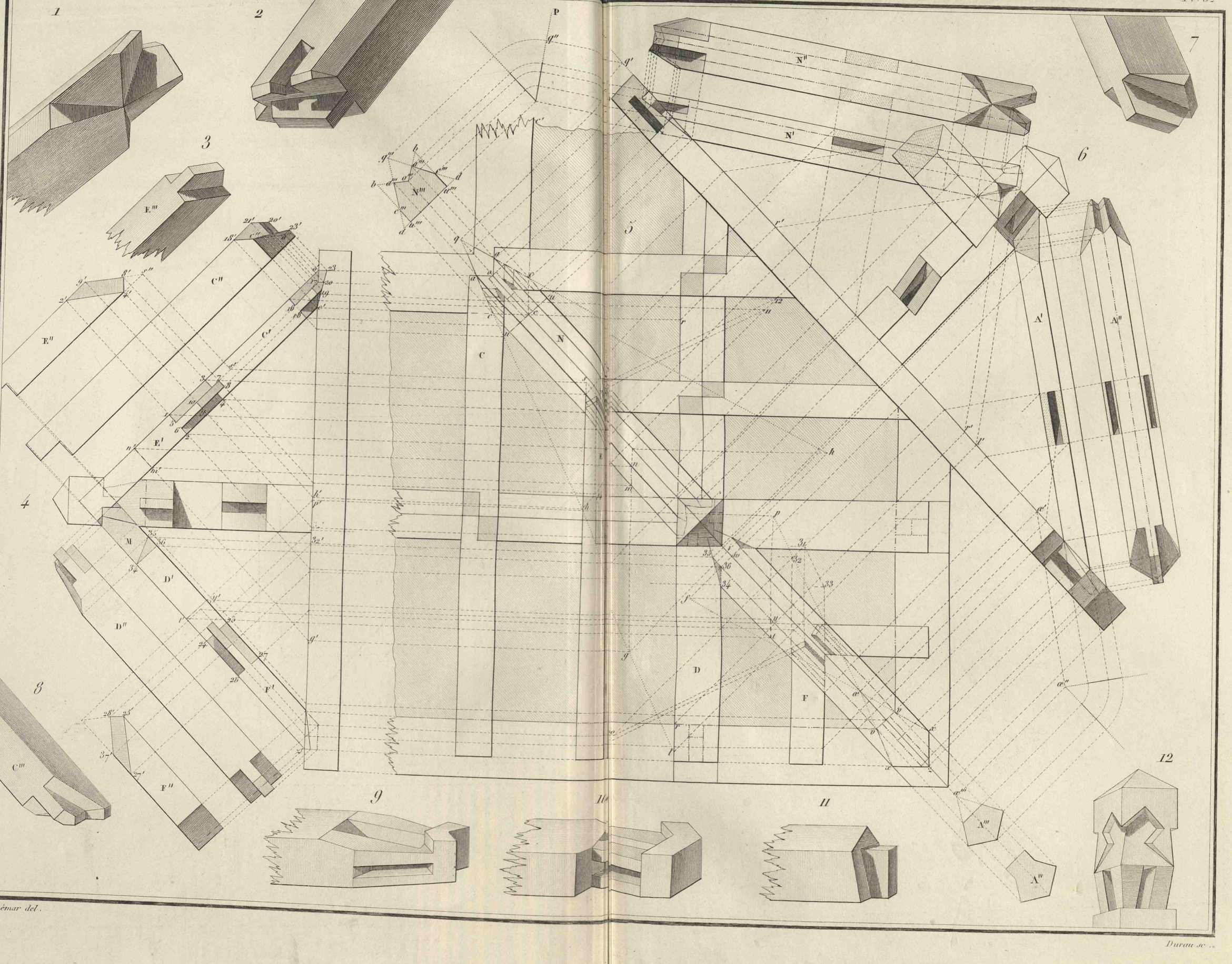
14



Pannes et taux de noue



Arêtier et Noue à faces déversées



Etude d'embrèvements

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Adhémar del.

Durau sc.

Etude d'embrevements.

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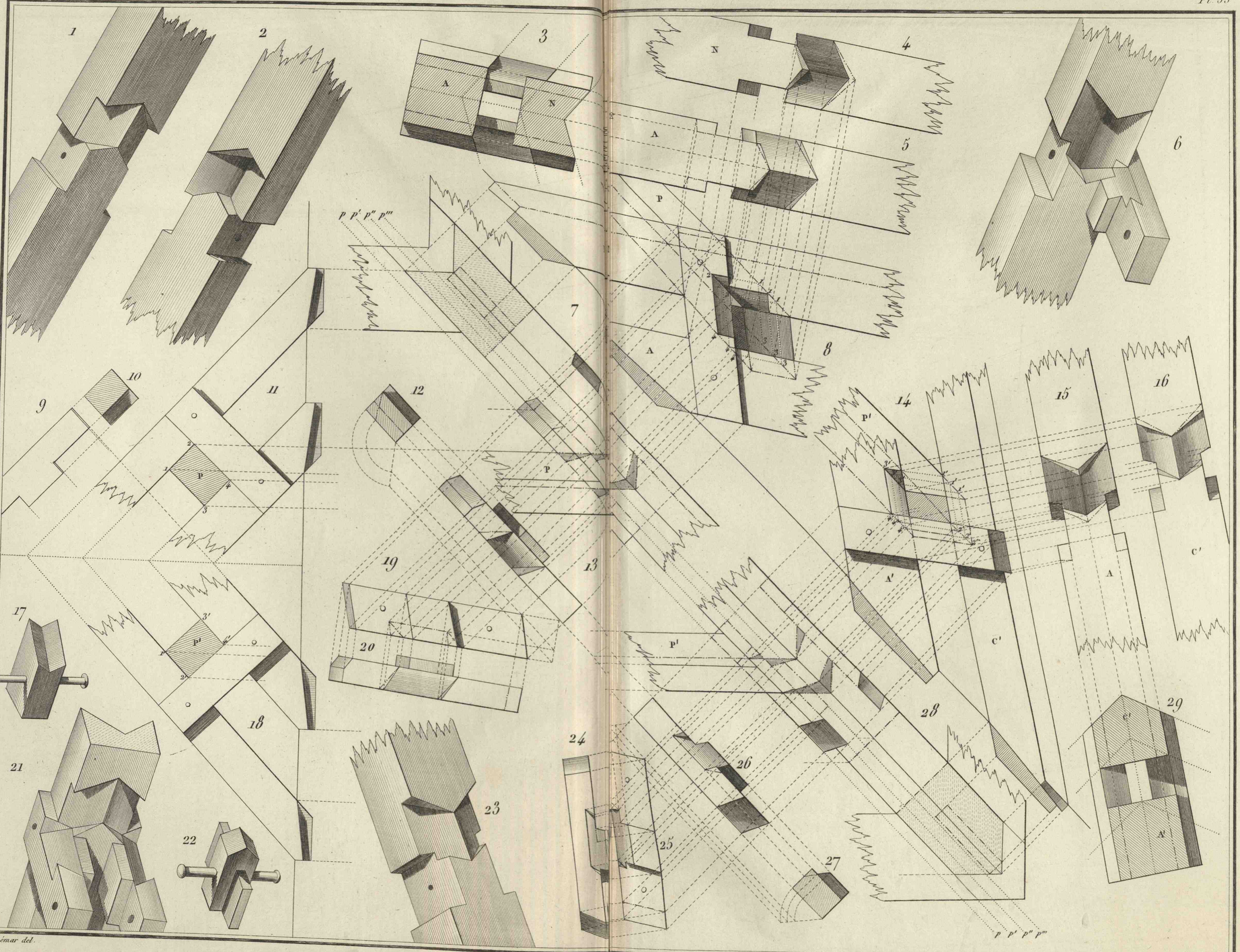
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Adhémar del.

Durau sc.

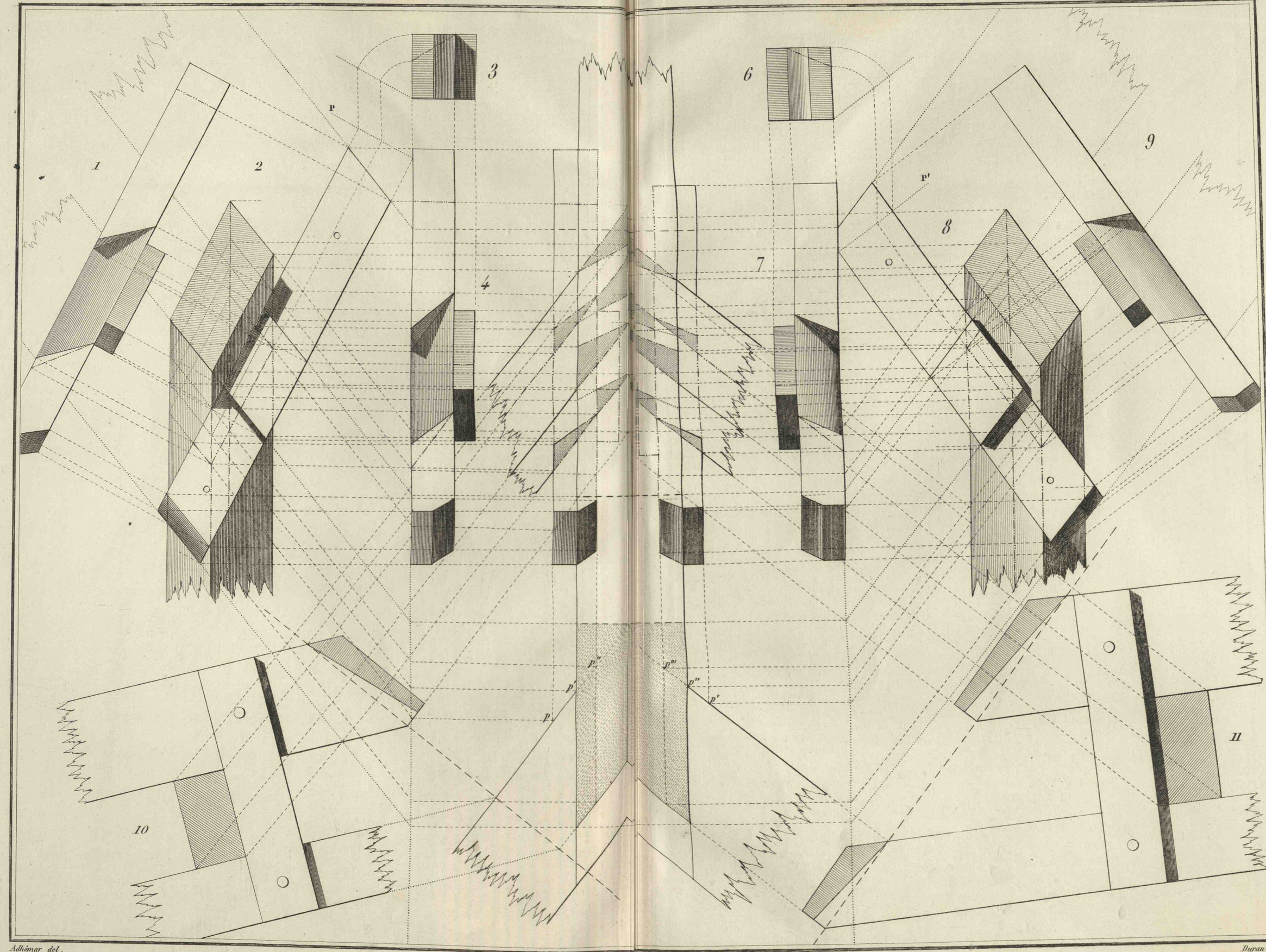
Fermes moisées



Adhémar del.

Durau sc.

Etude des moises



Adhémar del.

Durau sc.

Salet

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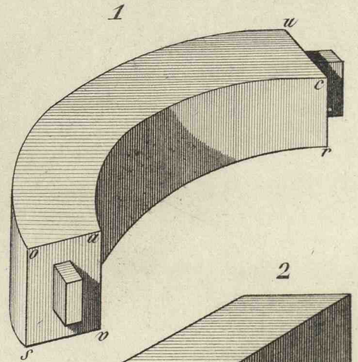
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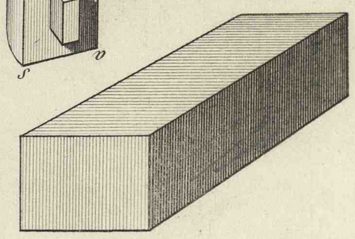
Durau sculp.

Bois courbes

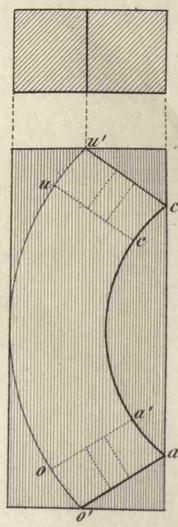
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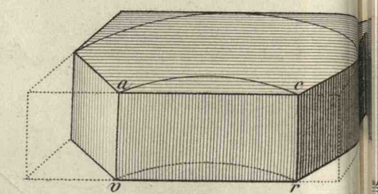


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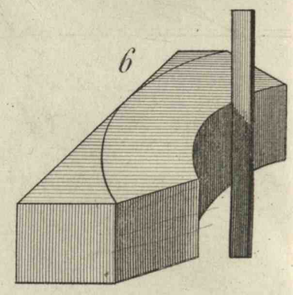


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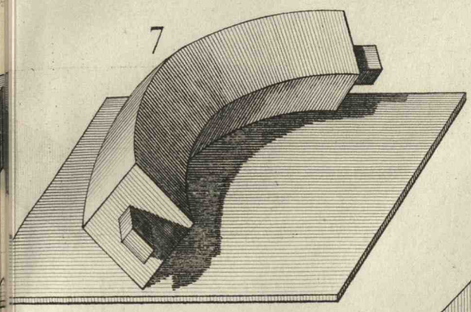
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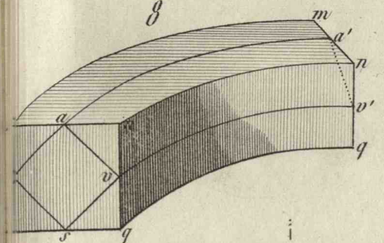
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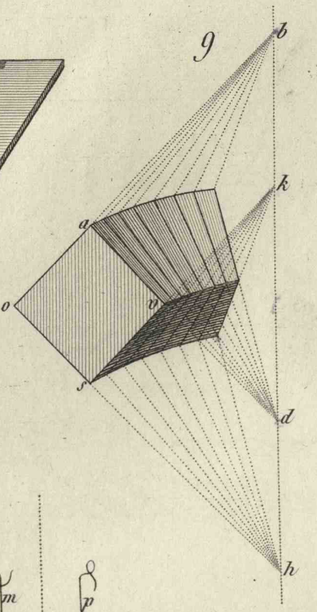
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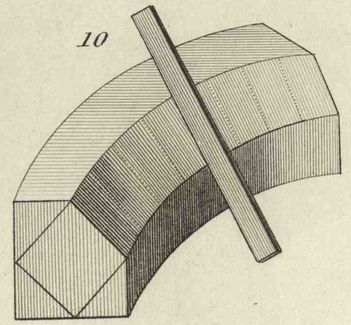
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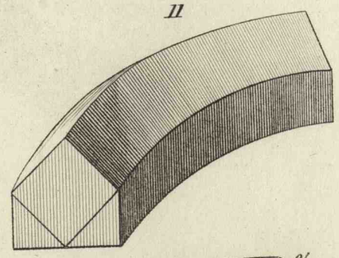
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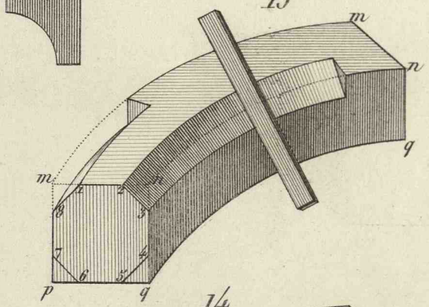
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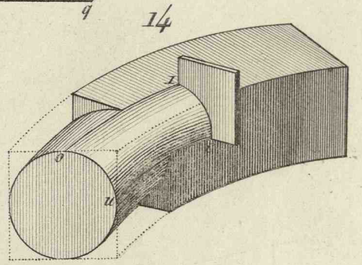
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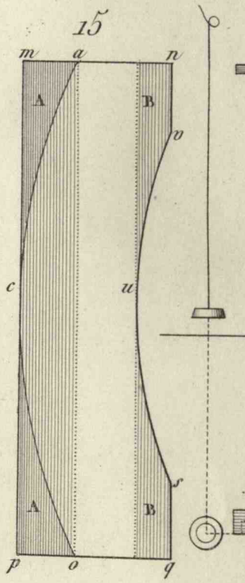
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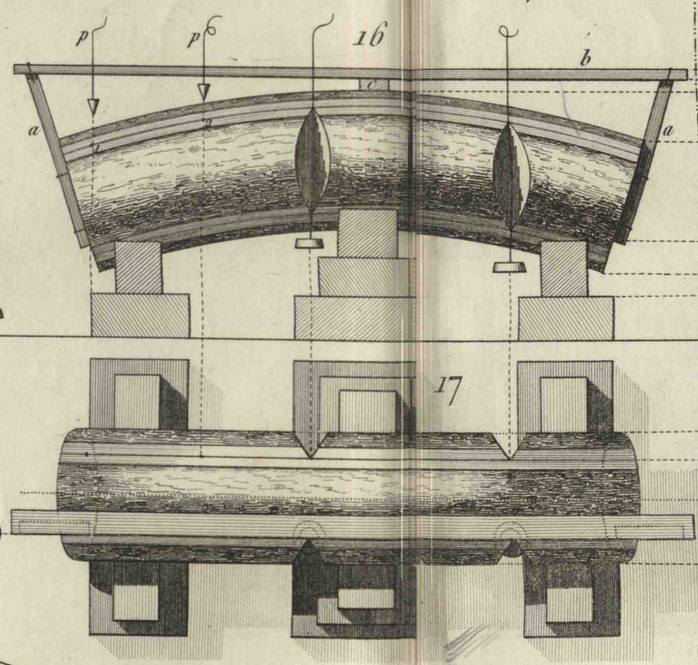
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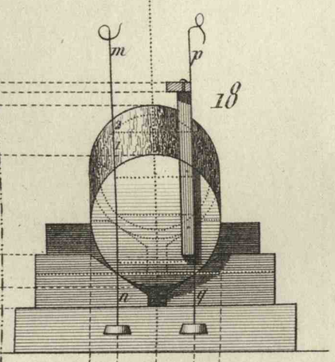


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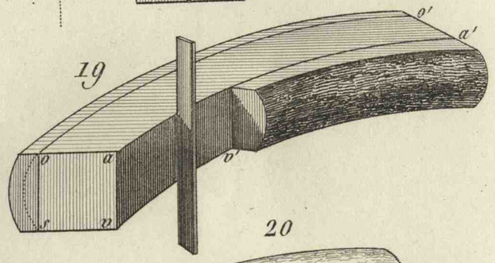


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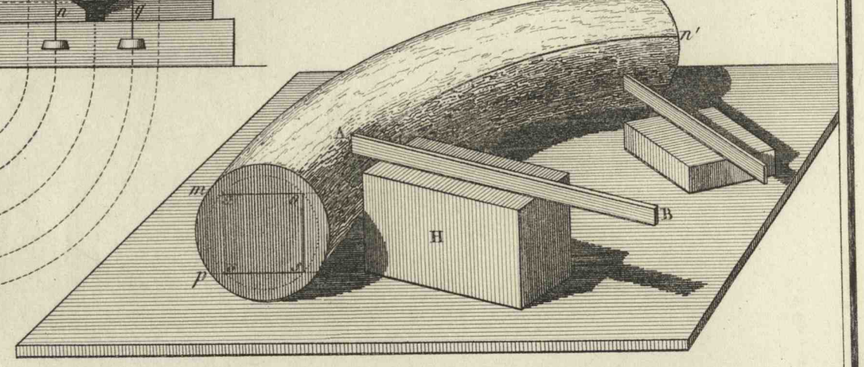
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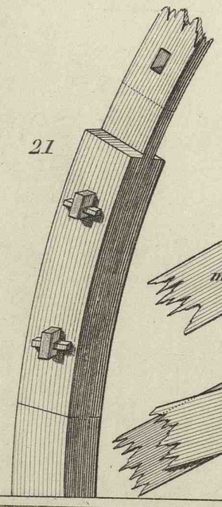
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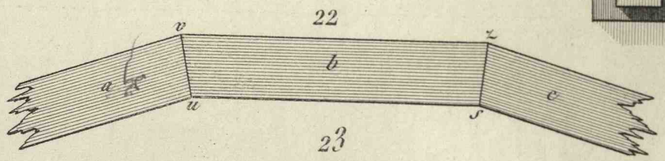
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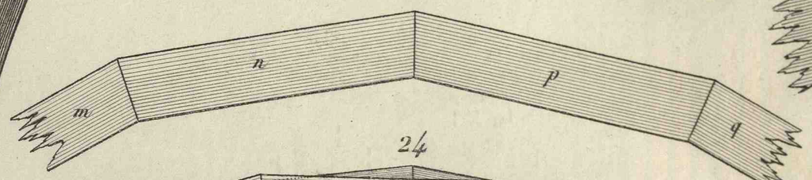
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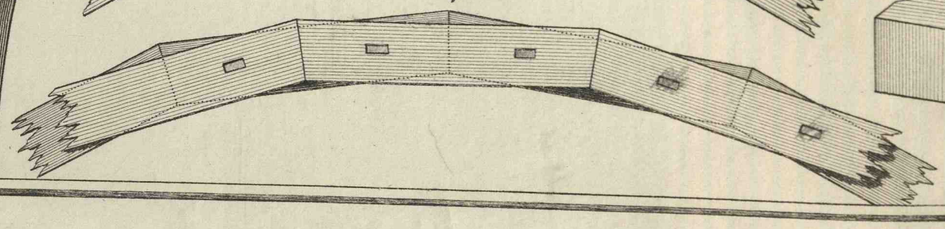
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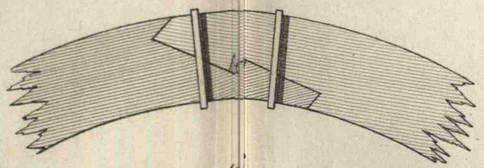
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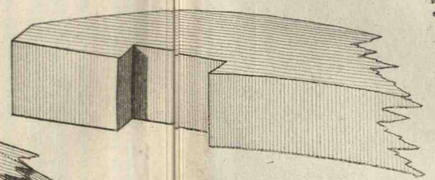
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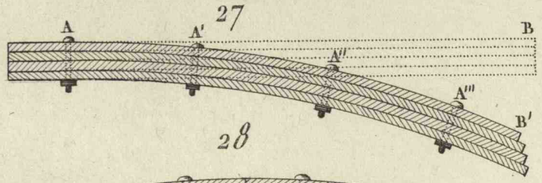
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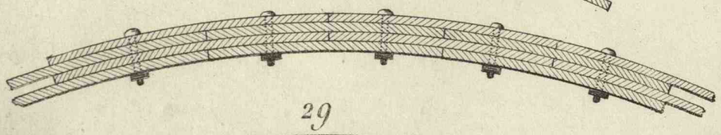
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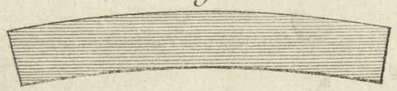
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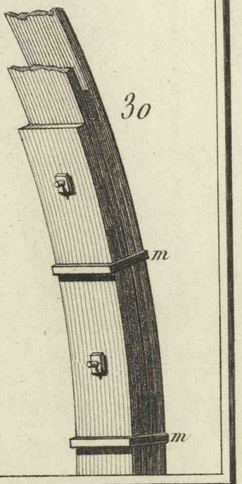
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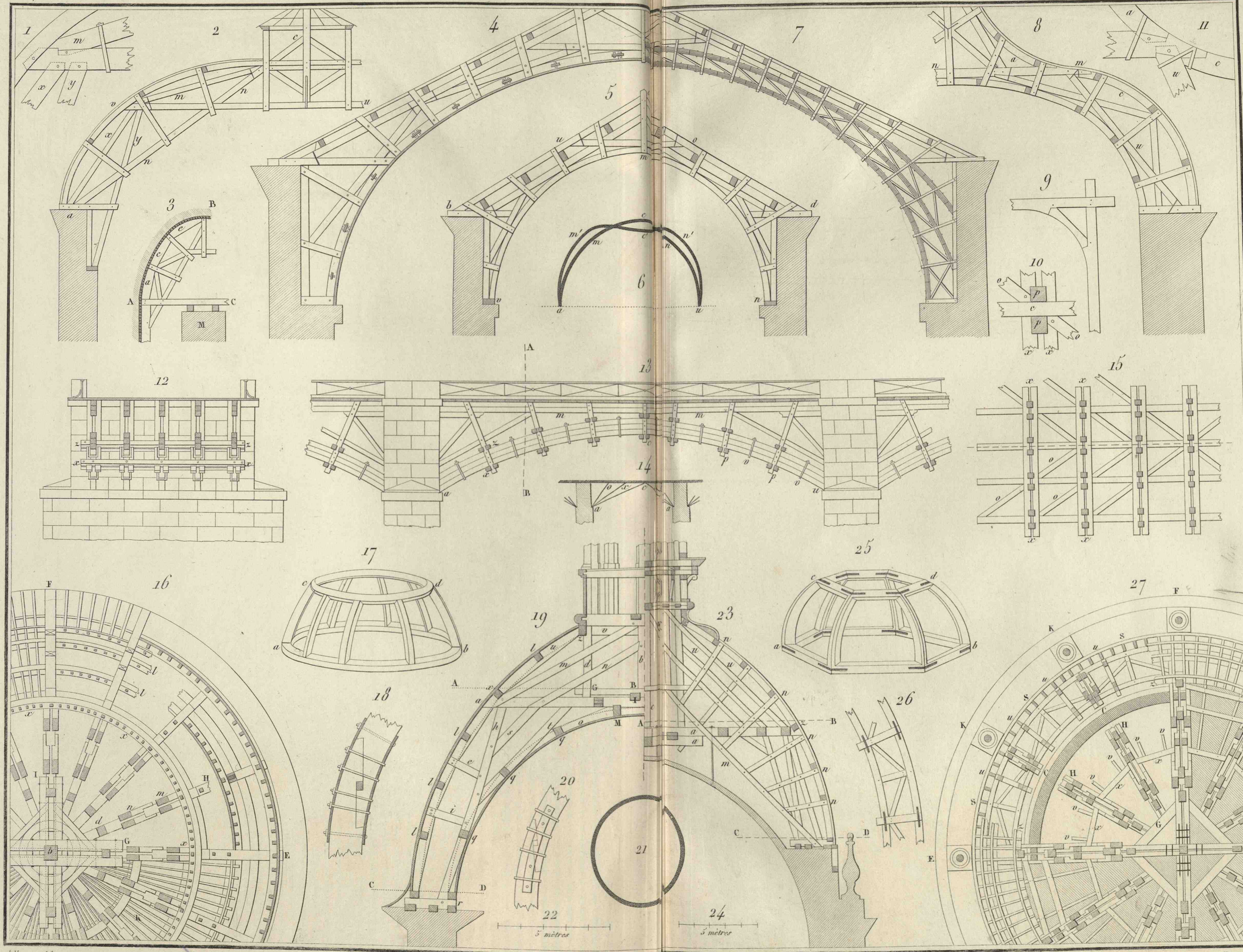
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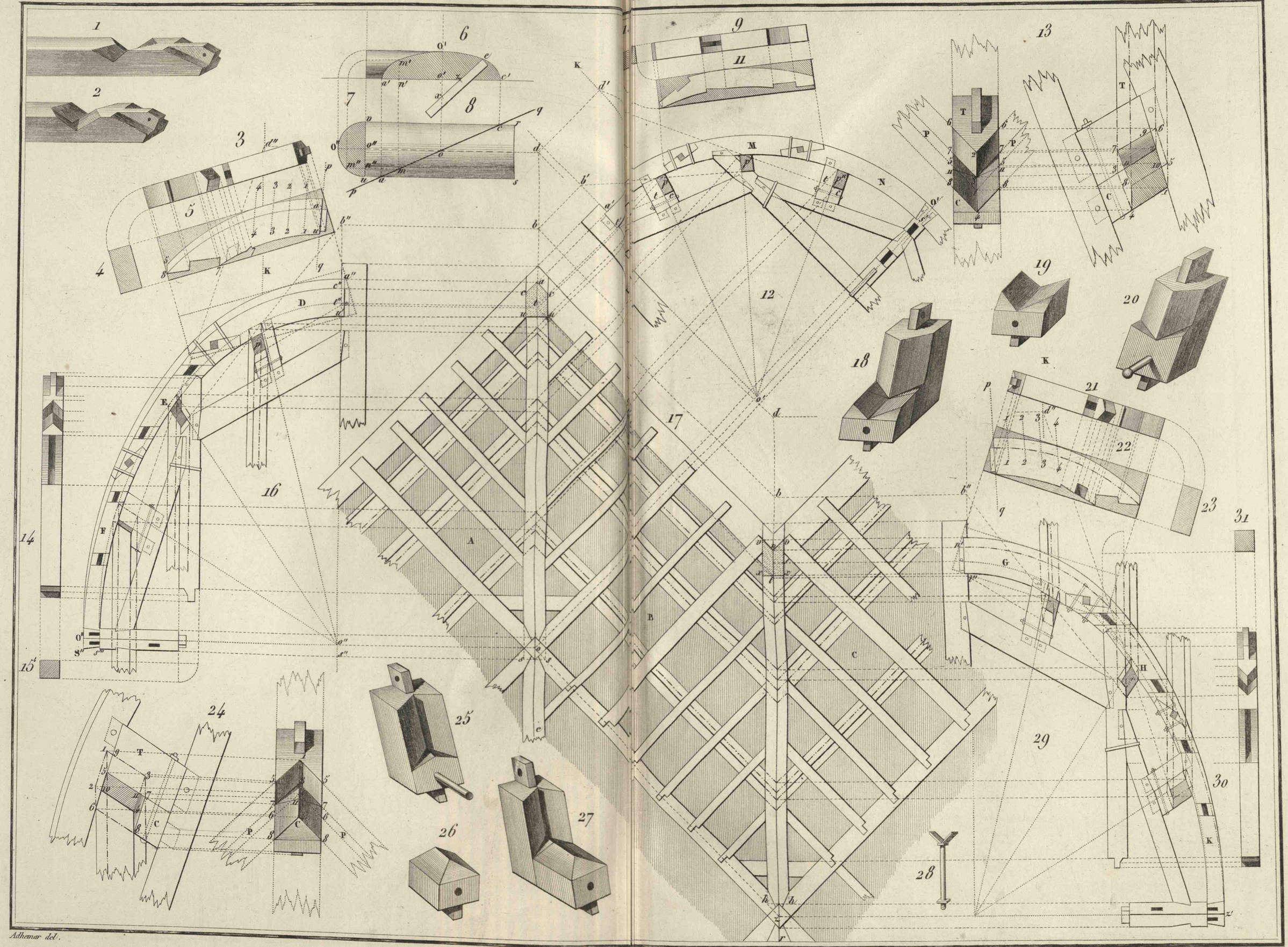
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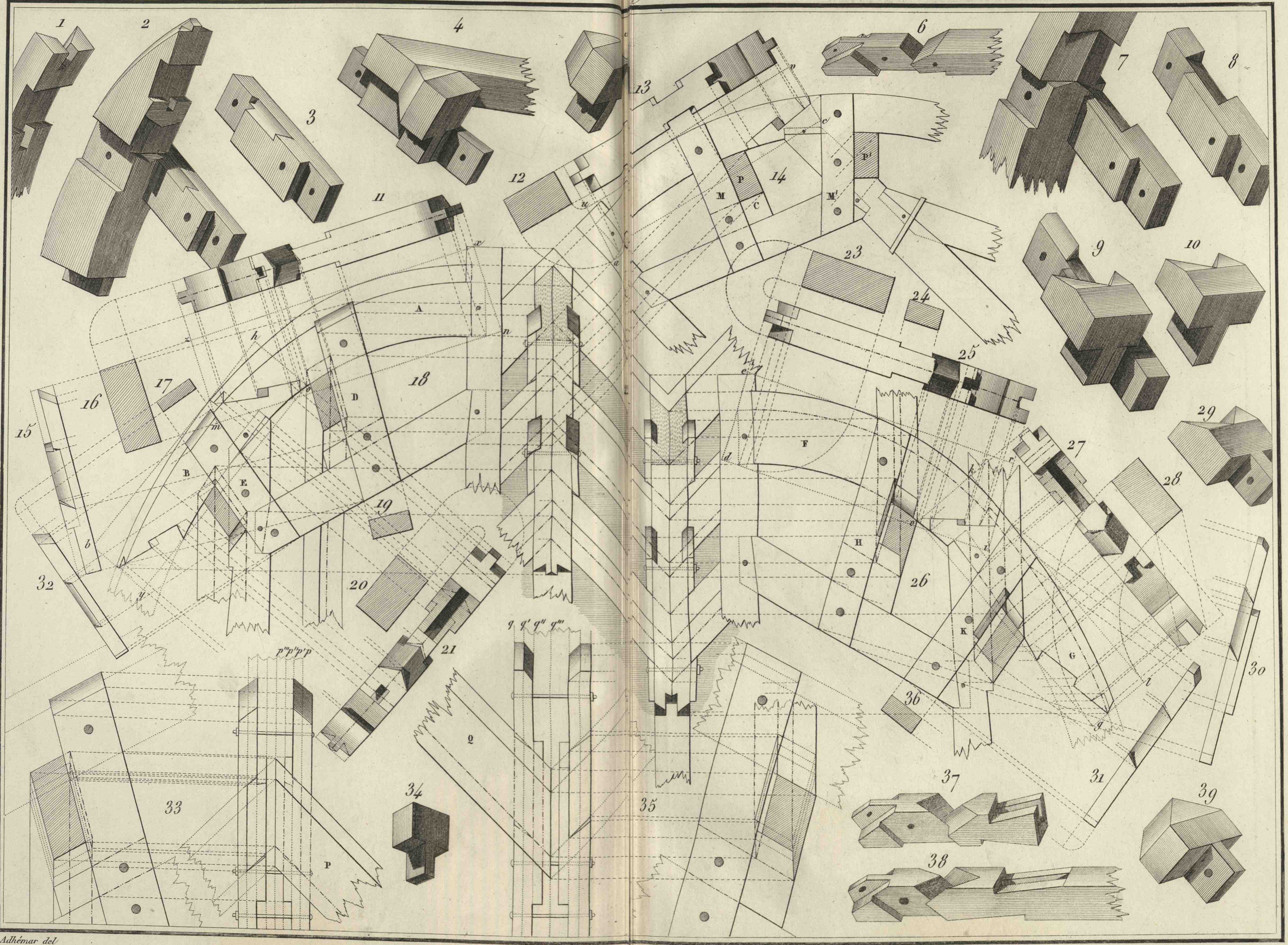
Adjemar del.

