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Titre du volume : Atlas - 4. Arts chimiques

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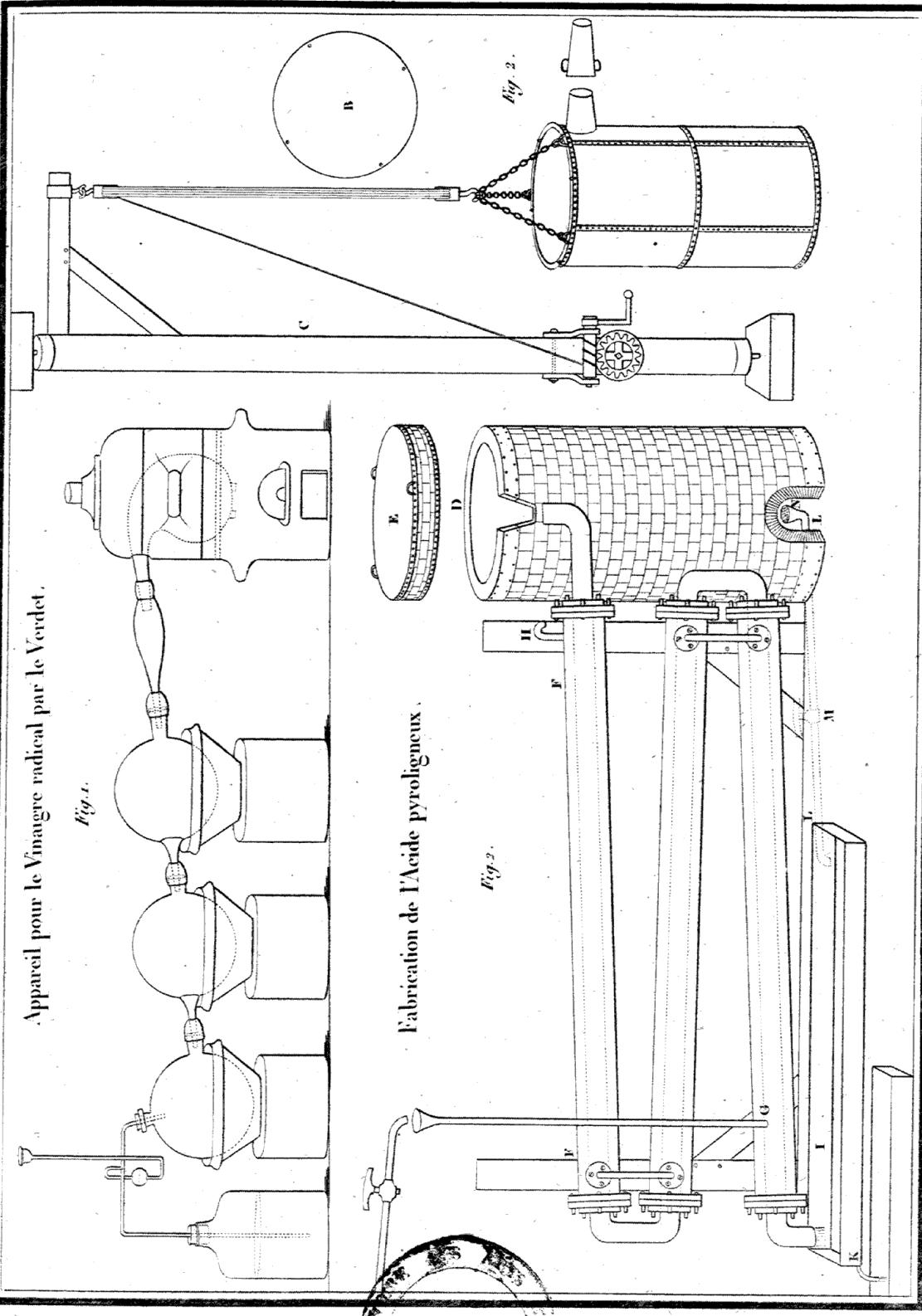
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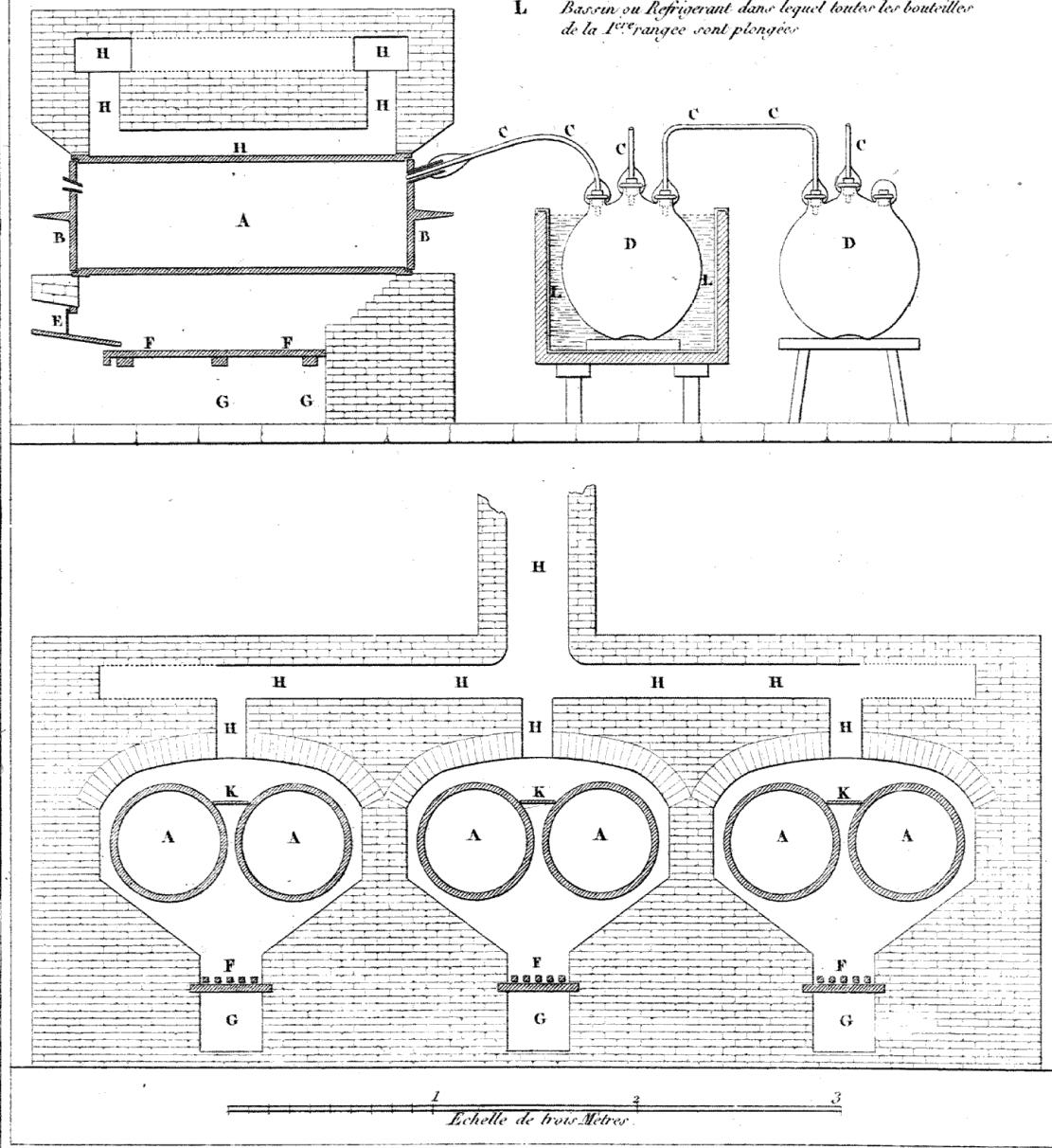
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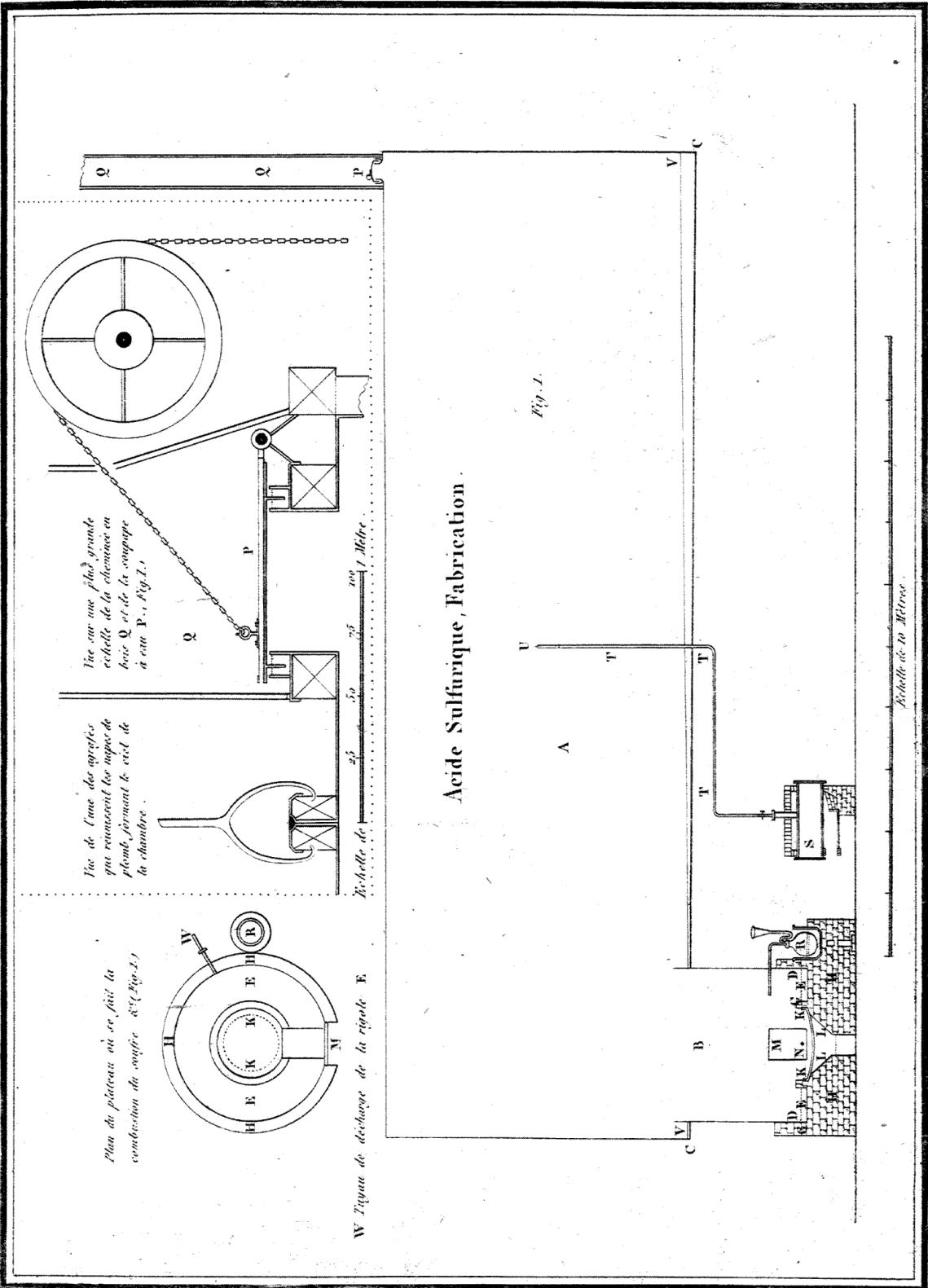
Appareil pour la fabrication de l'Acide Nitrique et de l'Acide Hydrochlorique.

