

LE
VIGNOLE DES MÉCANICIENS
ESSAI

SUR LA CONSTRUCTION DES MACHINES

ÉTUDES DES ÉLÉMENTS QUI LES CONSTITUENT

TYPES ET PROPORTIONS DES ORGANES QUI COMPOSENT LES MOTEURS, LES TRANSMISSIONS DE MOUVEMENT ET AUTRES MÉCANISMES

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CHEVALIER DE LA LÉGION D'HONNEUR

ATLAS

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1865

LE VIGNOLE DES MÉCANICIENS

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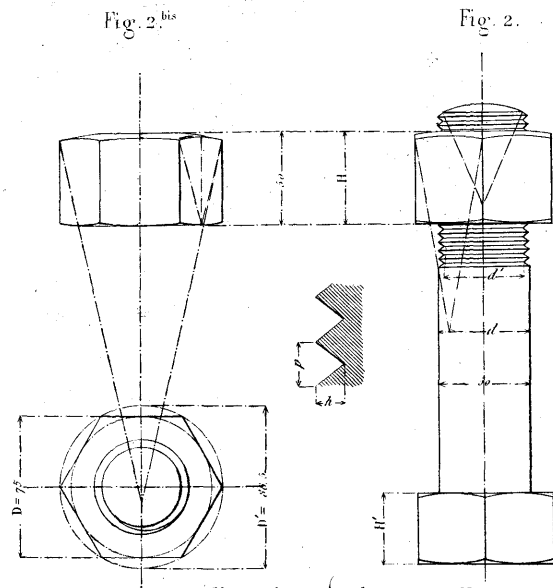
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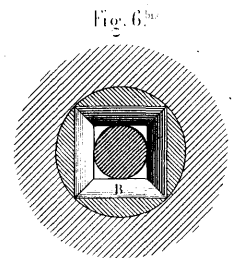
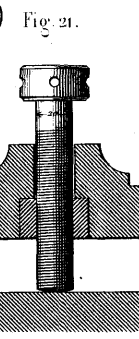
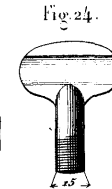
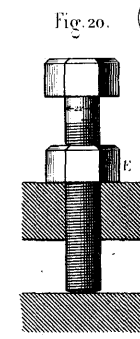
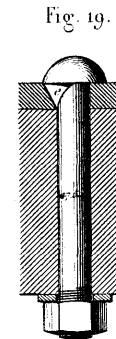
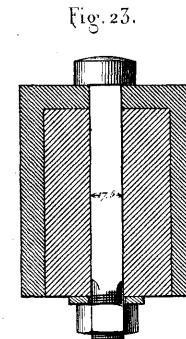
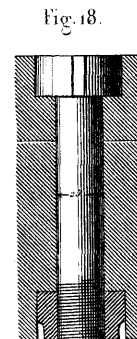
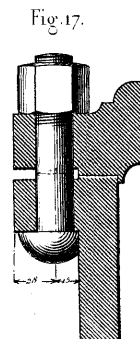
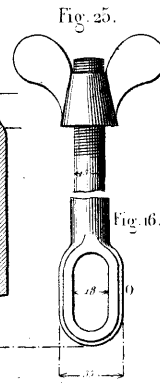
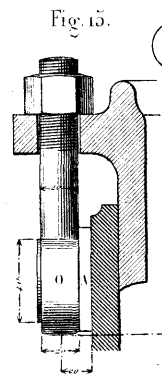
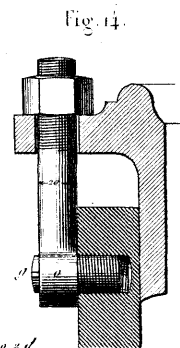
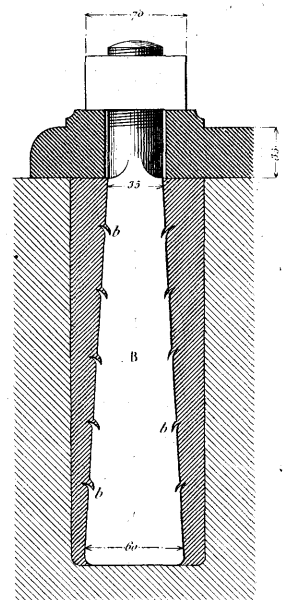
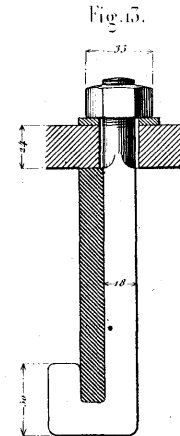
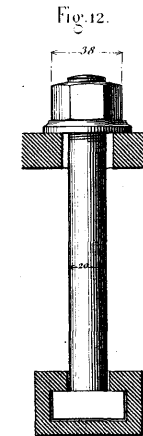
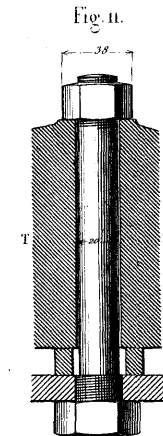
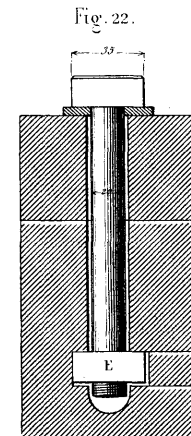
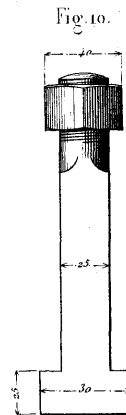
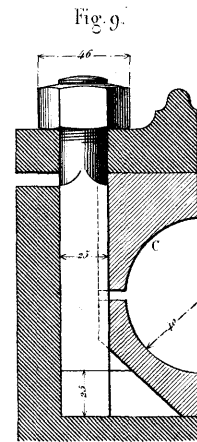
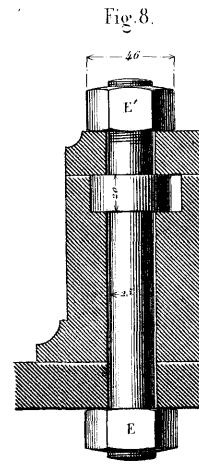
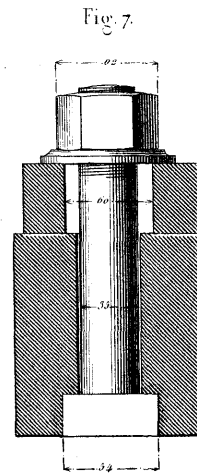
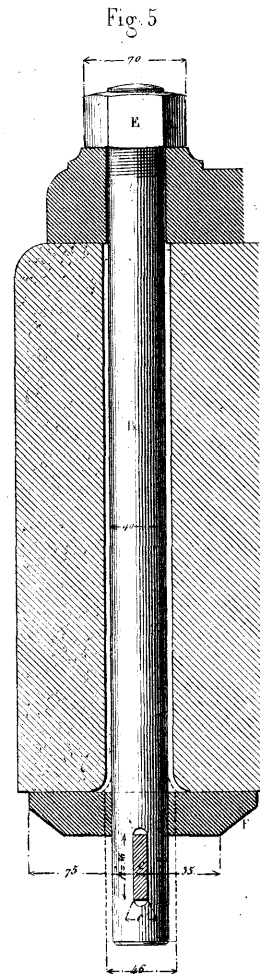
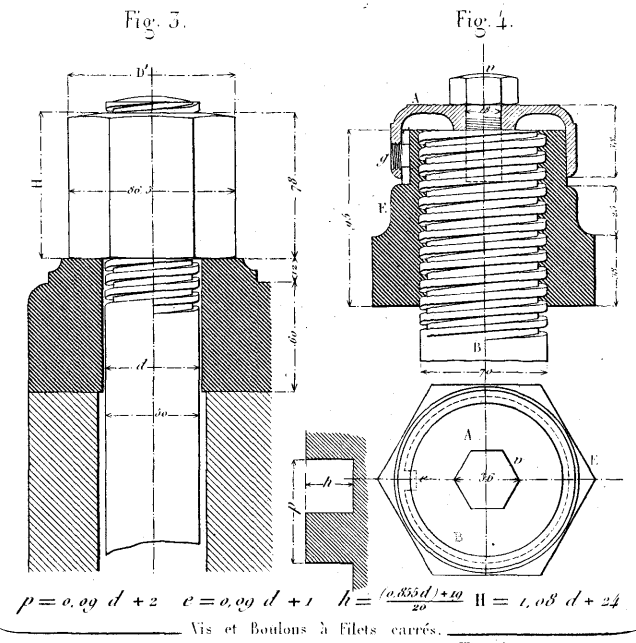
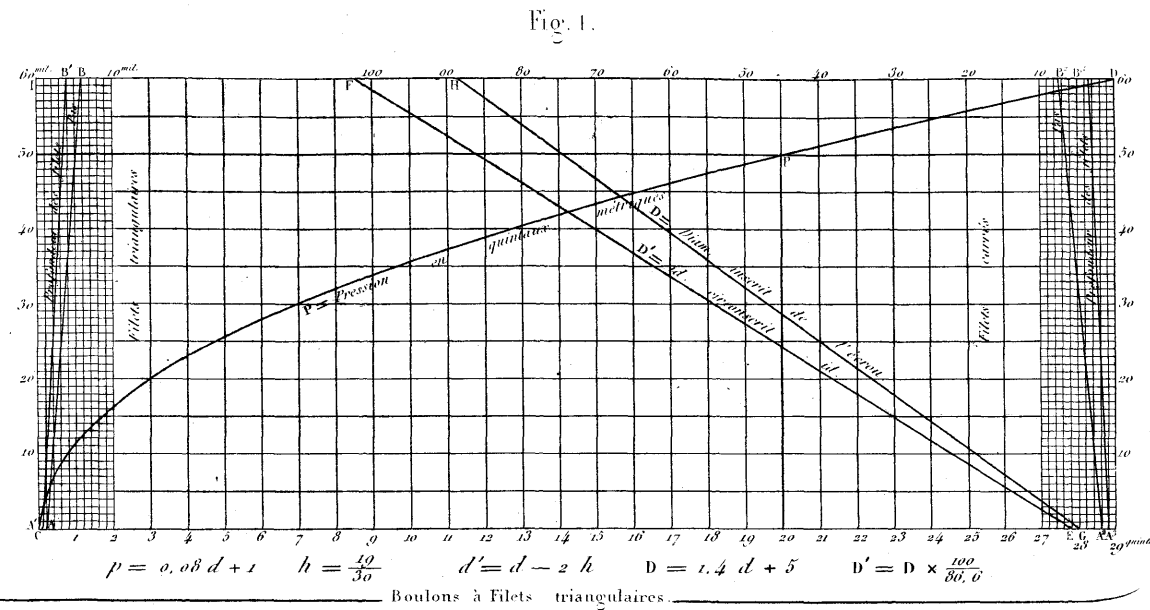
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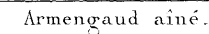


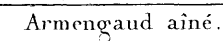
Formules $d = \frac{10}{9} \sqrt{P}$

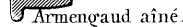


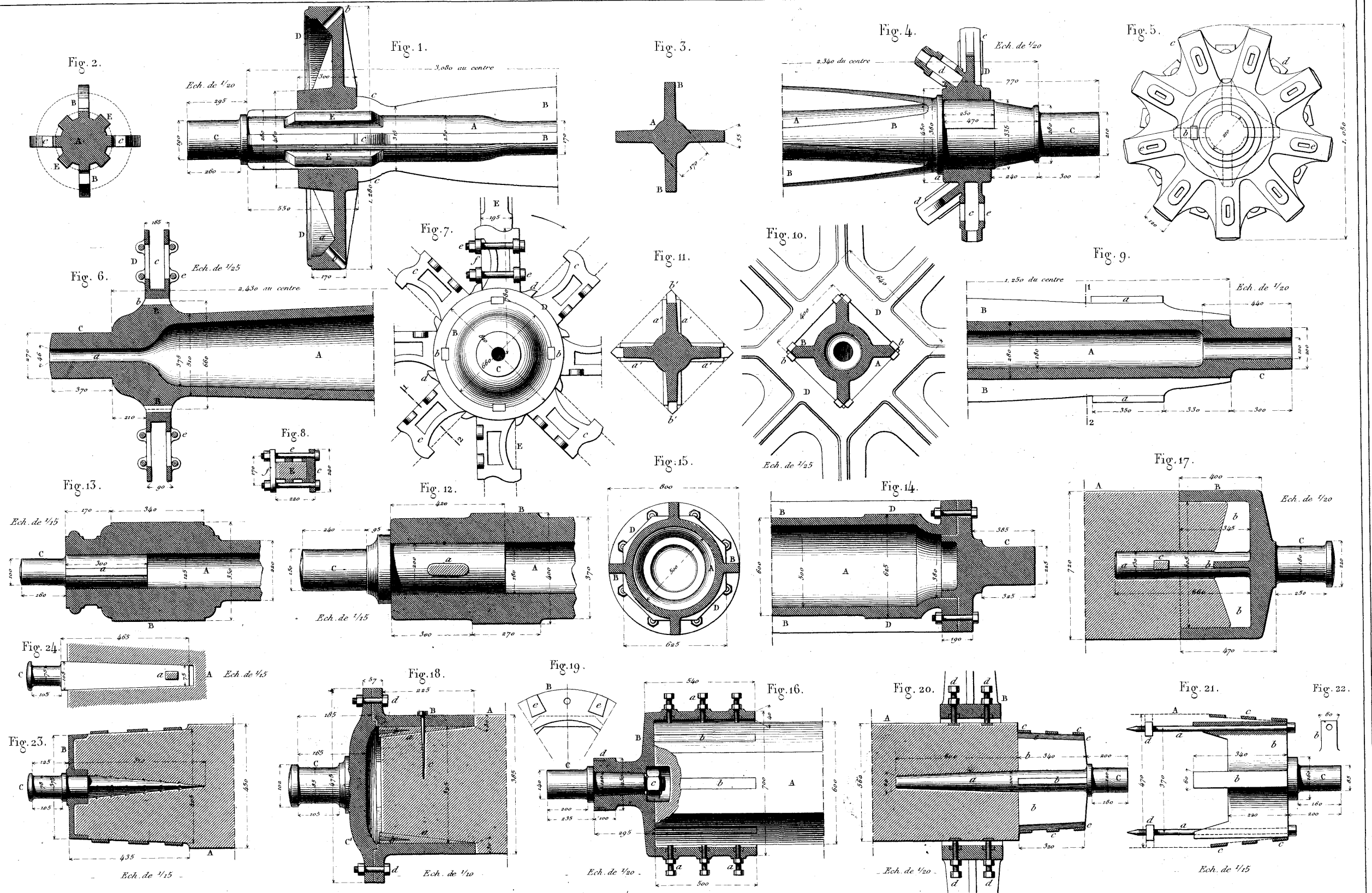
$d' = 0,2 d$
 $h' = 0,9 d$

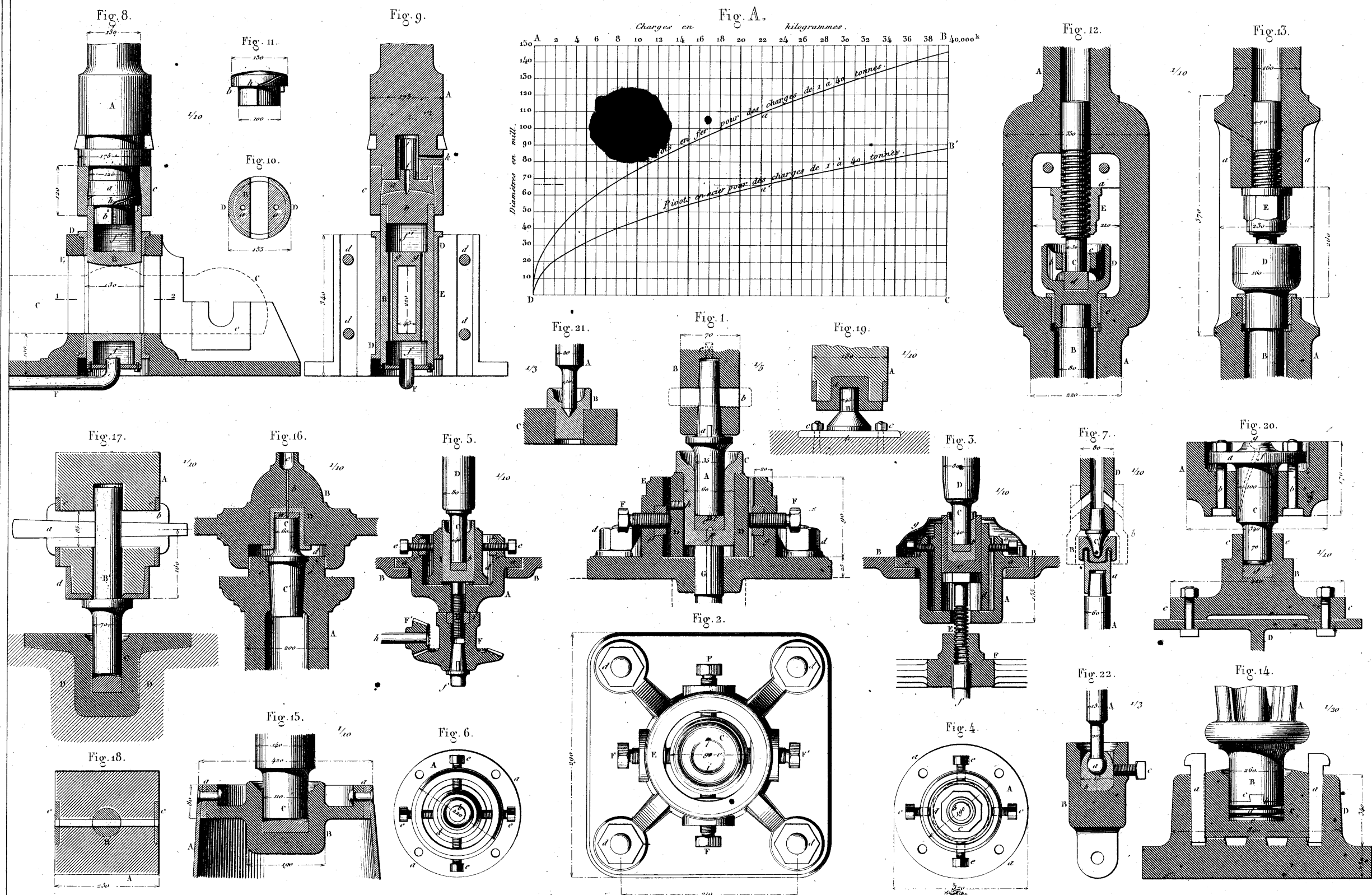
Pour les Echelles pour les cotés.