Durau sc.

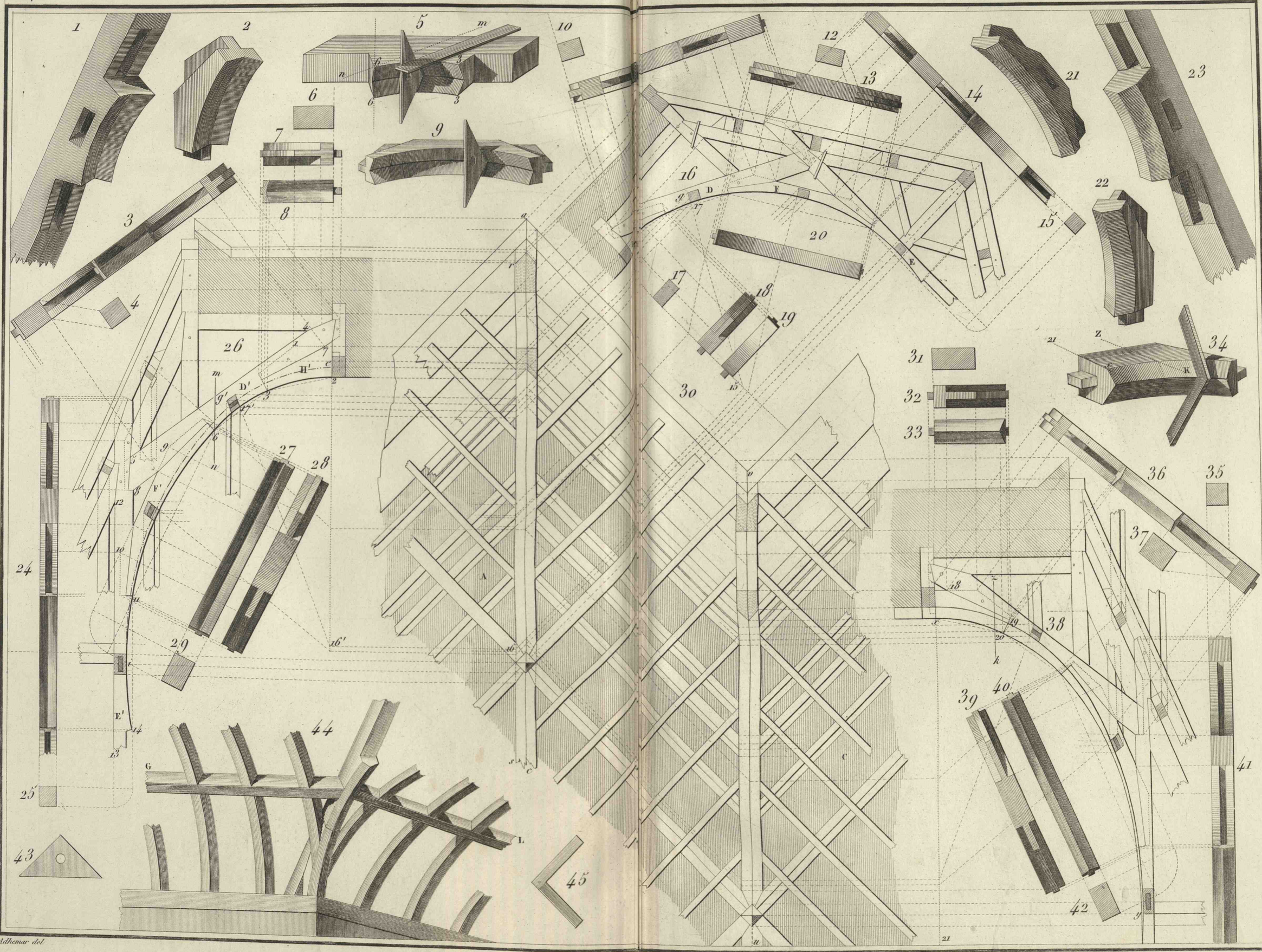
Berceaux cylindriques



Berceaux cylindriques



Berceaux cylindriques



Stabilité des Fermes et des Berceaux

Fig. 1

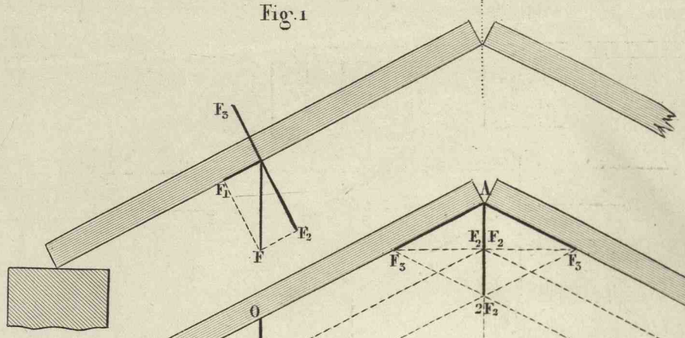


Fig. 4

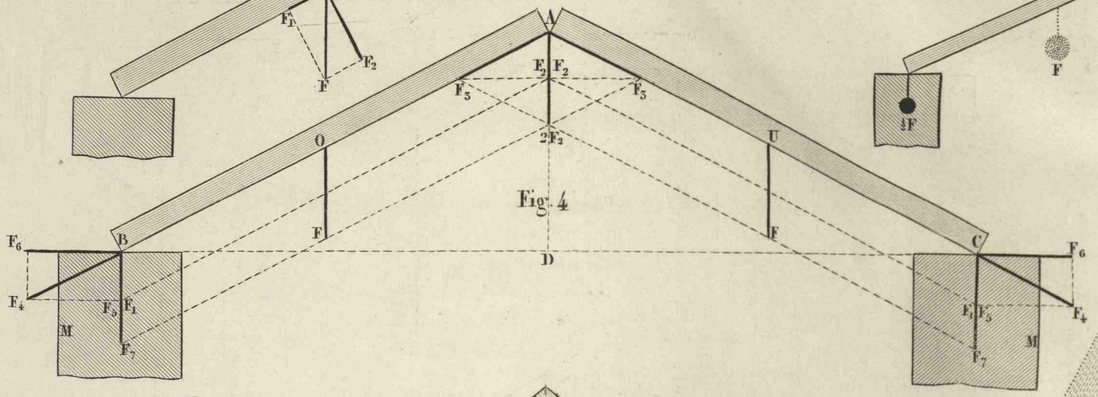
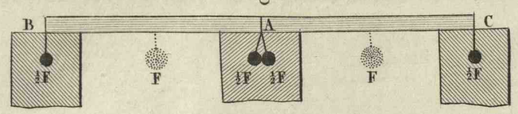


Fig. 3



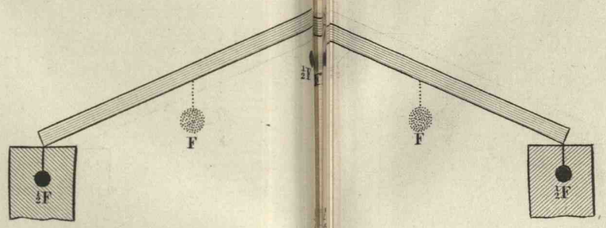


Fig. 5

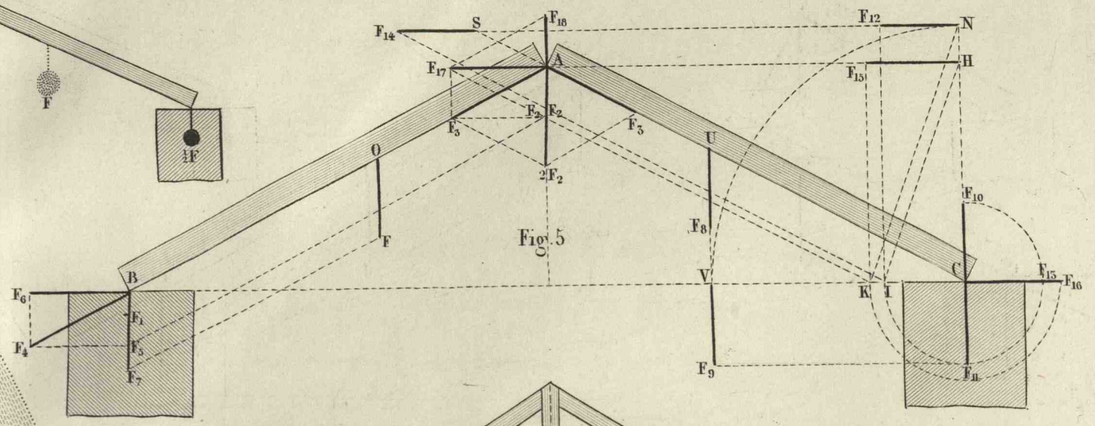
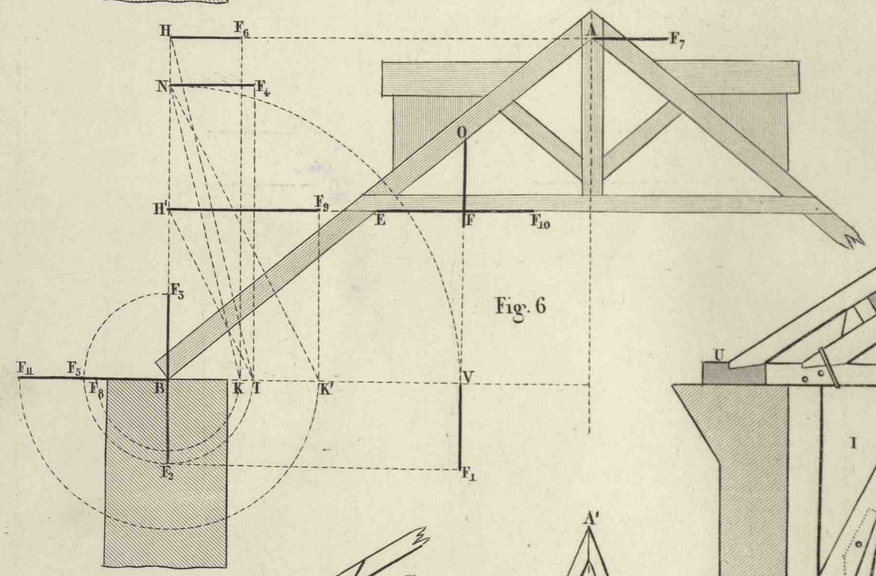


Fig. 6



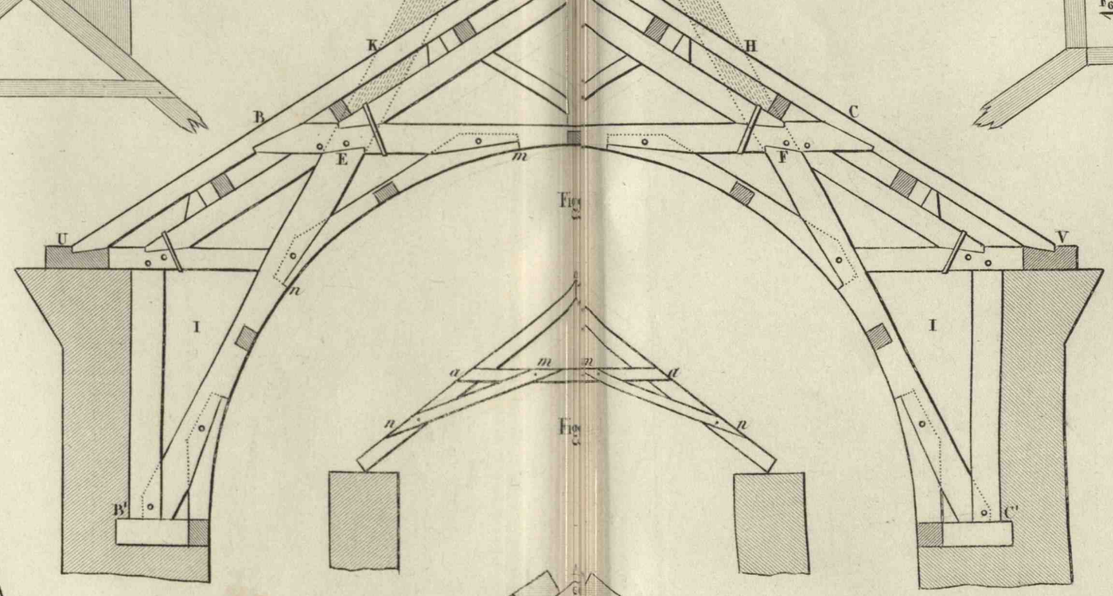


Fig. 8

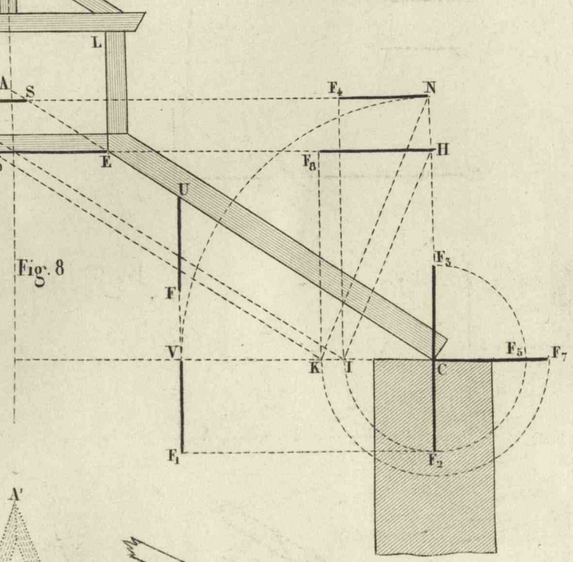


Fig. 10

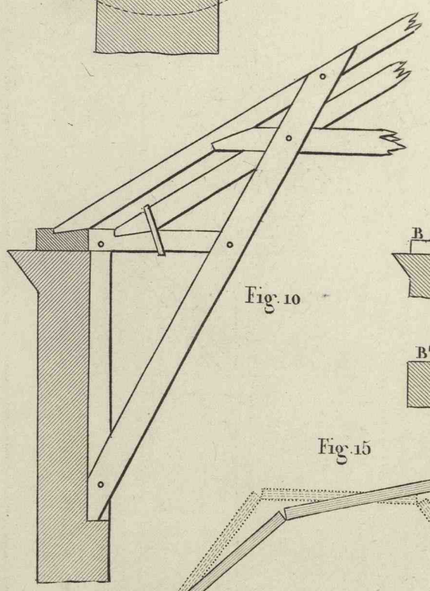


Fig. 11

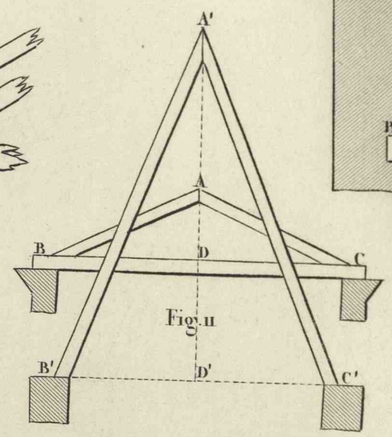


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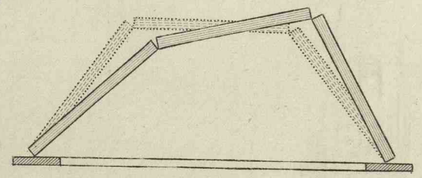


Fig. 16

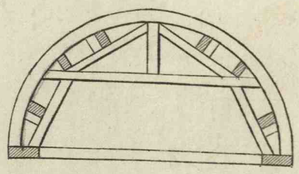


Fig. 17



Fig. 18

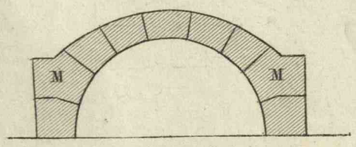


Fig. 13

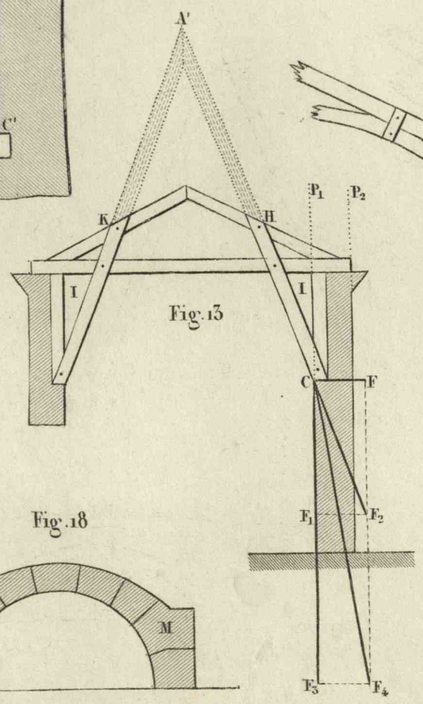
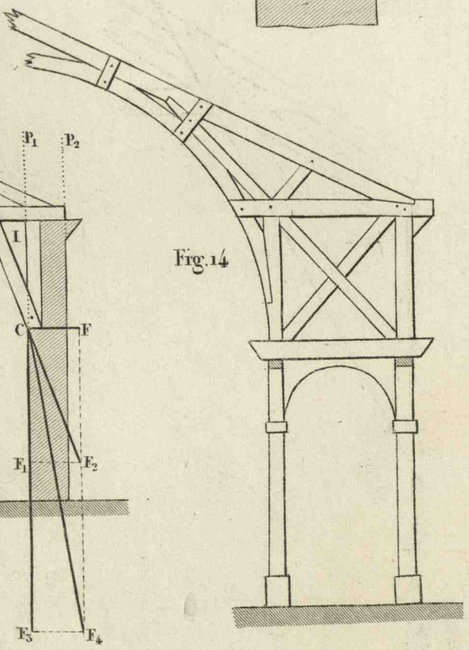


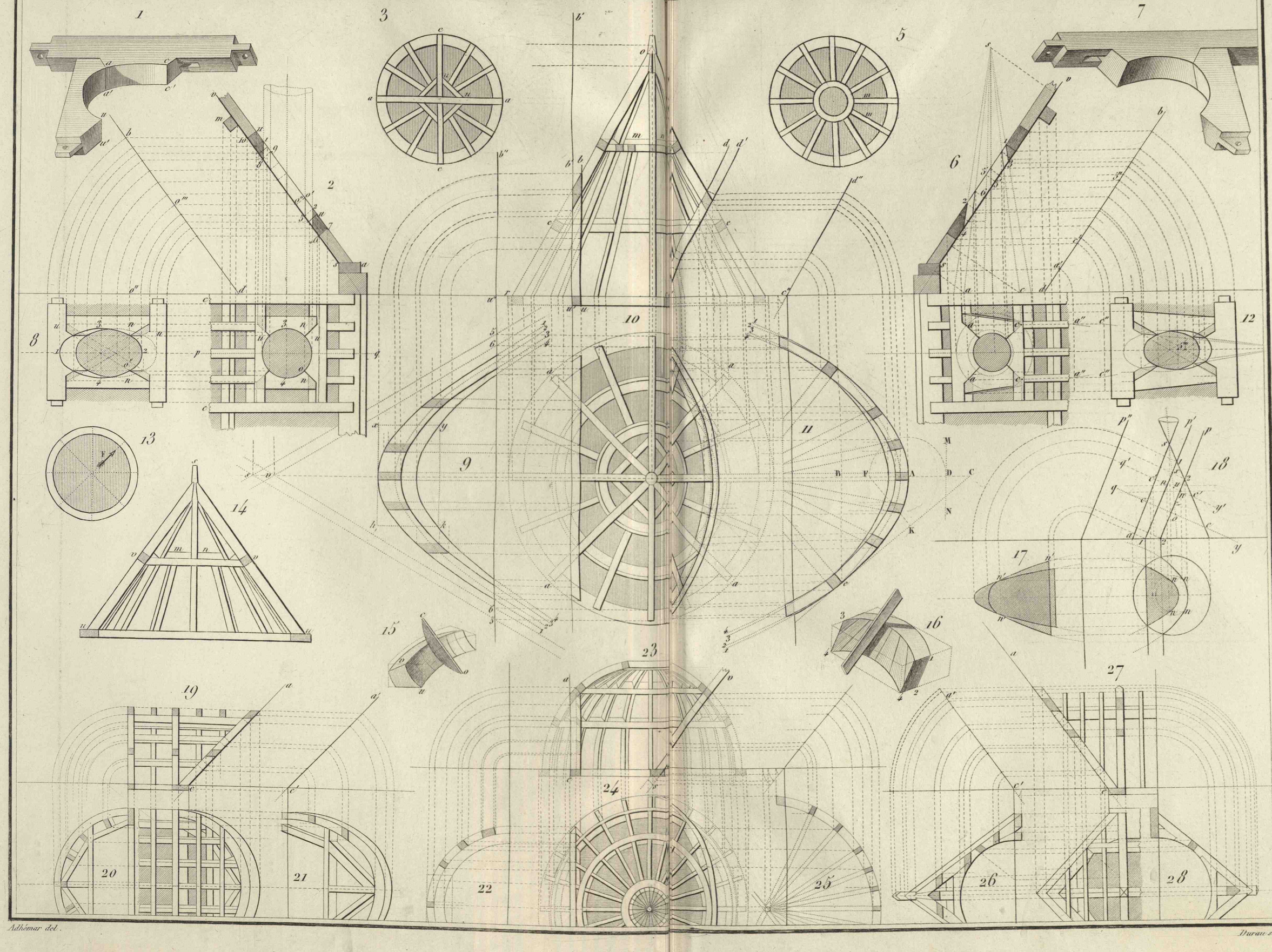
Fig. 14



Imp. A. Chardon, 3me r. Racine, 3. Paris.

Adhémar del.

Courbes planes.



Noulets cylindriques et coniques

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

Adhémar del. Durau sc.

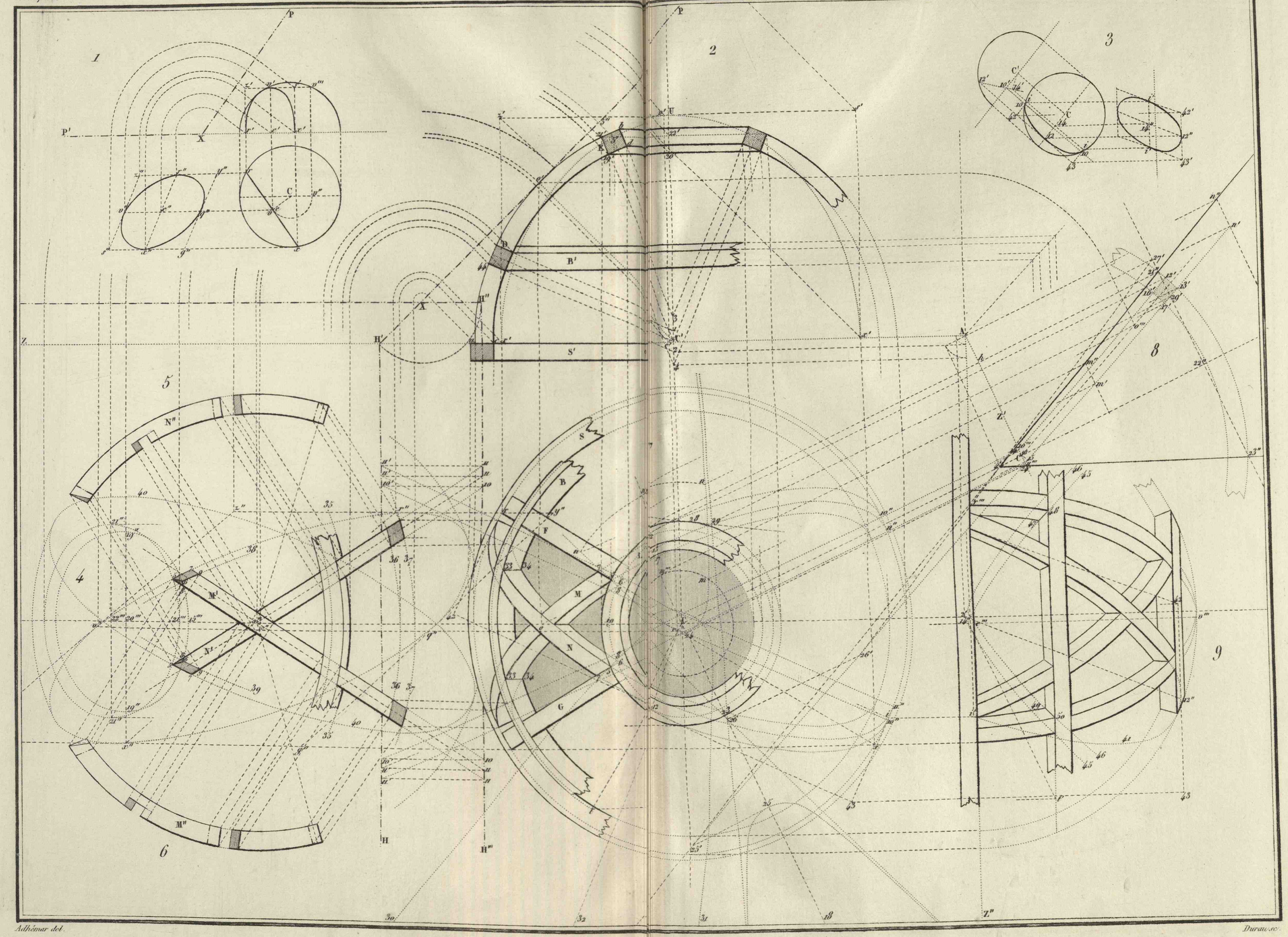
Noulets sphériques.

1 2 3 5 6 7 8 9 10 12 13 14 15 16 17 18

Croix de St. André

Pl. 47.

Charpente.



Adhémar del.

Durau sc.

Croix de S.t André

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Adhémar del.

Durau sc.