- A** Cylindres en fonte
B Obturateurs ou Tampons en fonte
C Tubes de communication
D Bouteilles en grès à trois tubulures
E Porte du fourneau
F Grille du fourneau
G Cendrier
H Cheminée et conduits de la fumée
K Plaques de fonte de toute la longueur des Cylindres
L Bassin ou Réfrigérant dans lequel toutes les bouteilles de la 1^{re} rangée sont plongées



Dessiné par Léonard de Tocqueville

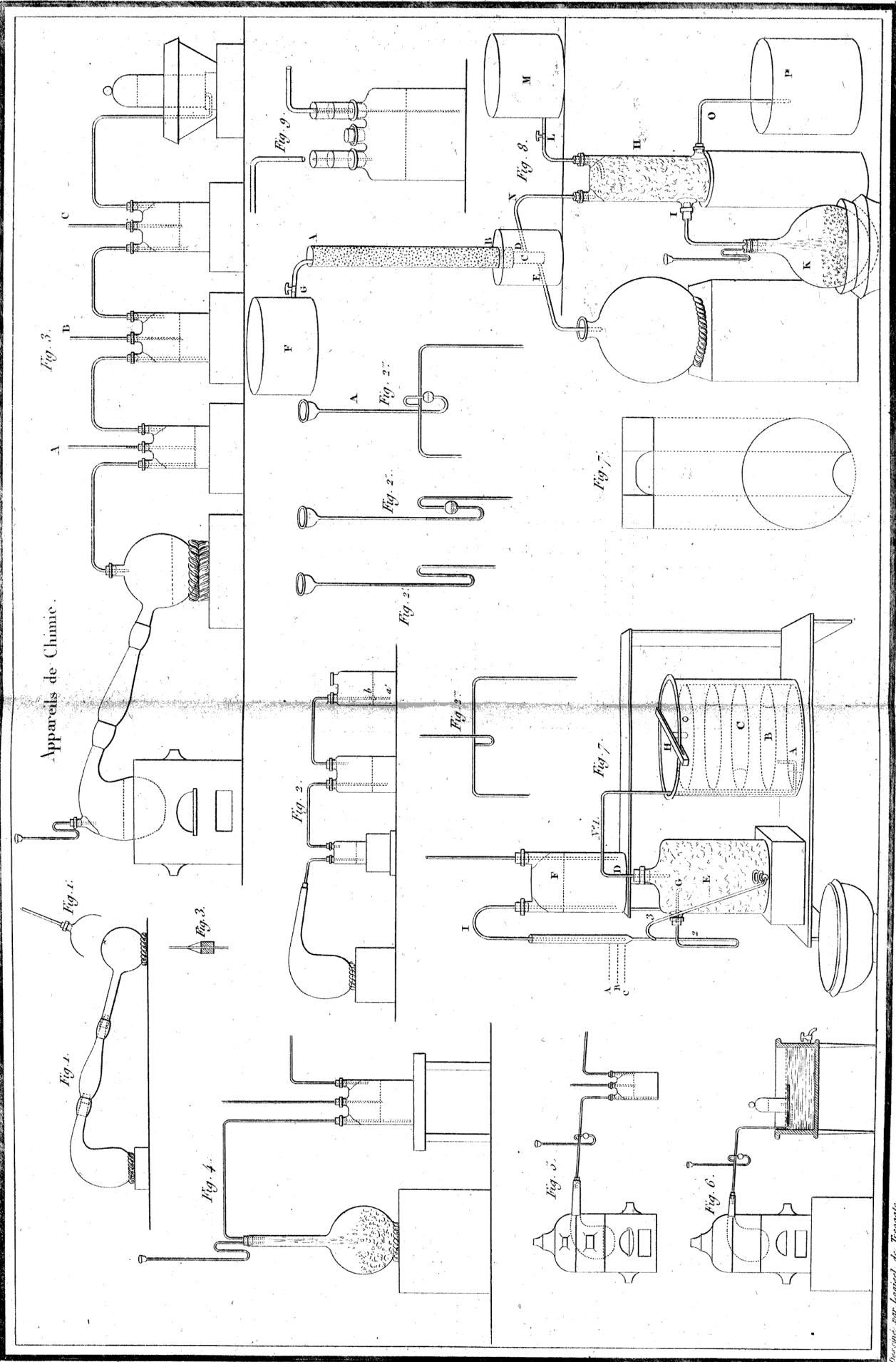
Gravé par Clavier.



Drawn pour M. le

Bureau des Mines.

Drawn pour l'Académie des Sciences.