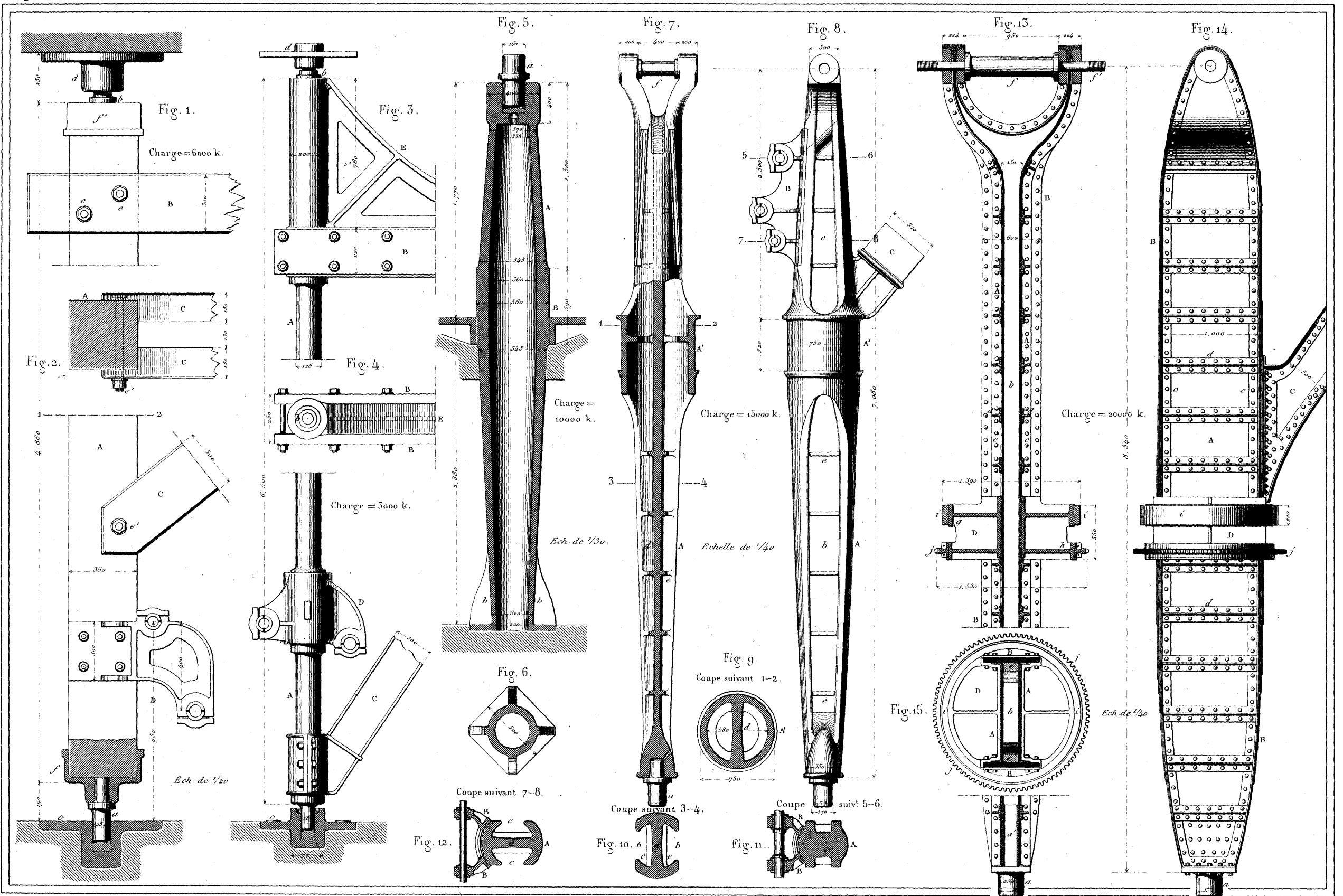


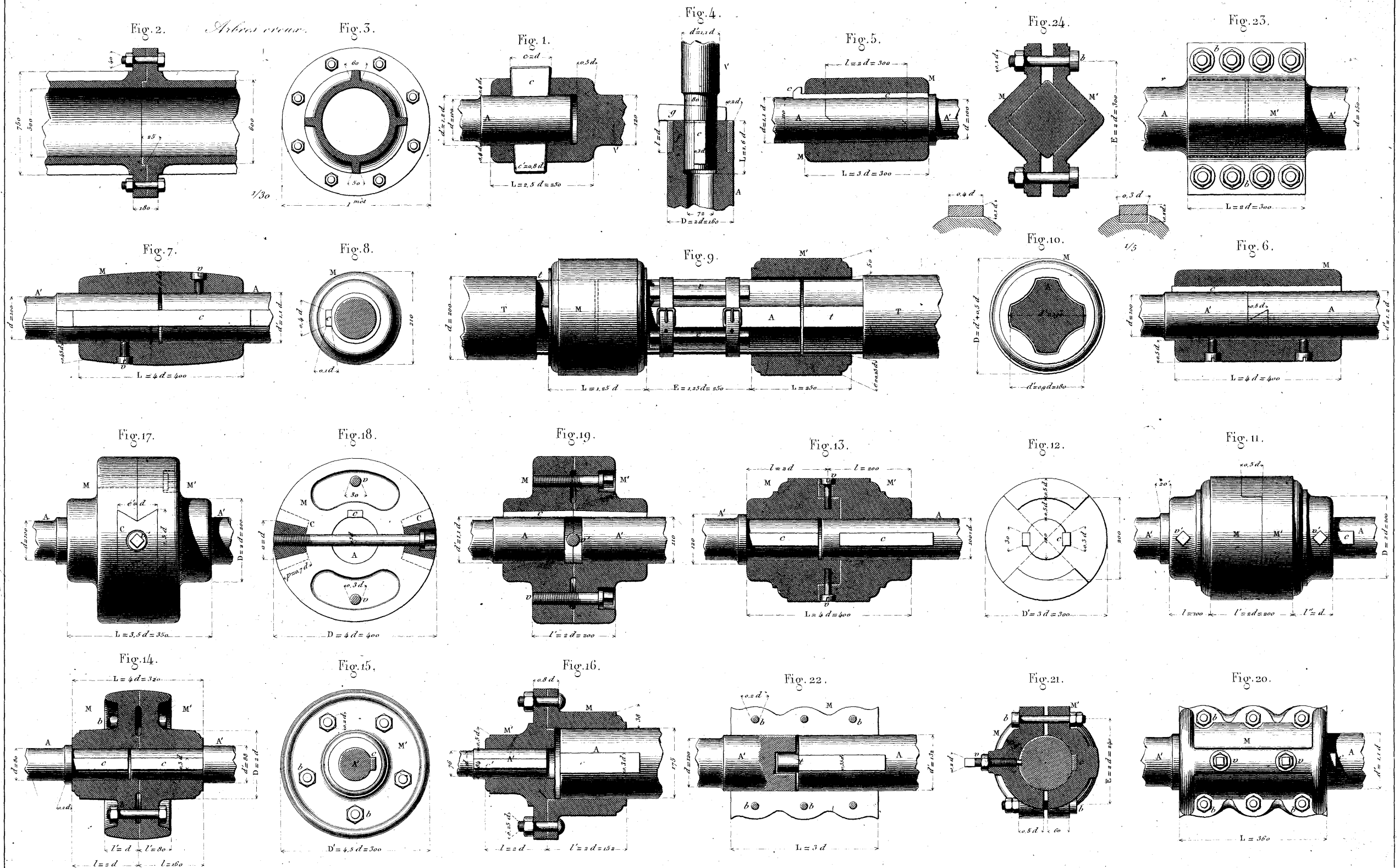










Echelle de $\frac{1}{40}$ pour les Fig. 1, 4 à 24.

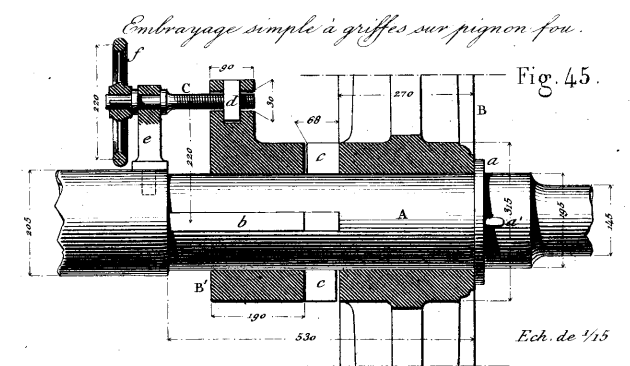


Fig. 40. Ensemble d'embrayage à griffes.

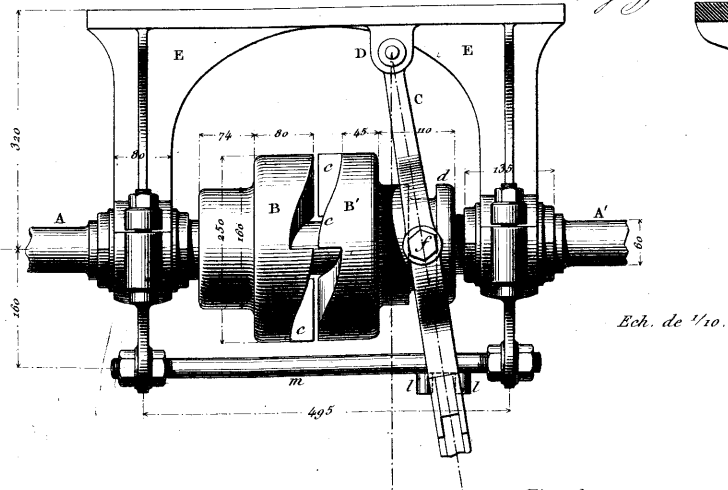


Fig. 41.

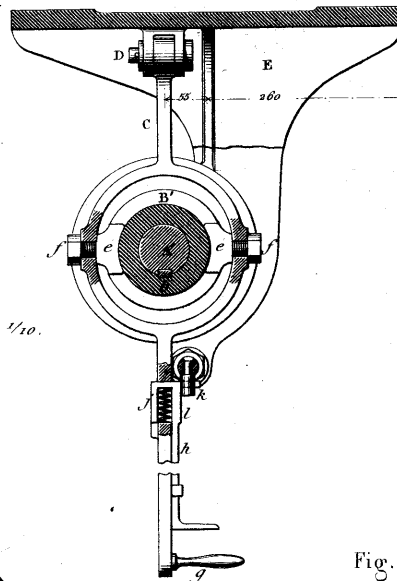


Fig. 51.

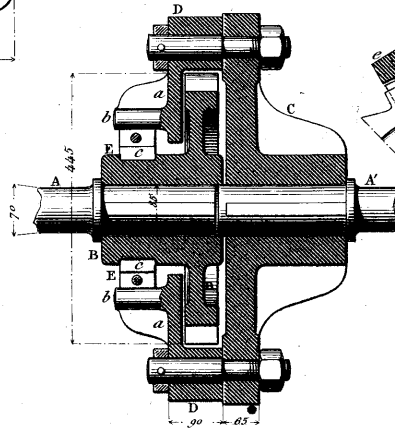


Fig. 54.

Jonction de moteurs.

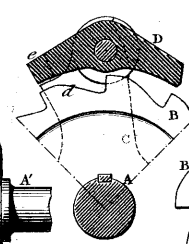


Fig. 52.

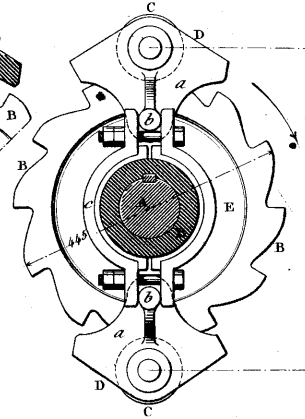


Fig. 53.

Ech. de 1/12.

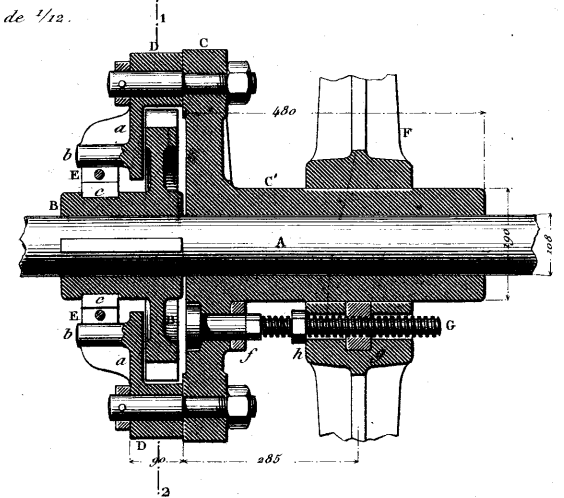


Fig. 65.

Fig. 69.

Embrayage par friction à cônes renversés.

Ech. de 1/8.

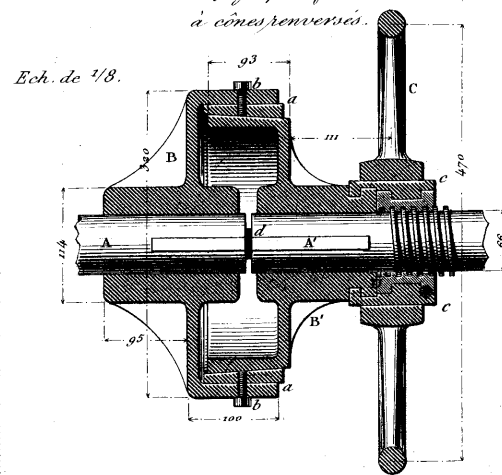
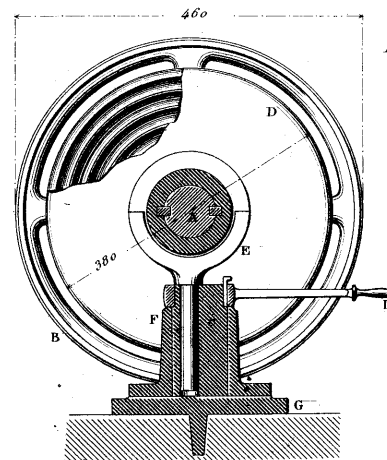


Fig. 71.



Embrayage et changement de marche par plateaux à friction.

Echelle de 1/10.

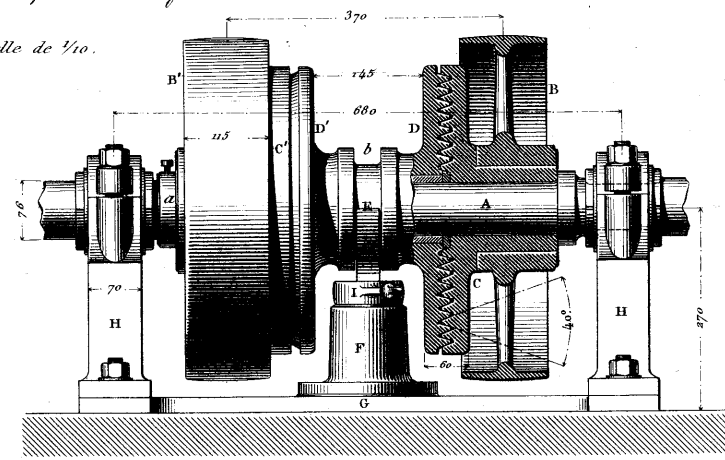
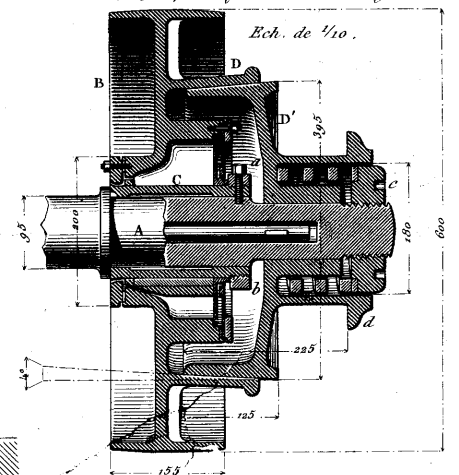


Fig. 68.

Embrayage par friction et à ressort.

Ech. de 1/10.



Embrayage par friction à pression arbitraire.