STABILITÉ DES COMBLES CÔNIQUES, DÔMES ET COUPOLES — CIRQ

Fig. 1

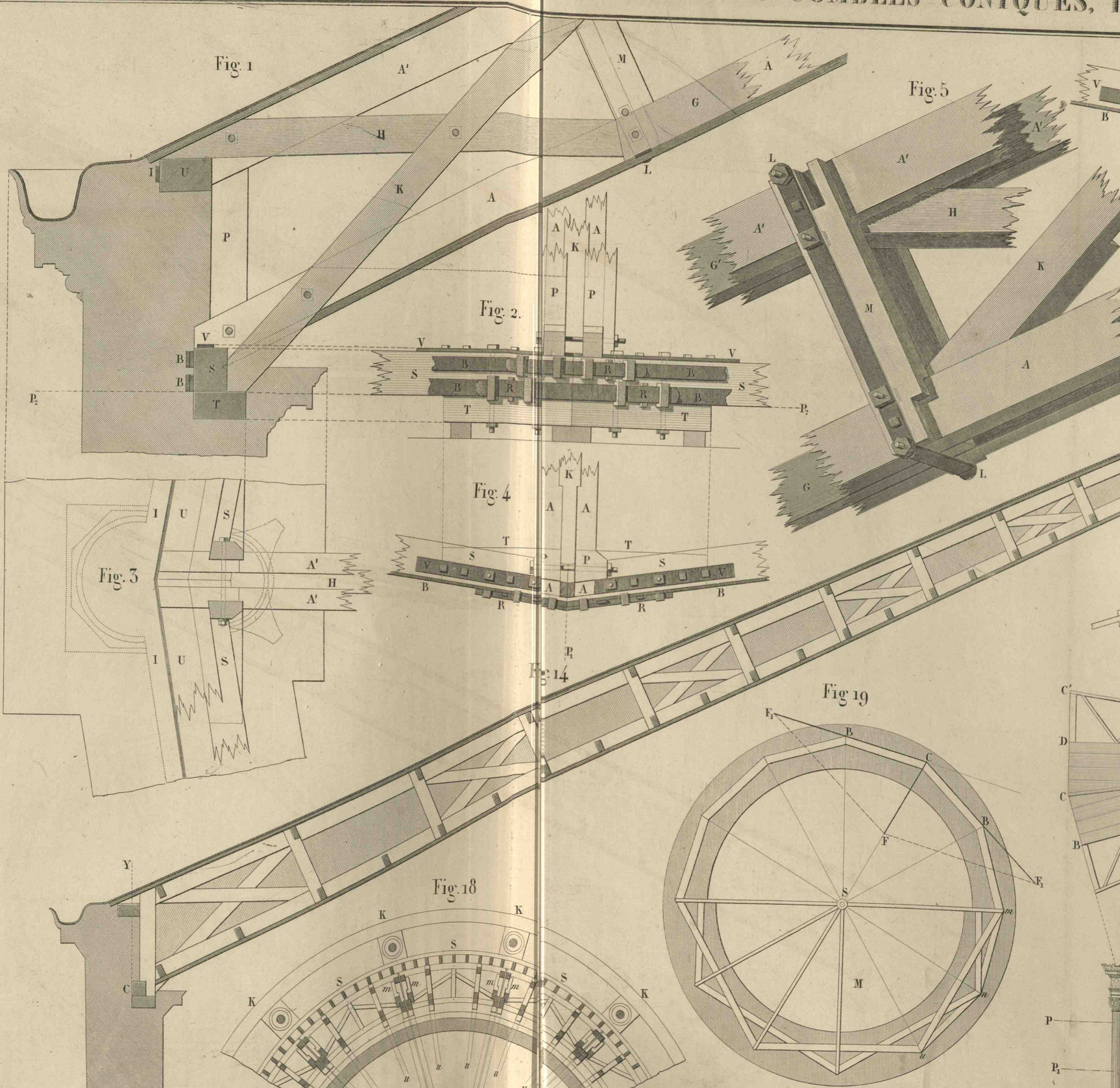


Fig. 2.

Fig. 3

Fig. 4

Fig. 5

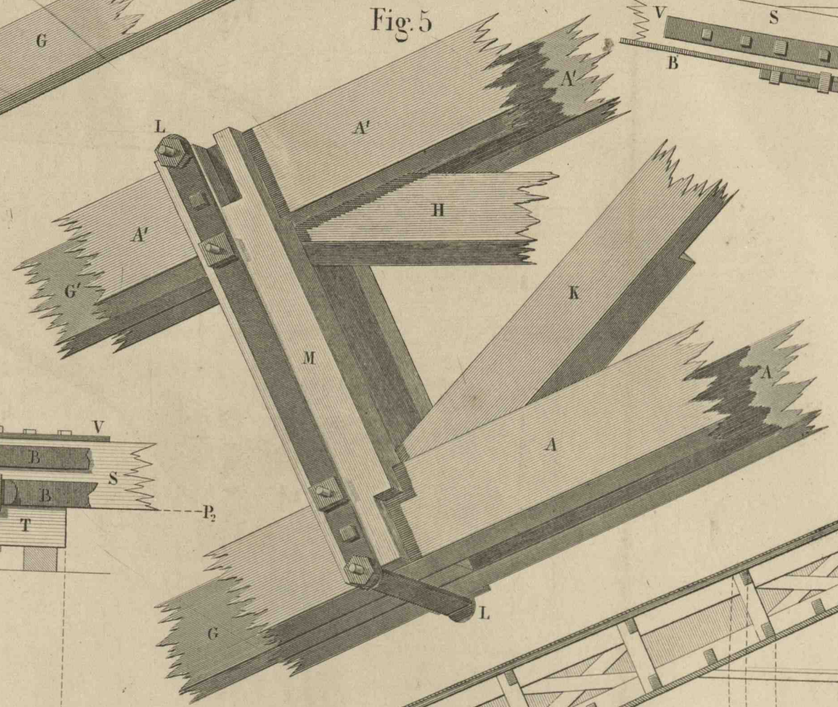


Fig. 6

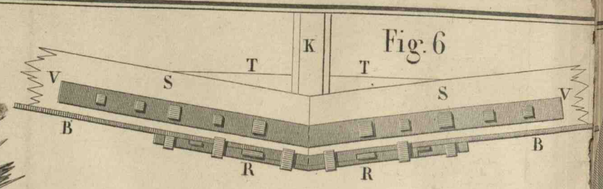


Fig. 13

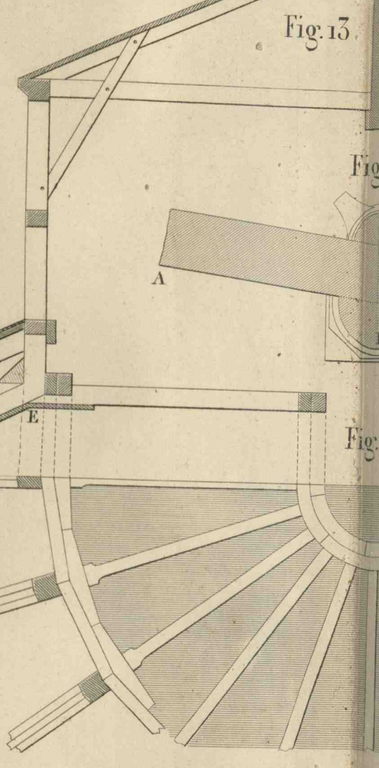


Fig. 14

Fig. 16

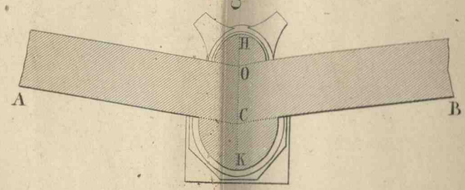


Fig. 17

Fig. 18

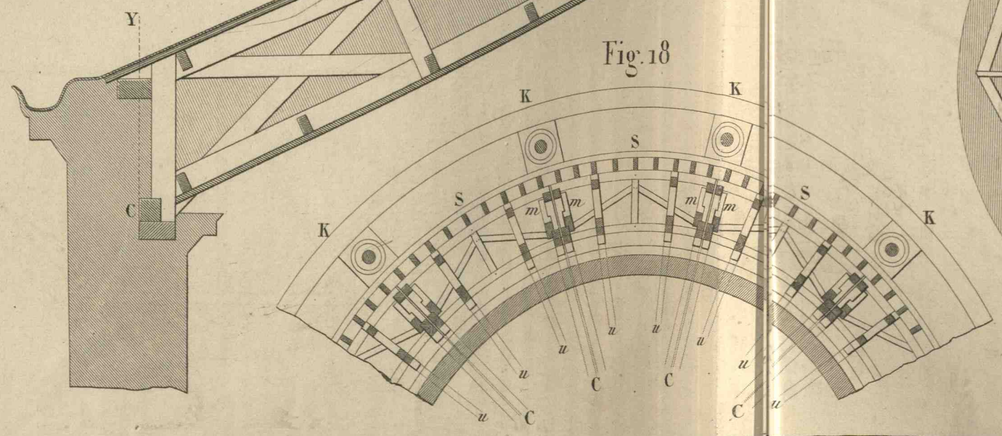


Fig. 19

Fig. 21

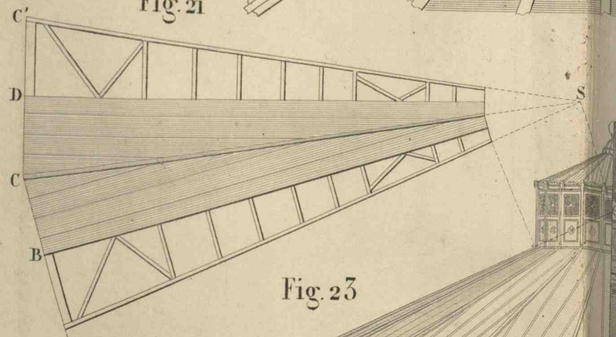
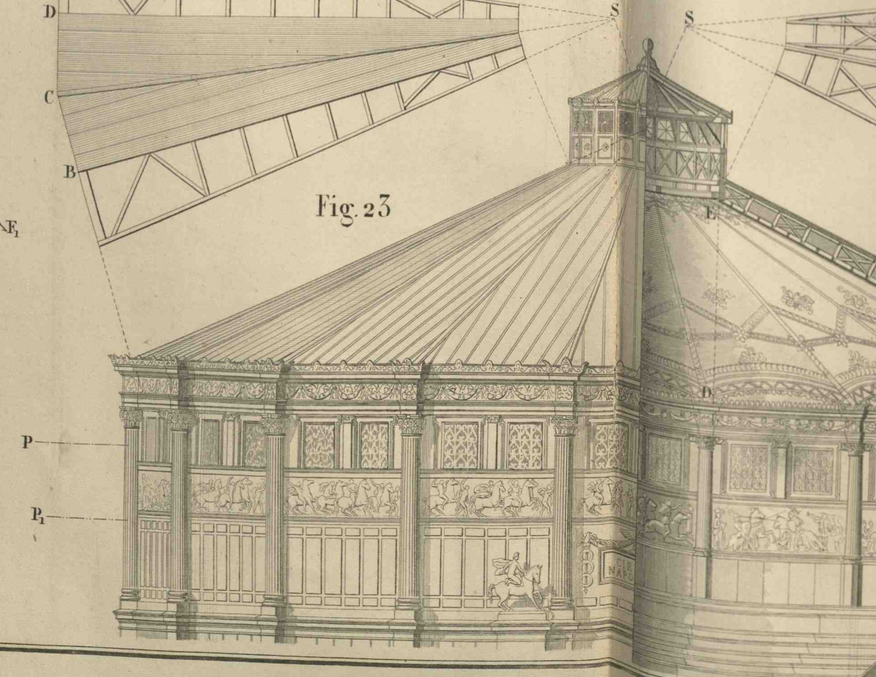


Fig. 23



Guiguet fils sc.

UE NAPOLÉON, CHARPENTE DU COMBLE

Fig. 7

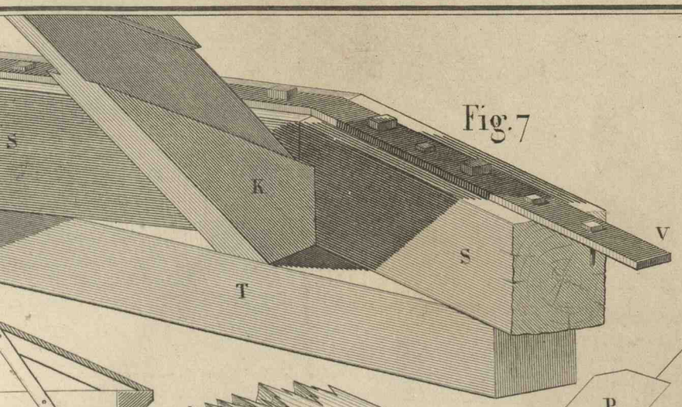


Fig. 8

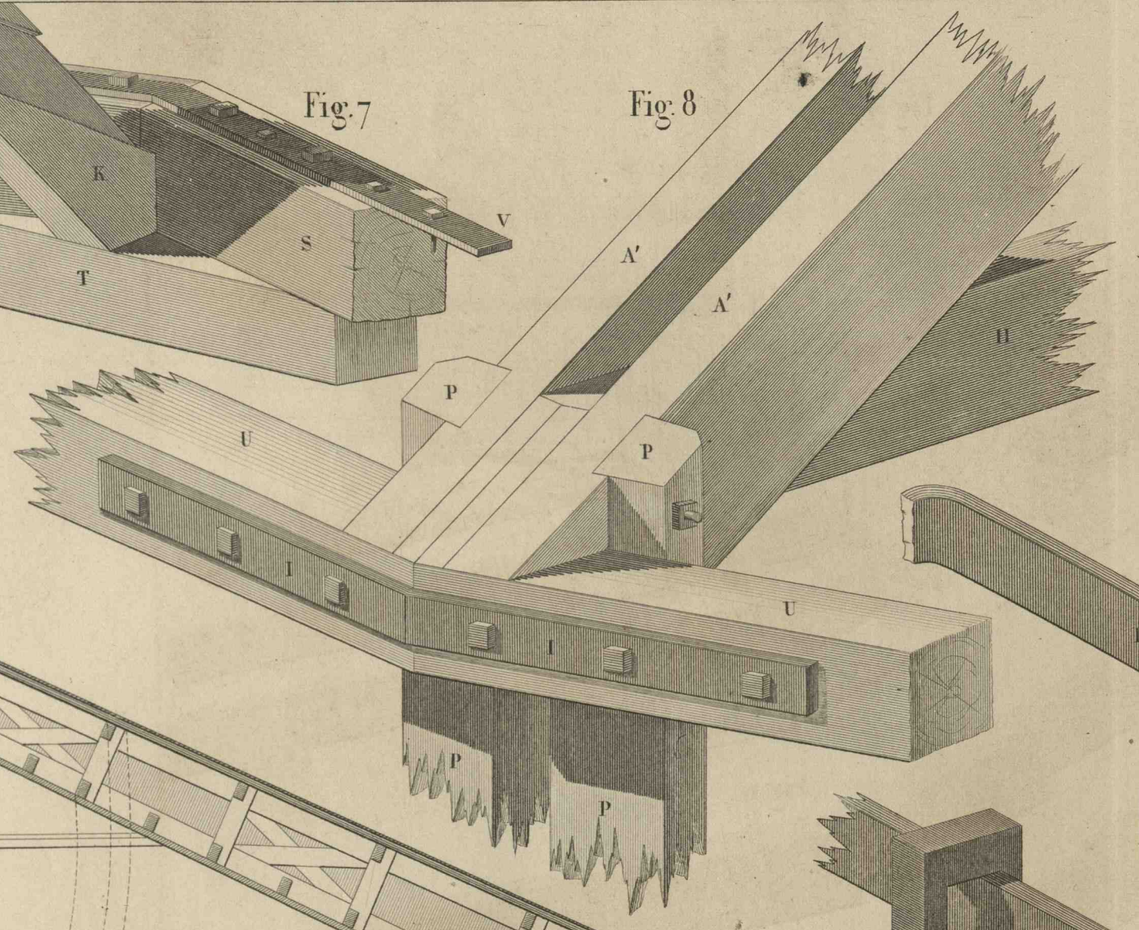
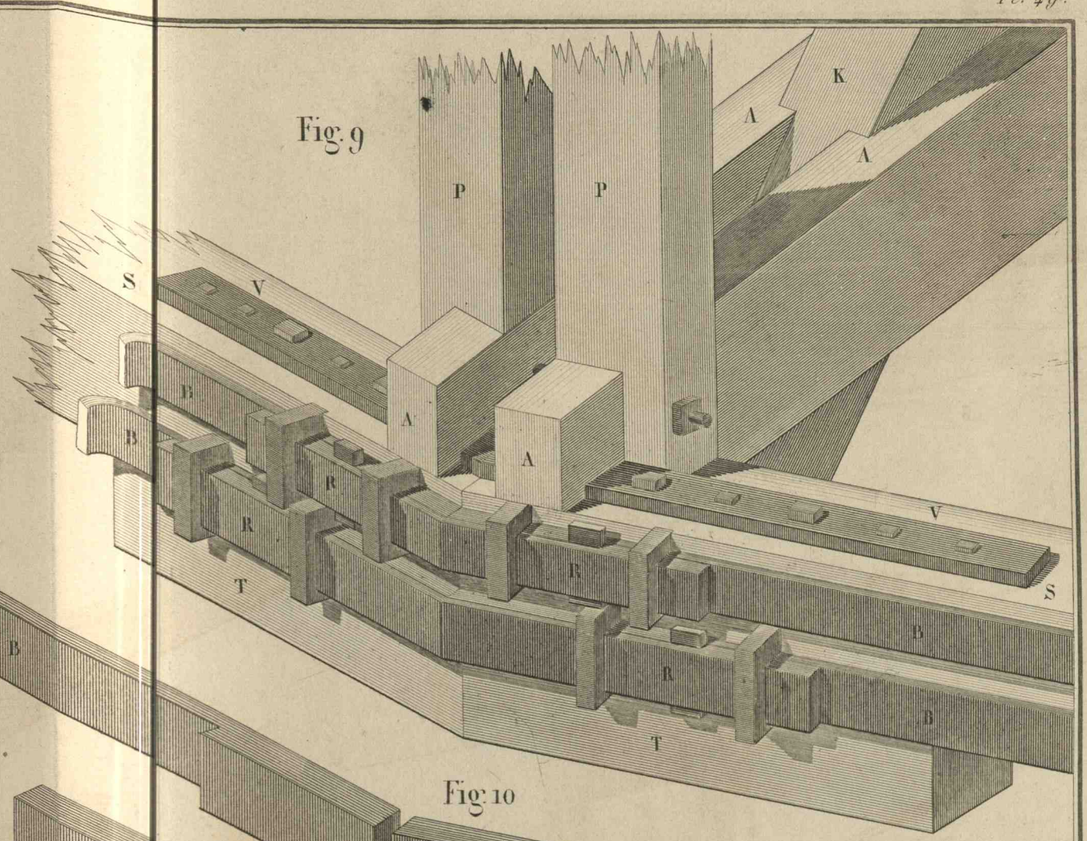


Fig. 9



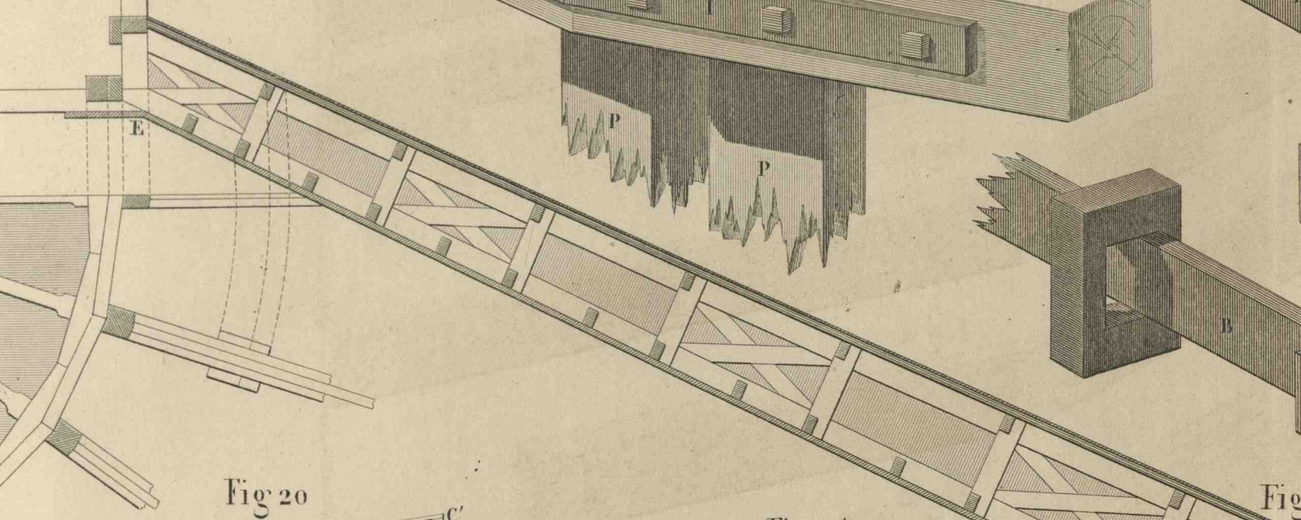


Fig. 10

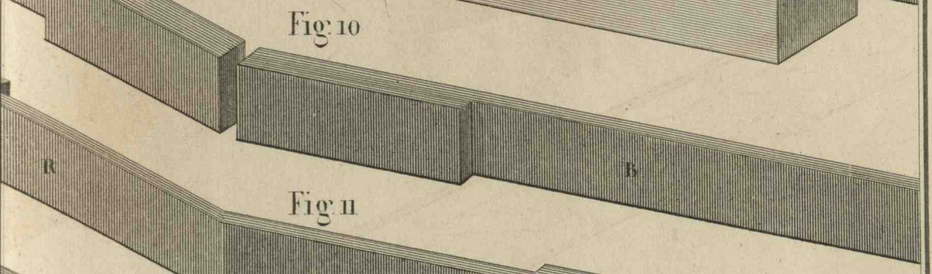


Fig. 11

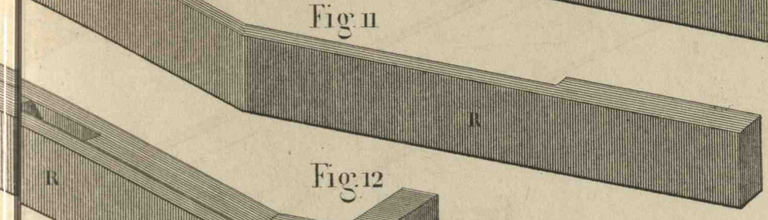


Fig. 12

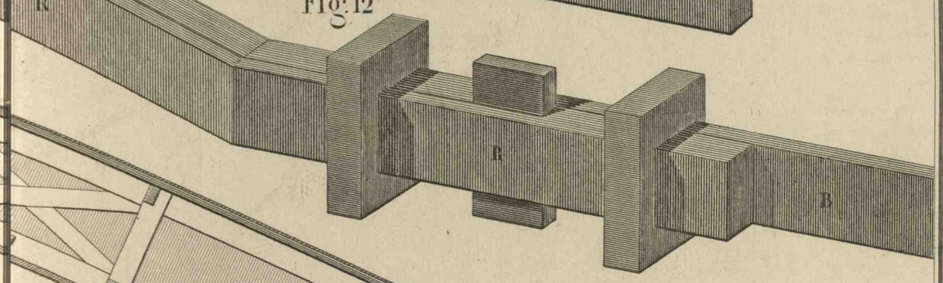


Fig. 15

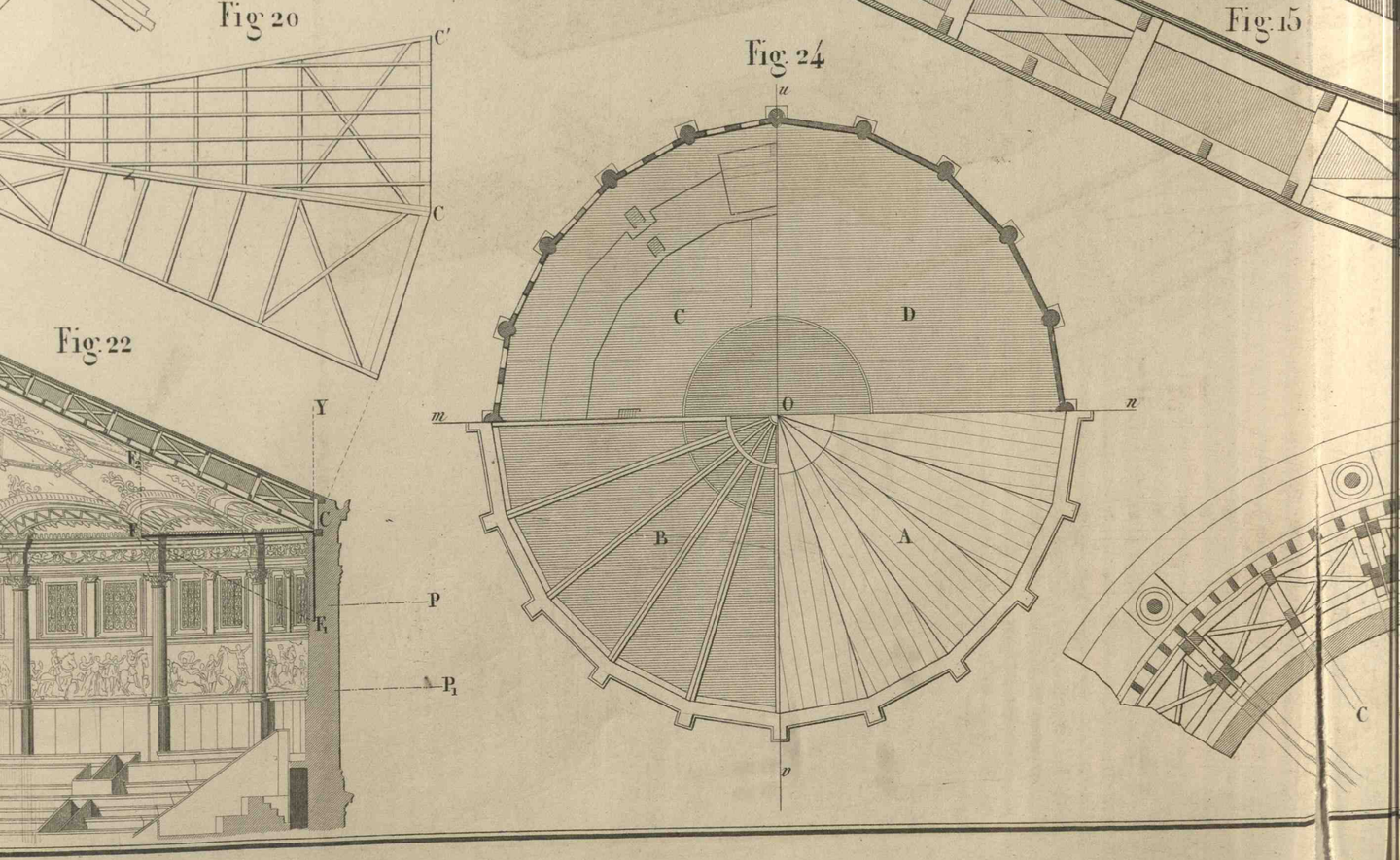
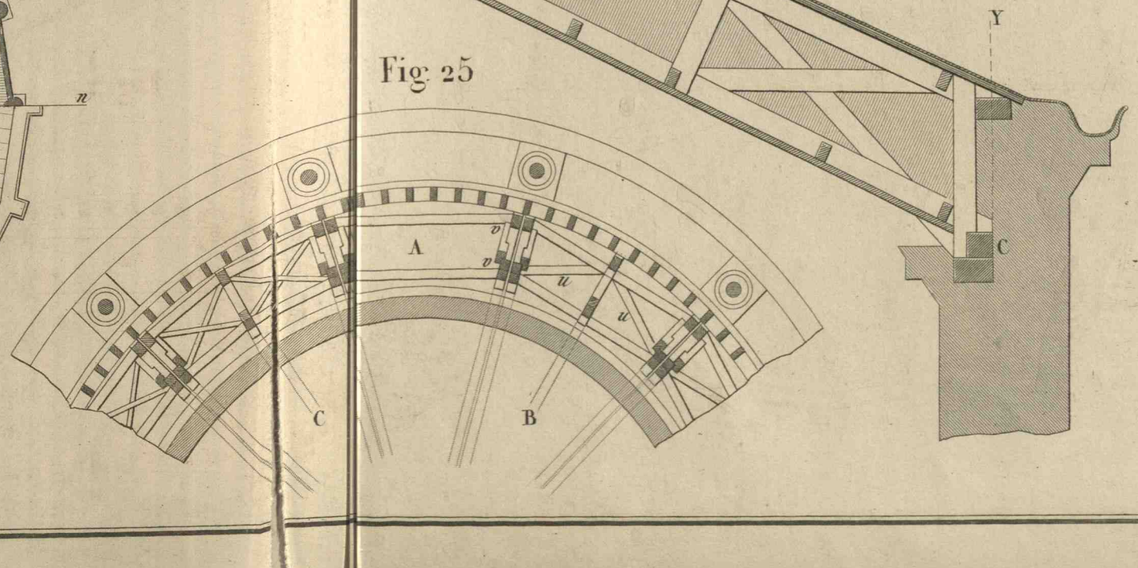


Fig. 20

Fig. 22

Fig. 24

Fig. 25



Double courbure - Débillardement

Fig. 6

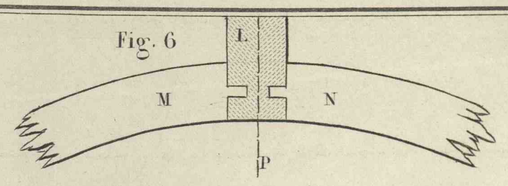


Fig. 1

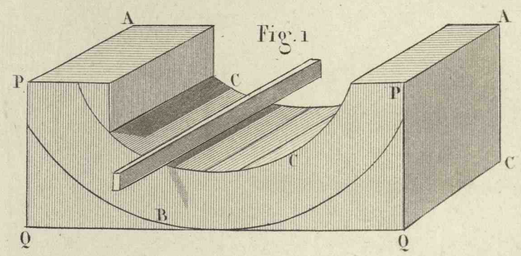


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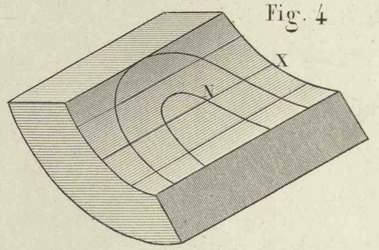