Argent - Amalgame

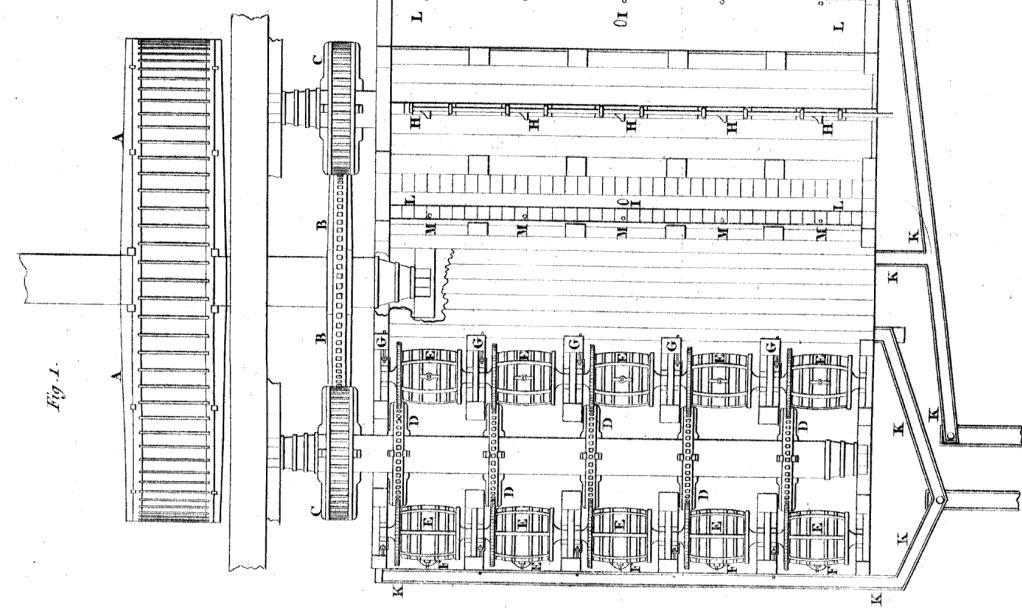


Fig. 1.



Fig. 2.

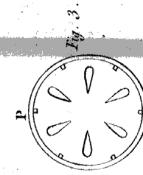


Fig. 3.

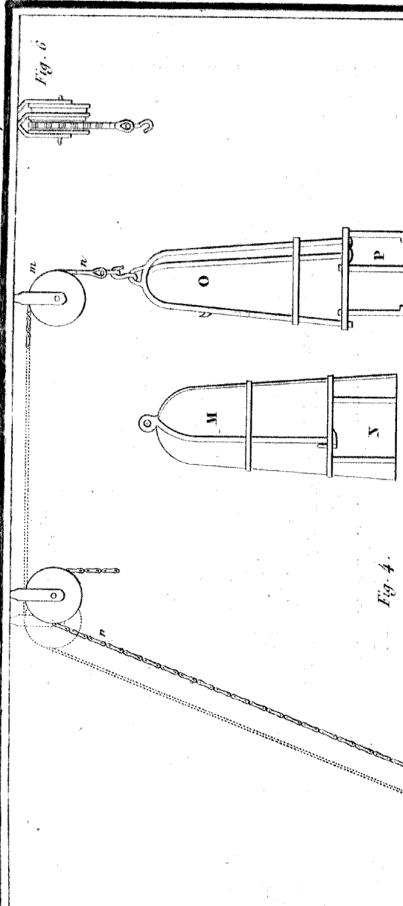


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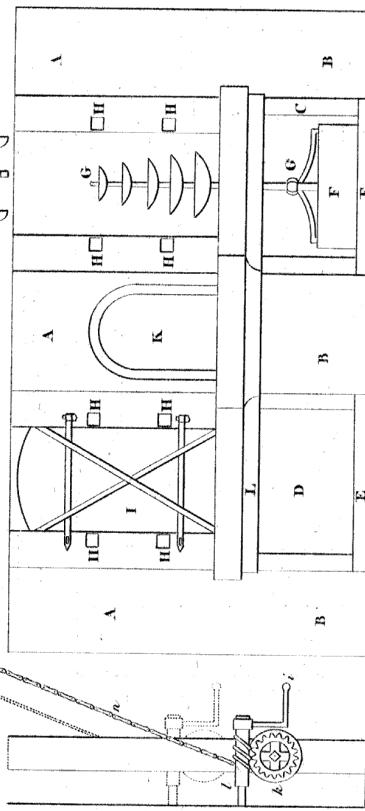


Fig. 5.

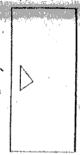


Fig. 6.

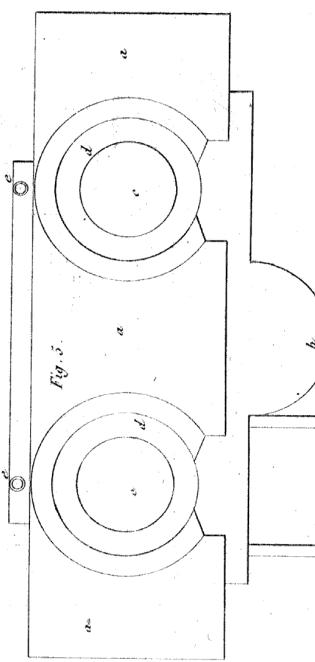


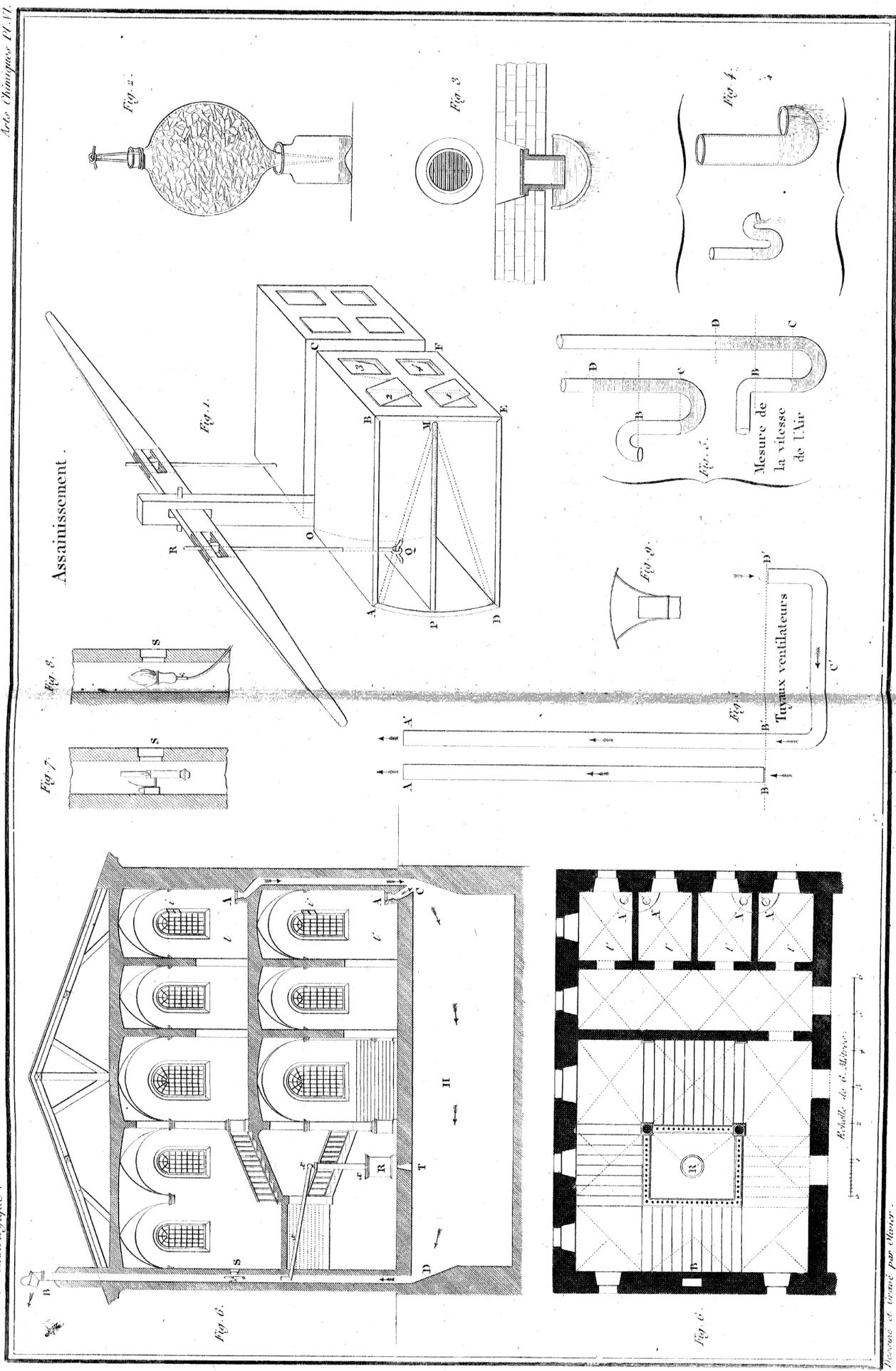
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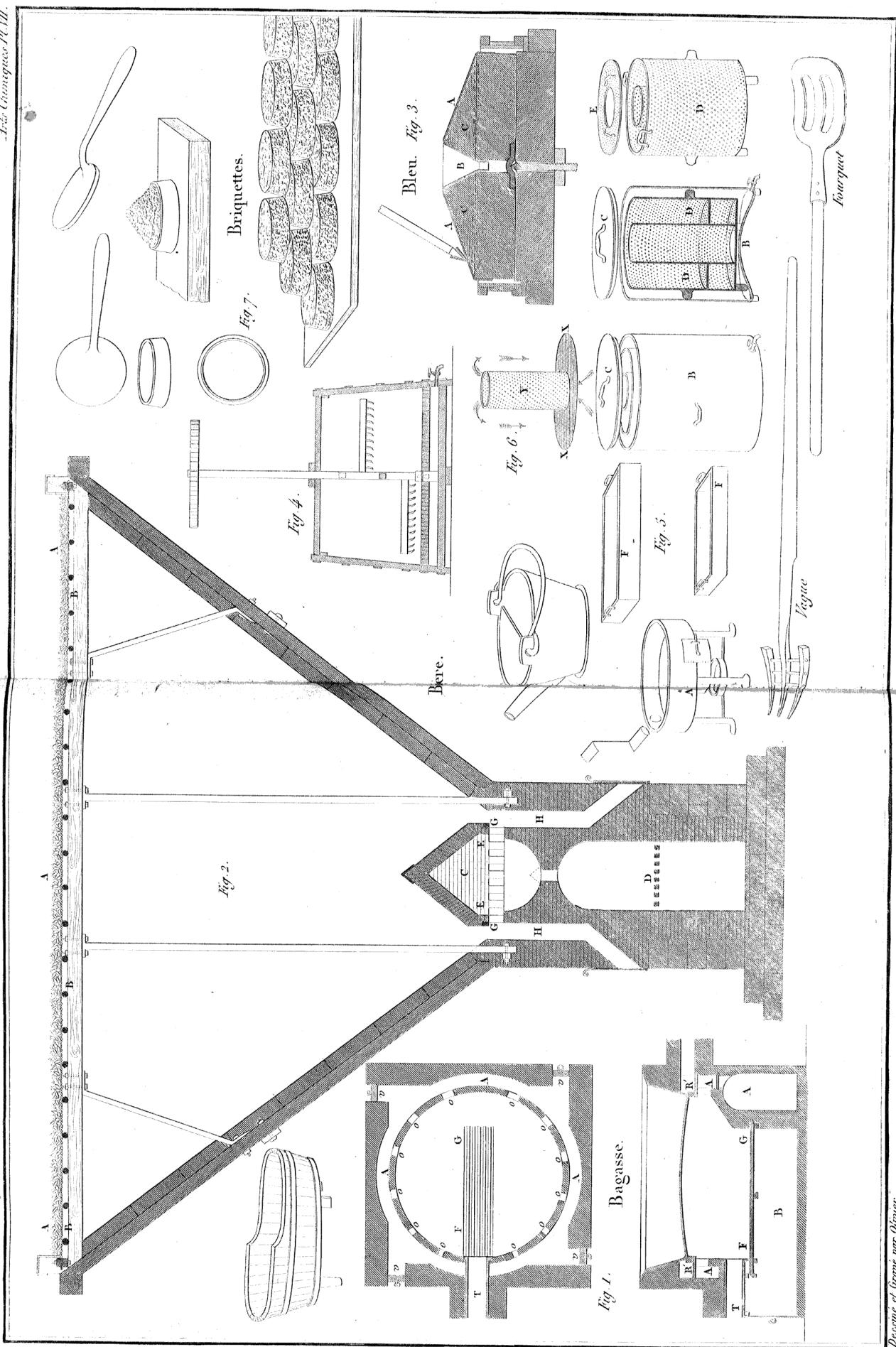
Échelle des Fig. 1, 2 et 5.