Echelle de 1/15.

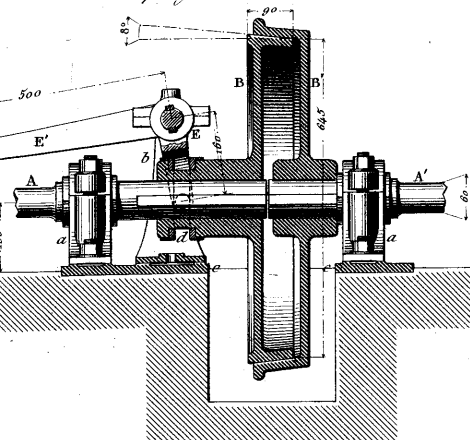


Fig. 66.

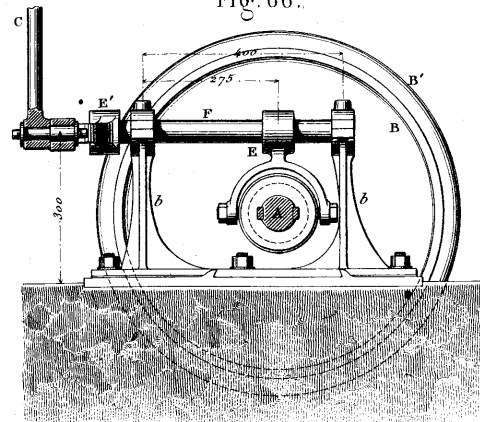
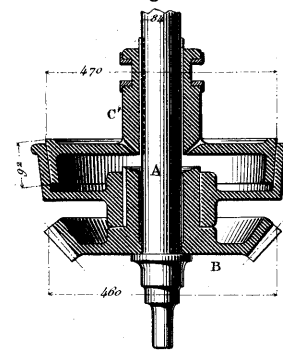
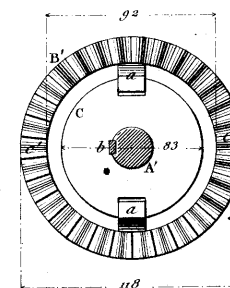


Fig. 67.



Ech. de 1/15.

Fig. 47.



Embrayage des cylindres d'un moteur Selfacting.

Ech. de 1/4.

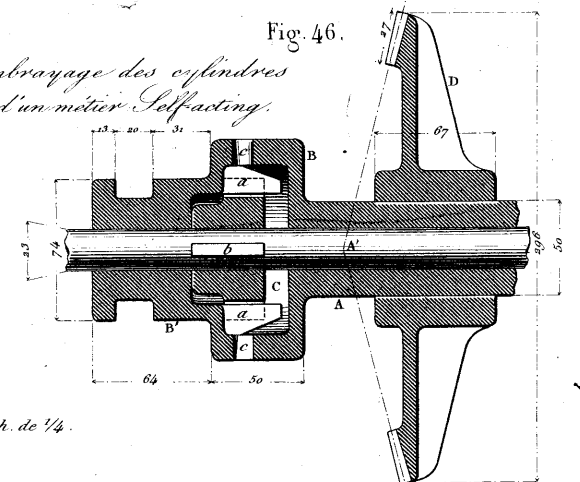
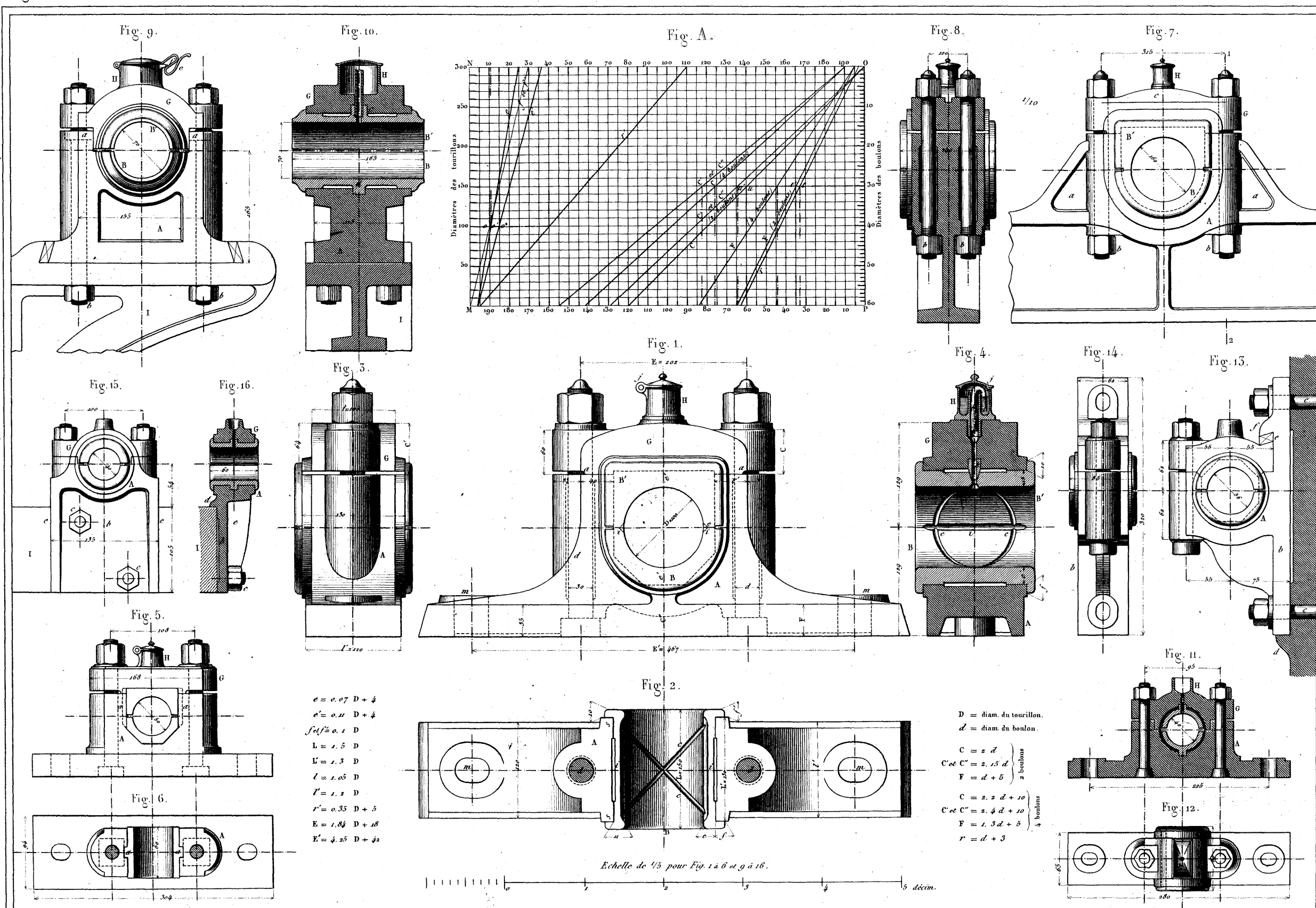
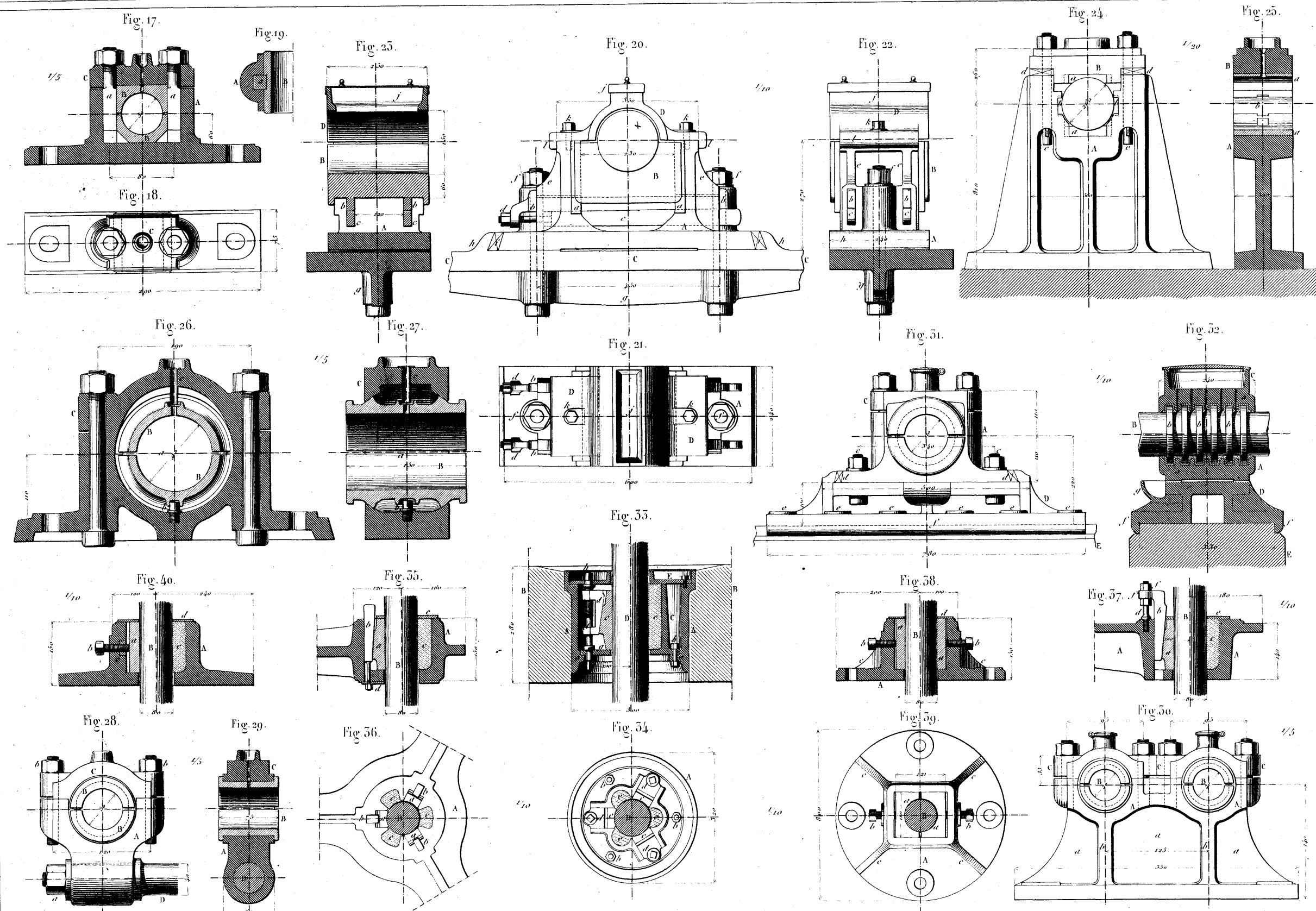
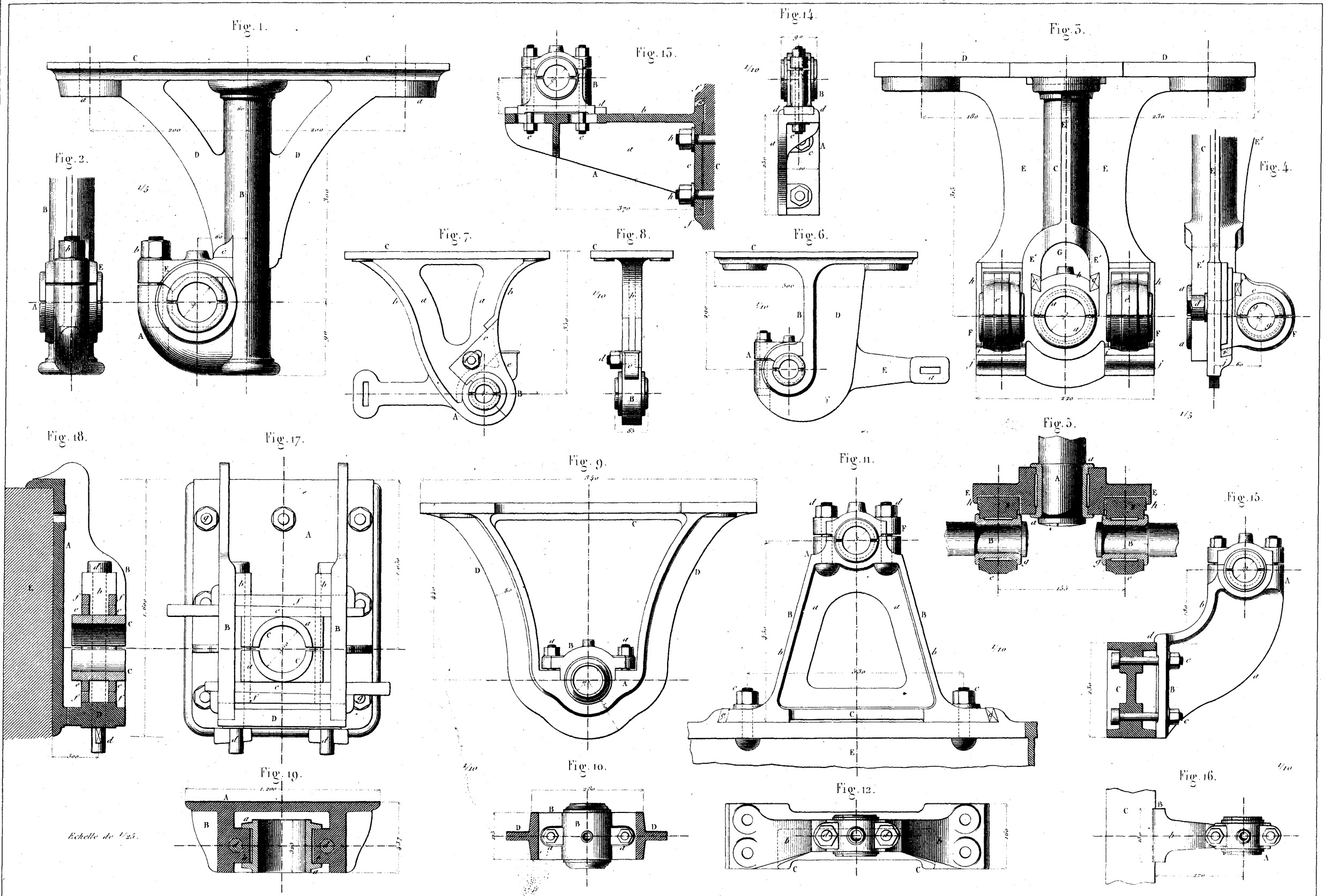
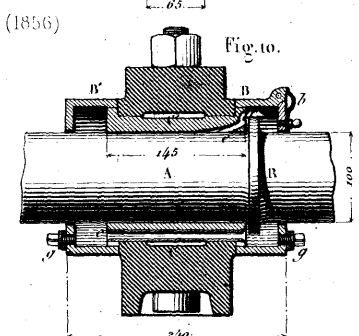
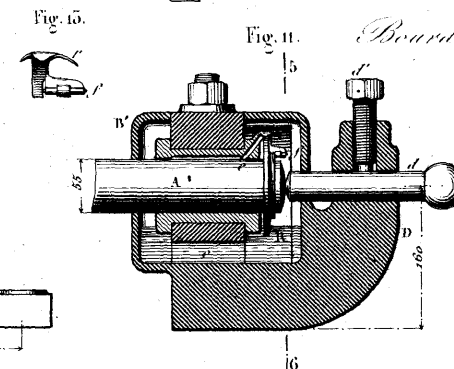
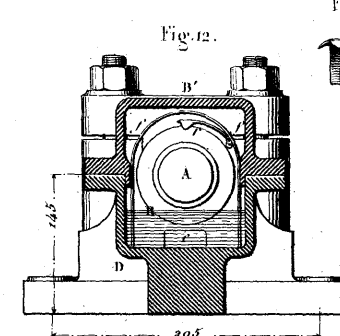
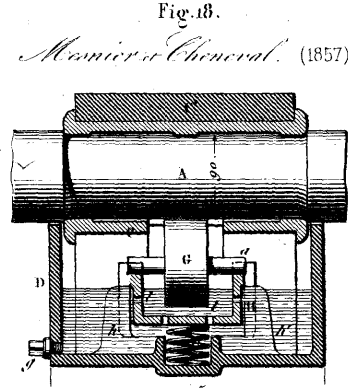
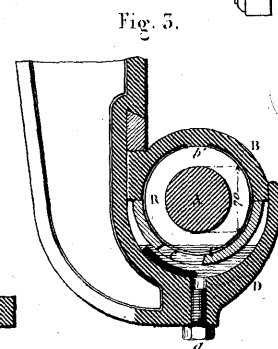
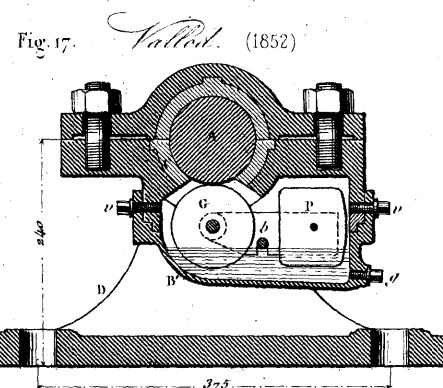
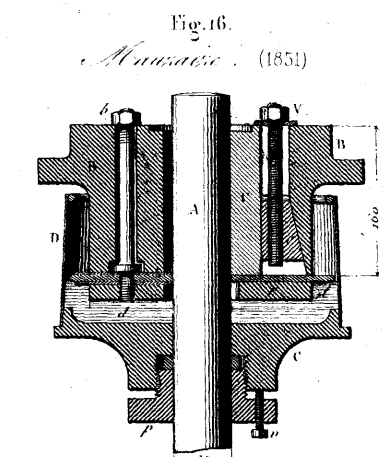
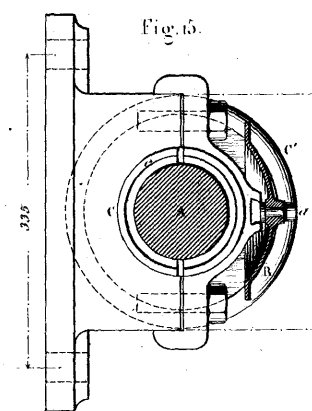
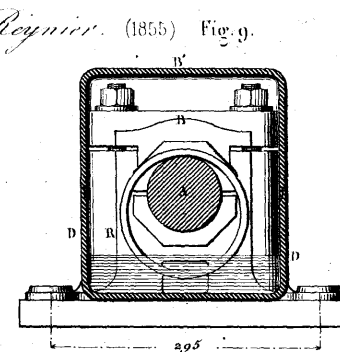
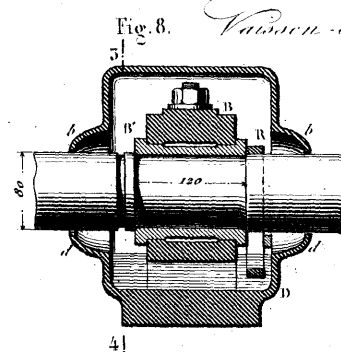
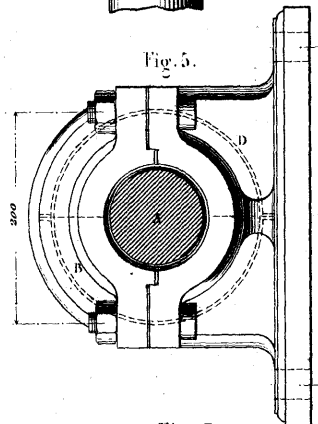
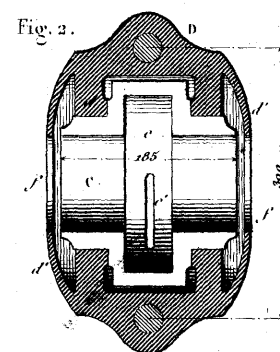
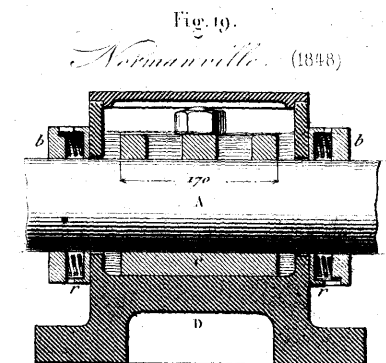
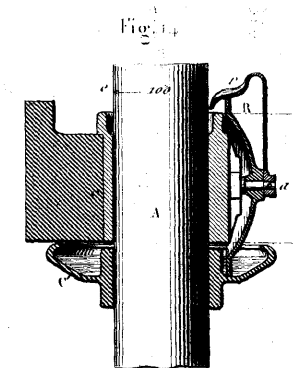
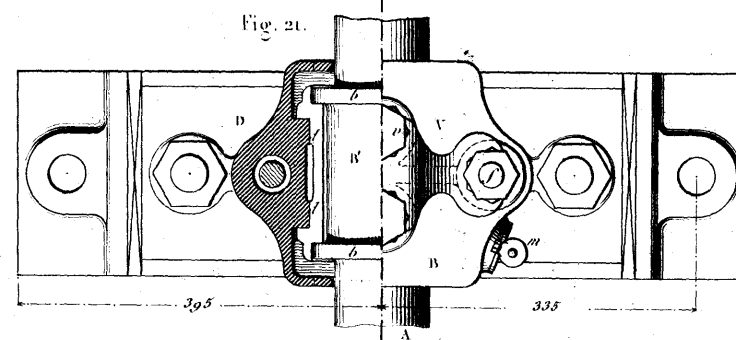
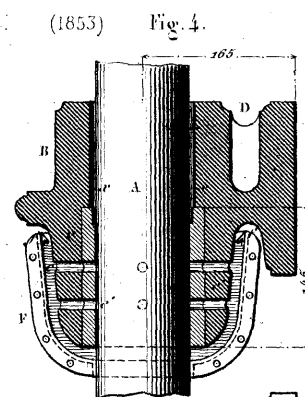
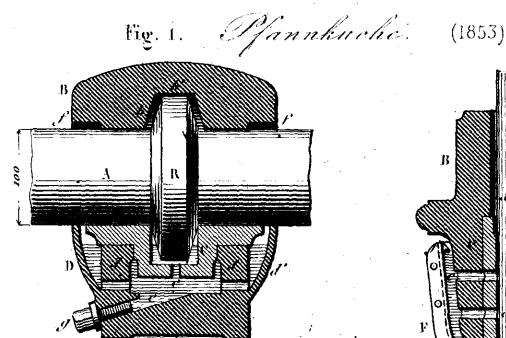
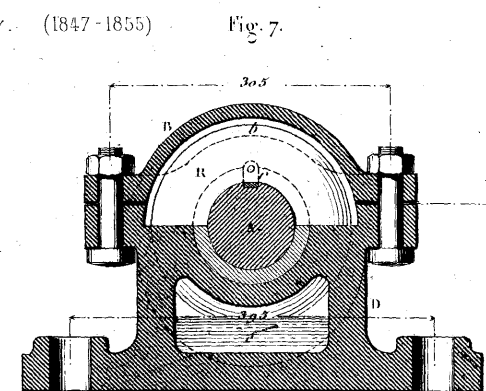
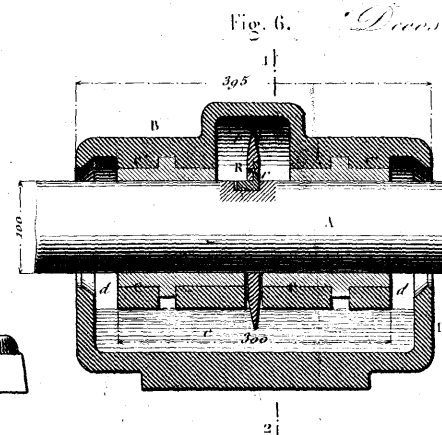
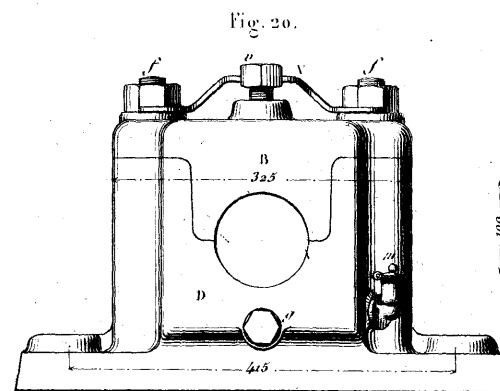
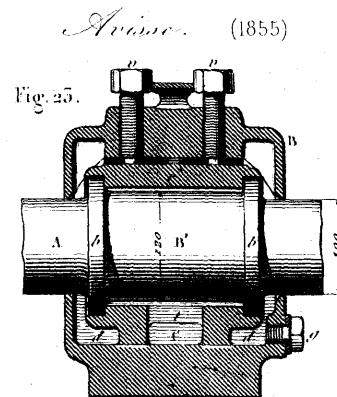
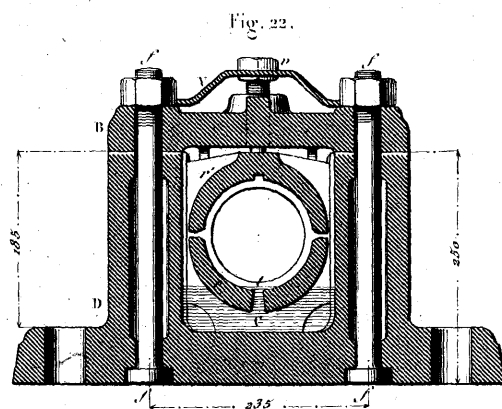