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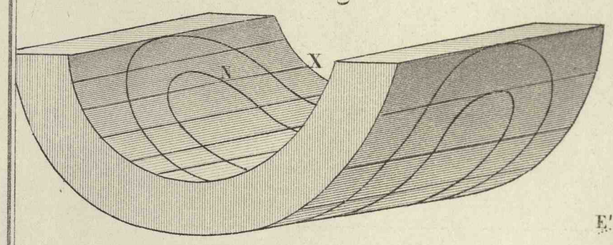


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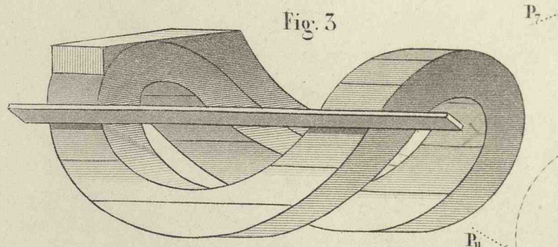


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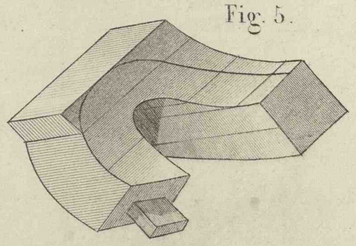


Fig. 7

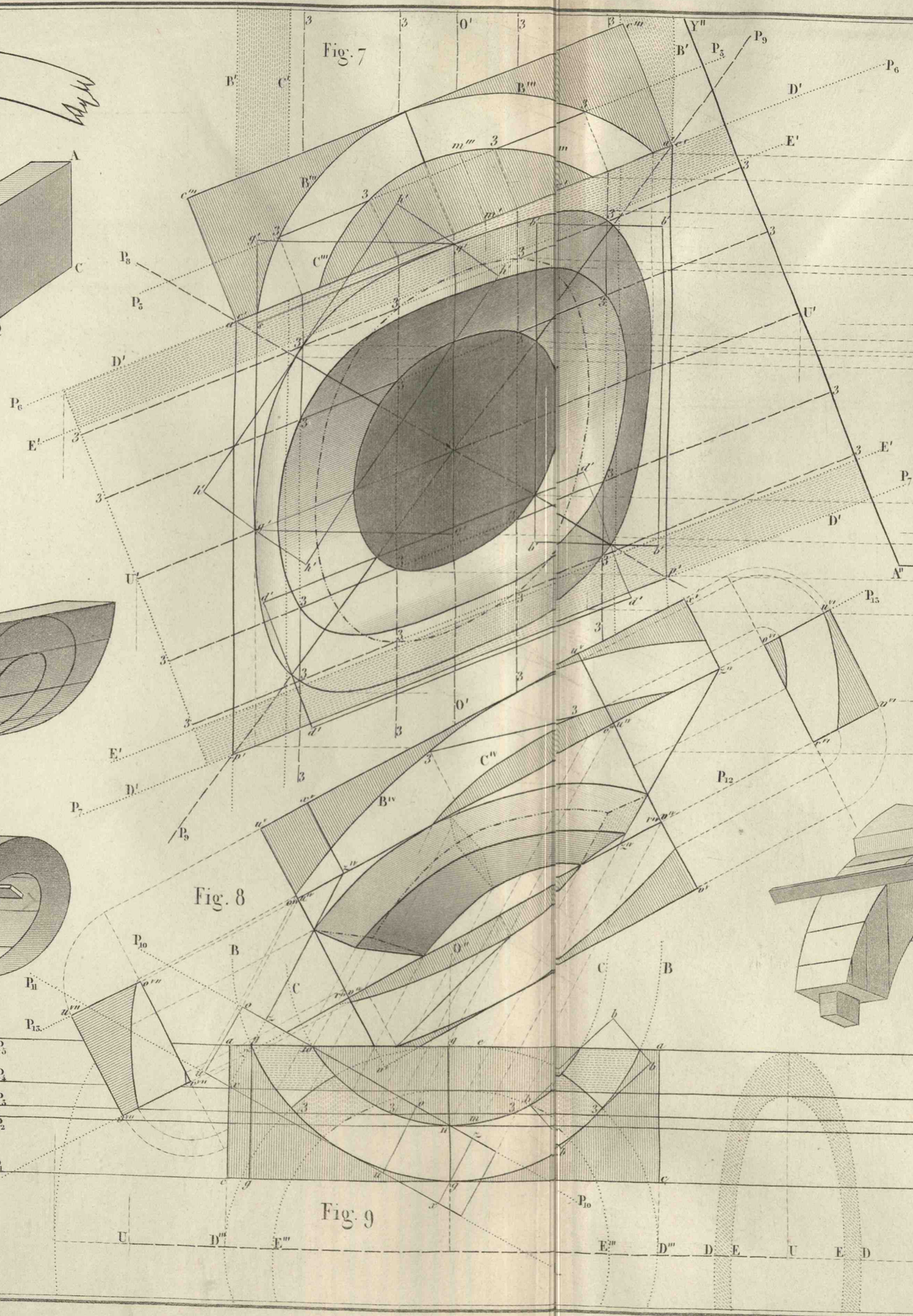


Fig. 8

Fig. 9

Fig. 11.

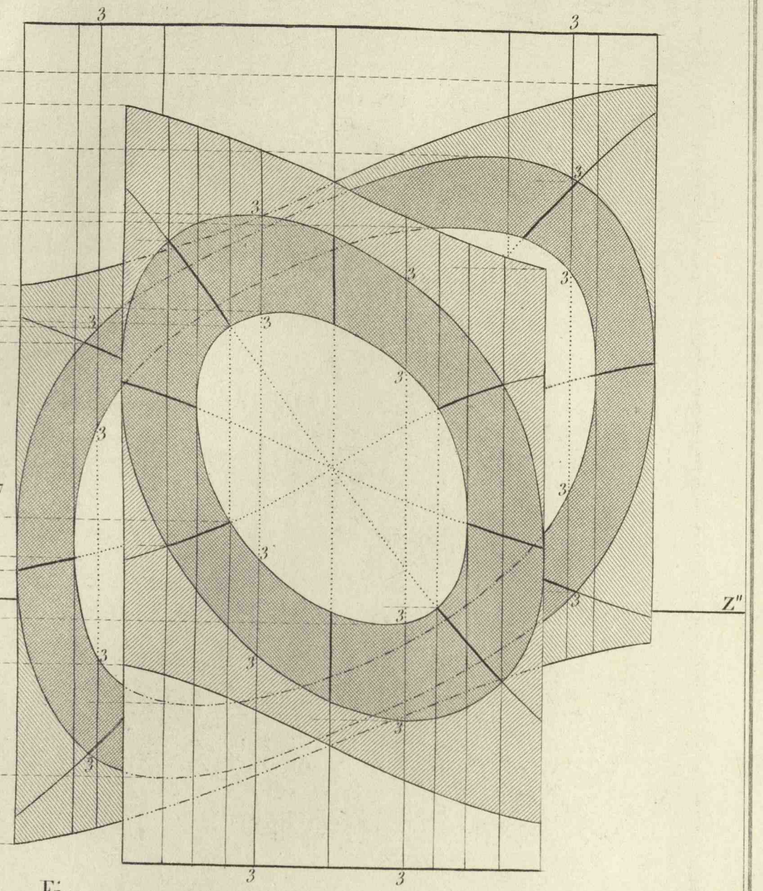


Fig. 10.

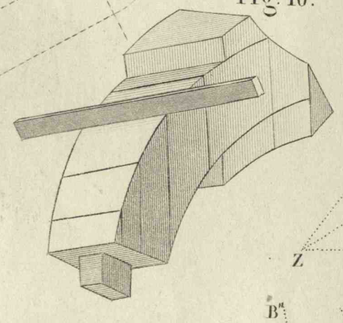


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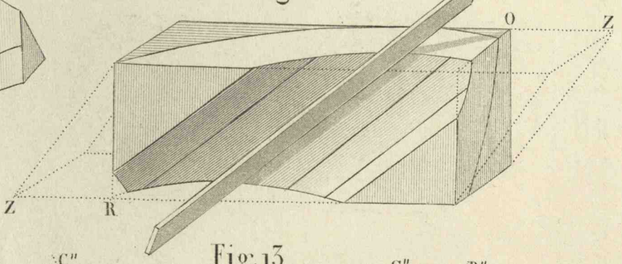
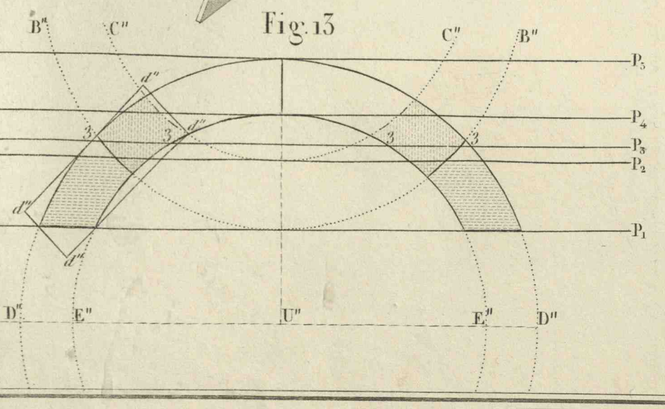


Fig. 13



Pénétrations

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Adhémar del.

Lemaitre sc

Pénétrations

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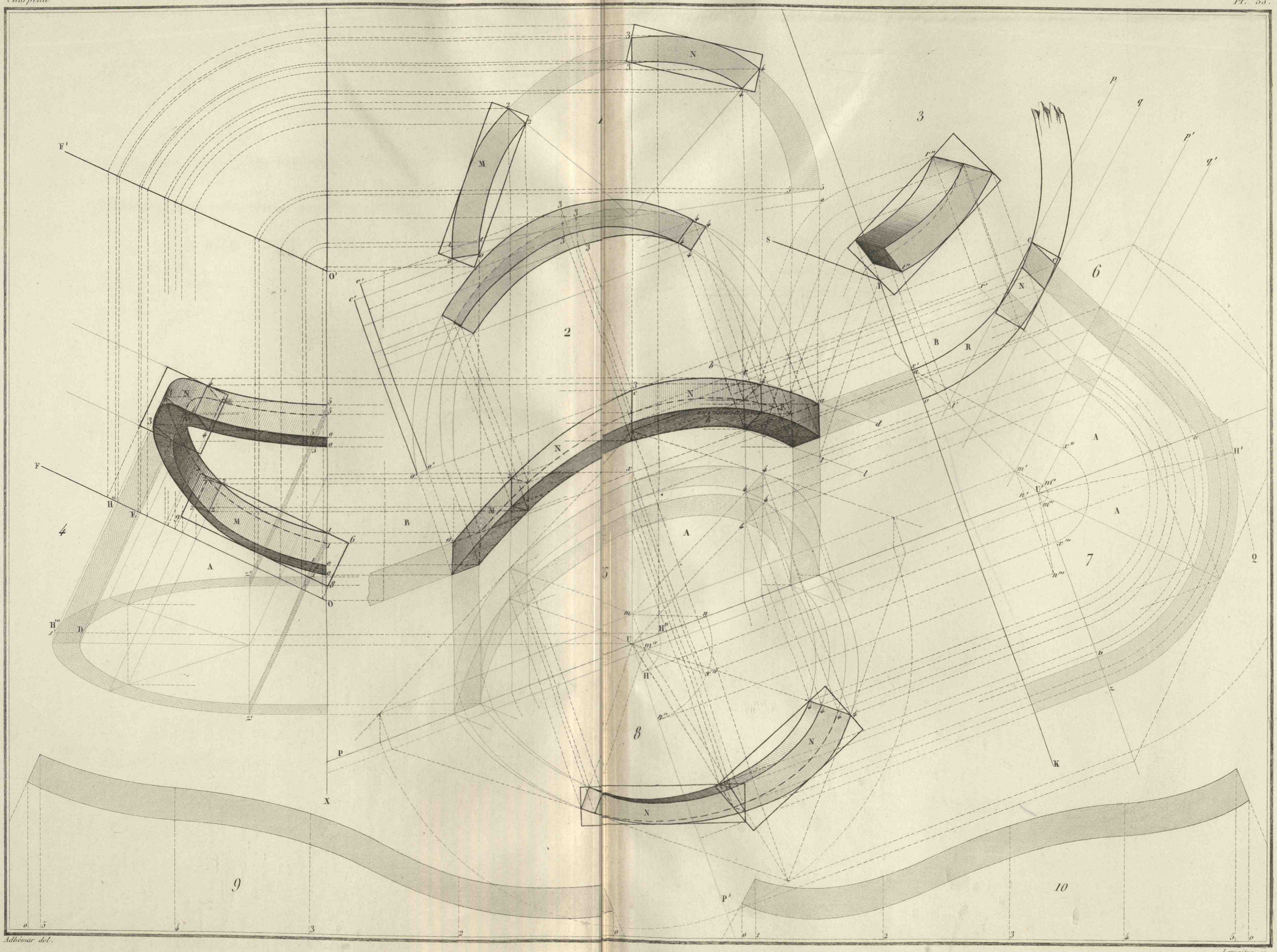
18

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Pénétrations



Lunette conique

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

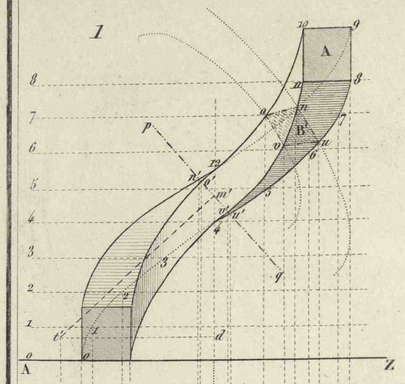
Fig. 6

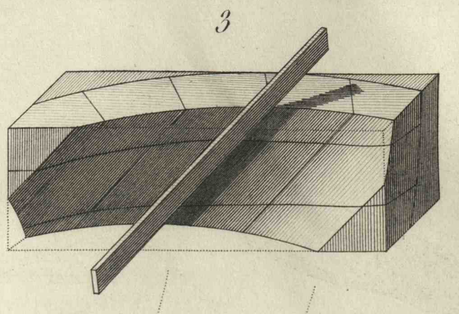
Fig. 7

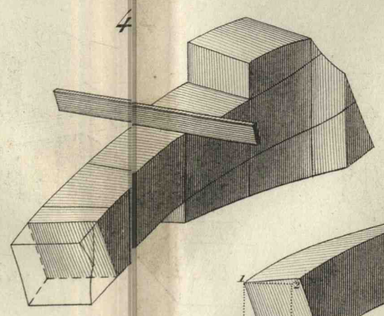
Fig. 8

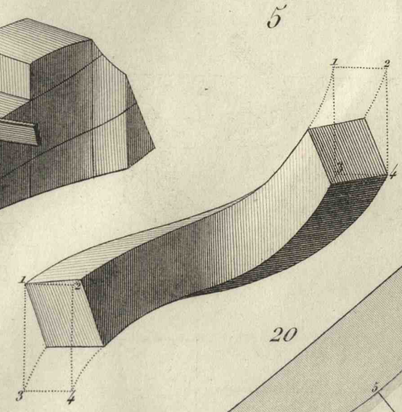
Adhémar del.

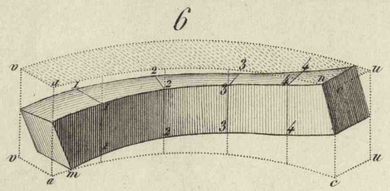
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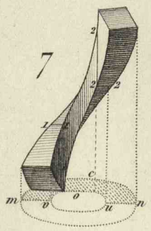