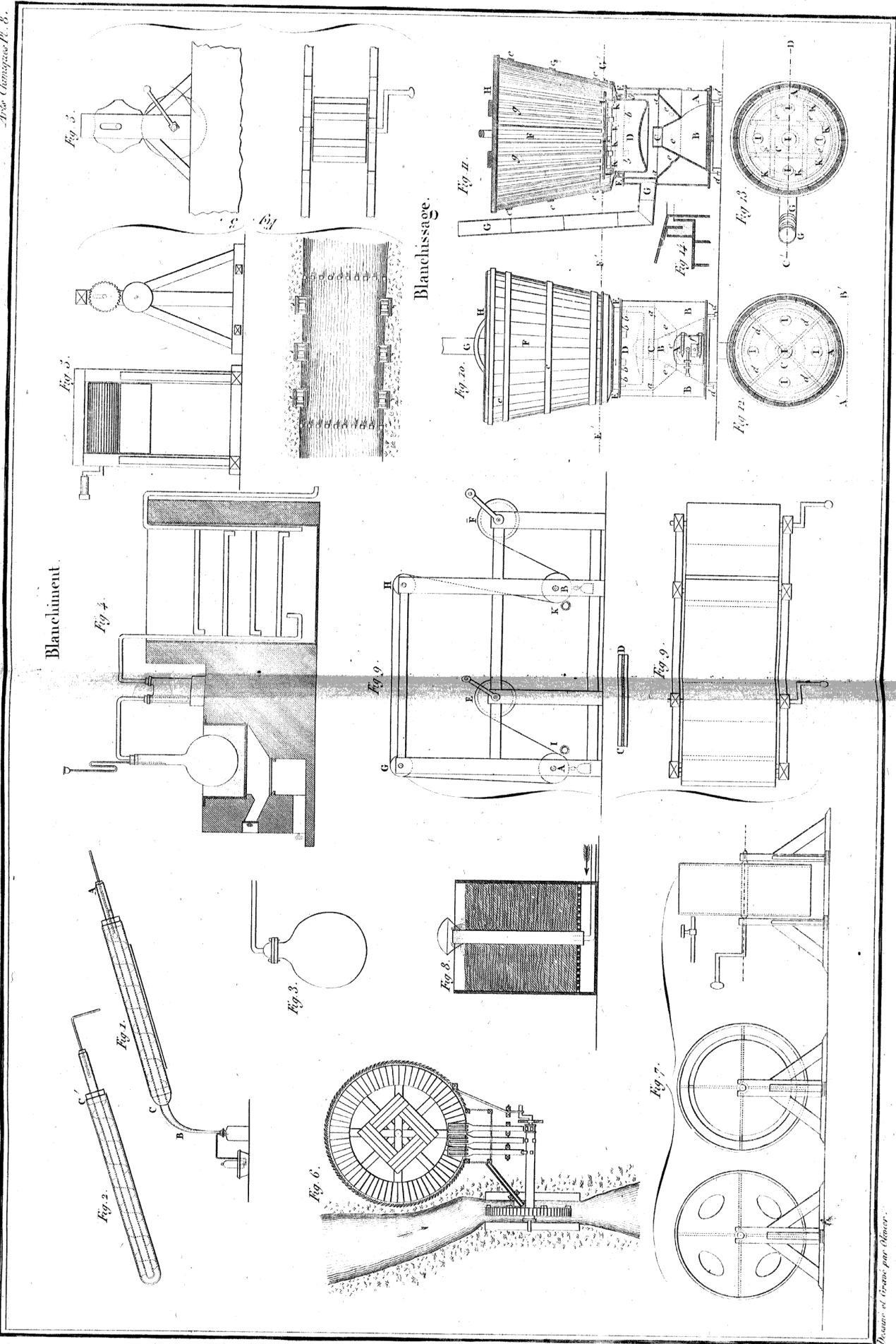
1 Mètre

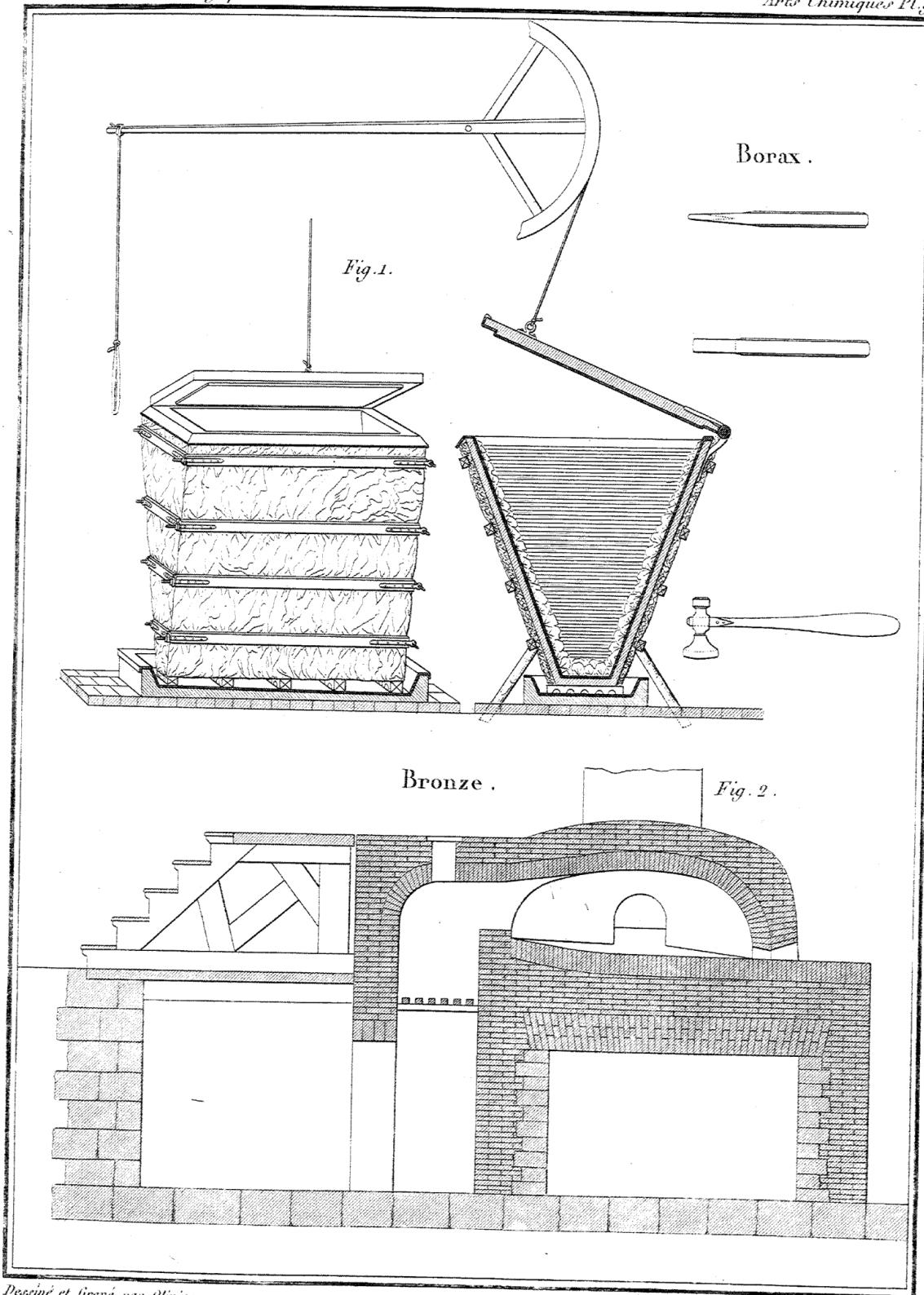
Échelle des Fig. 4, 5, 6, 7 et 8.

1 Mètre









Dessiné et Gravé par Olivier.

Calefacteur et Cuisine.

Fig. 3.

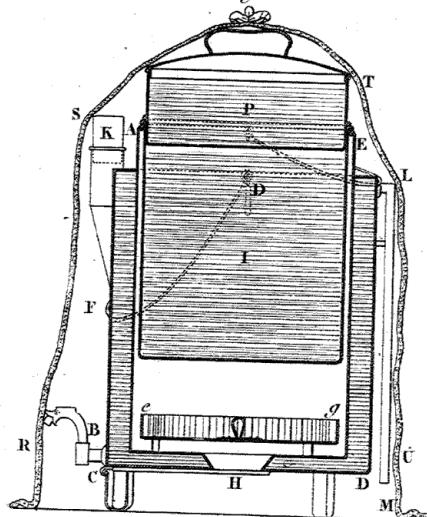


Fig. 1.

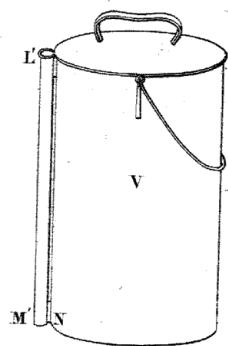
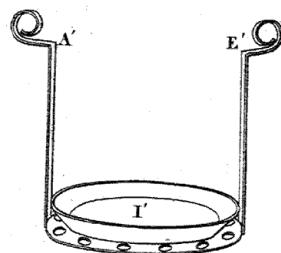
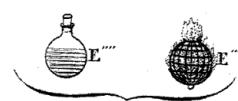
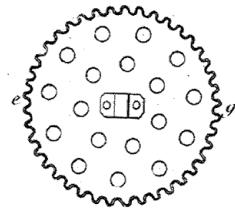
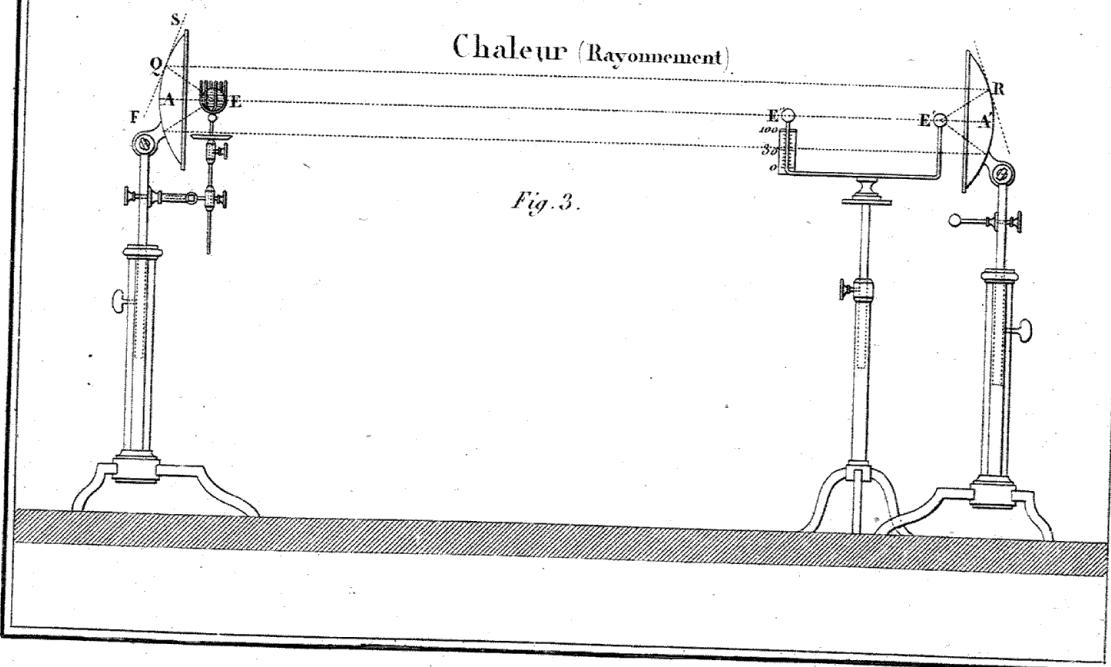