Fig. 46.









Echelle de 1/8.

Fig. A.

Pressions sur les dents, en kilogrammes.

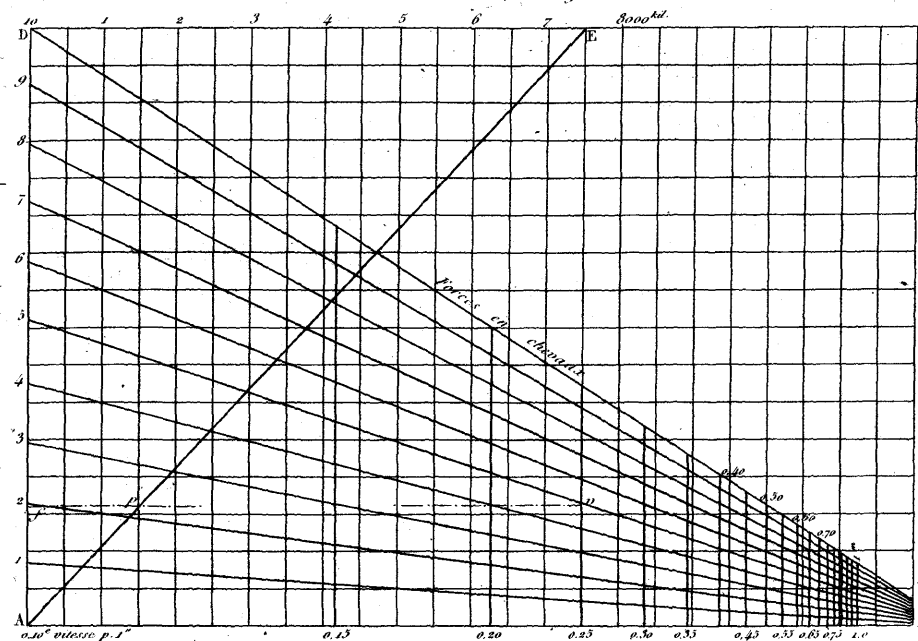


Fig. B.

Épaisseurs des dents en millimètres.

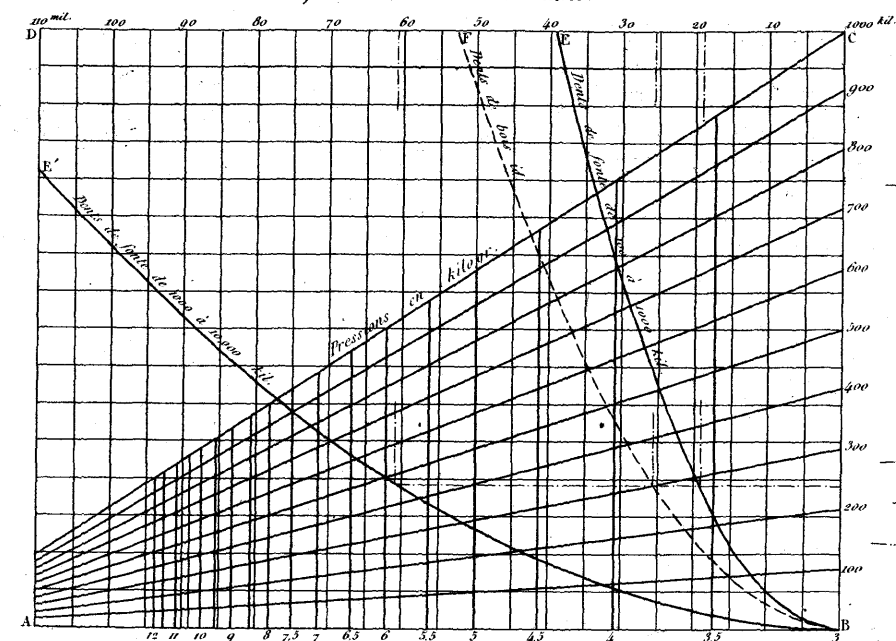


Fig. 10.

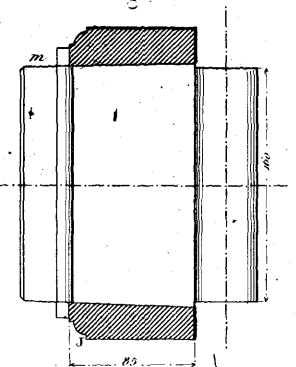


Fig. 11.

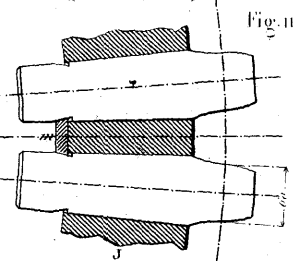


Fig. 8.

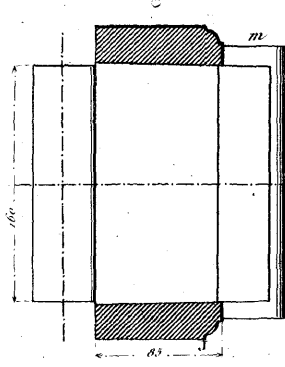


Fig. 9.

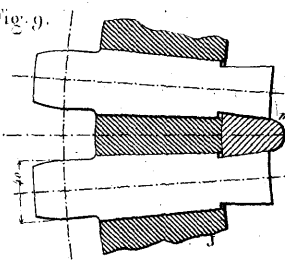


Fig. 5.

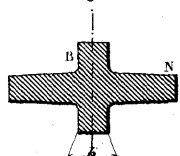


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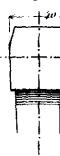


Fig. 13.

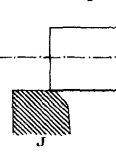


Fig. 14.



Fig. 15.

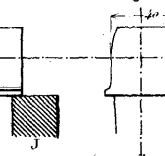


Fig. 1.

Ech. de 1/2

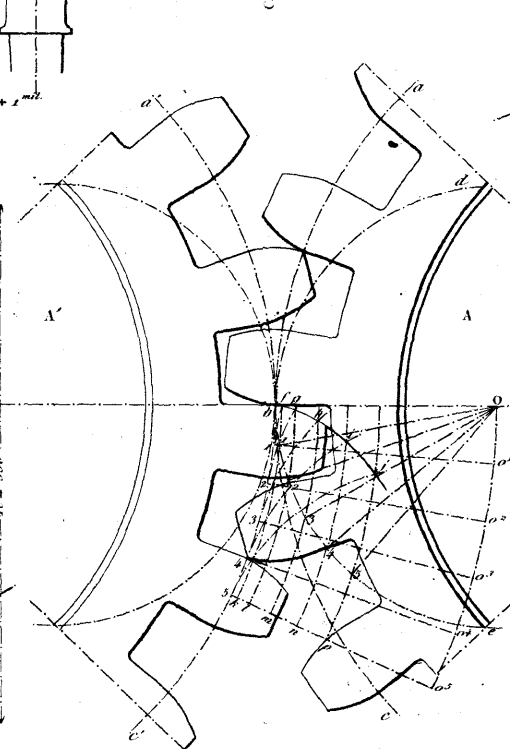


Fig. 2.

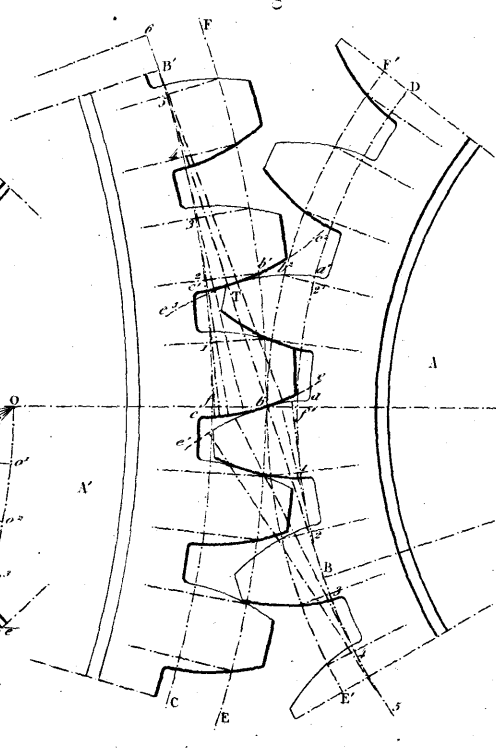


Fig. 6.