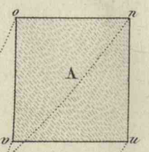


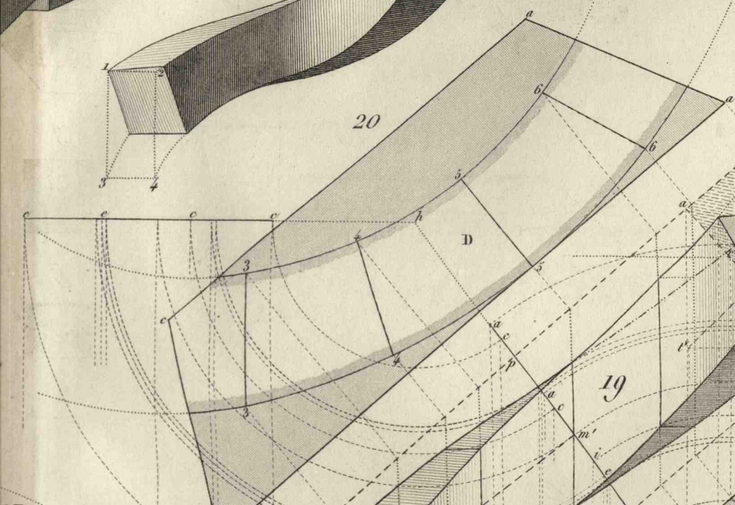


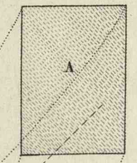


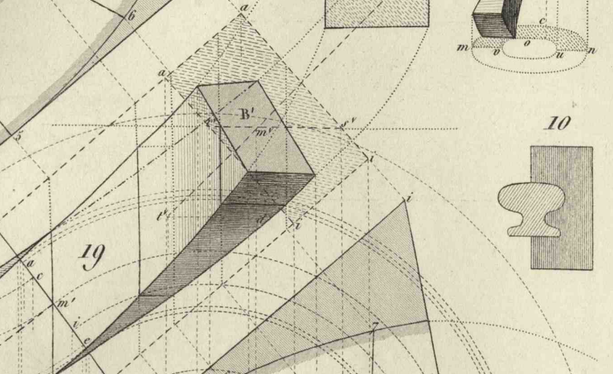


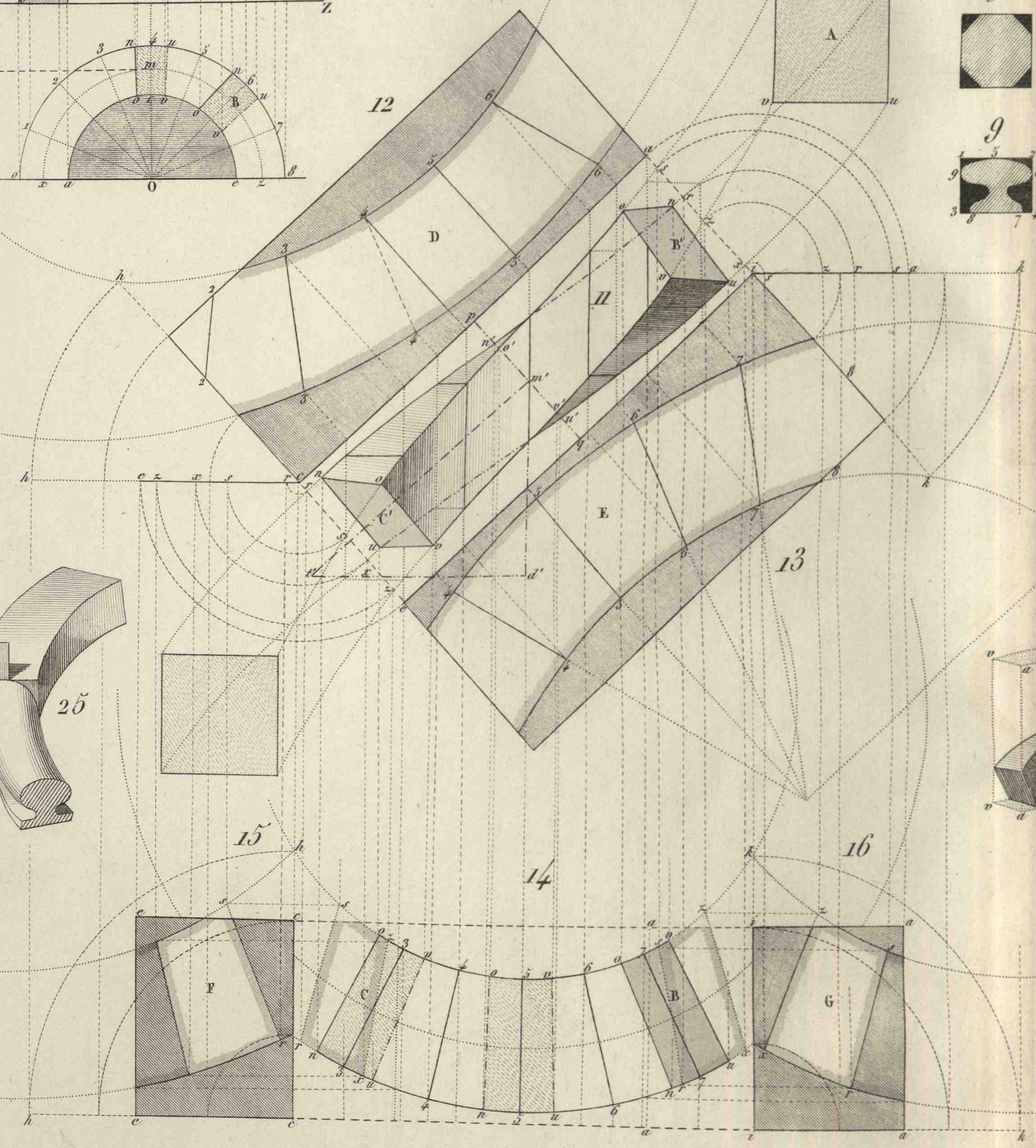


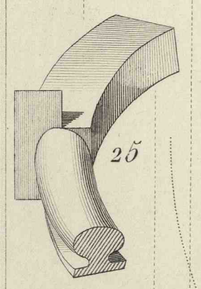






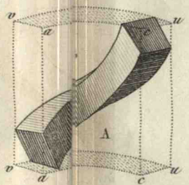


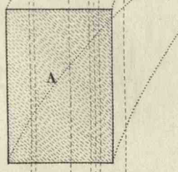


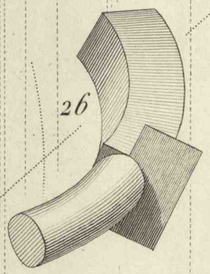


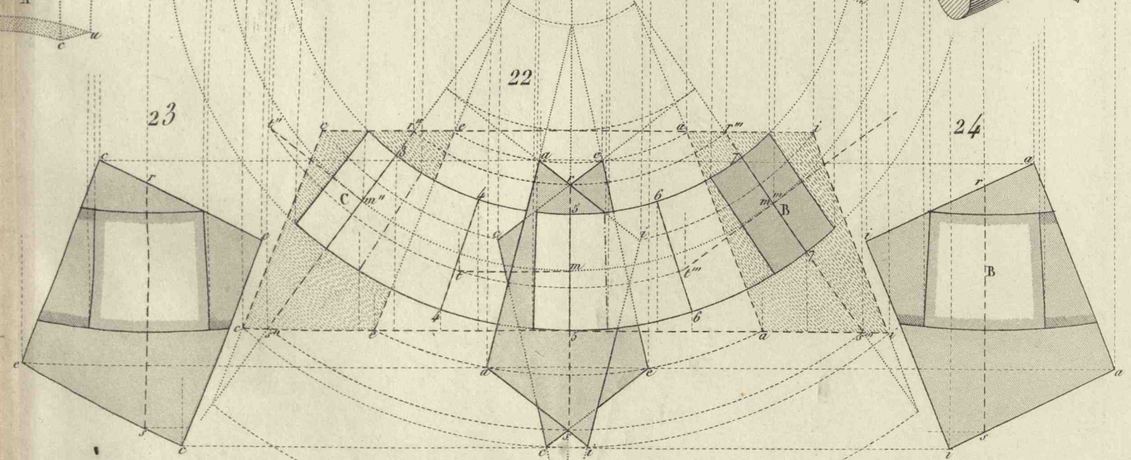






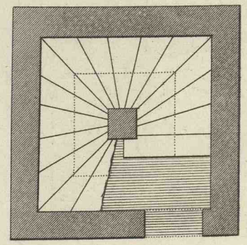




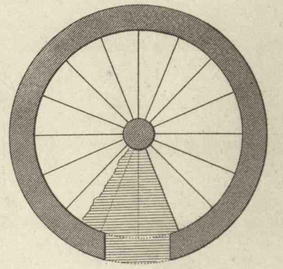


Escaliers

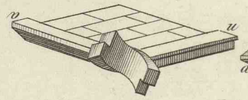
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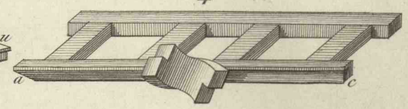
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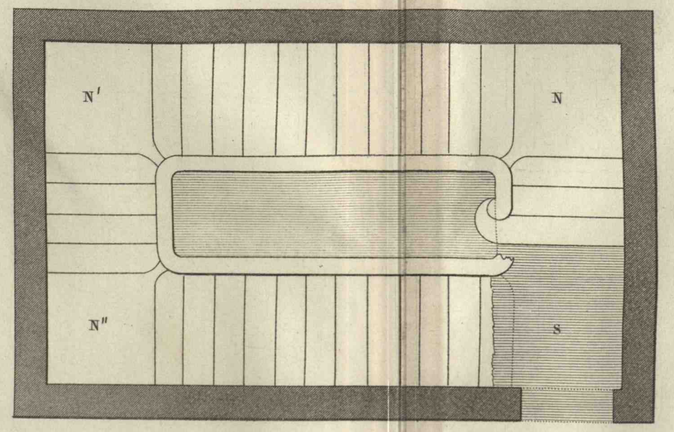
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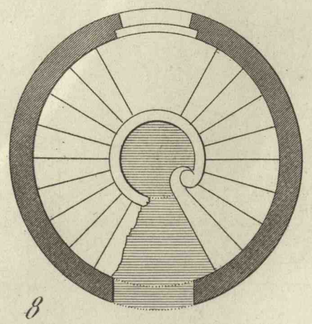
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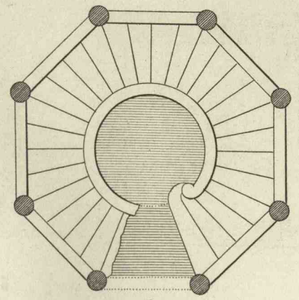
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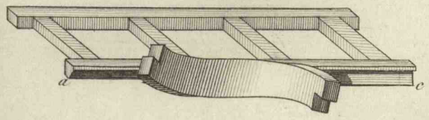
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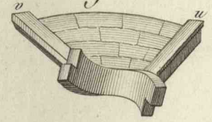
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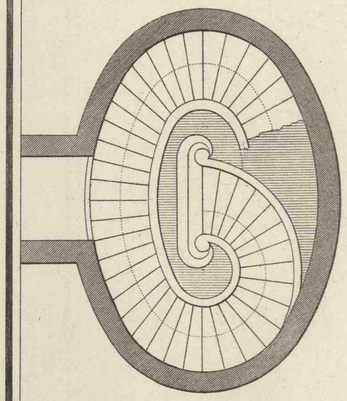
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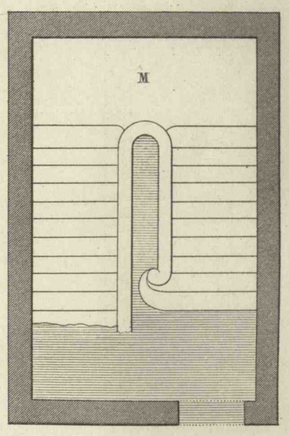
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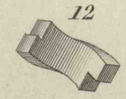
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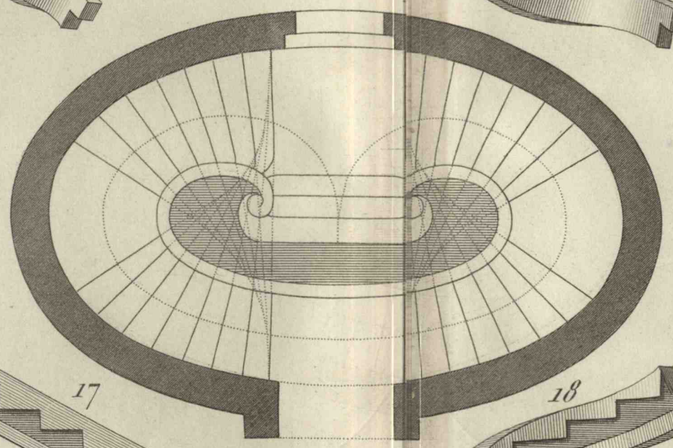
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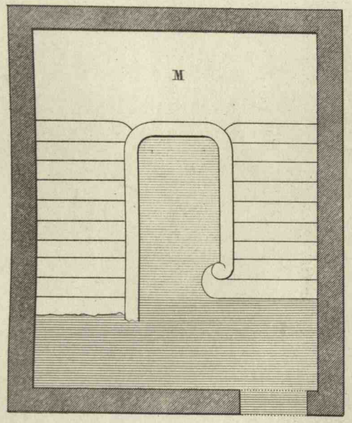
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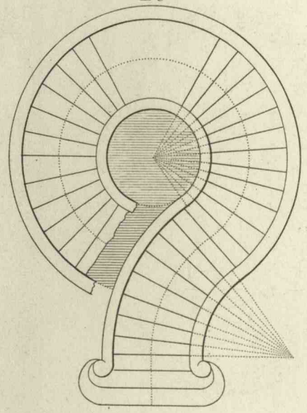
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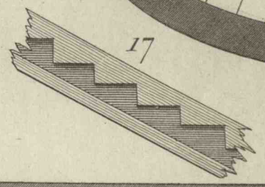
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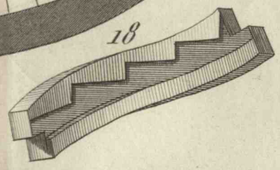
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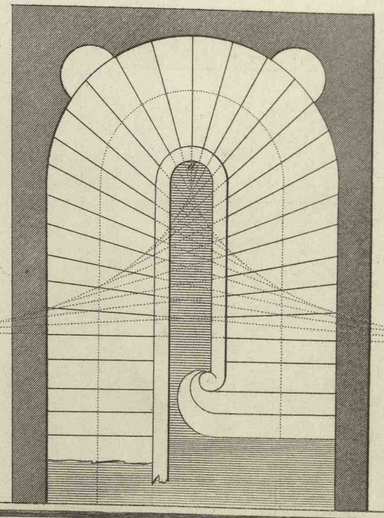
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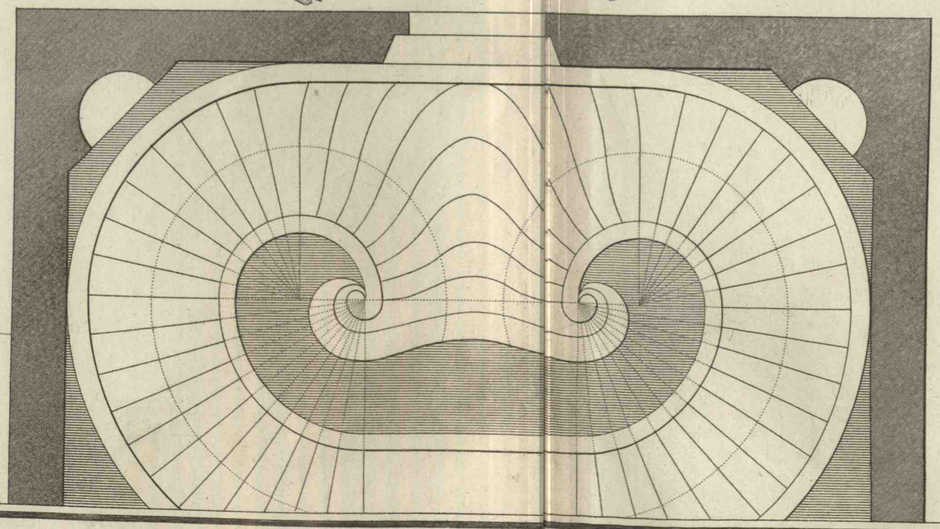
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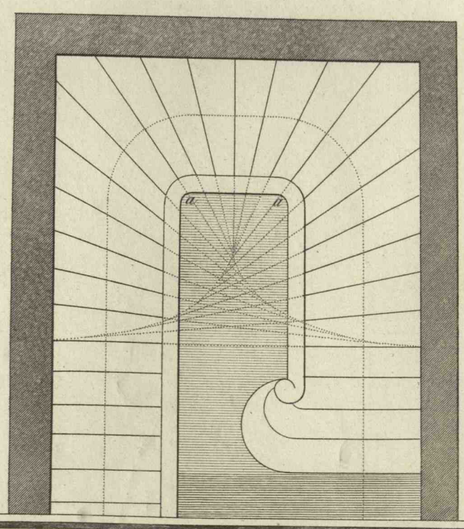
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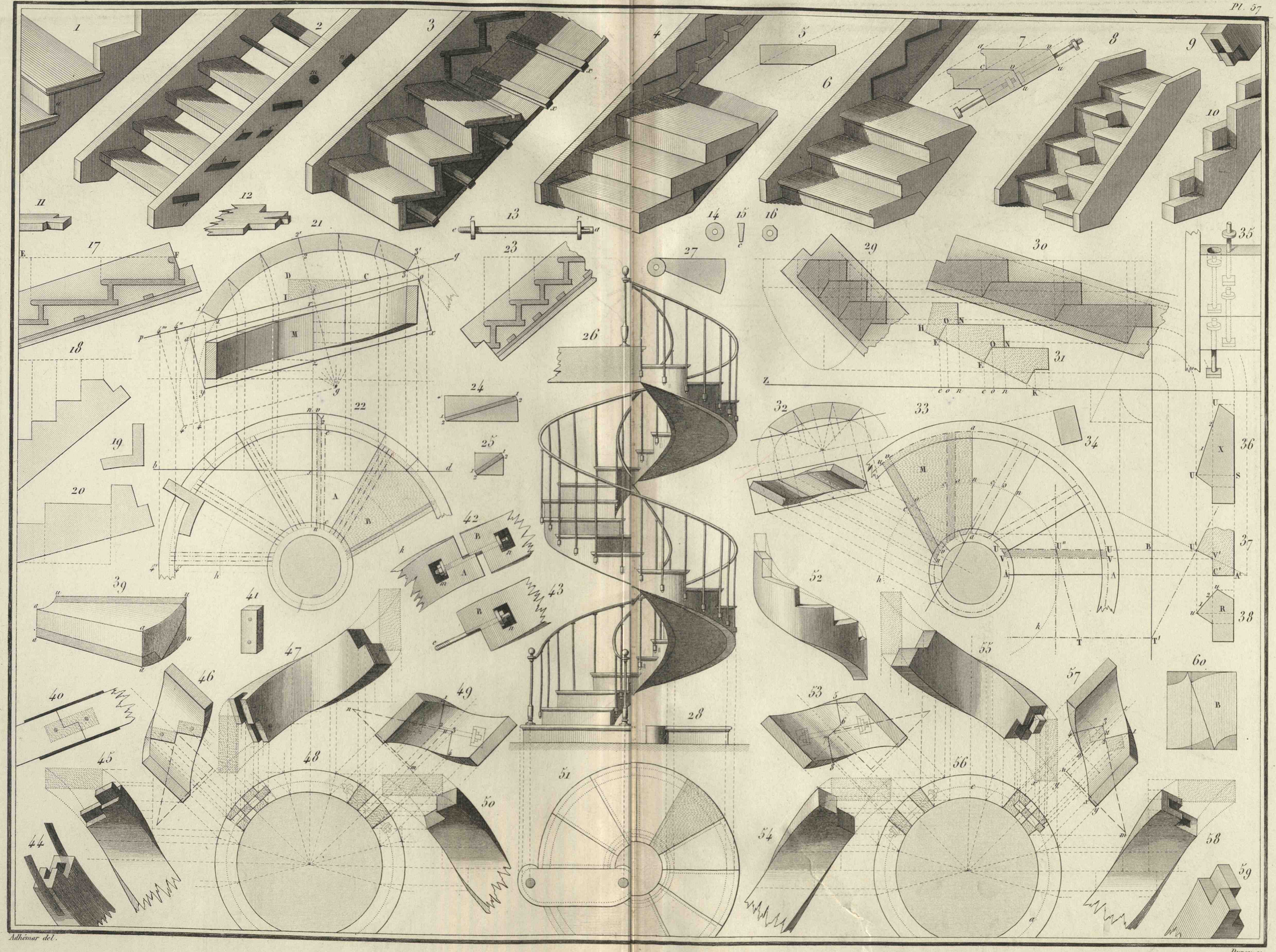
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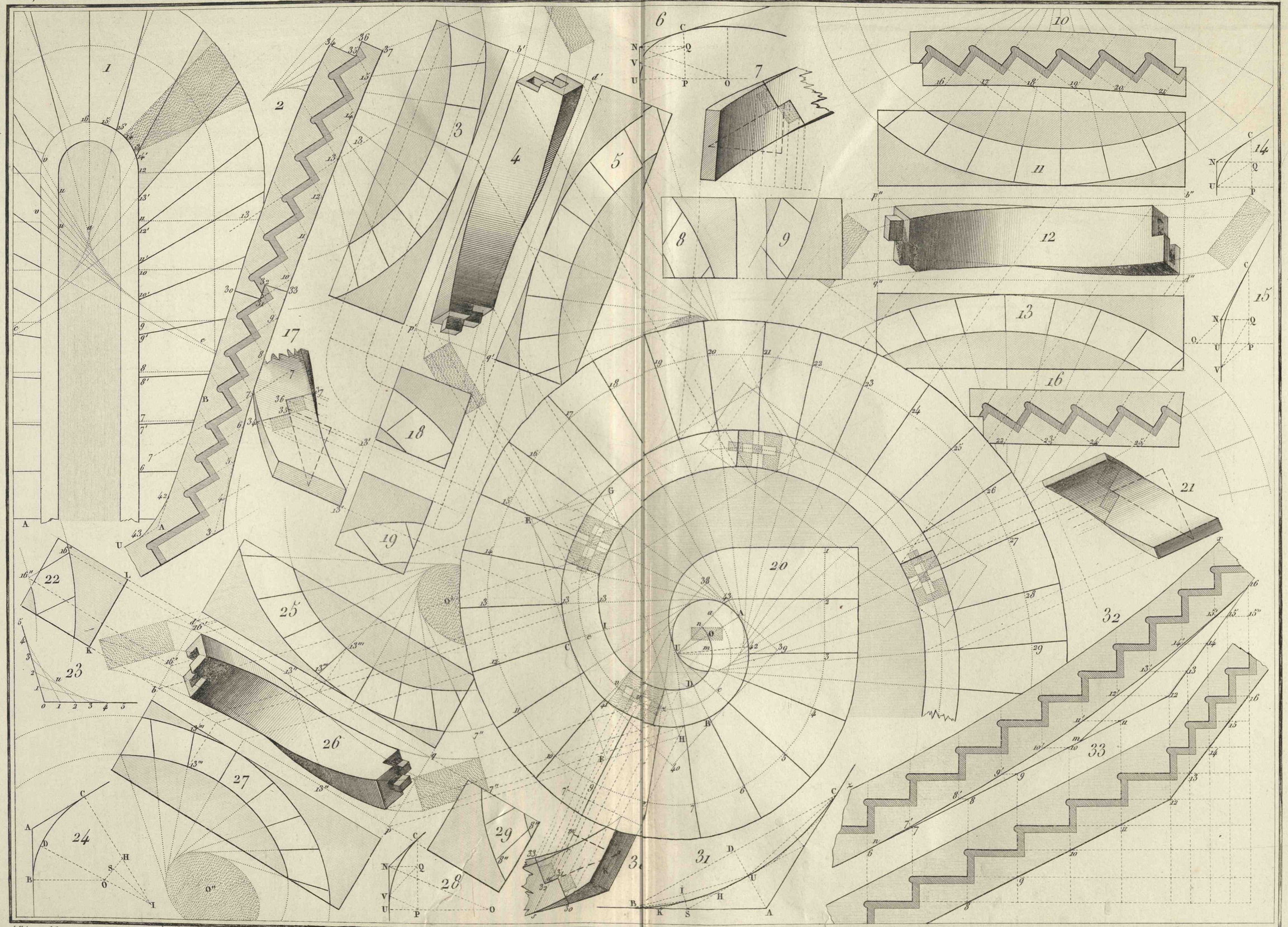


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Escaliers


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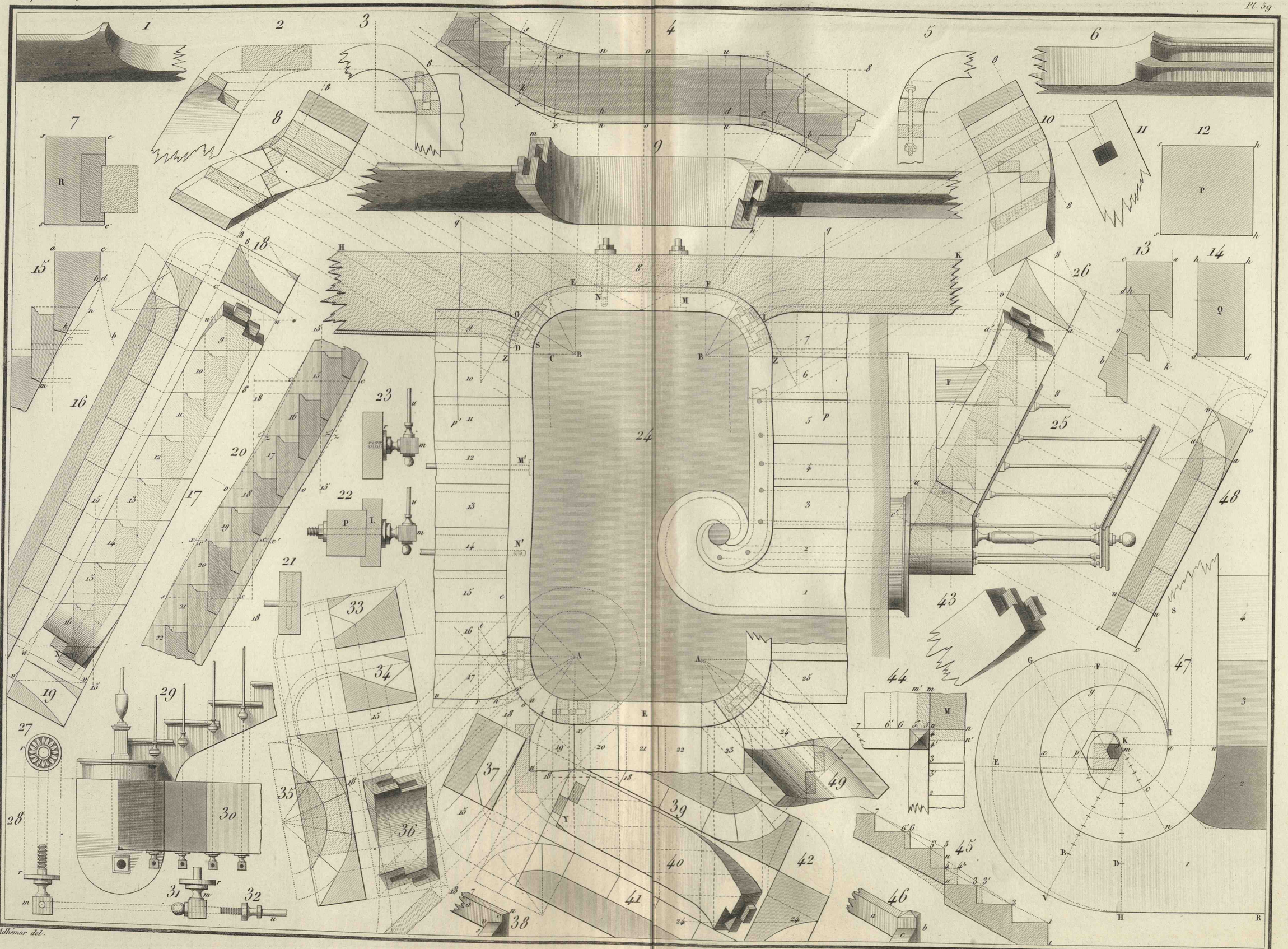
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Escaliers.

Charpente

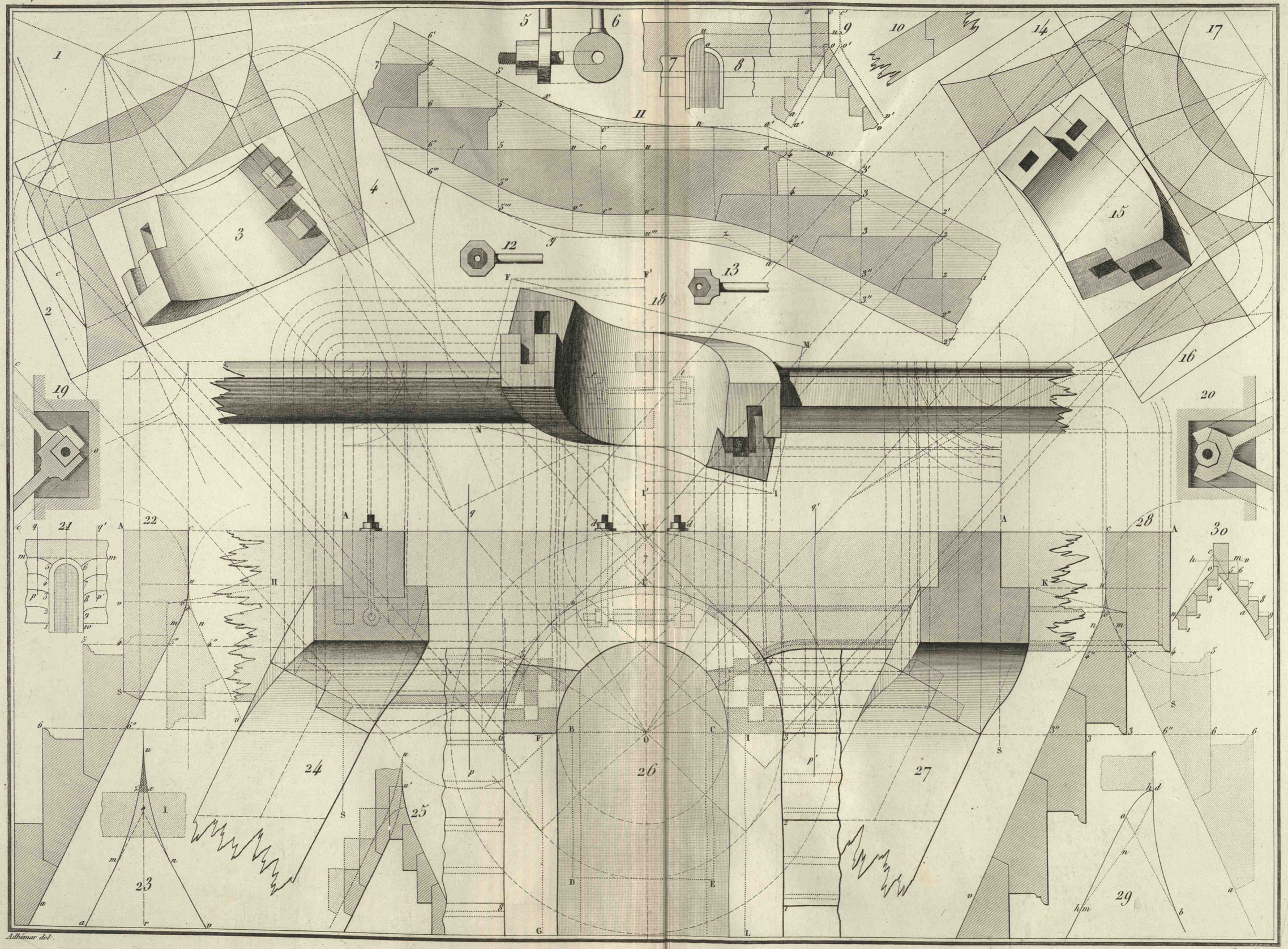
Pl. 59



Adhémar del.

Durand sc.

Escaliers.


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Ponts biais en bois

Fig. 1.

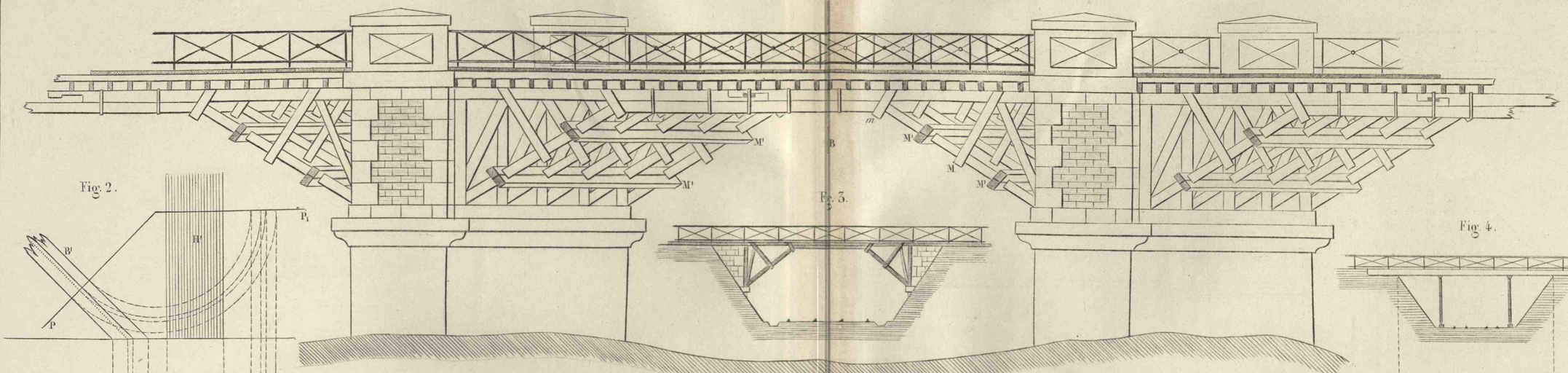


Fig. 2.

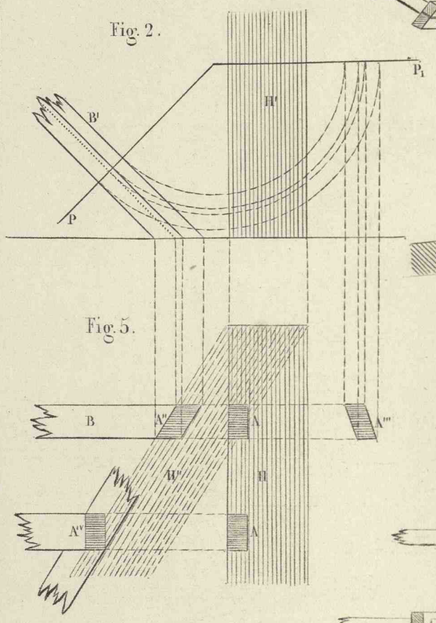


Fig. 3.

Fig. 4.

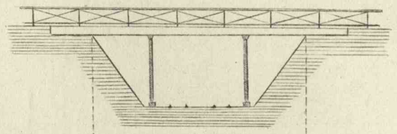


Fig. 5.

Fig. 6.



Fig. 7.



Fig. 8.

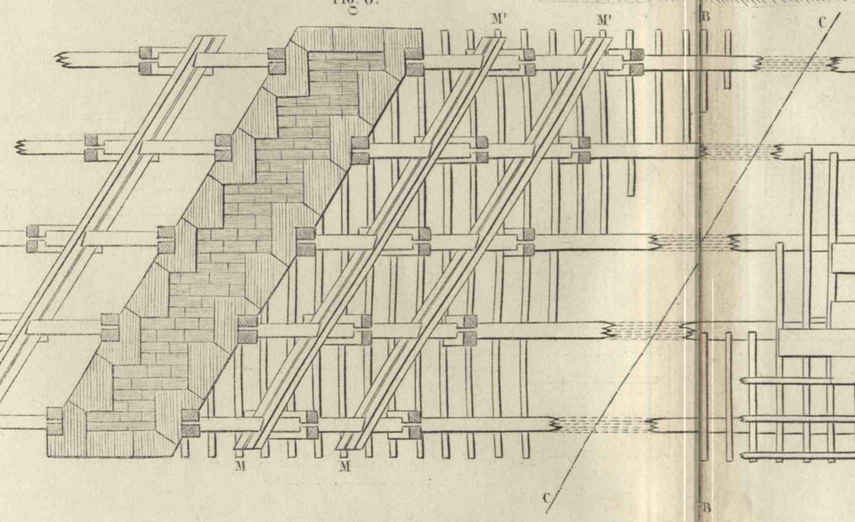


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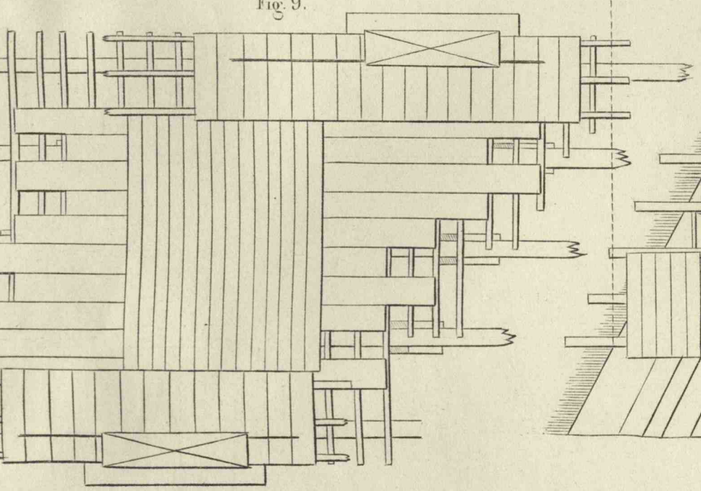


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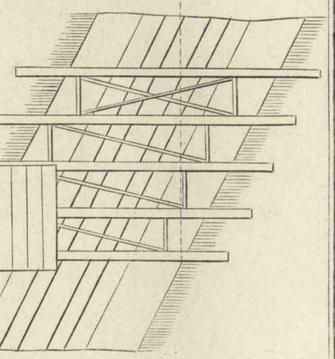


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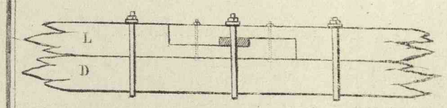


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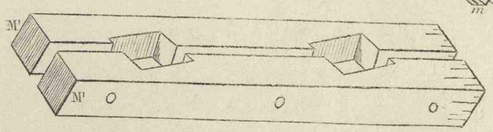


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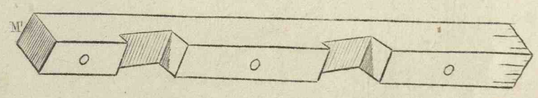


Fig. 14.

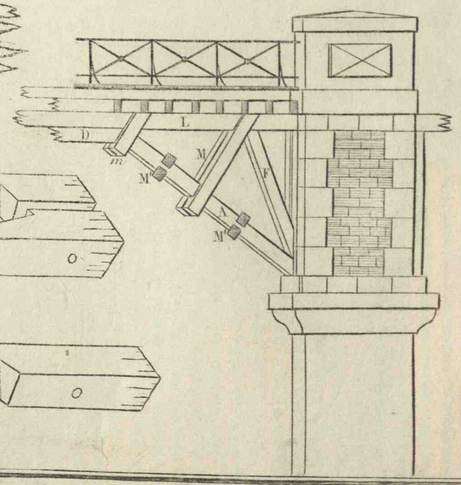


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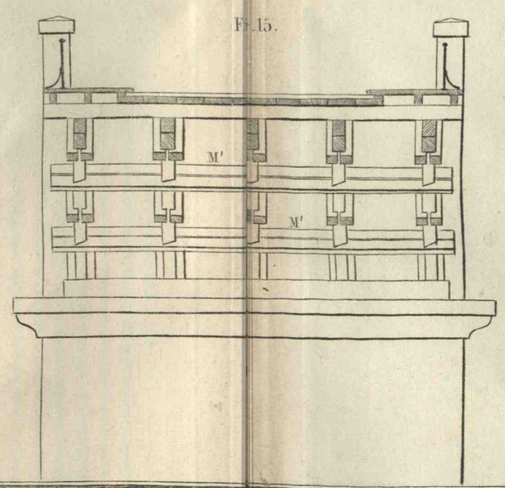


Fig. 16.

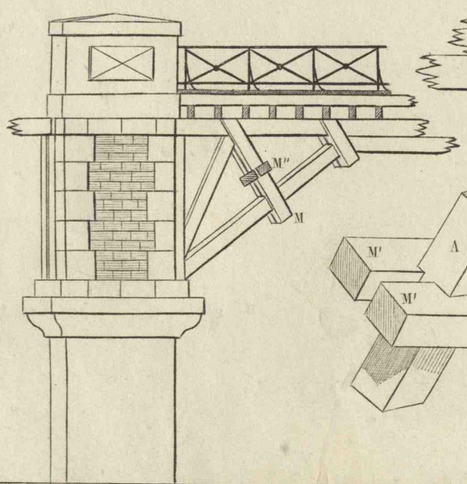


Fig. 17.

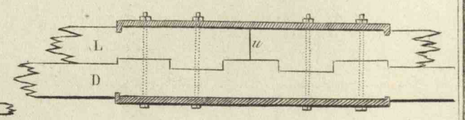
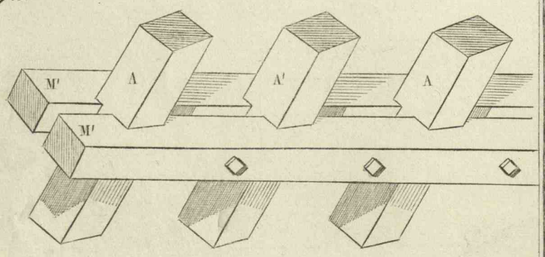


Fig. 18.



Adhémar del.

Ponts biais en bois - Etude de moises.

Fig. 1.

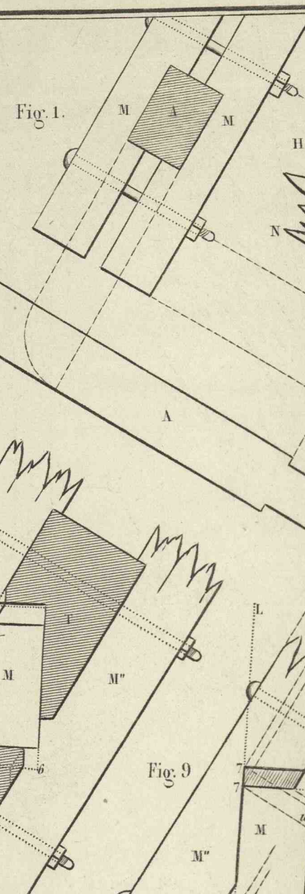


Fig. 2.

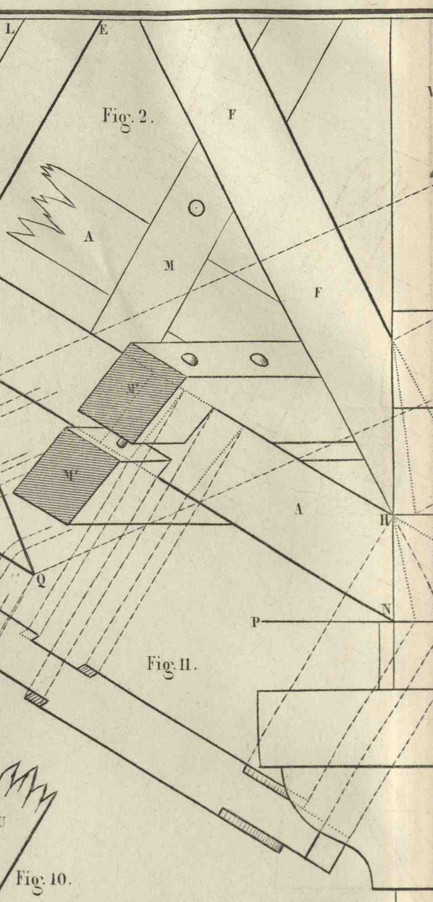


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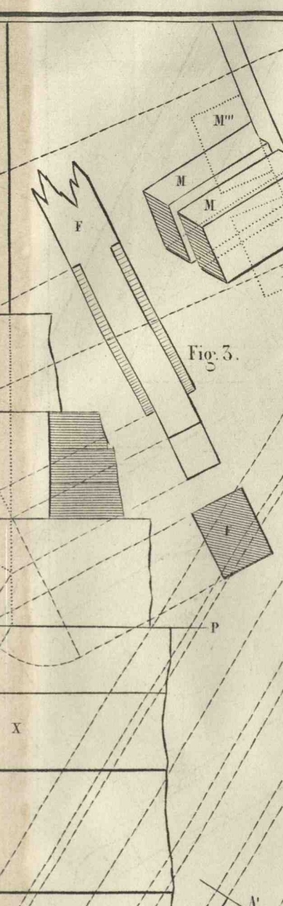


Fig. 4.