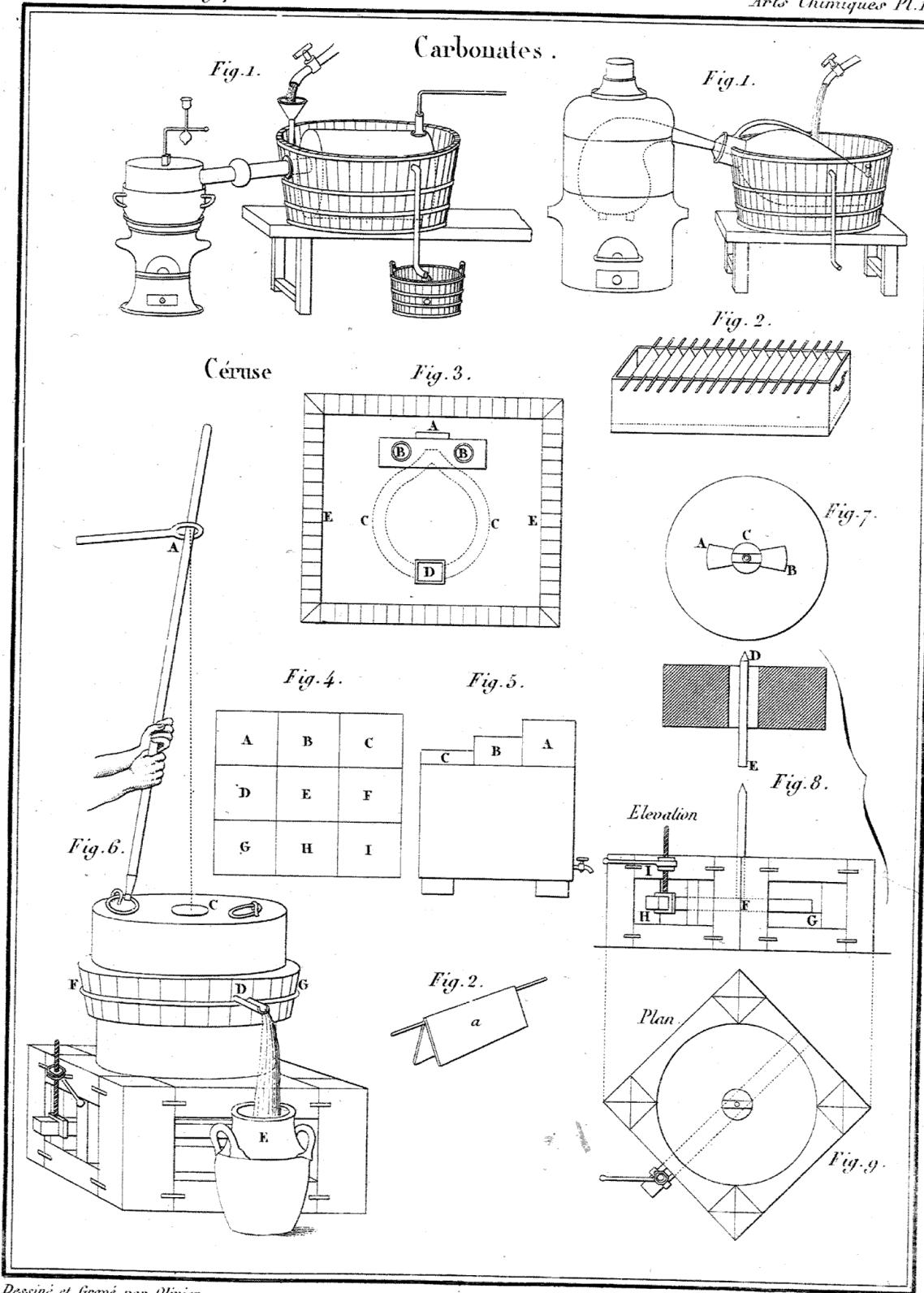
Fig. 2.



Chaleur (Rayonnement)

Fig. 3.





dessiné et gravé par Olivier.

Chaley. *Cheminées et Poêles.*

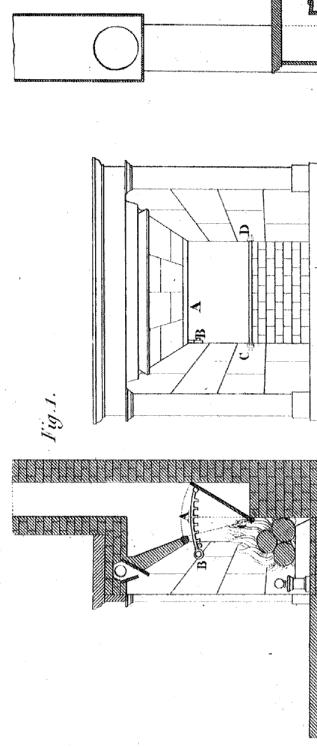
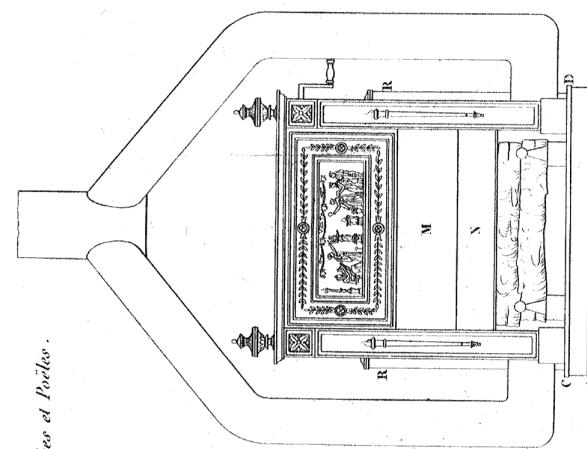


Fig. 2.