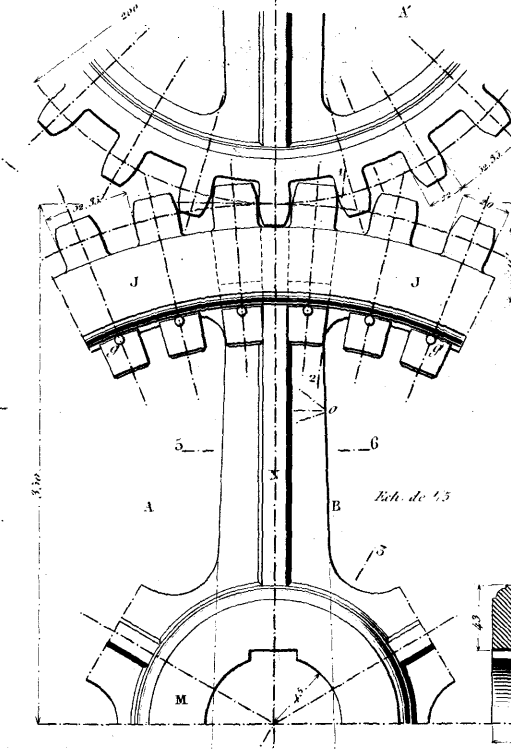
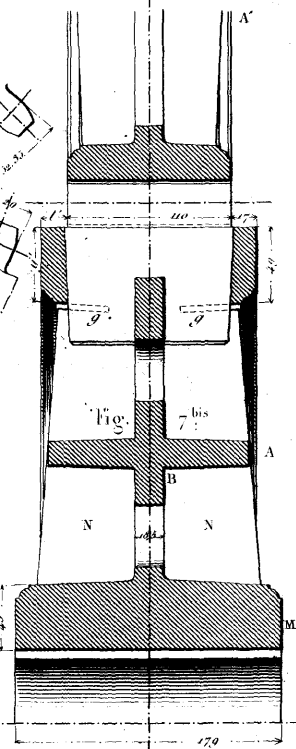


Fig. 7.