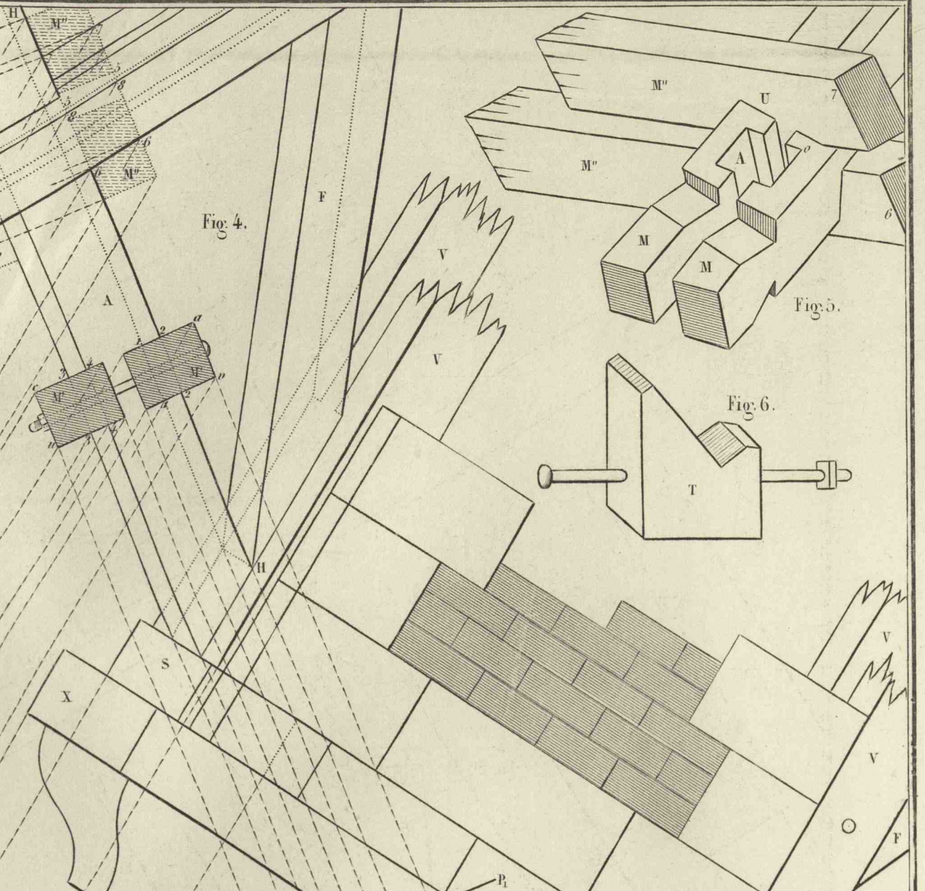


Fig. 5.

Fig. 6.

Fig. 7.

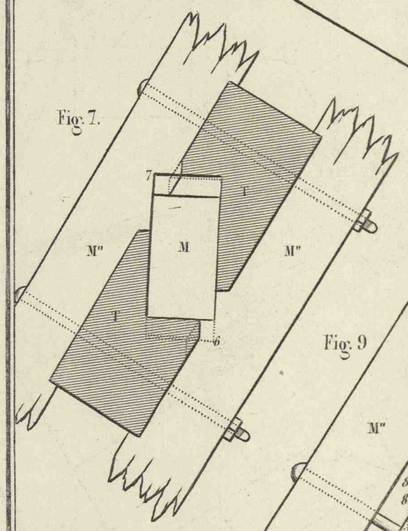


Fig. 8.



Fig. 9

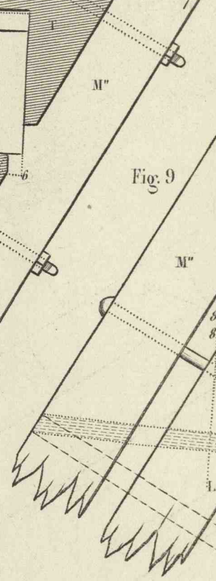


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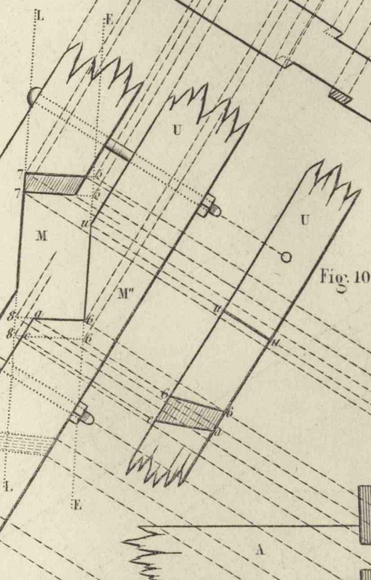


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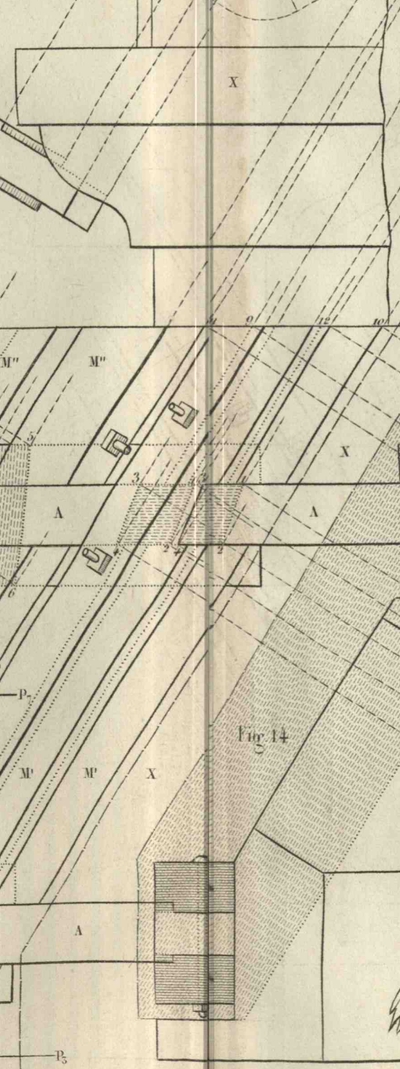


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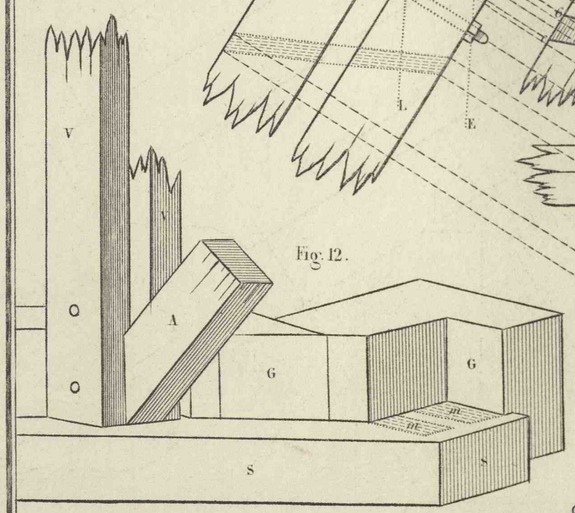


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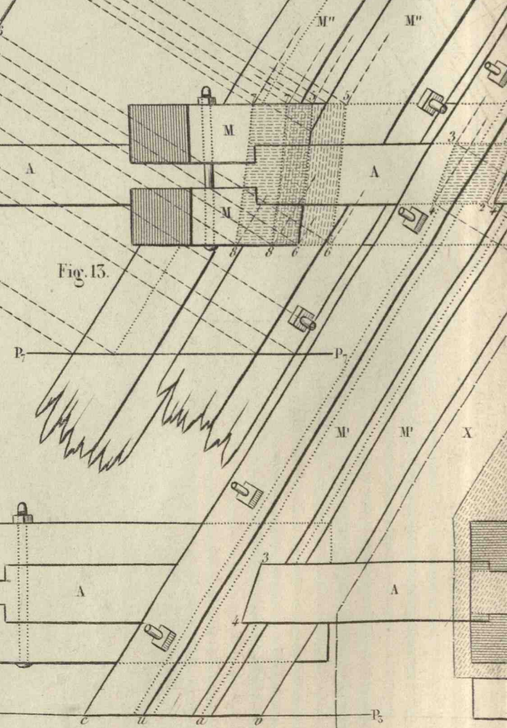


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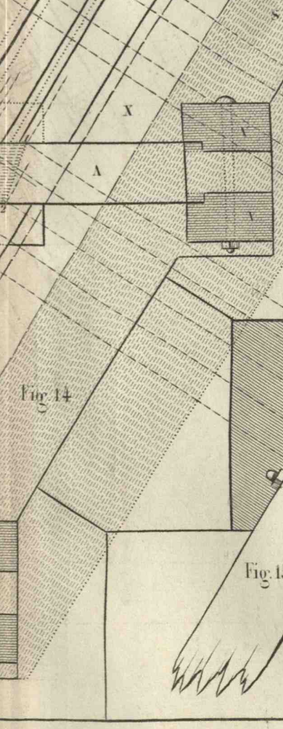


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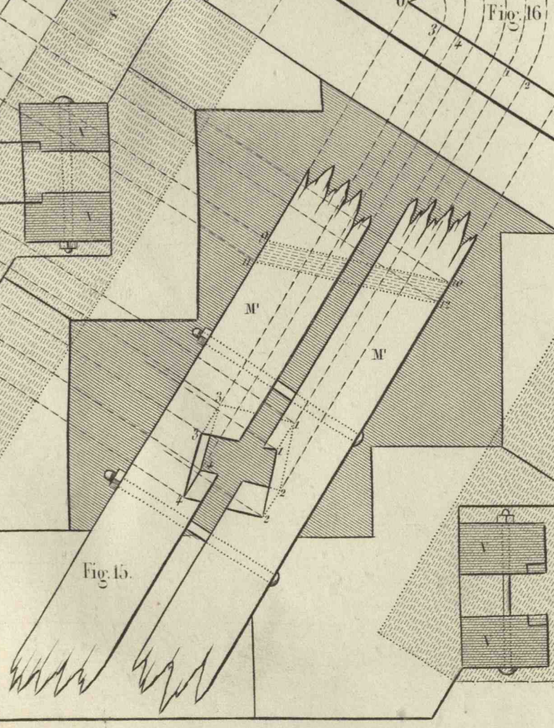


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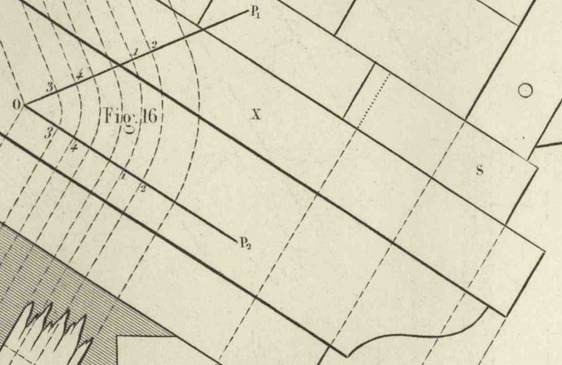


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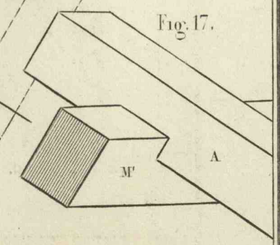
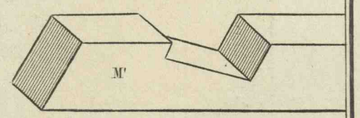


Fig. 18.



Adhémar del.

Deuxième étude de Ponts biais

Fig. 1.

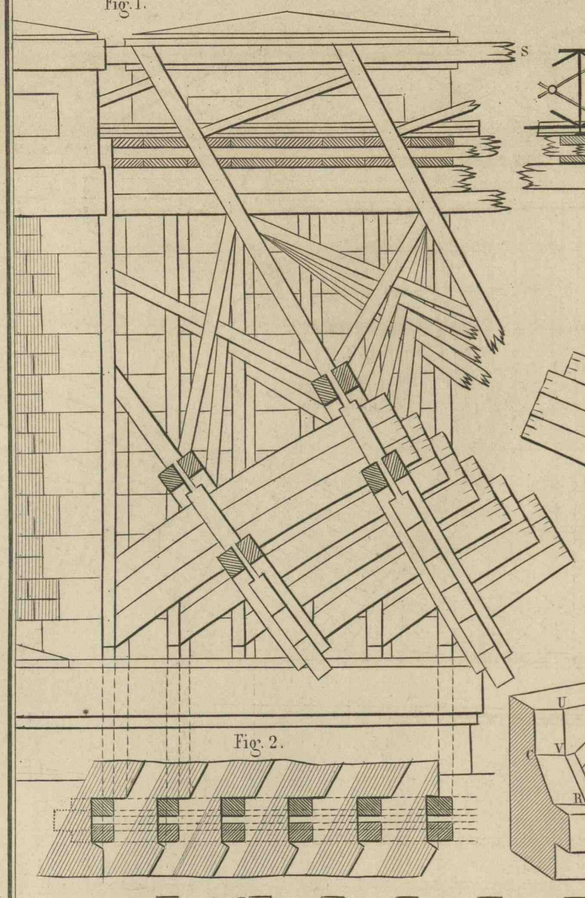


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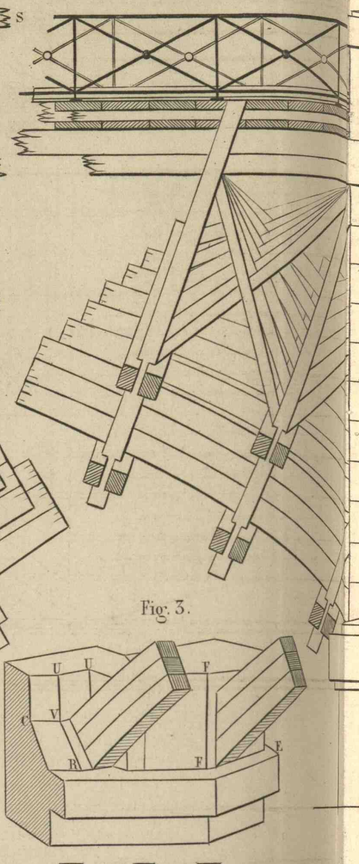


Fig. 3.

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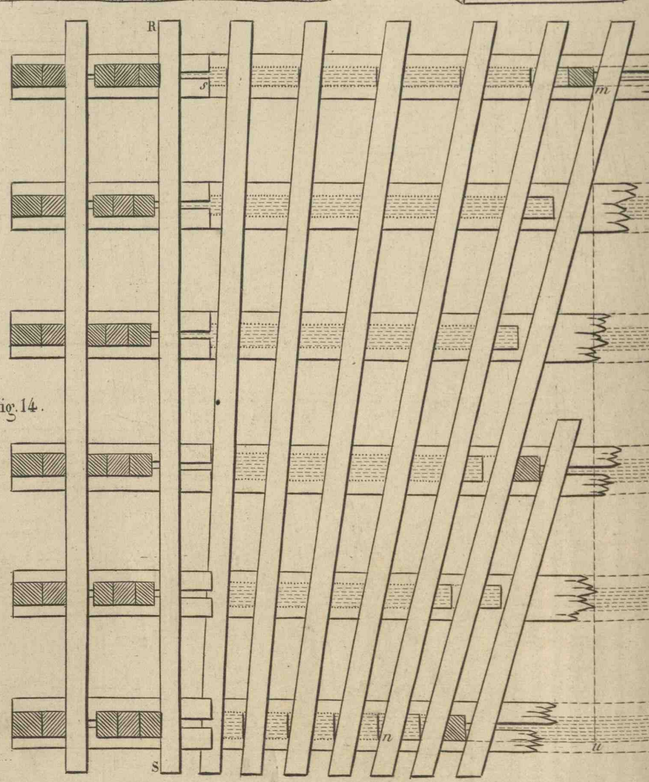


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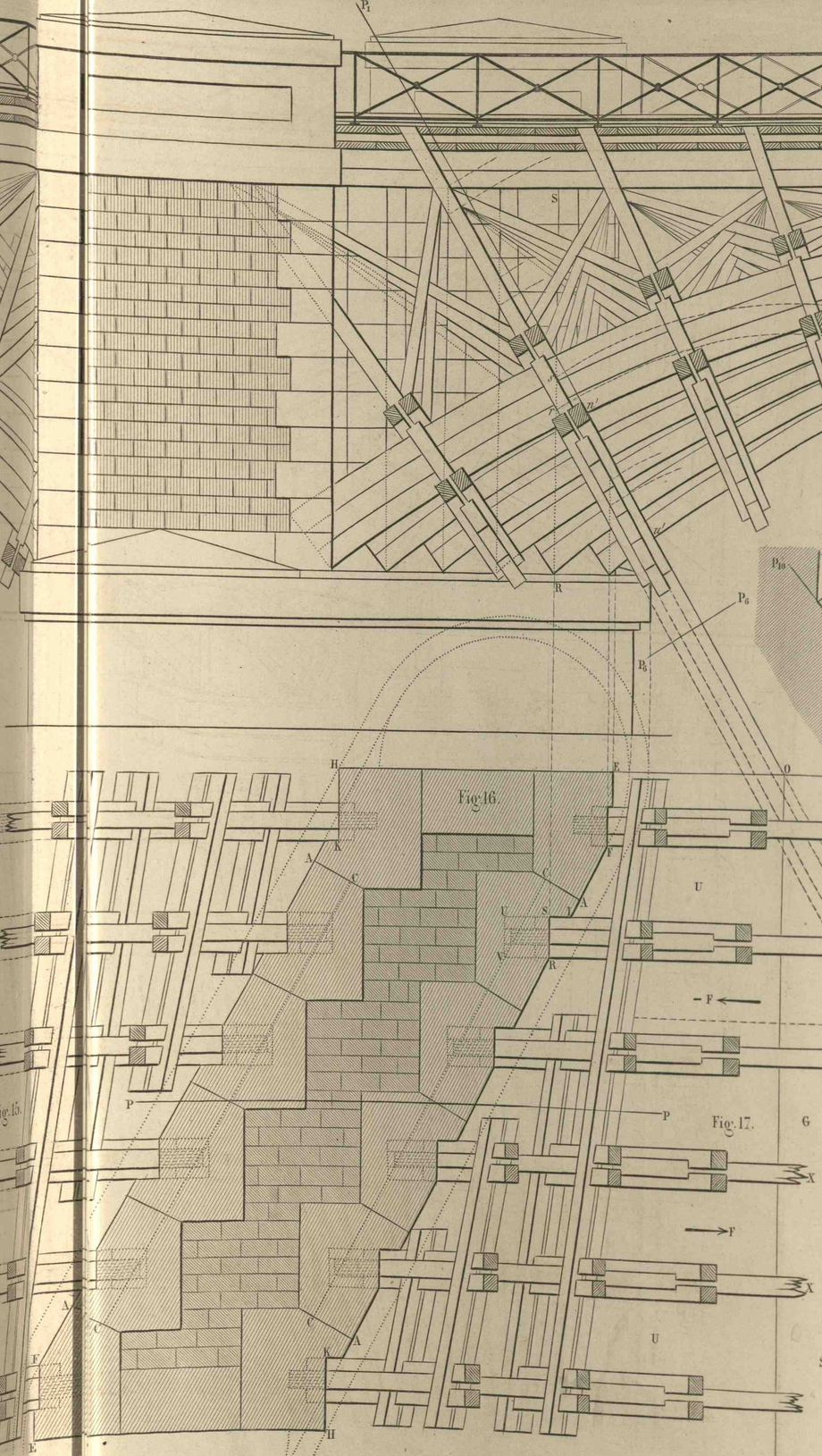


Fig. 16.

Fig. 17.

Fig. 18

Fig. 5.

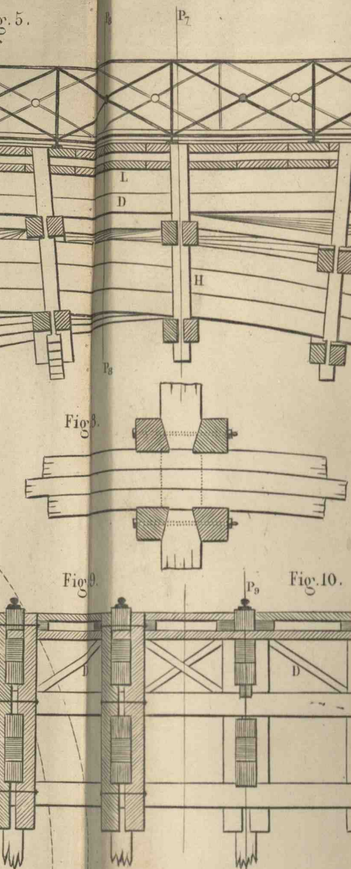


Fig. 6.

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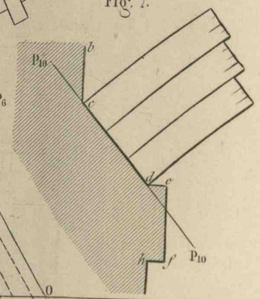


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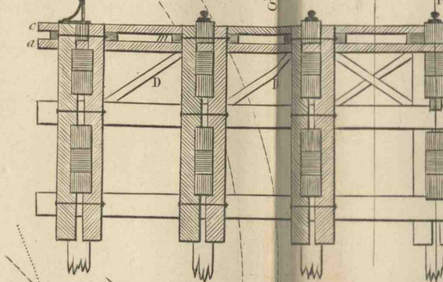


Fig. 10.

Fig. 19

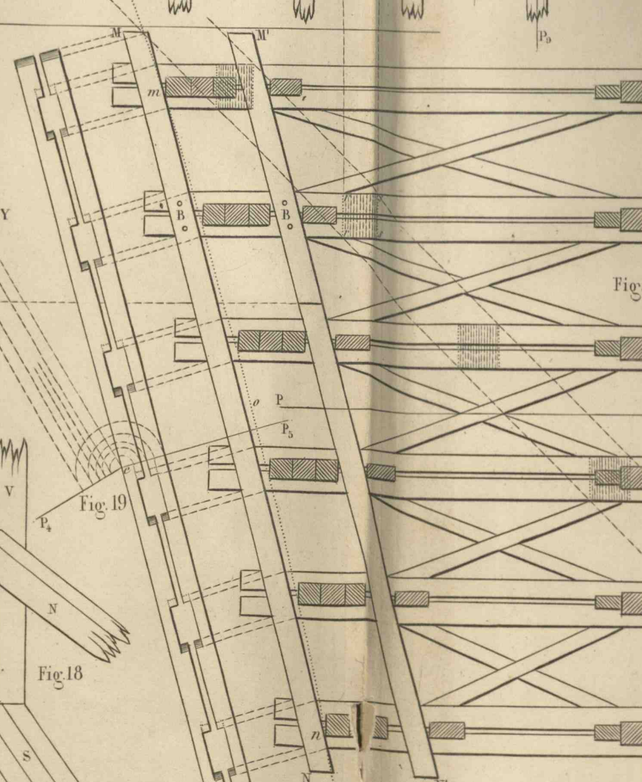


Fig. 6 .

Fig. 12 .

Fig. 13 .

Fig. 11.

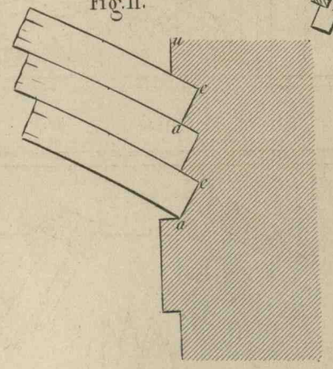


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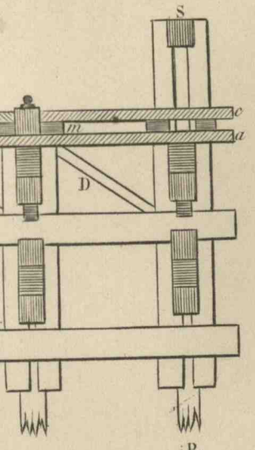


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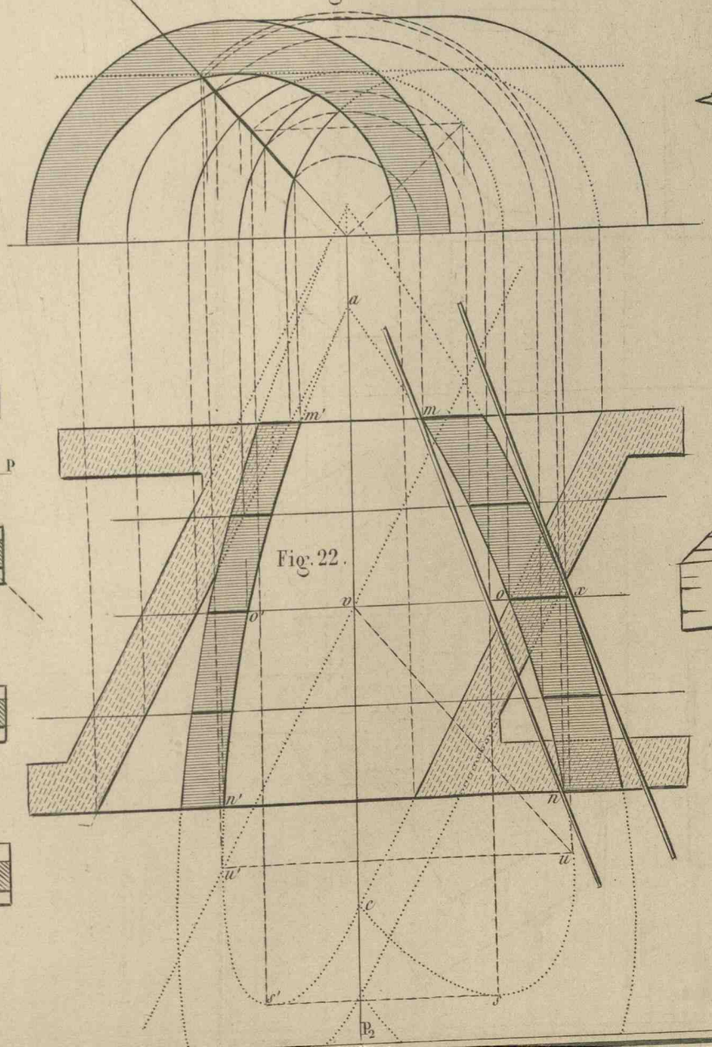


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Fig. 23

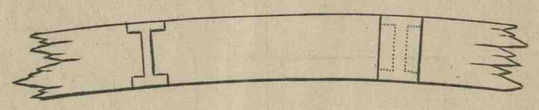


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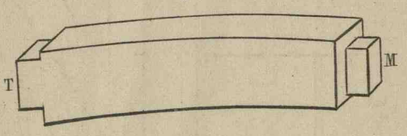


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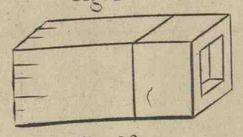


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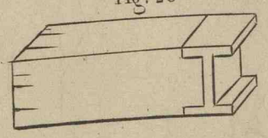


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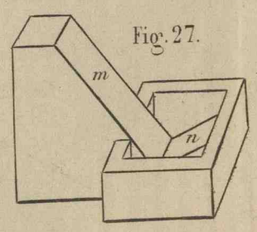


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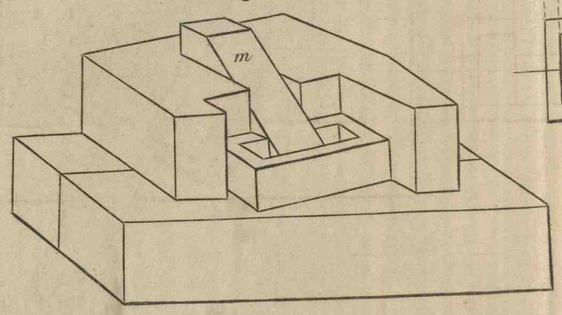


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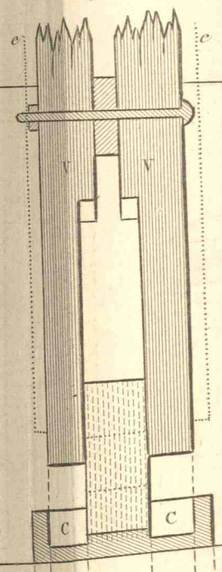


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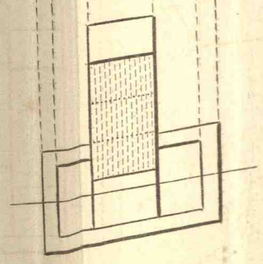


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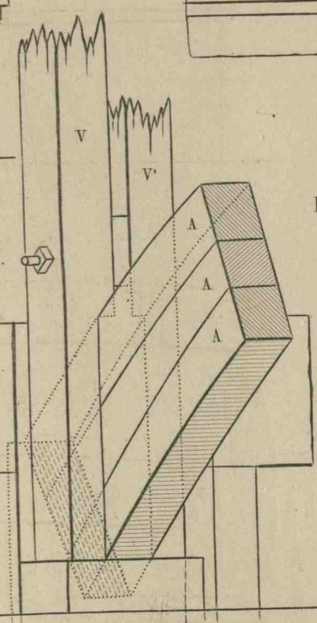


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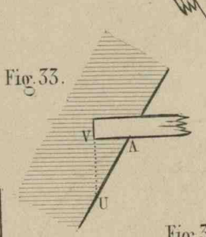


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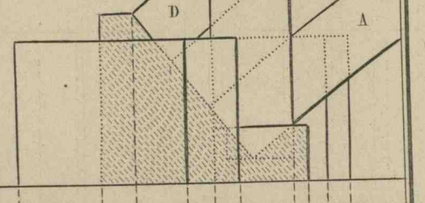