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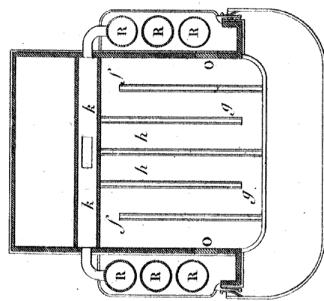
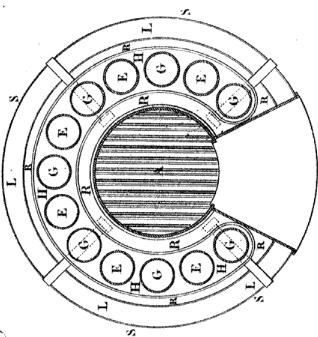
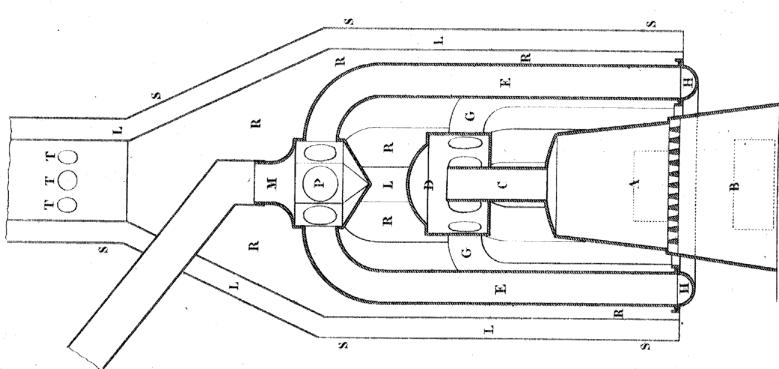