$$E = 1.5 e + 10 \text{ mill.}$$

$$L = r e + 0.10 R.$$

$$b = \frac{1.6 e + 30}{N}$$

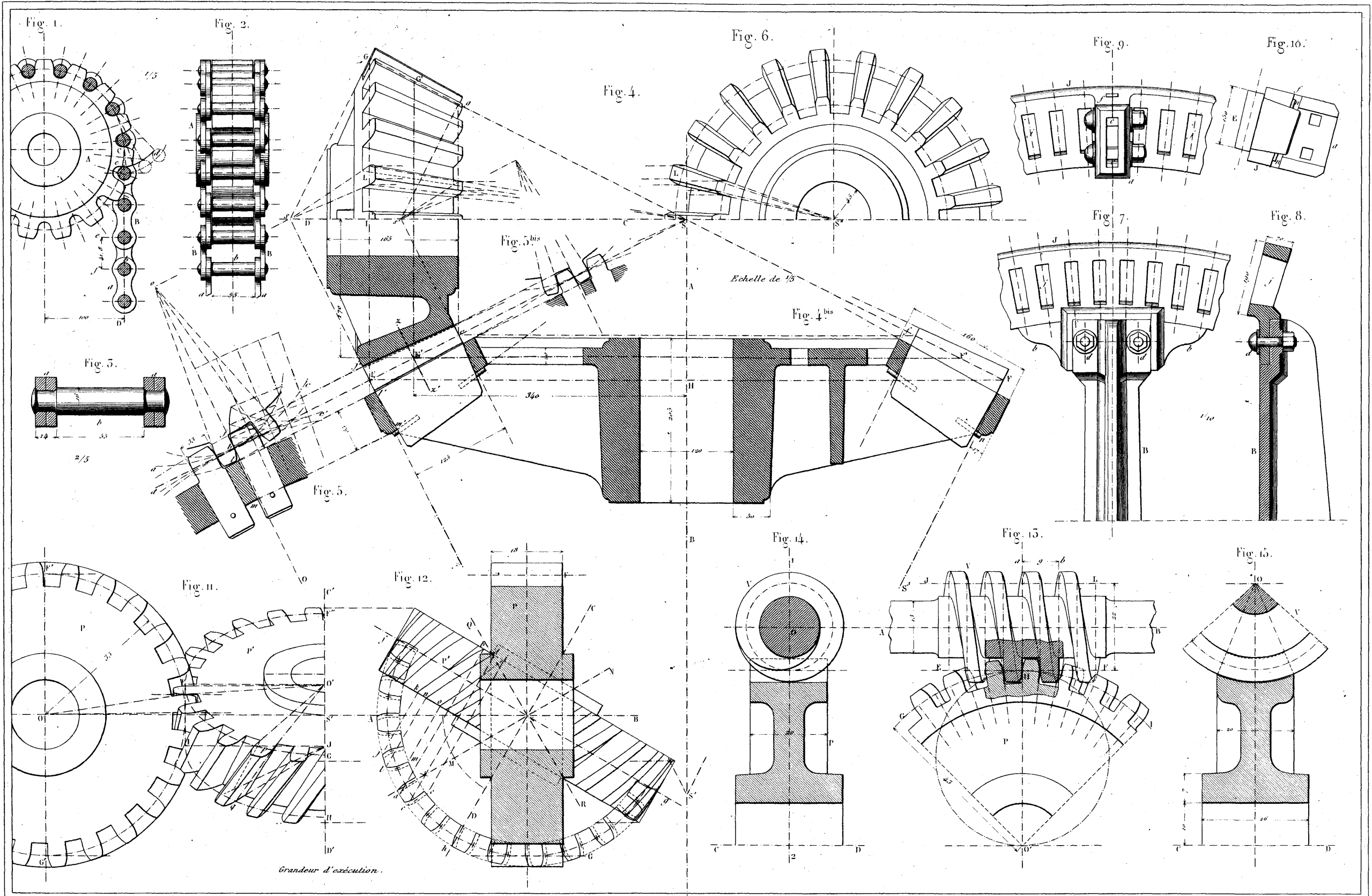
$$a = 0.15 r e + 2 \text{ mill.}$$

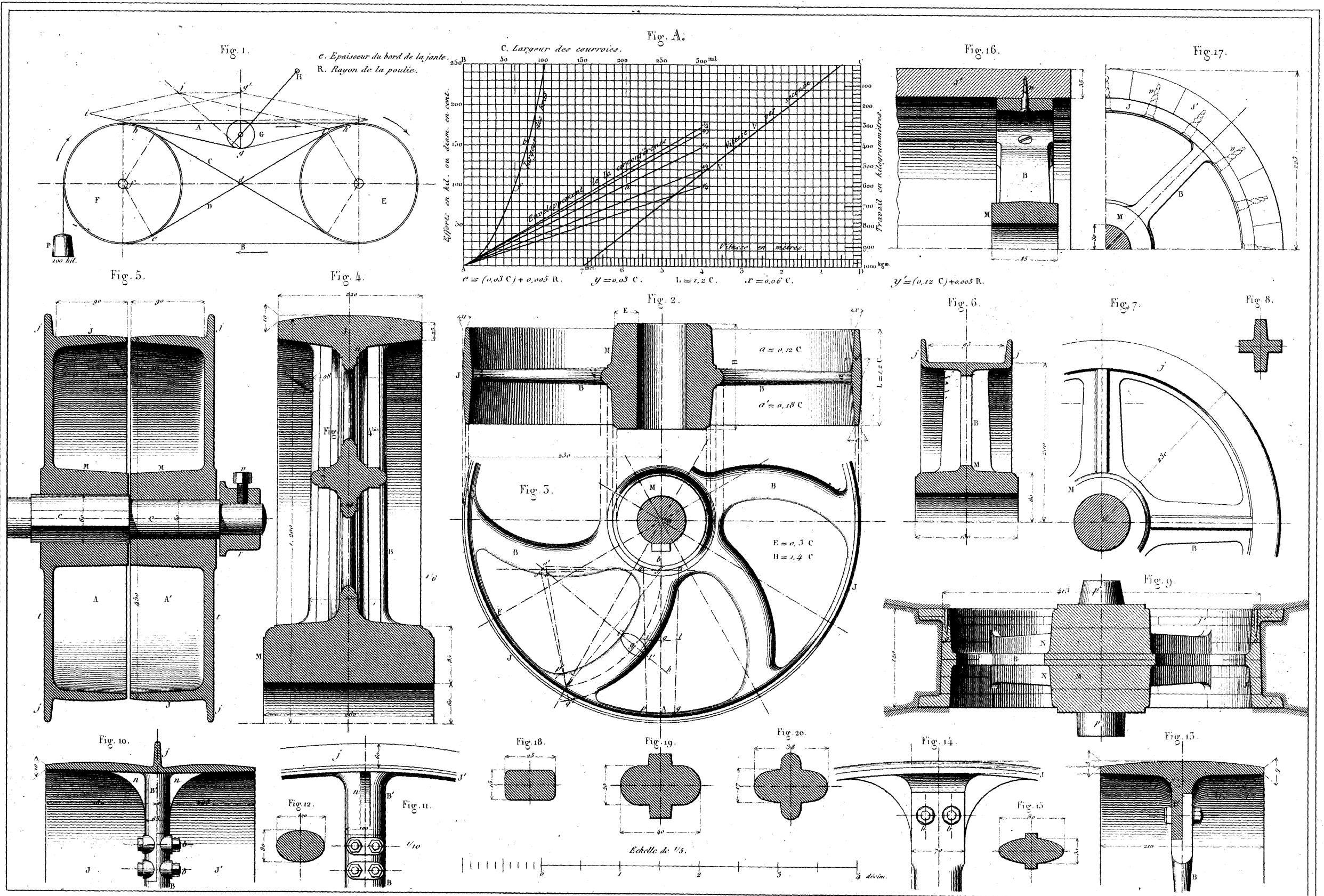
$$e, \text{ Épaisseur de la dent.}$$

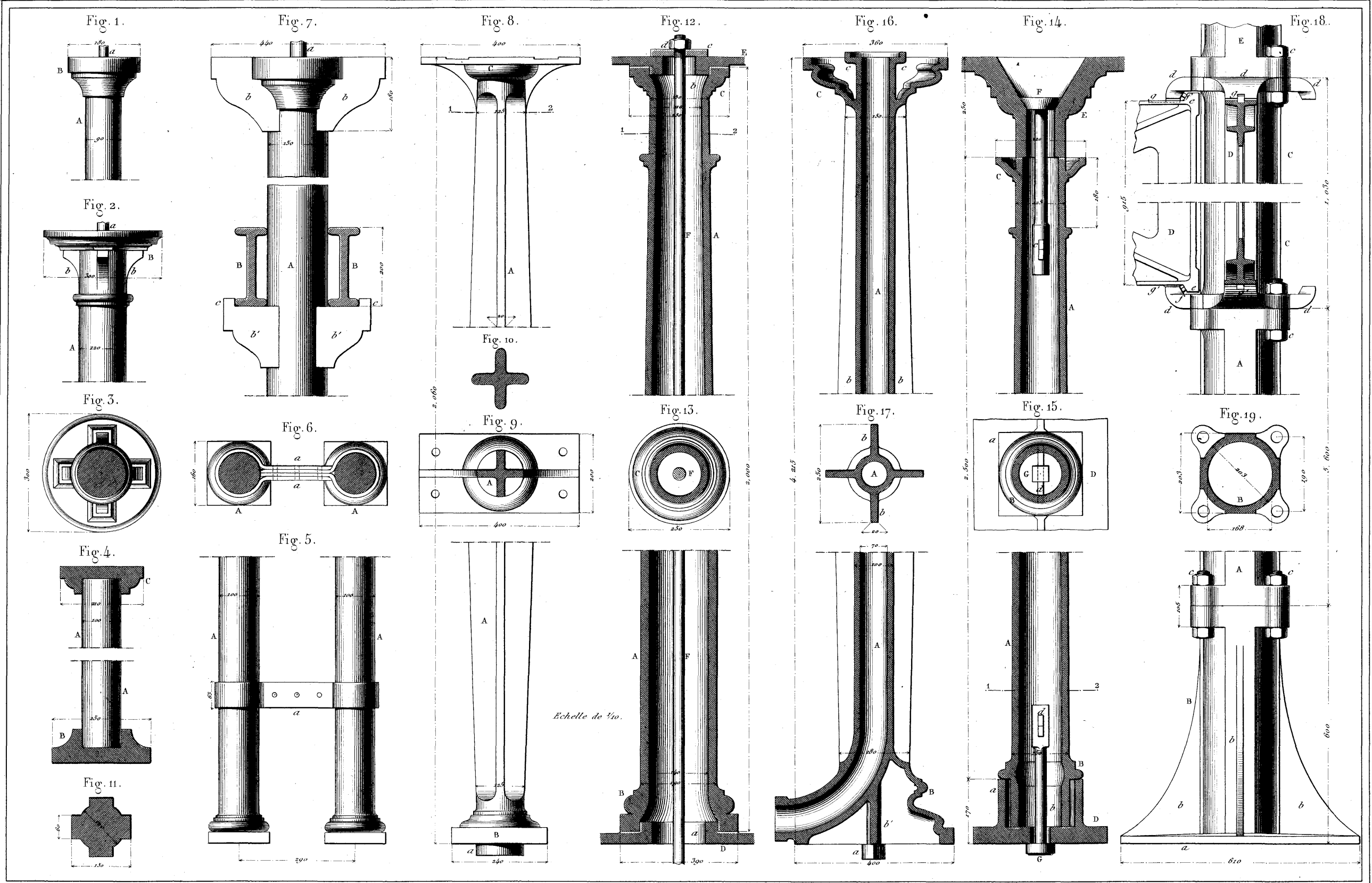
$$h, \text{ Hauteur de la dent.}$$

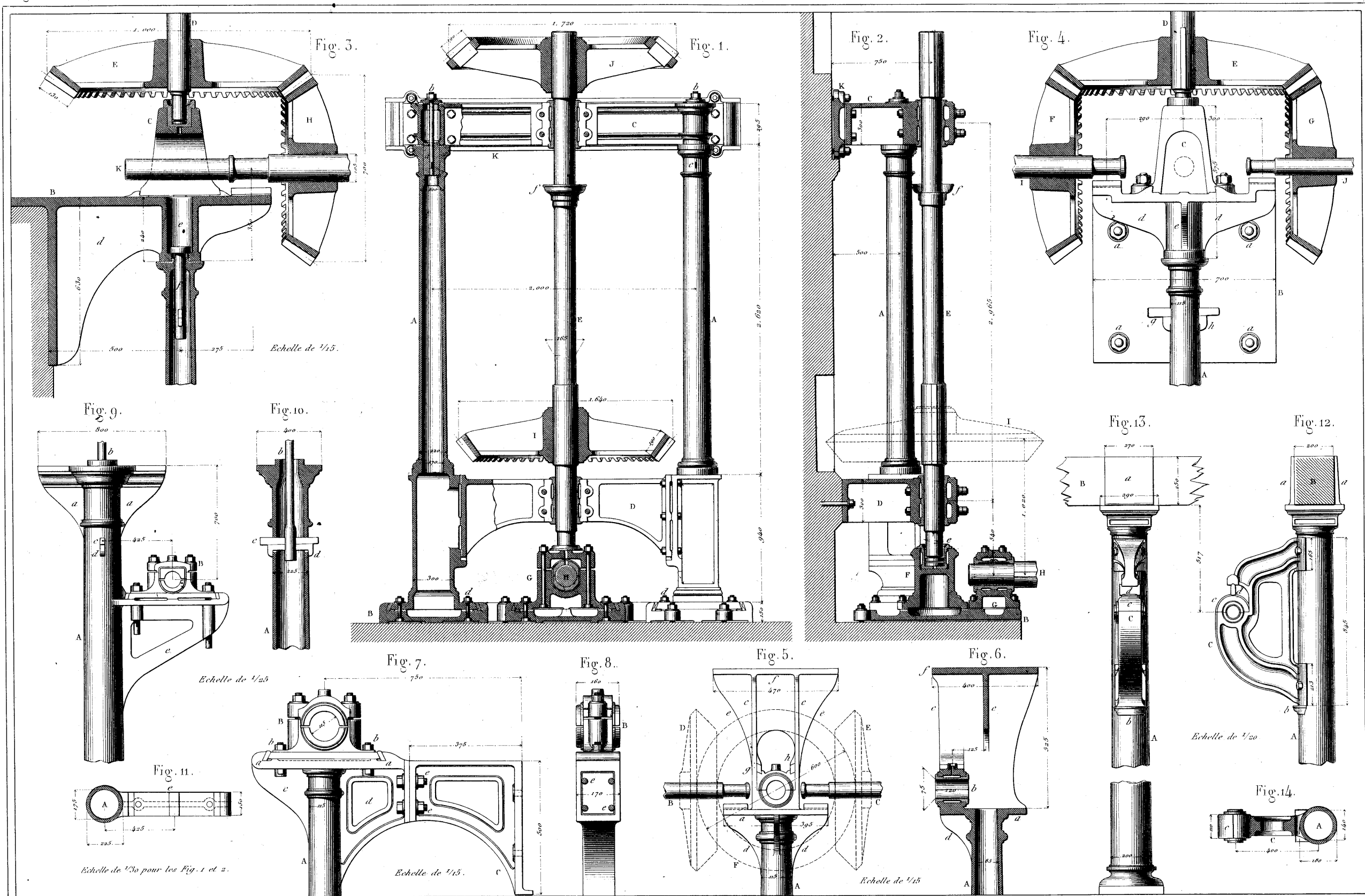
$$L, \text{ Largeur de la dent.}$$

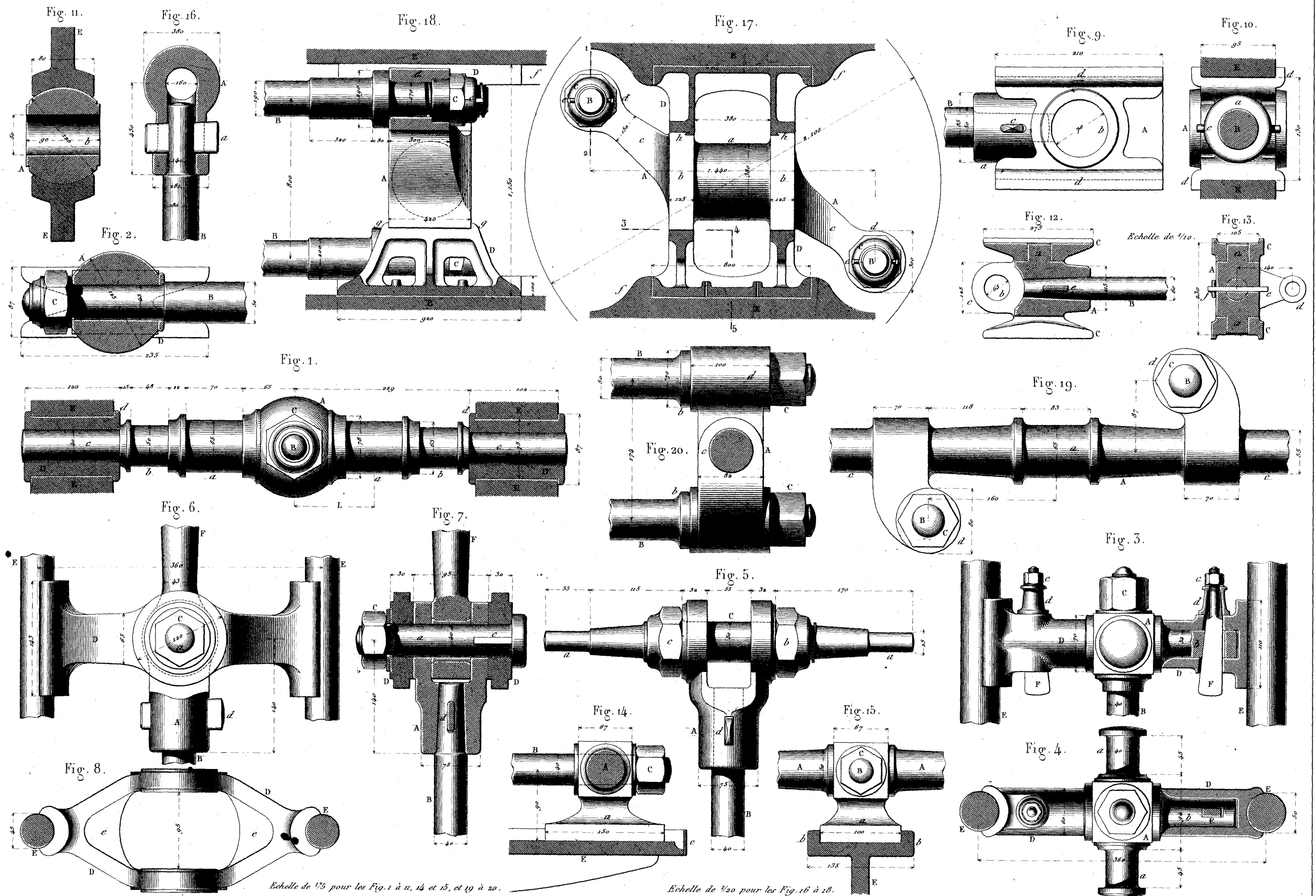
$$r, \text{ Rapport entre la largeur et l'épaisseur de la dent.}$$