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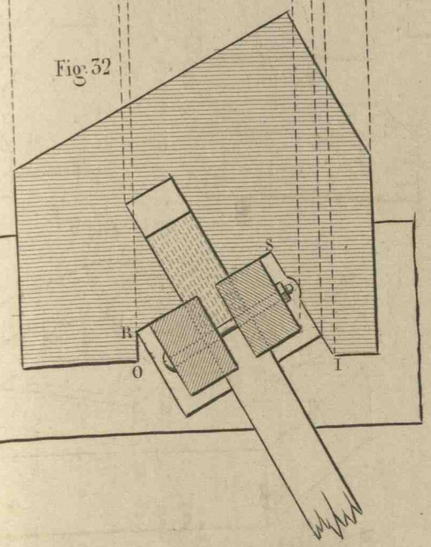
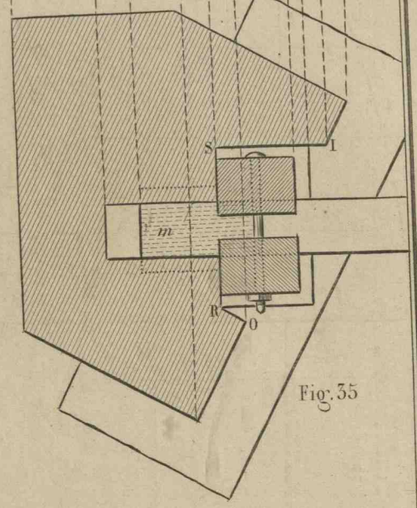


Fig. 35



Ponts biais en treillis

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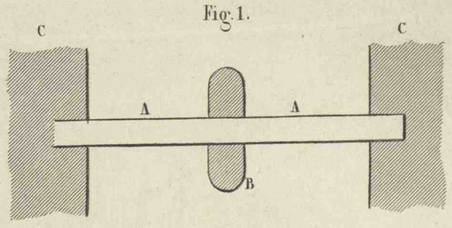


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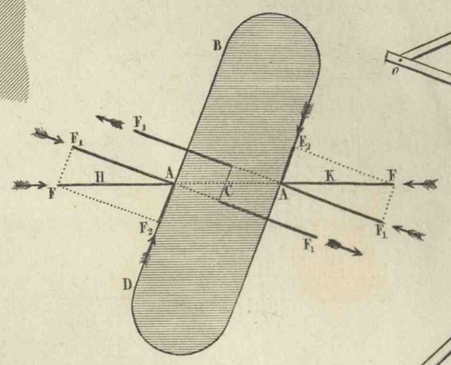


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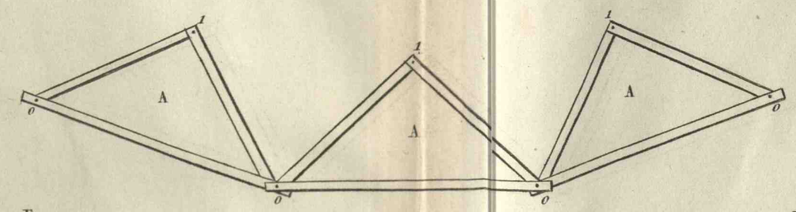


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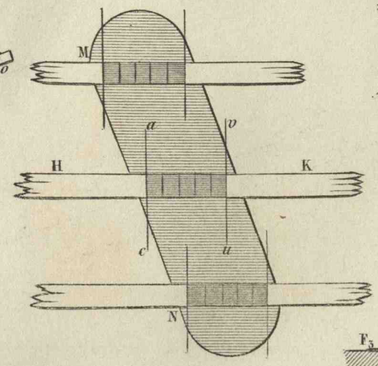


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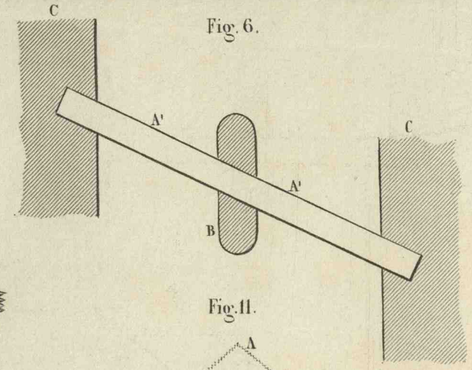


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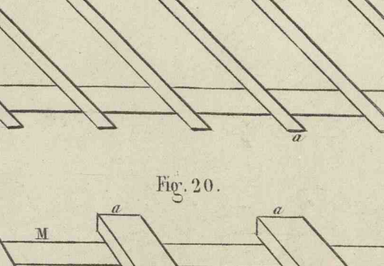


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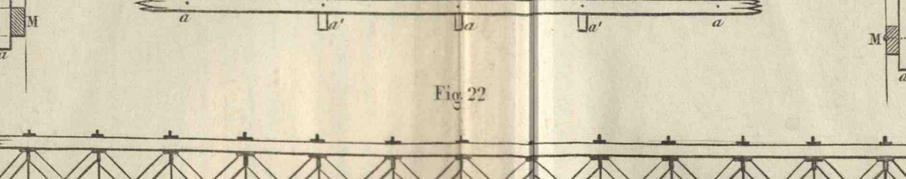


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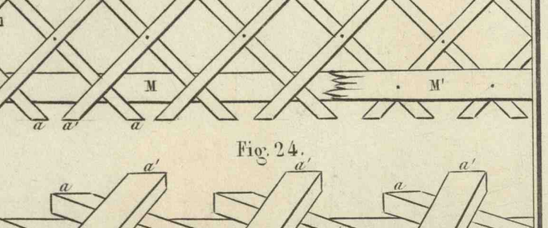


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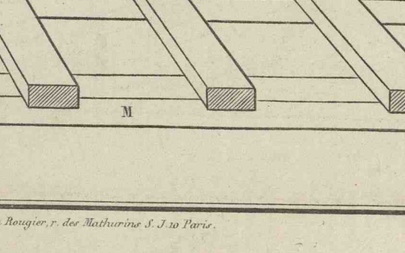


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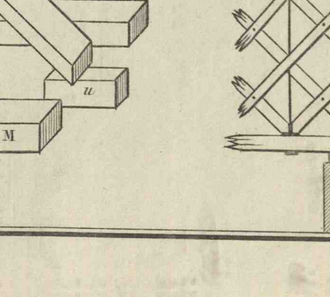


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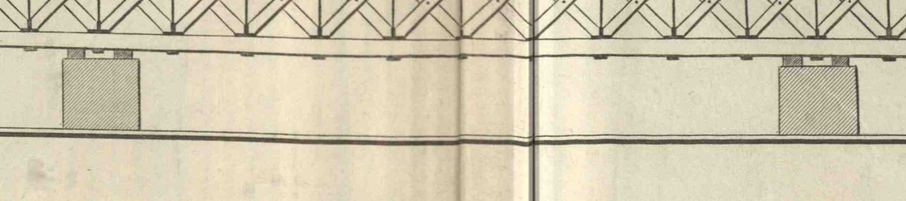


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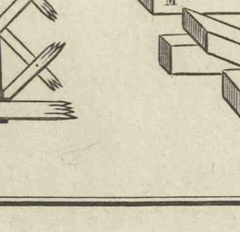


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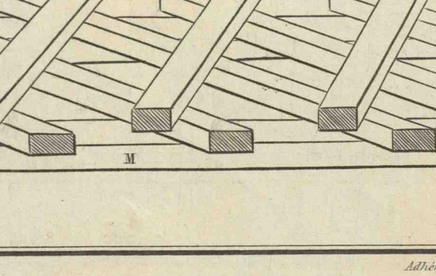


Fig. 17.

Fig. 13.

Fig. 14.

Fig. 15.

Fig. 19.

Fig. 20.

Fig. 21.

Fig. 18

Fig. 23.

Fig. 24.

Fig. 20.

Fig. 22

Fig. 24.

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

Adhémar del.

Ponts biais en bois

Fig. 1.

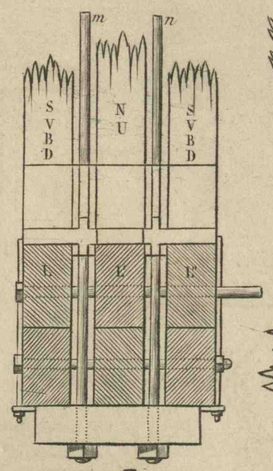


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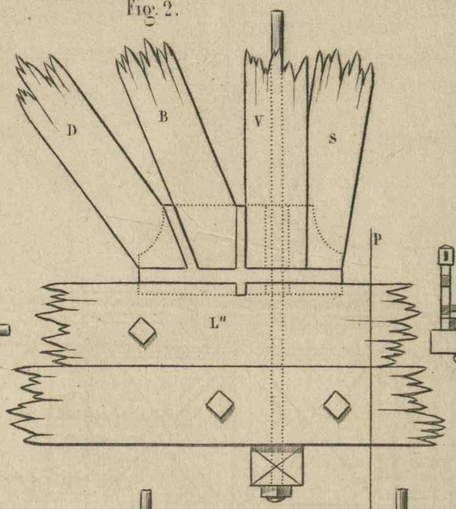


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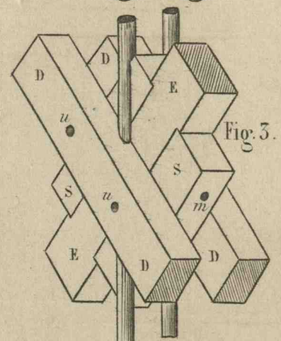


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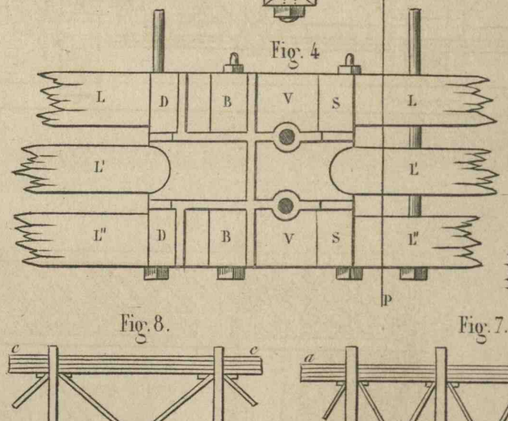


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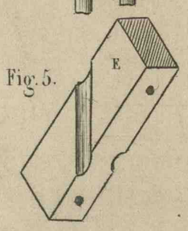


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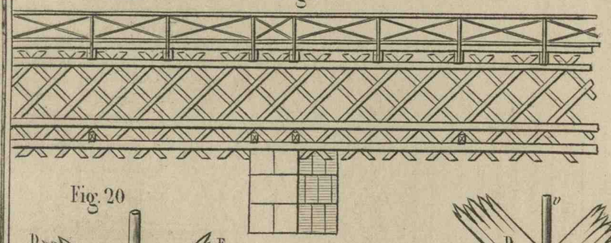


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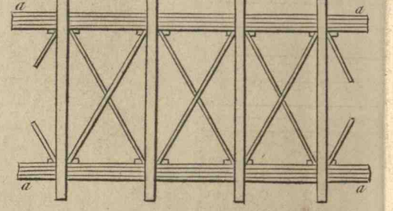


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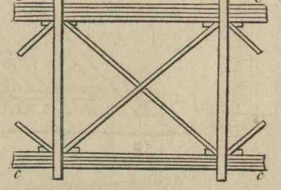


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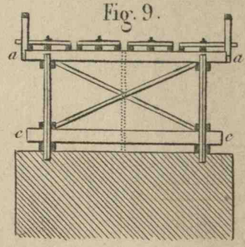


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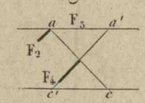


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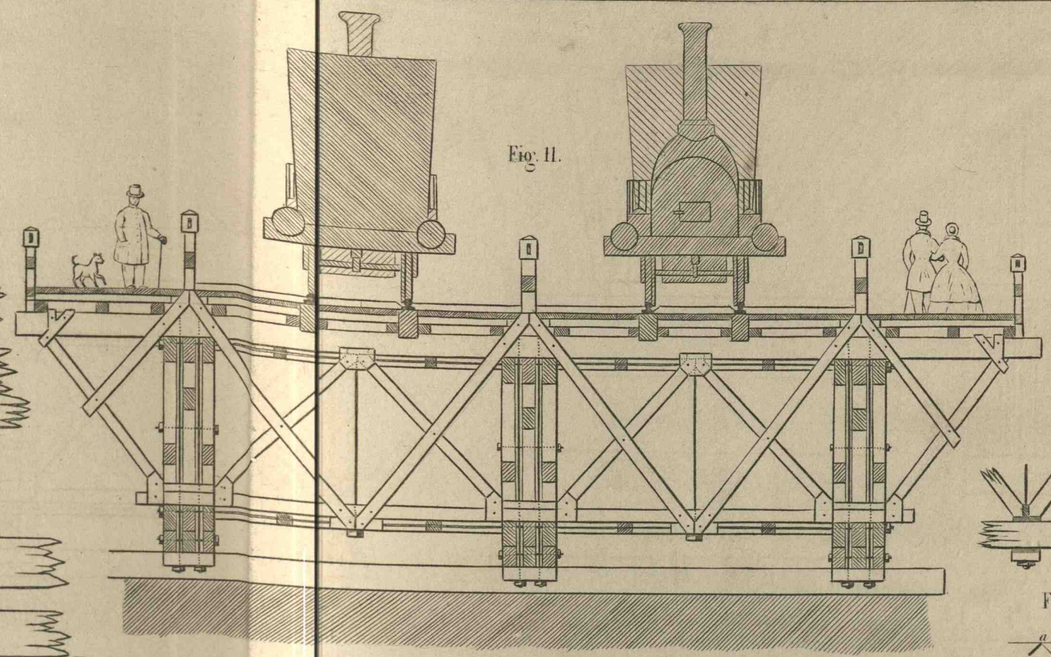


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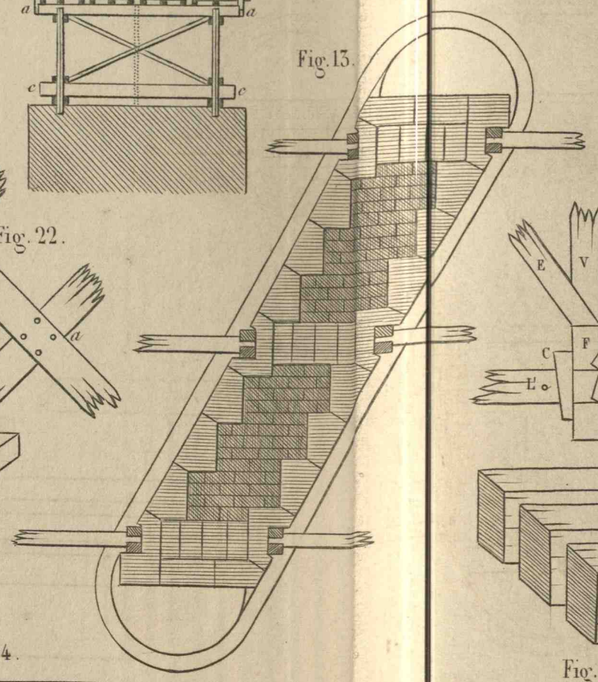


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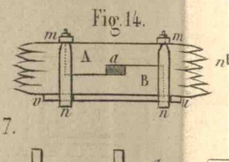


Fig. 15.

Fig. 16.

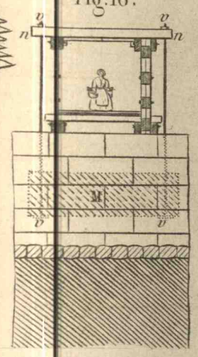


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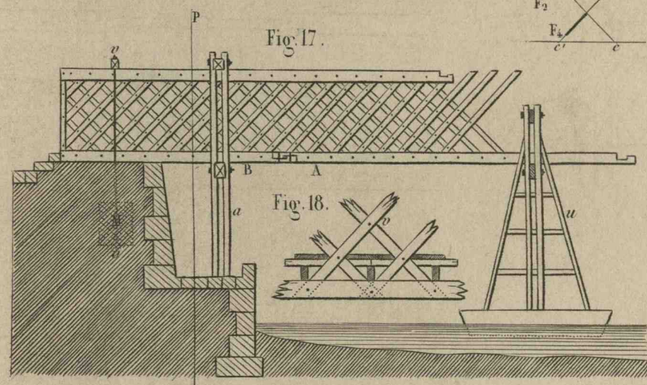


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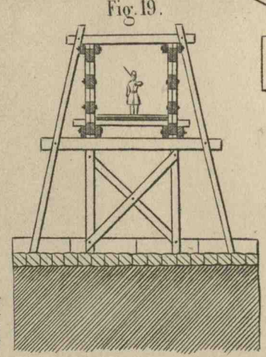


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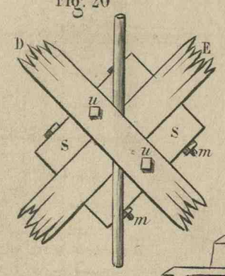


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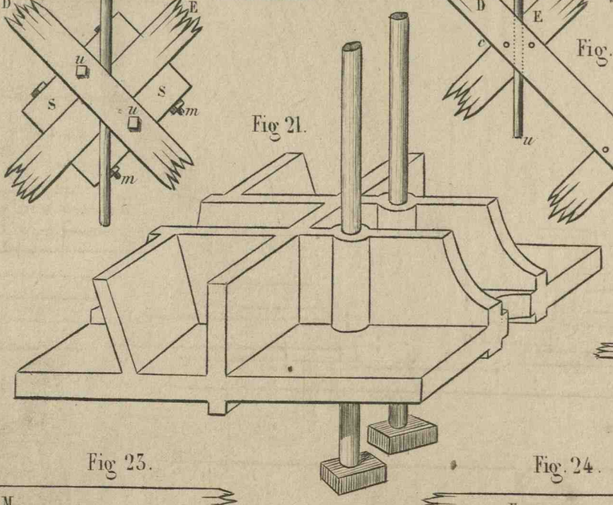


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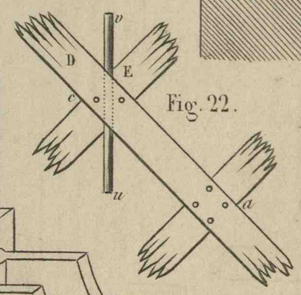


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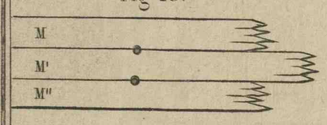


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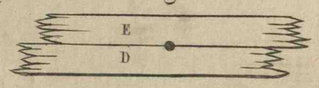


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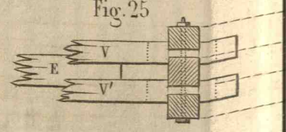


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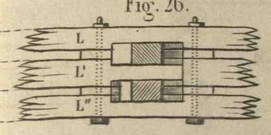


Fig. 27.

Fig. 28.

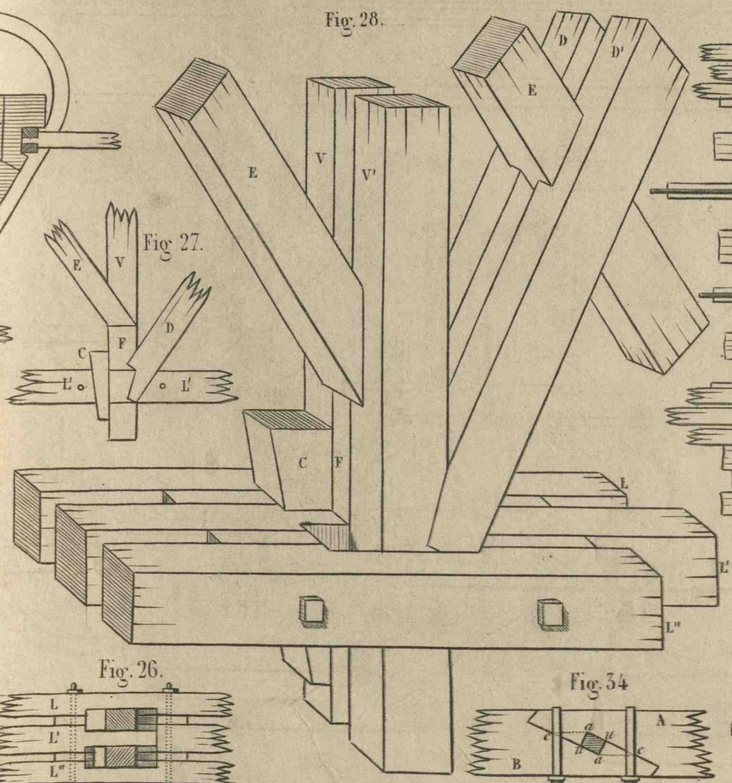


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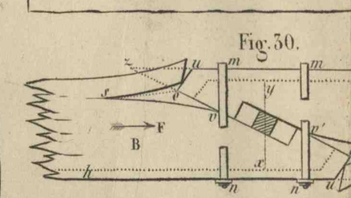


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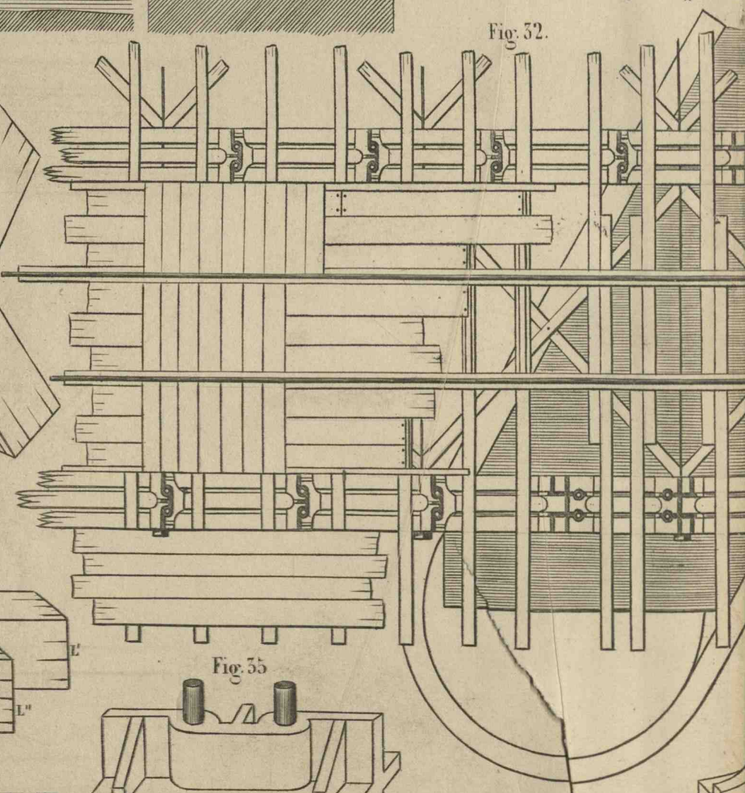


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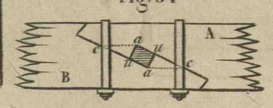


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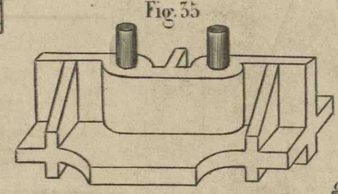


Fig. 36



Système Américain.

Fig. 29.

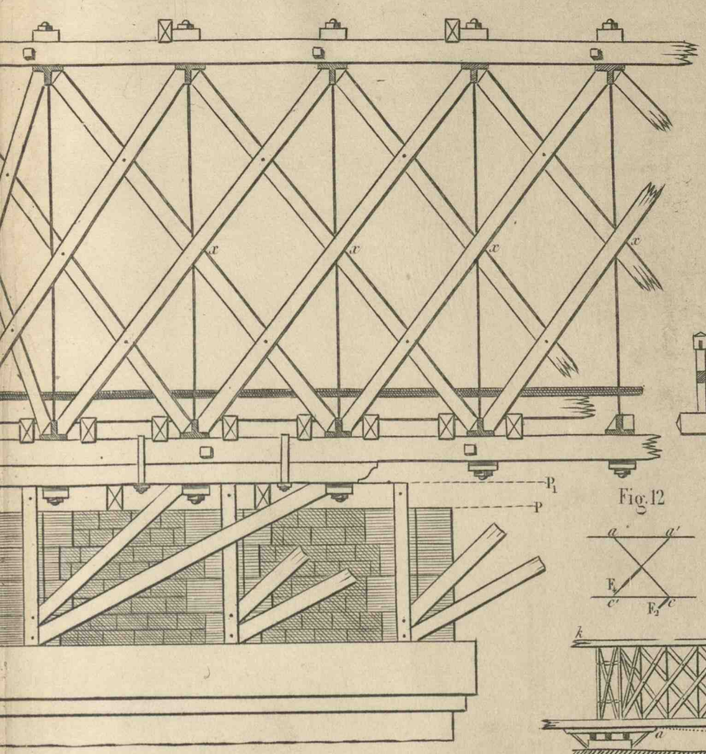


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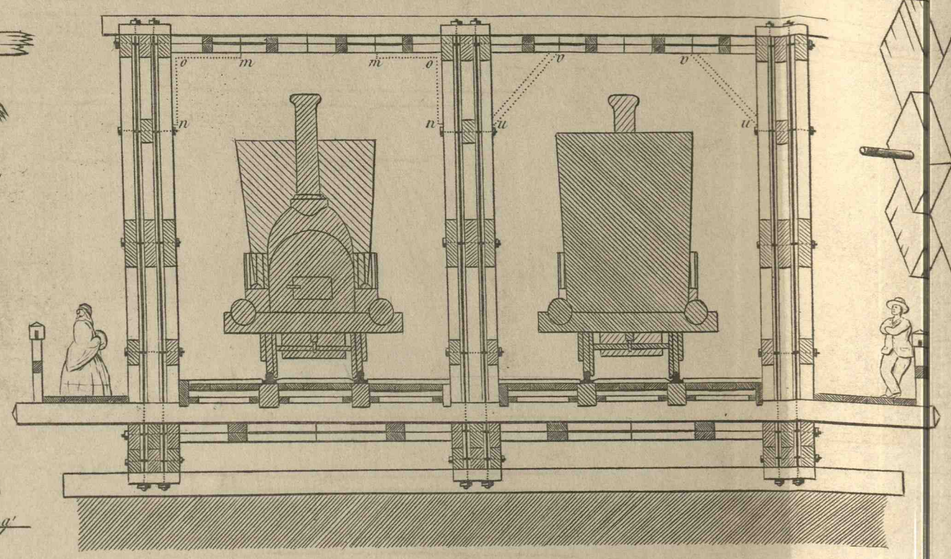


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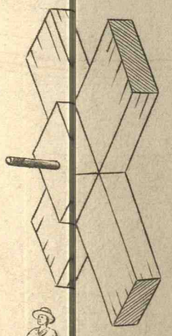


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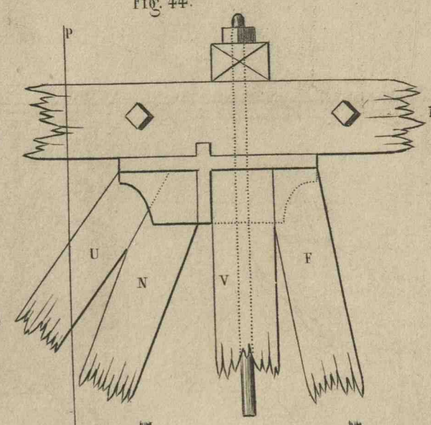


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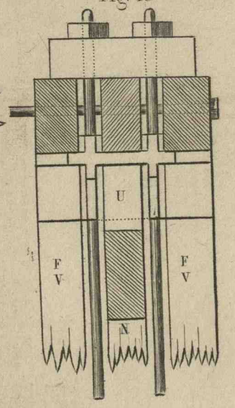


Fig. 12

Fig. 40

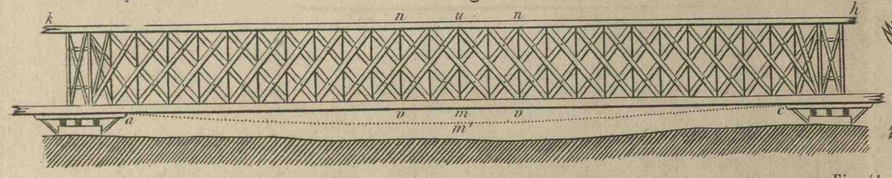


Fig. 15.



Fig. 46.

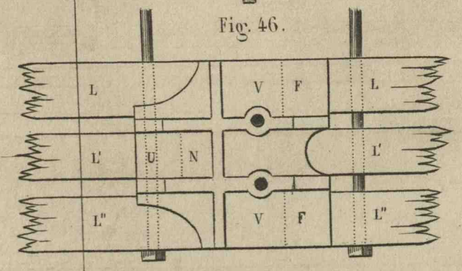


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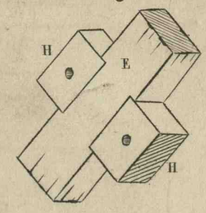


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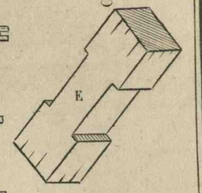


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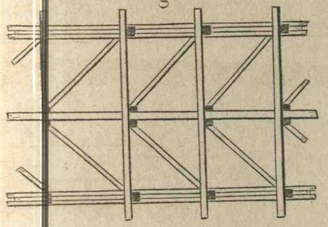


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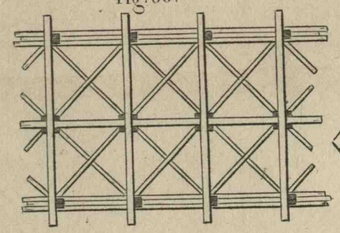


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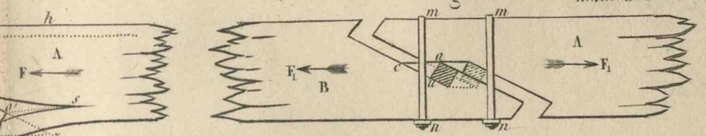


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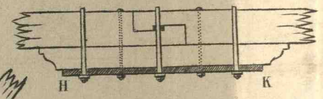


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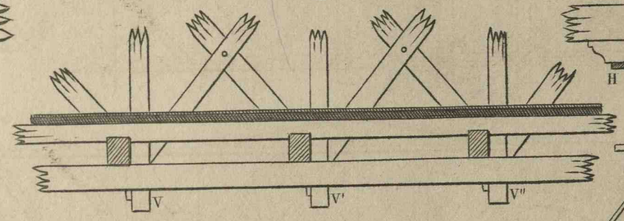


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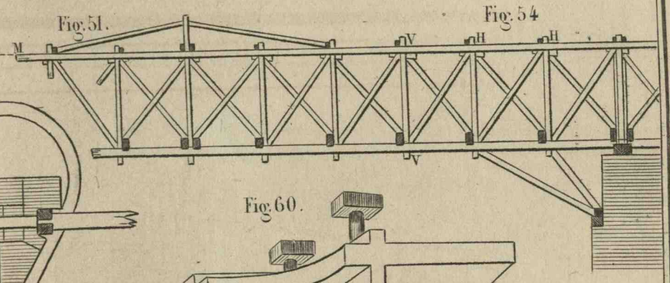


Fig. 54

Fig. 33.