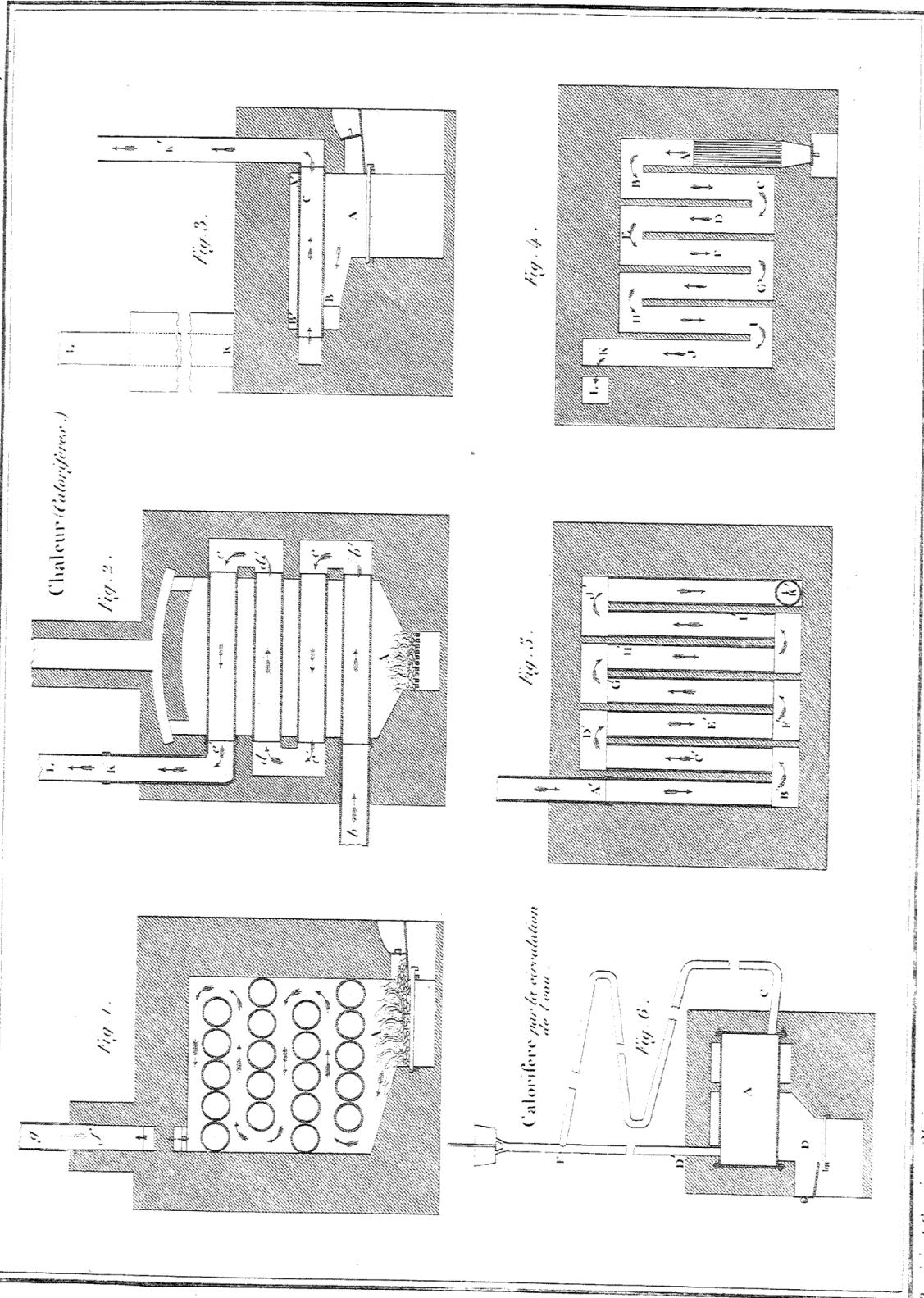
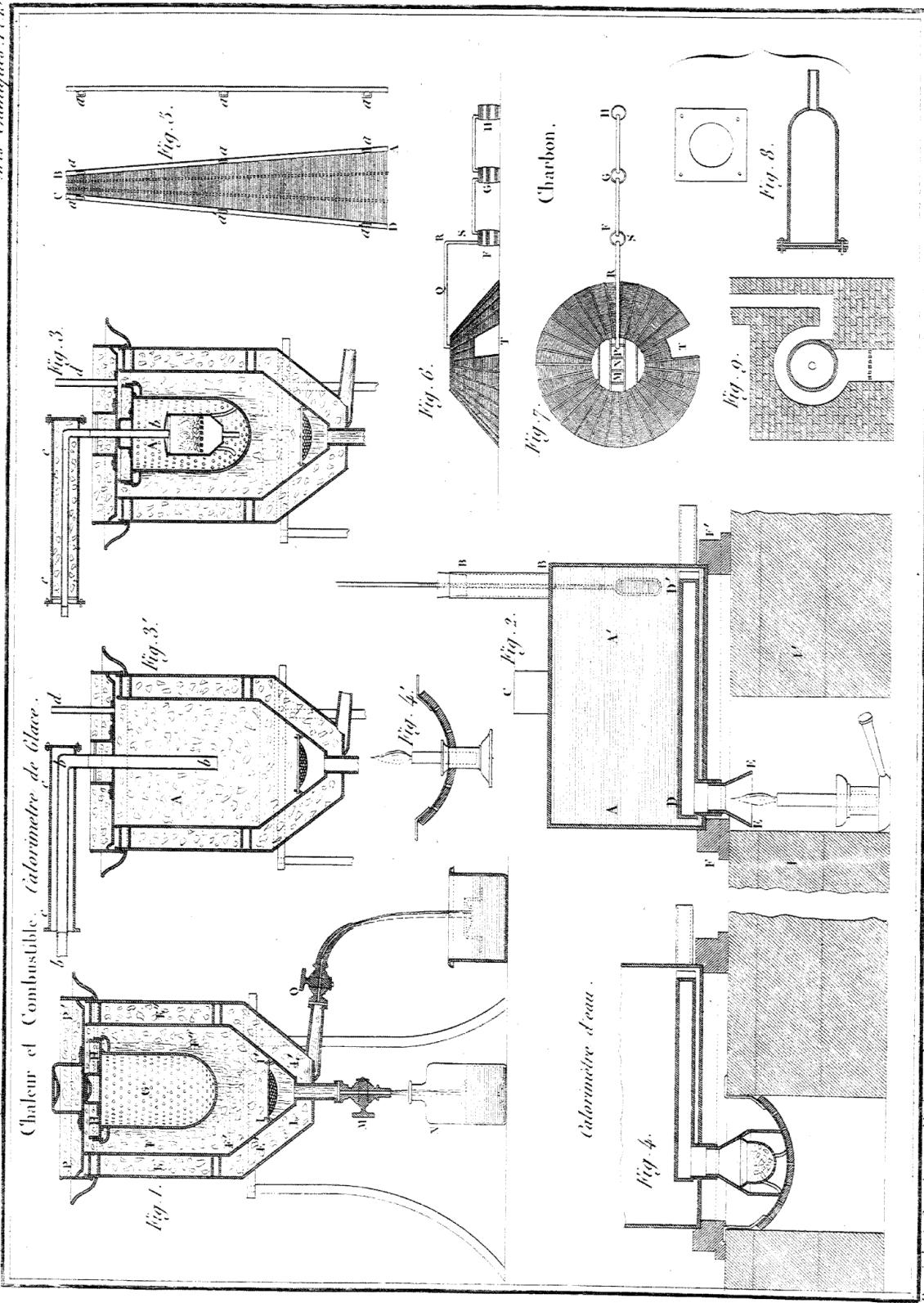


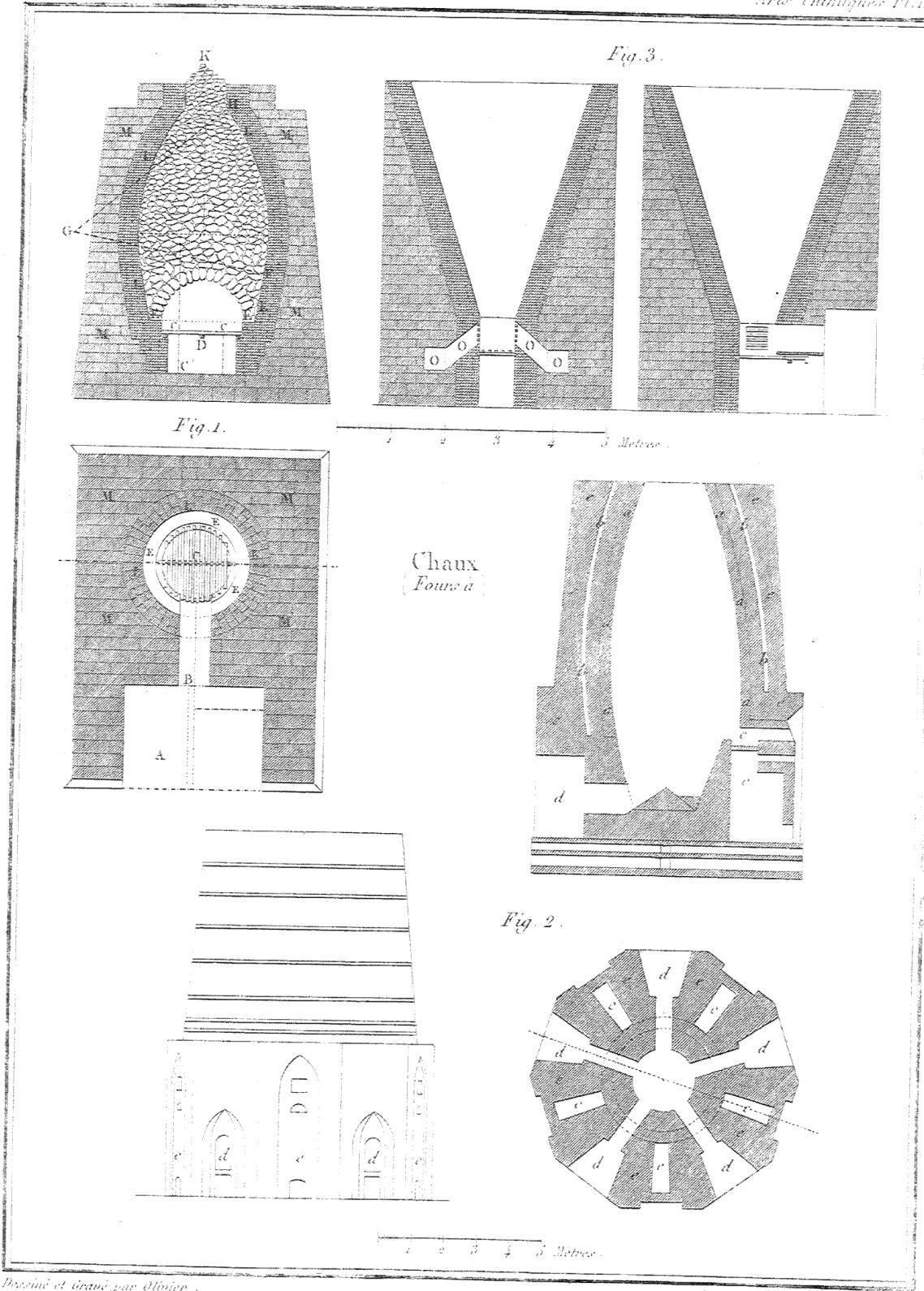
Fig. 5.