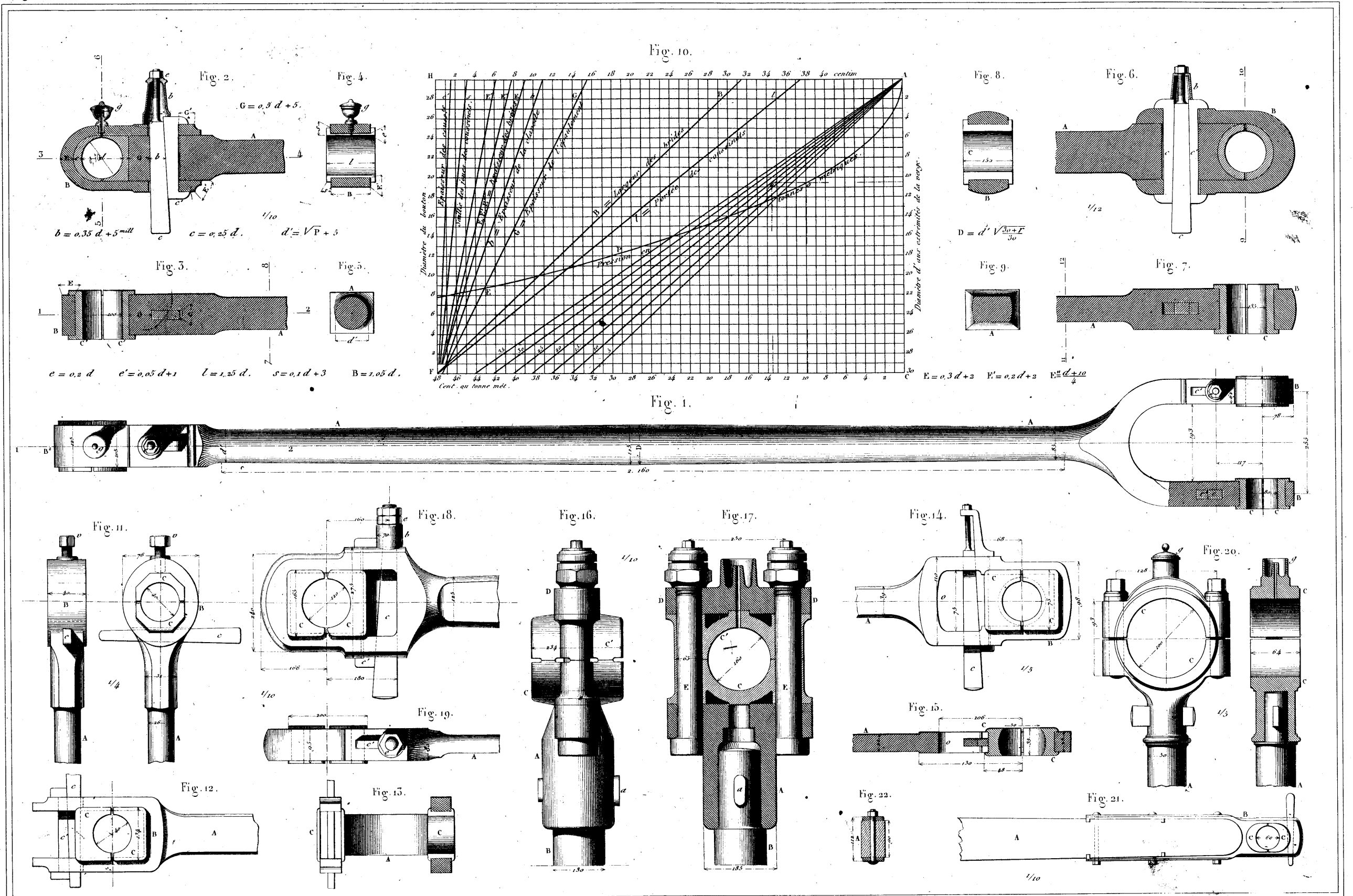


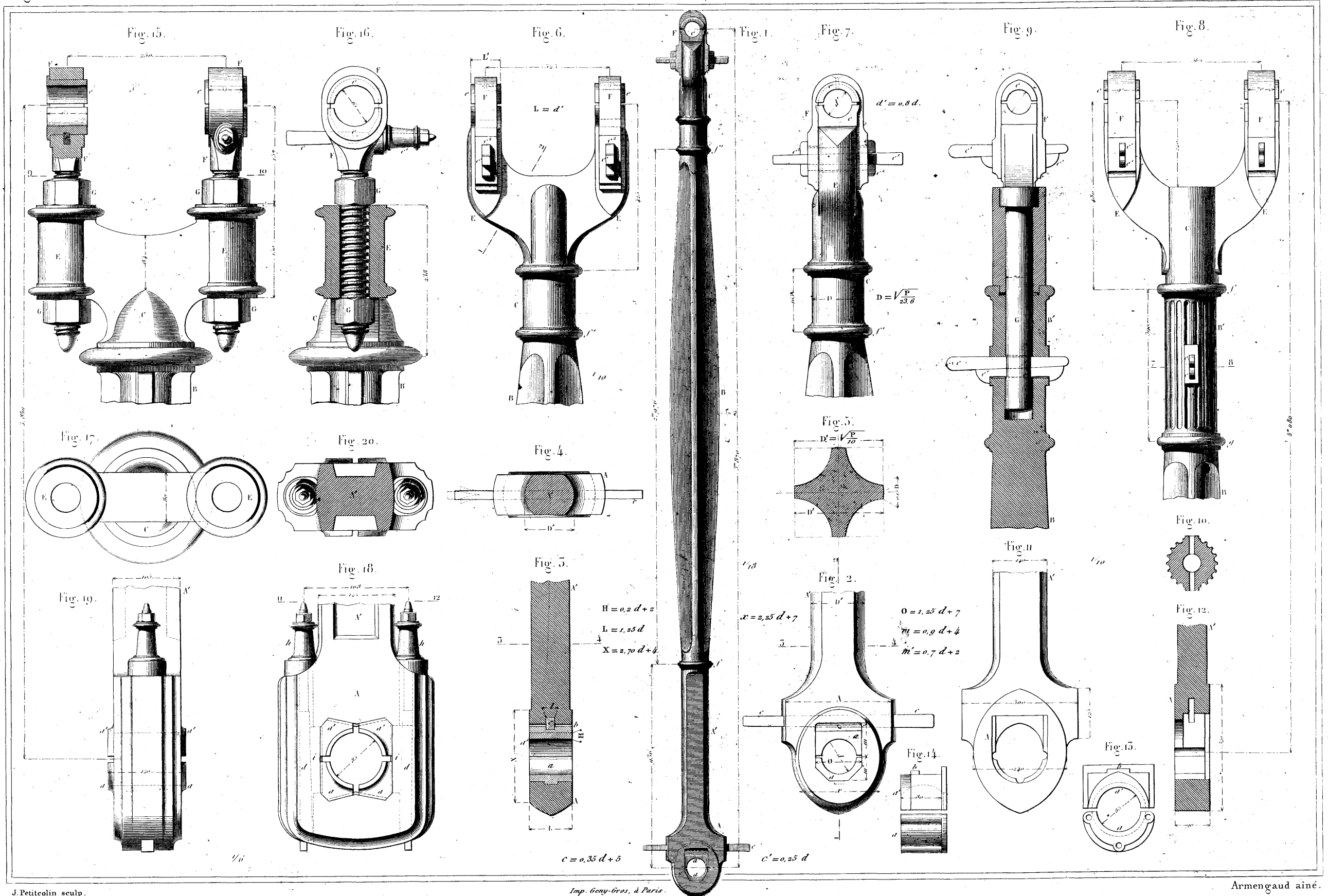


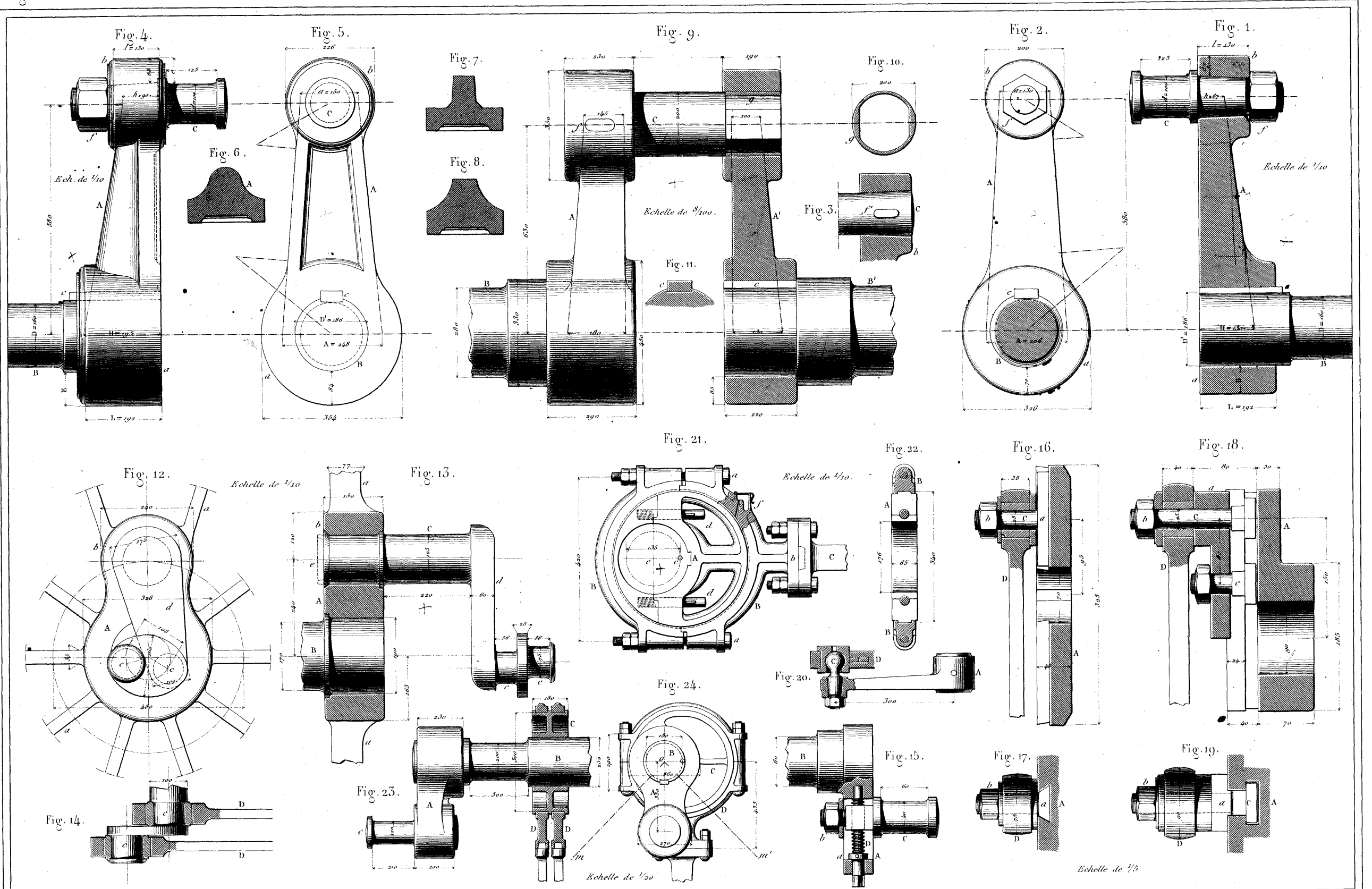


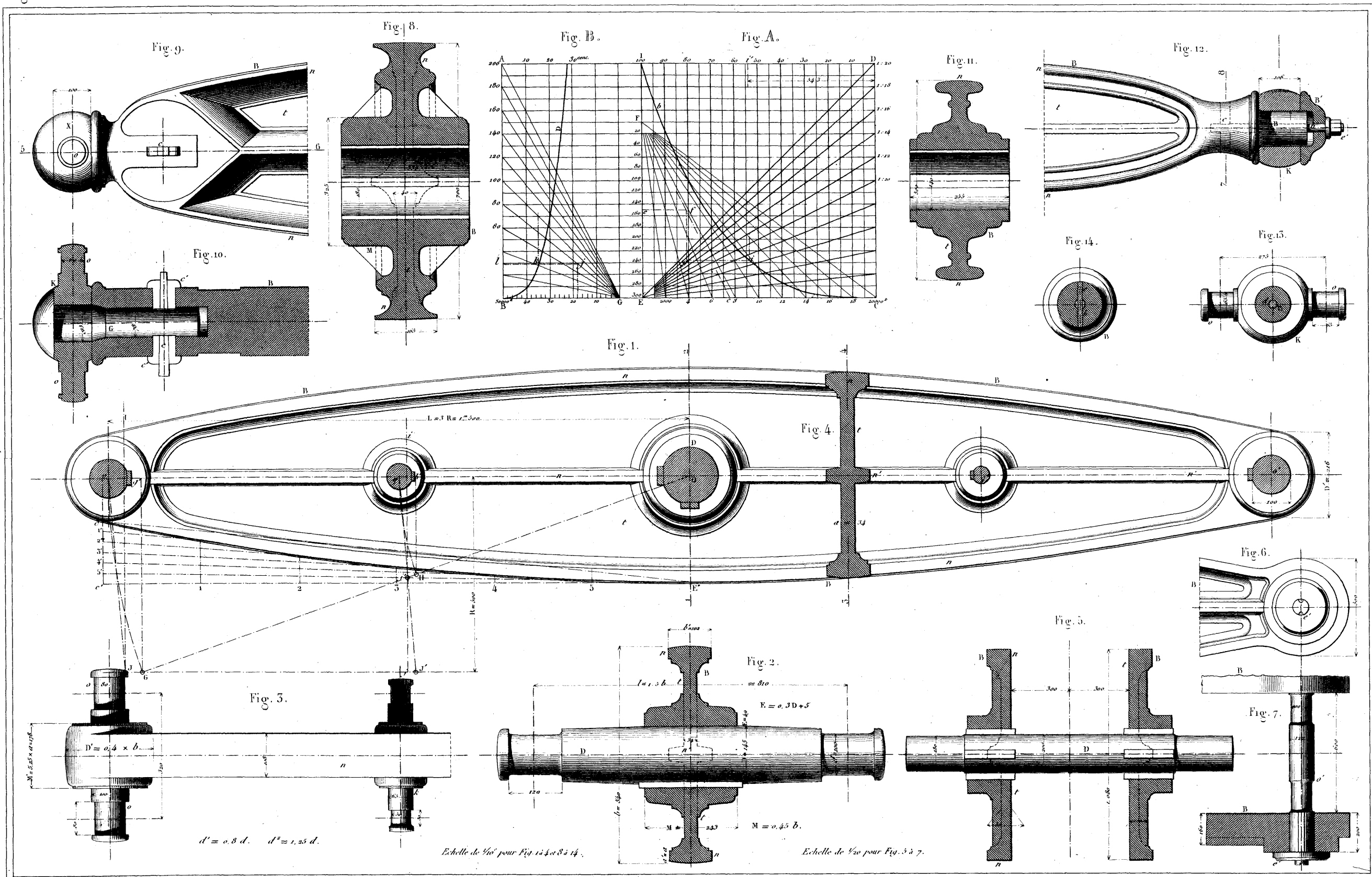












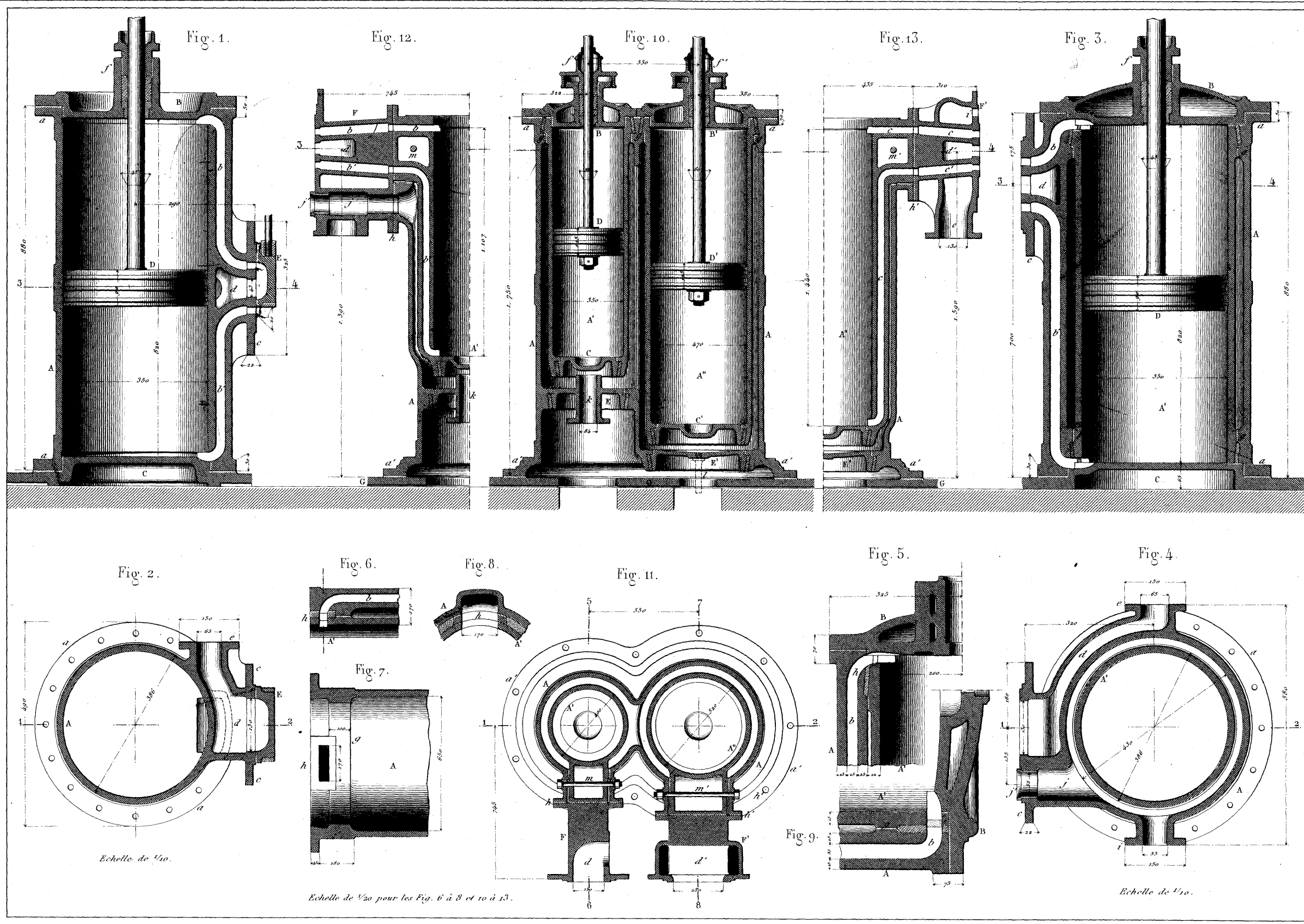


Fig. 2.

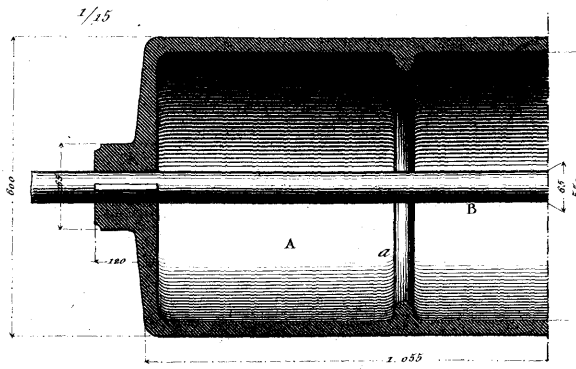


Fig. 1.

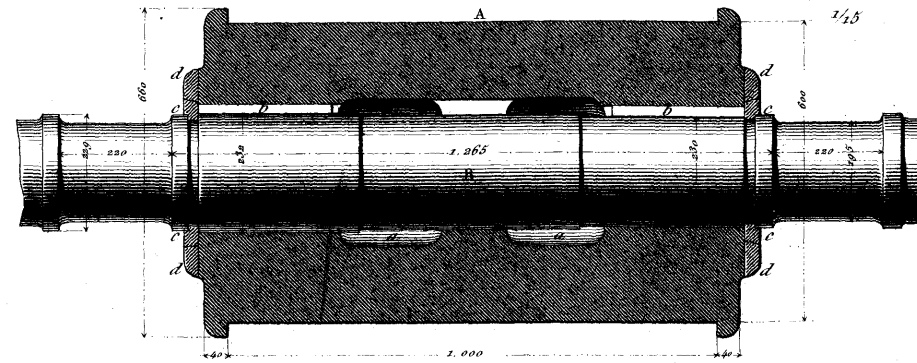


Fig. 16.

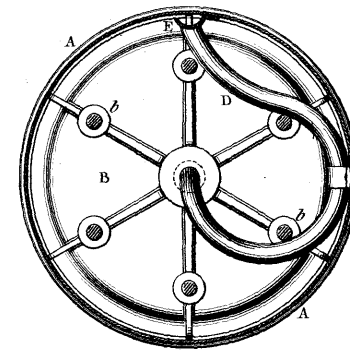


Fig. 15.

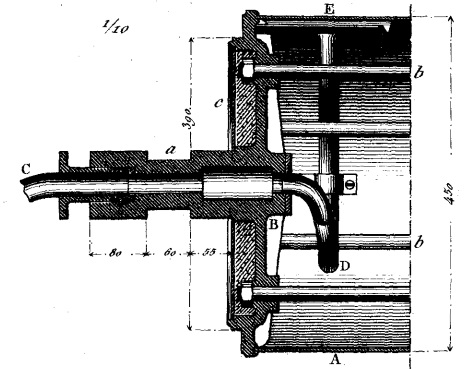


Fig. 4.

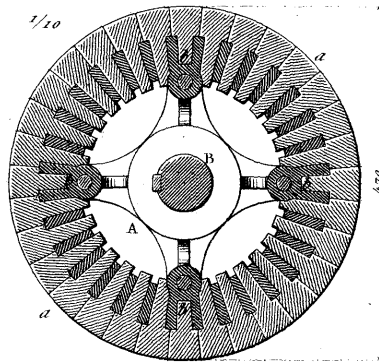


Fig. 3.

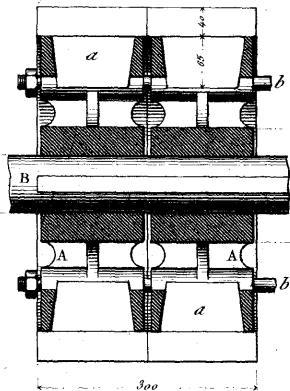


Fig. 5.

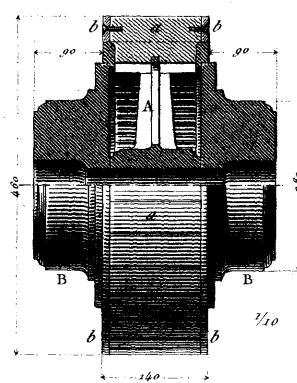


Fig. 11.

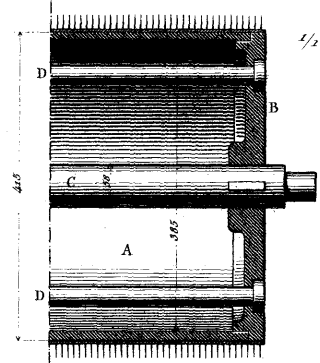


Fig. 18.

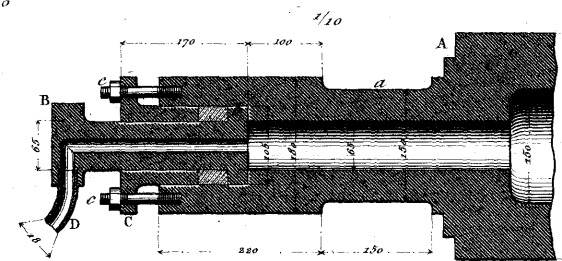


Fig. 17.

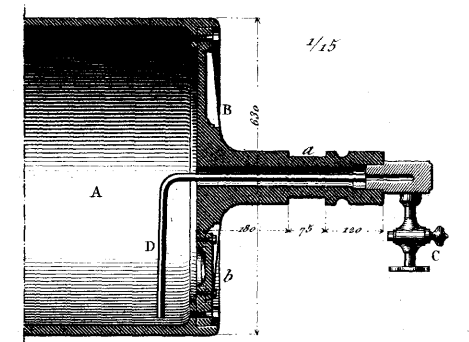


Fig. 9.

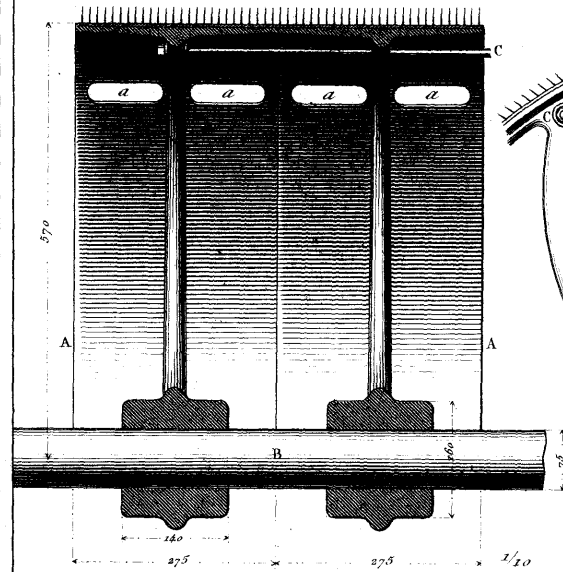


Fig. 10.

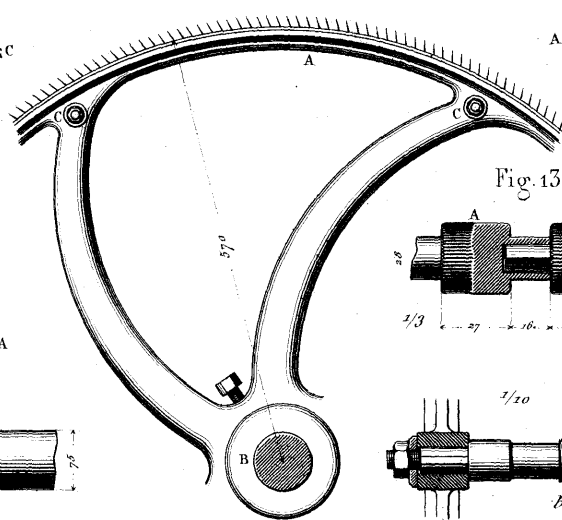


Fig. 8.

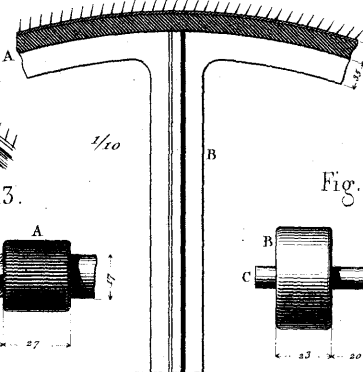


Fig. 13.

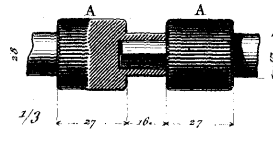


Fig. 14.

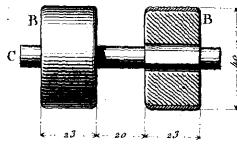


Fig. 12.

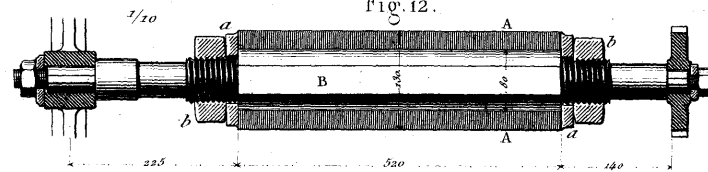


Fig. 7.

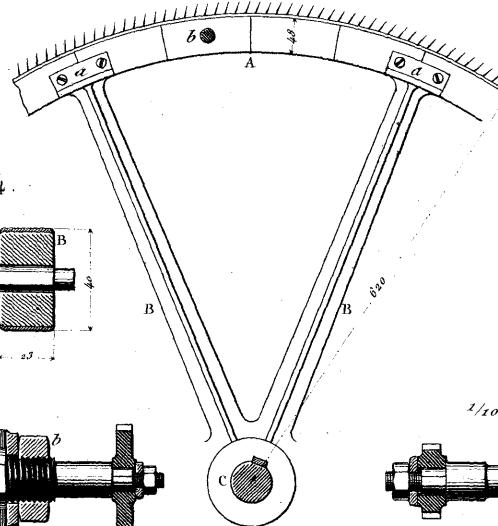


Fig. 6.

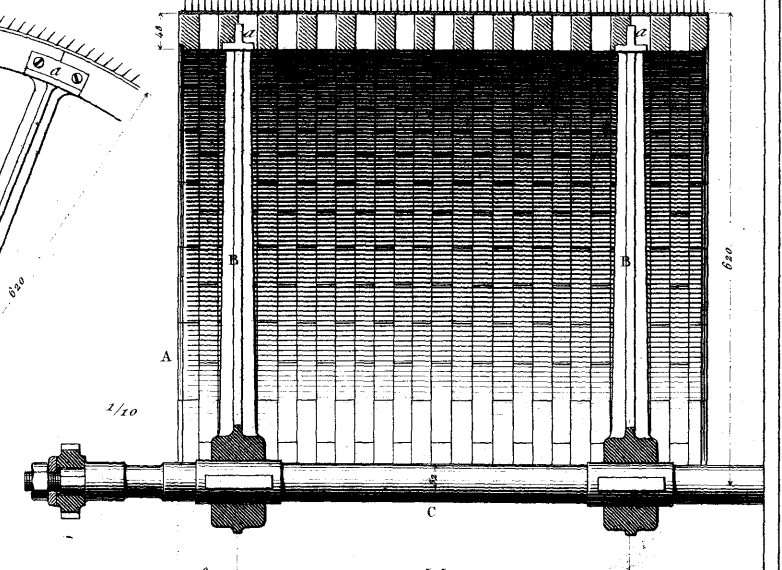


Fig. 5.

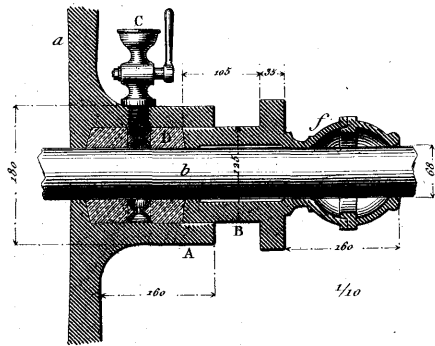


Fig. 3.

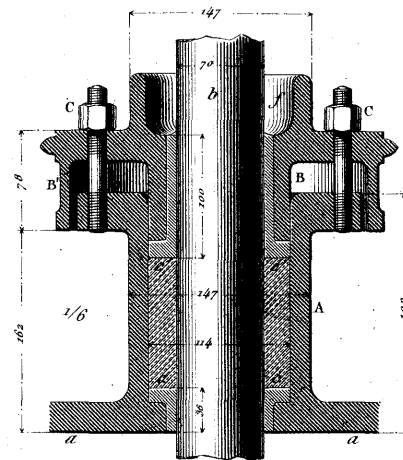


Fig. 1.

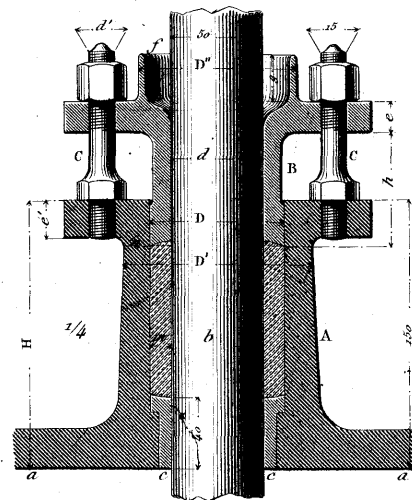


Fig. 4.