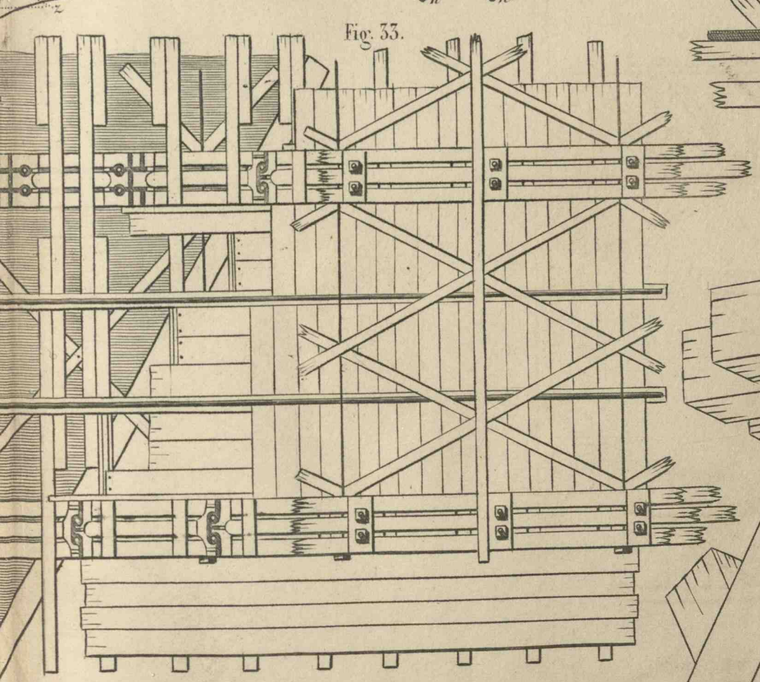


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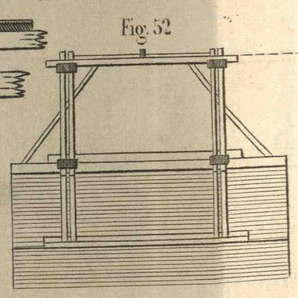


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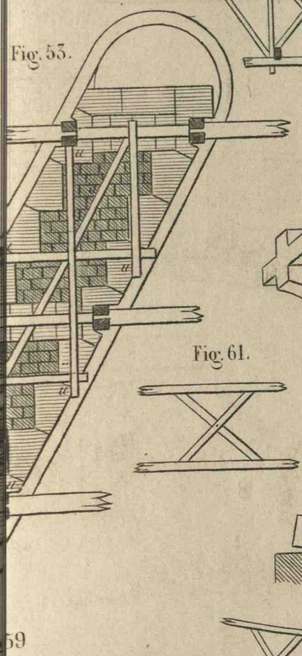


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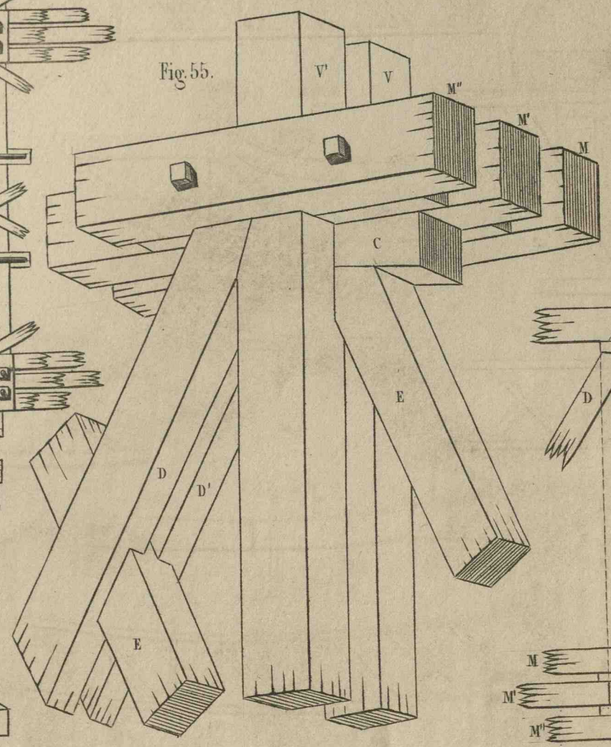


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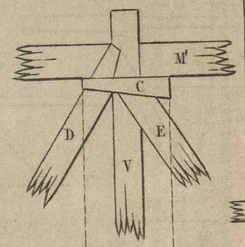


Fig. 56.



Fig. 60.

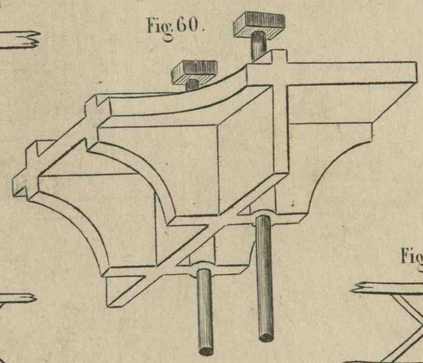


Fig. 61.

Fig. 62

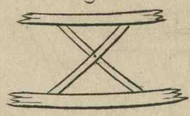


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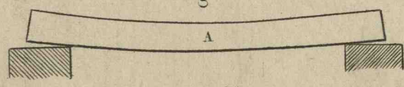


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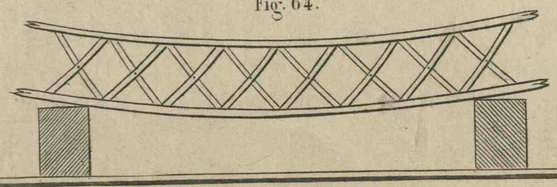


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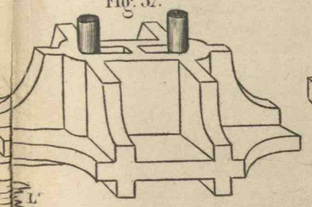


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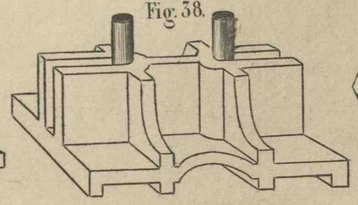


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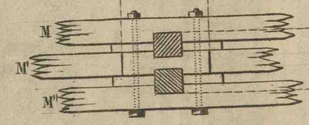
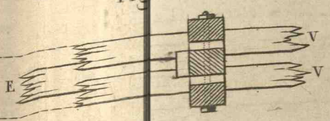


Fig. 59



Adhémar del.

Ponts biais — Américains.

Fig. 1.

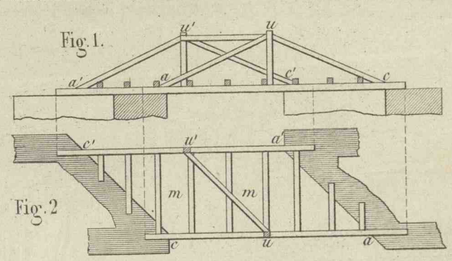


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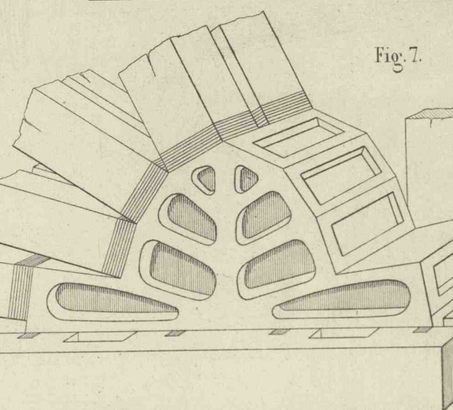


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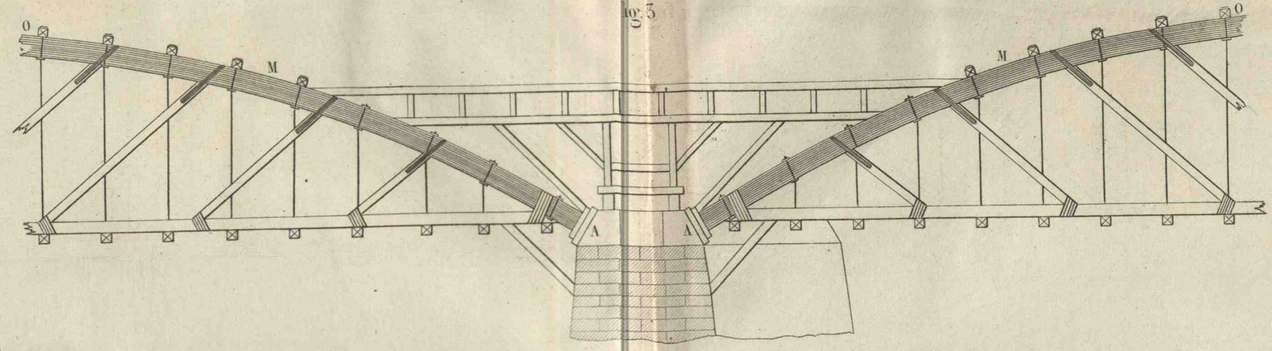


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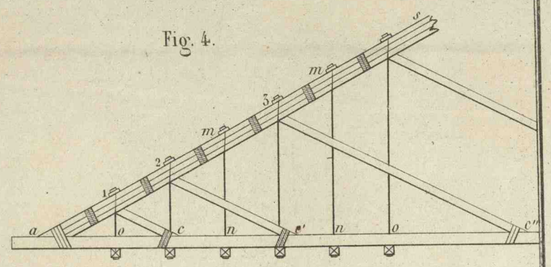


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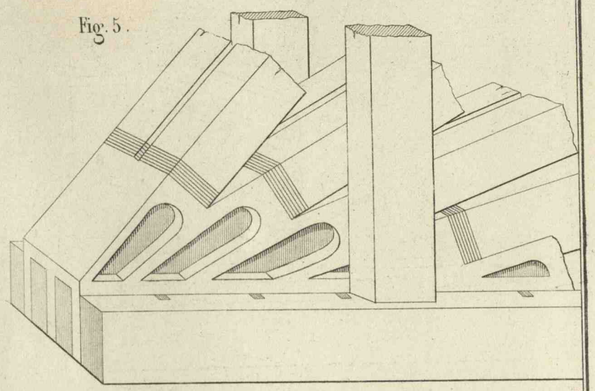


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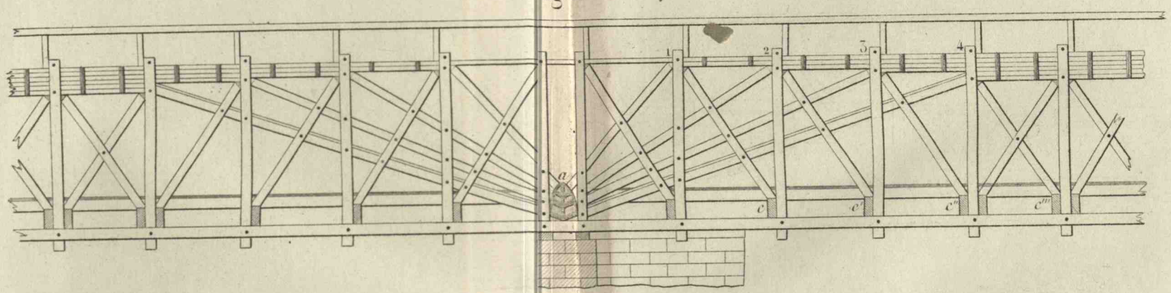


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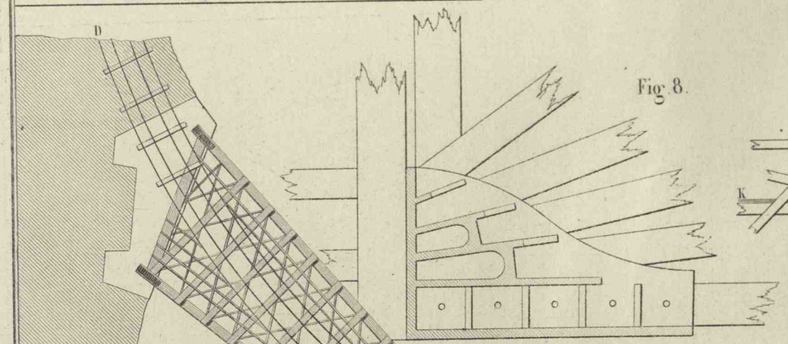


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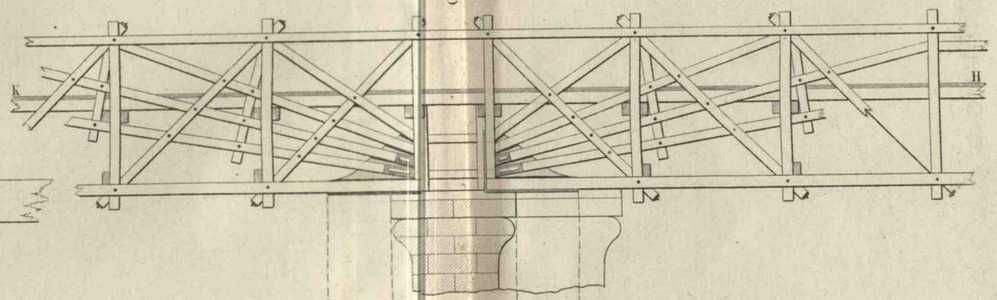


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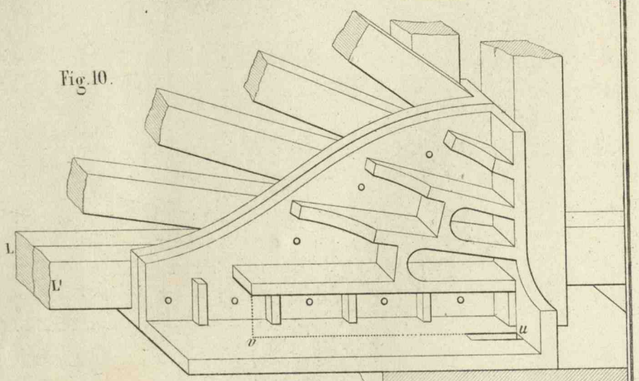


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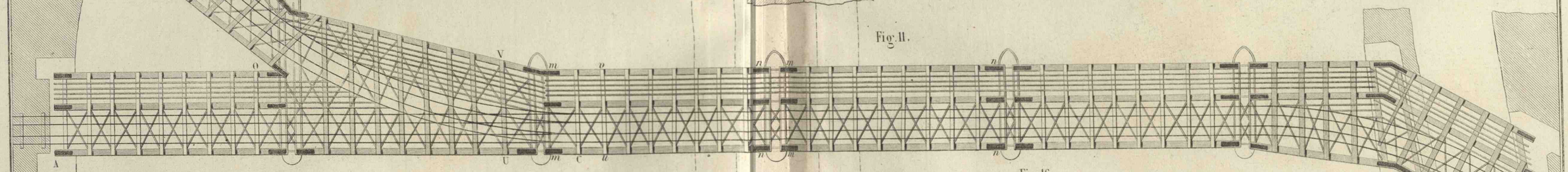


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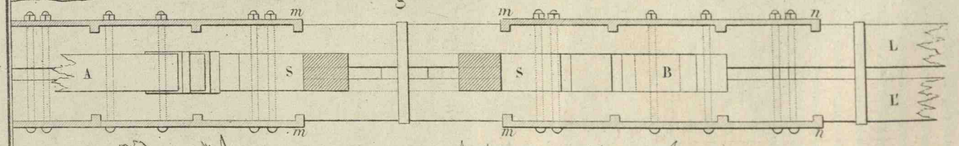


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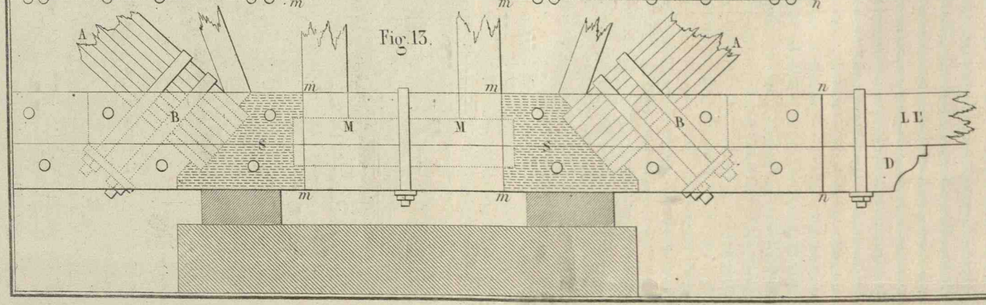


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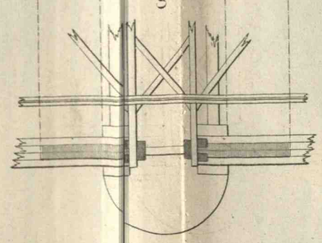


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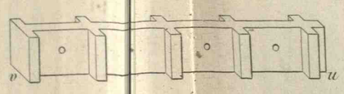
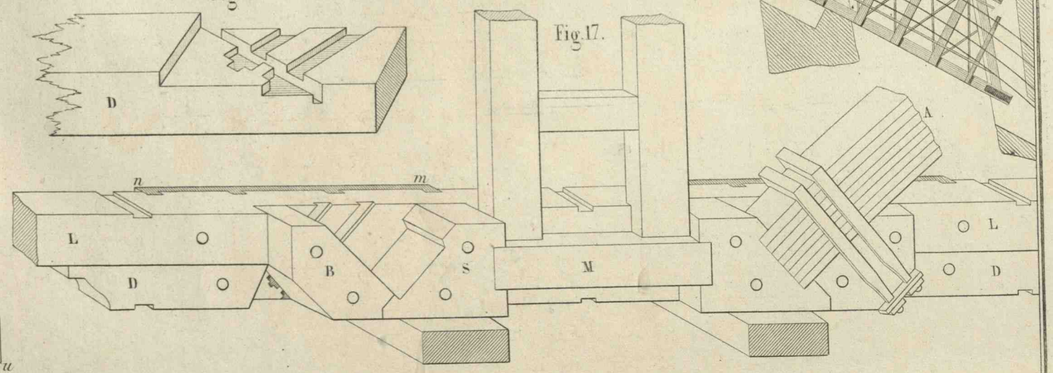


Fig. 16.

Fig. 17.



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Fig. 1.

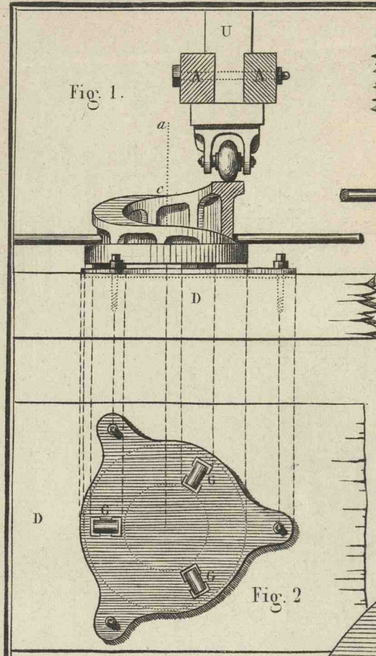


Fig. 2.

Fig. 3.

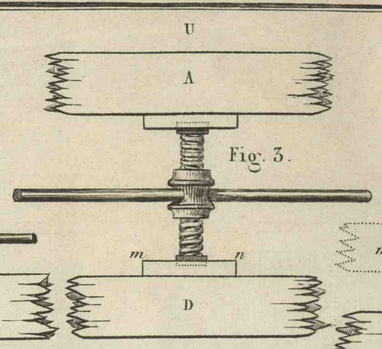


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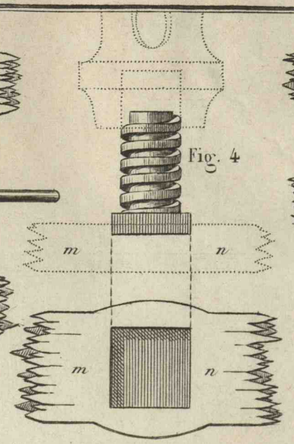


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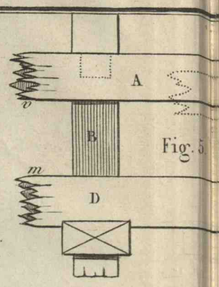


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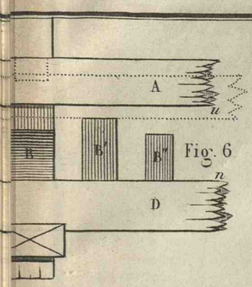


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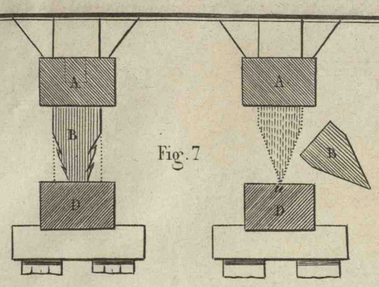


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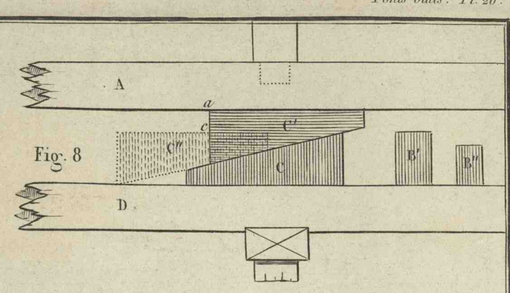


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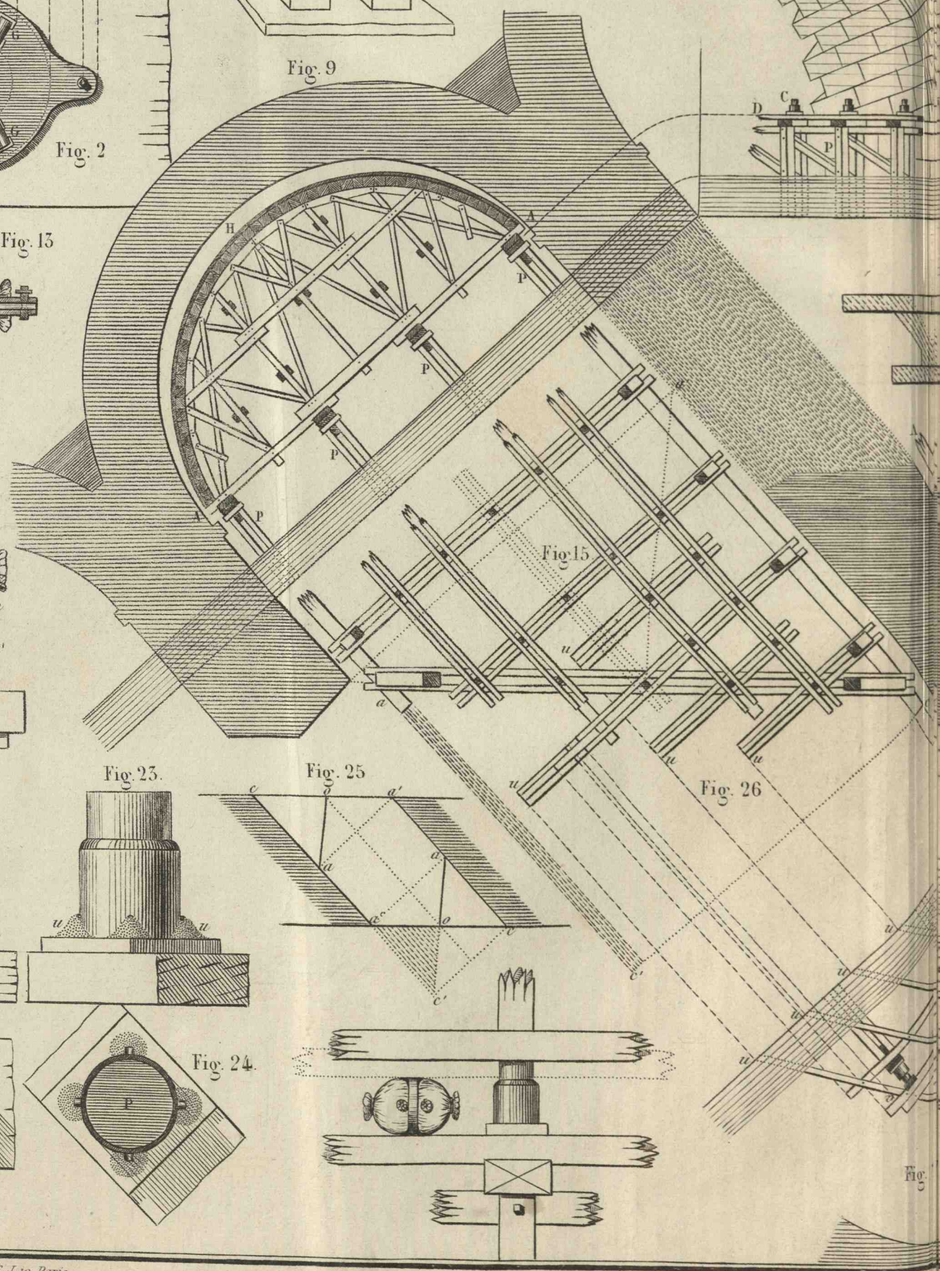


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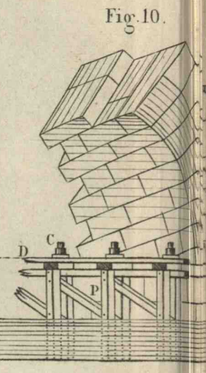


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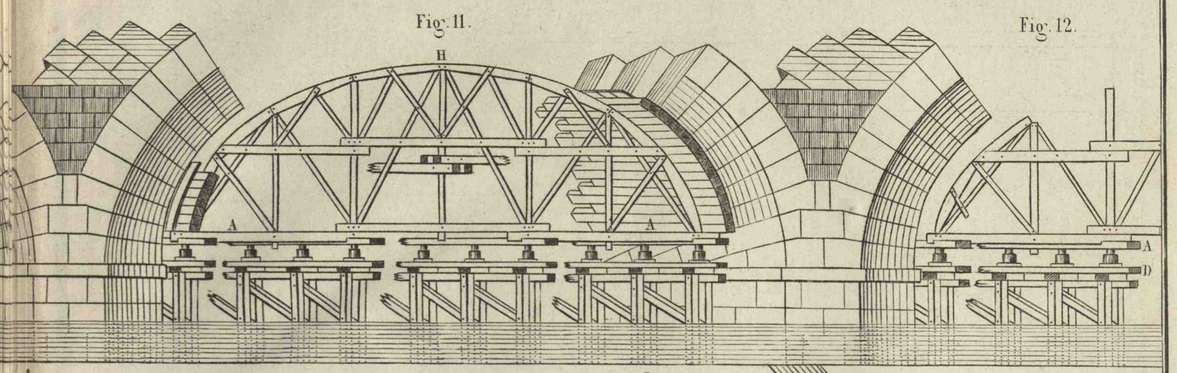


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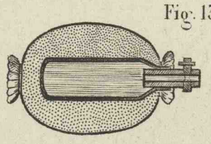


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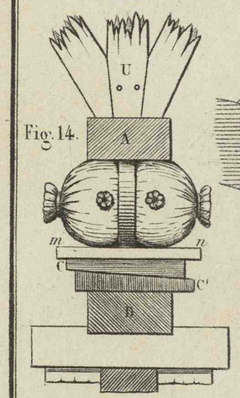


Fig. 15.

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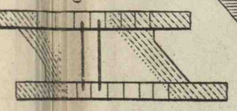


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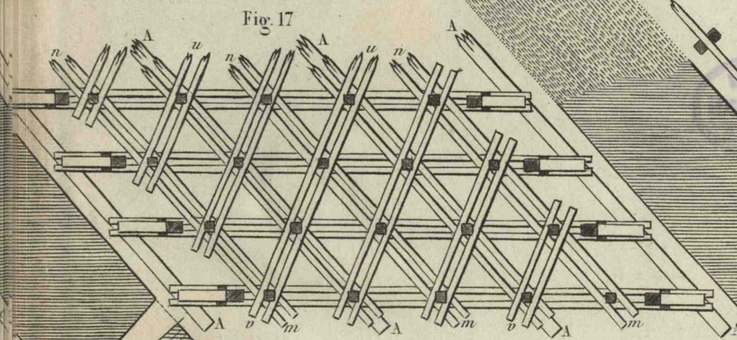


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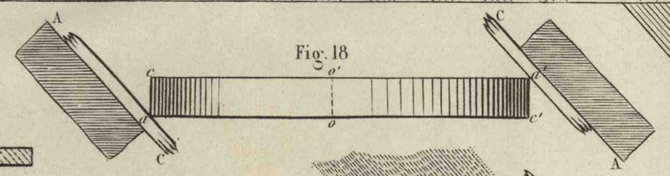


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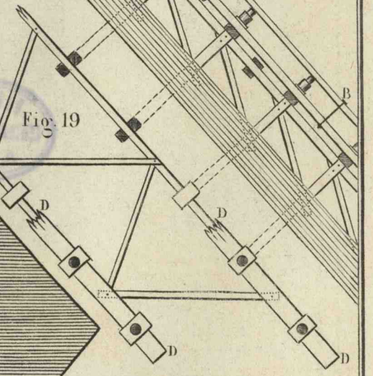


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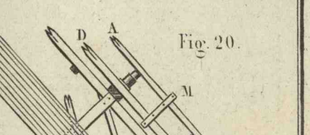


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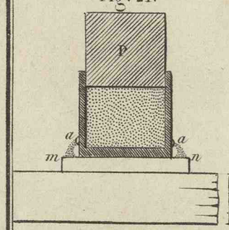


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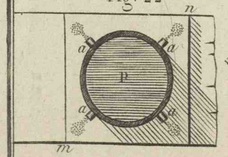


Fig. 23.

Fig. 24.

Fig. 25.

Fig. 26.

Fig. 27.

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