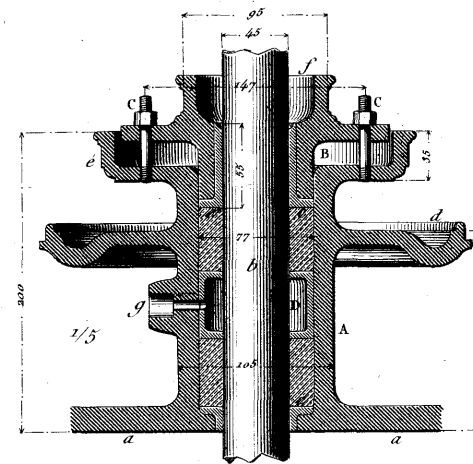


Fig. 6.

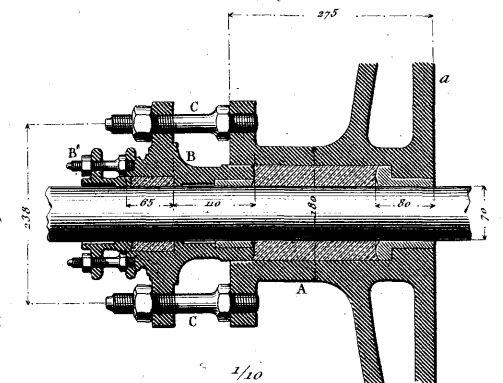


Fig. 13.

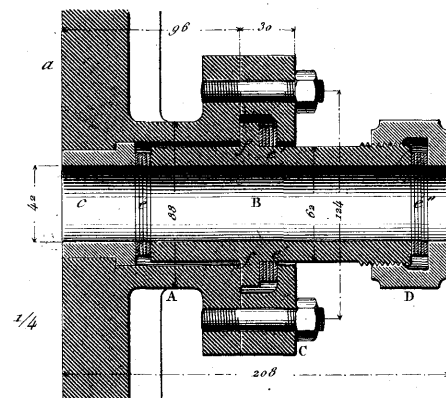
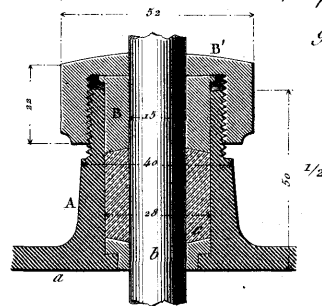


Fig. 12.



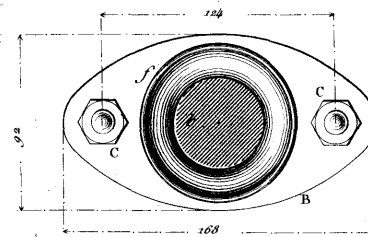
$$D = 1,4 d + 6^{mill.}$$

$$D' = 1,5 d + 10$$

$$h = 1,08 d + 5$$

$$g = 0,5 d + 5$$

Fig. 2.



$$e = 0,2 d + 5^{mill.}$$

$$d' = 0,2 d + 5$$

$$D' = 1,8 d + 16$$

$$H = 2,5 d + 25$$

Fig. 11.

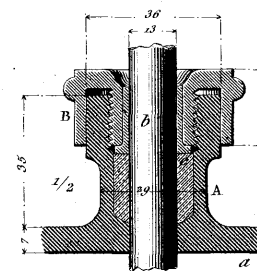


Fig. 8.

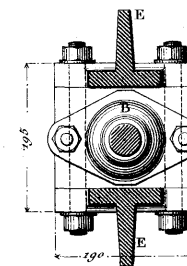


Fig. 7.

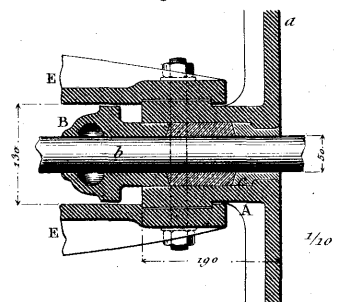


Fig. 10.

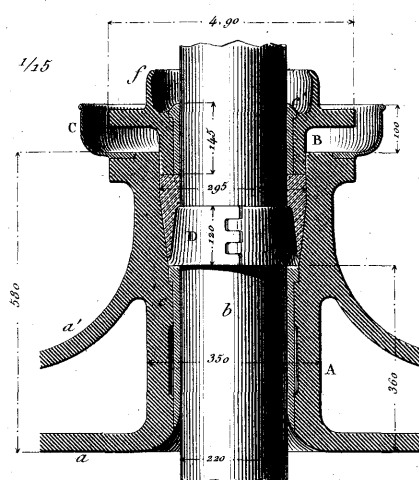


Fig. 16.

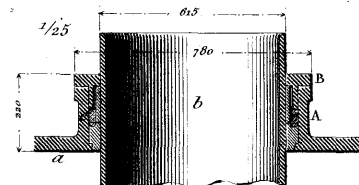


Fig. 15.

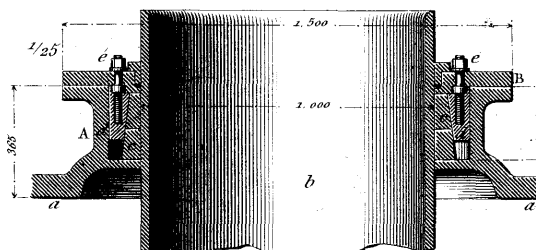


Fig. 17.

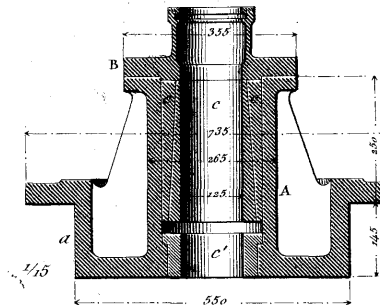


Fig. 9.

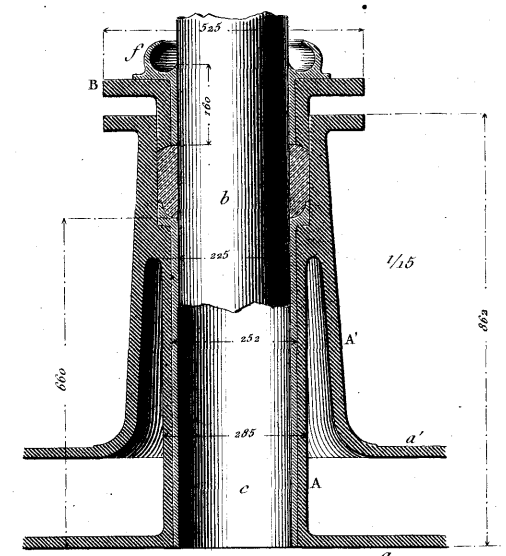


Fig. 14.

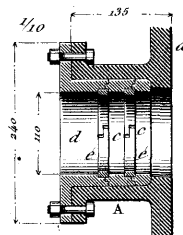


Fig. 21.

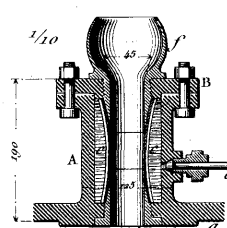


Fig. 18.

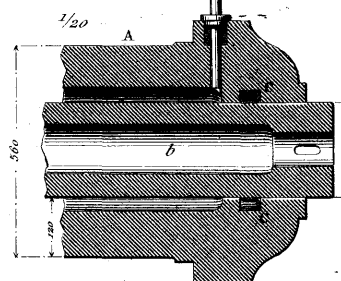


Fig. 20.

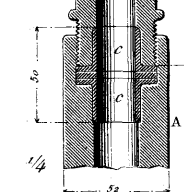


Fig. 19.

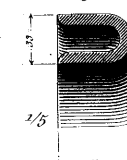


Fig. 9.
Assemblage de M. Hermann frères.

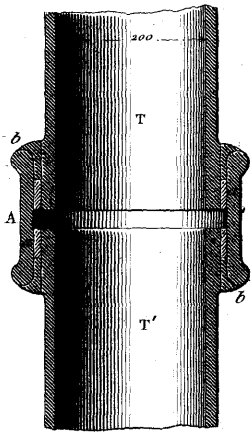


Fig. 14.
Assemblage de M. Doré.

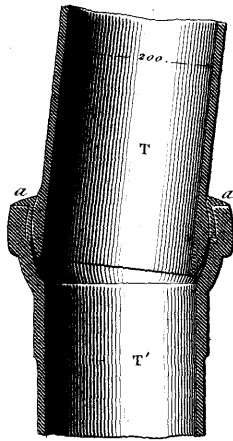


Fig. 20.
Assemblage de M. Marini.

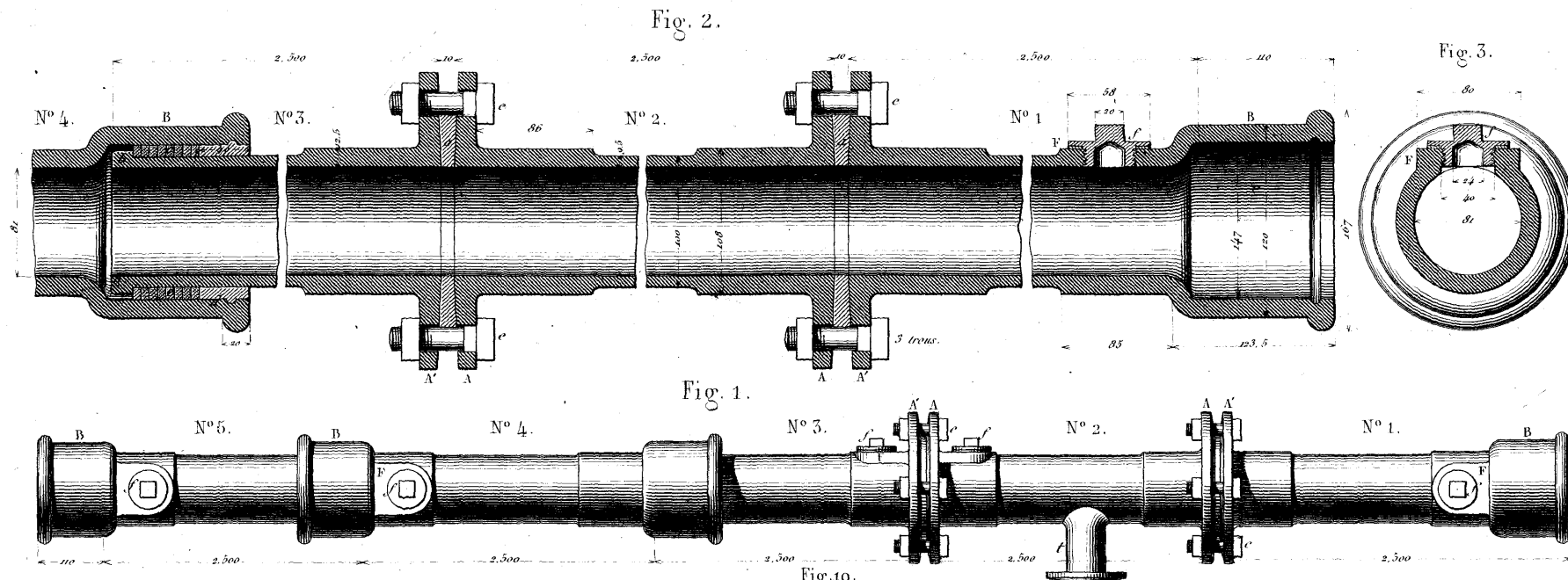
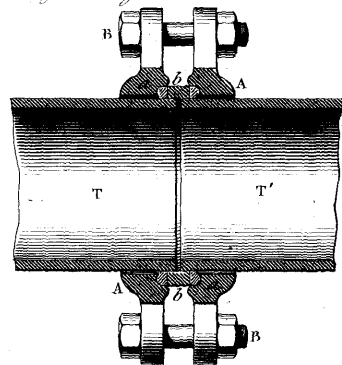


Fig. 1.

Fig. 3.

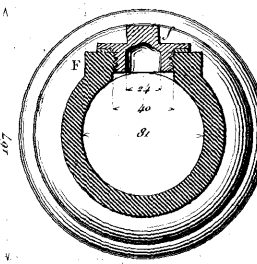


Fig. 23.
Tuyaux en tôle et bitume. Joints précis, par M. Chameroxy.

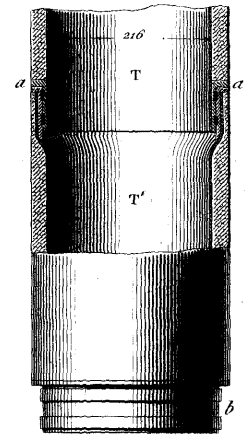


Fig. 7.

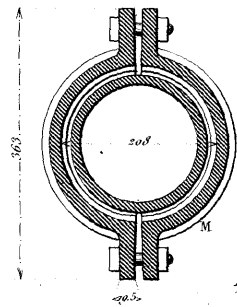


Fig. 6.

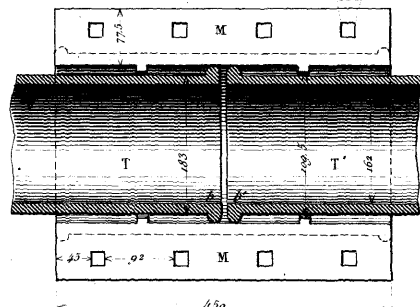


Fig. 19.

Assemblage de M. Laval.

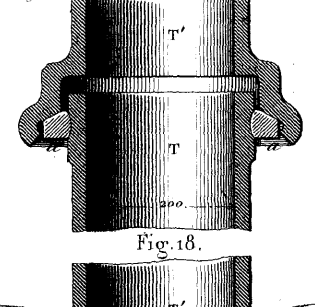


Fig. 12.

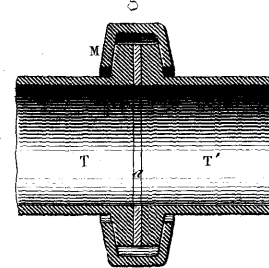


Fig. 13.

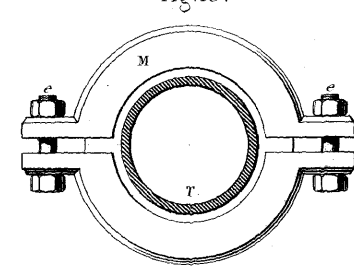


Fig. 38.

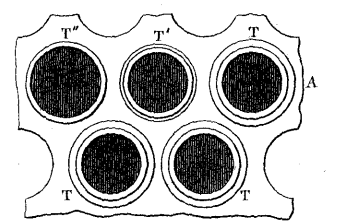


Fig. 39.

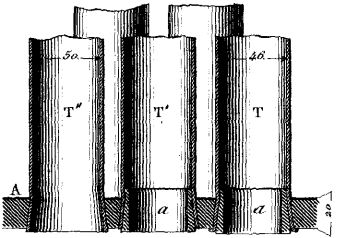
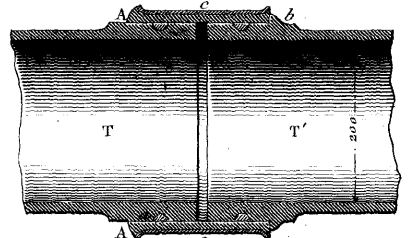
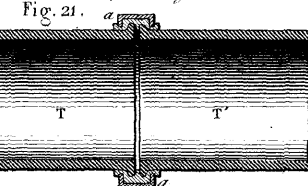
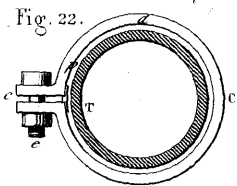


Fig. 8.

Tuyaux en fonte. Joints précis, par M. Chameroxy.



Assemblage de M. Delportange.



Assemblage de M. Lavarrière.

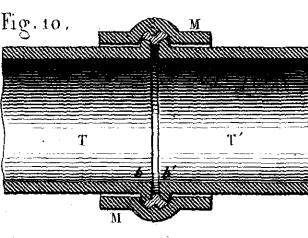
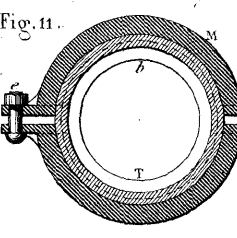


Fig. 17.

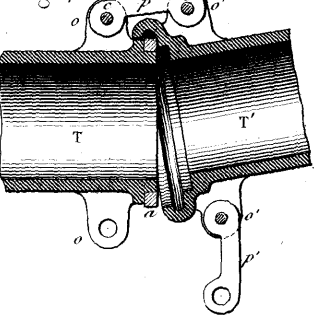


Fig. 15.

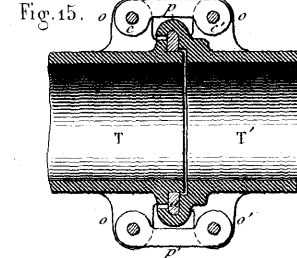
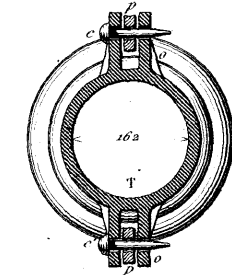


Fig. 16.



Echelle de 1/5 pour les Fig. 2 et 3, 38 et 39.

Echelle de 1/10 pour les Fig. 1 et 4 à 23.