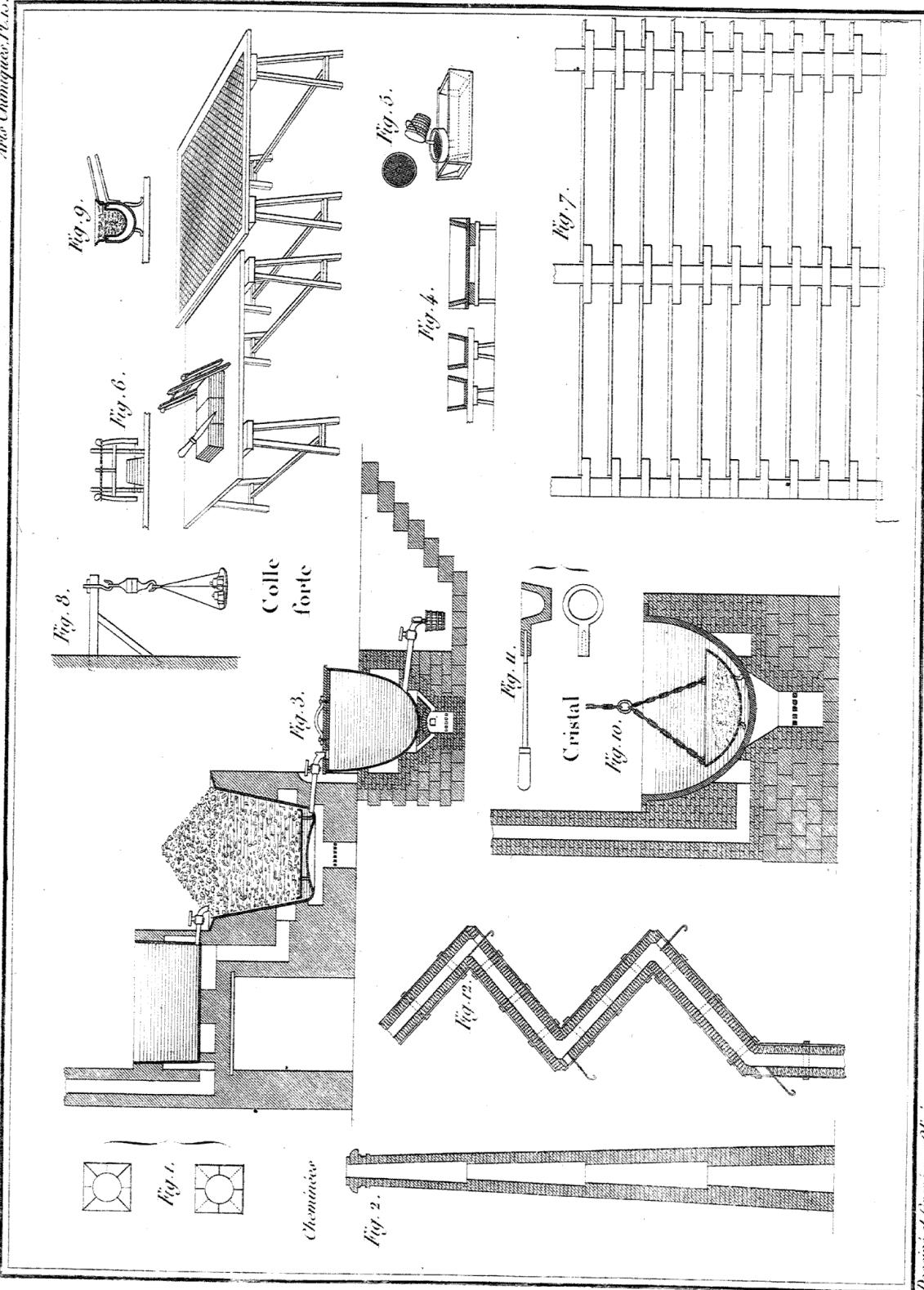
L'origine et l'âge des vases oliviers

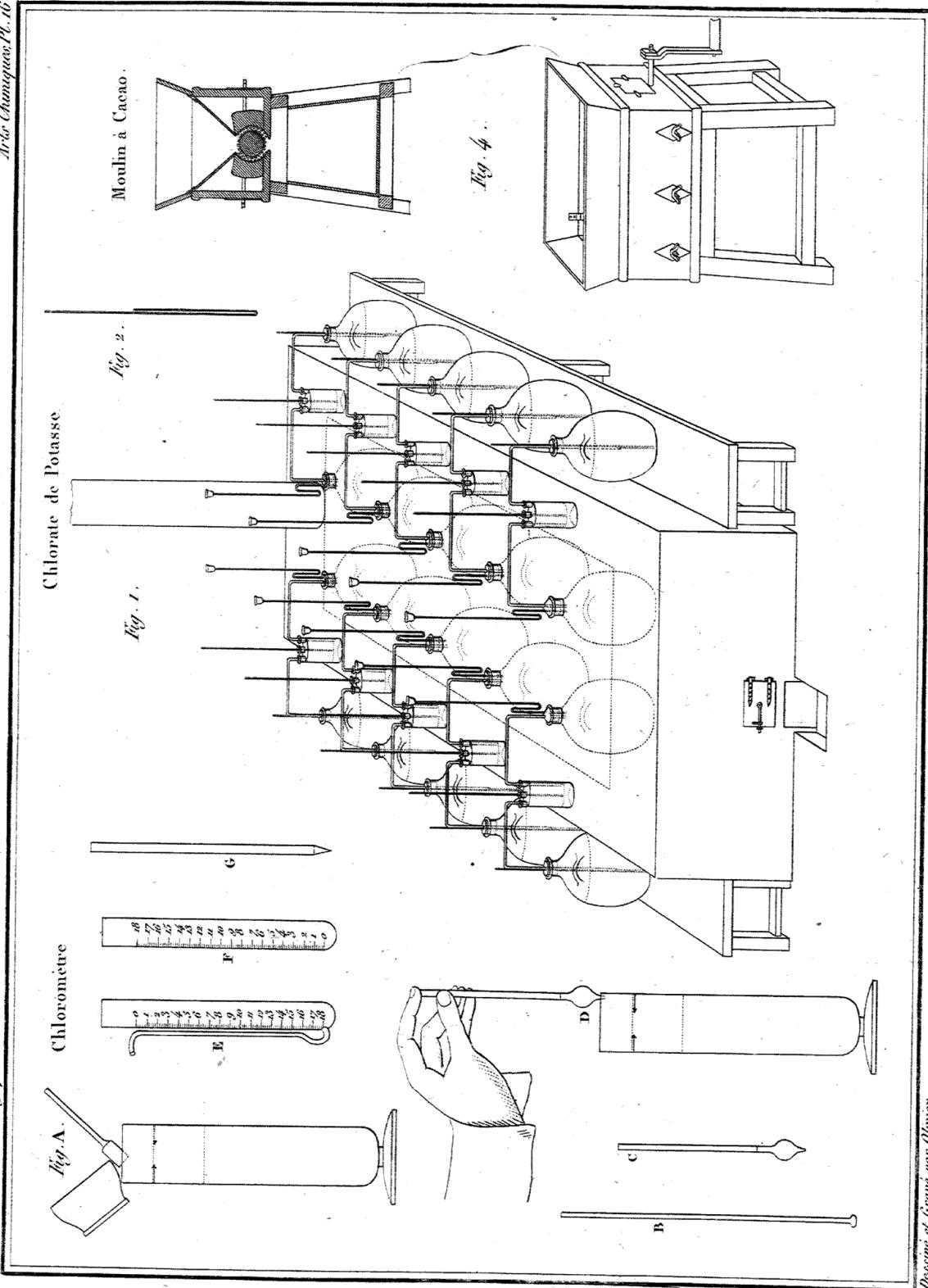


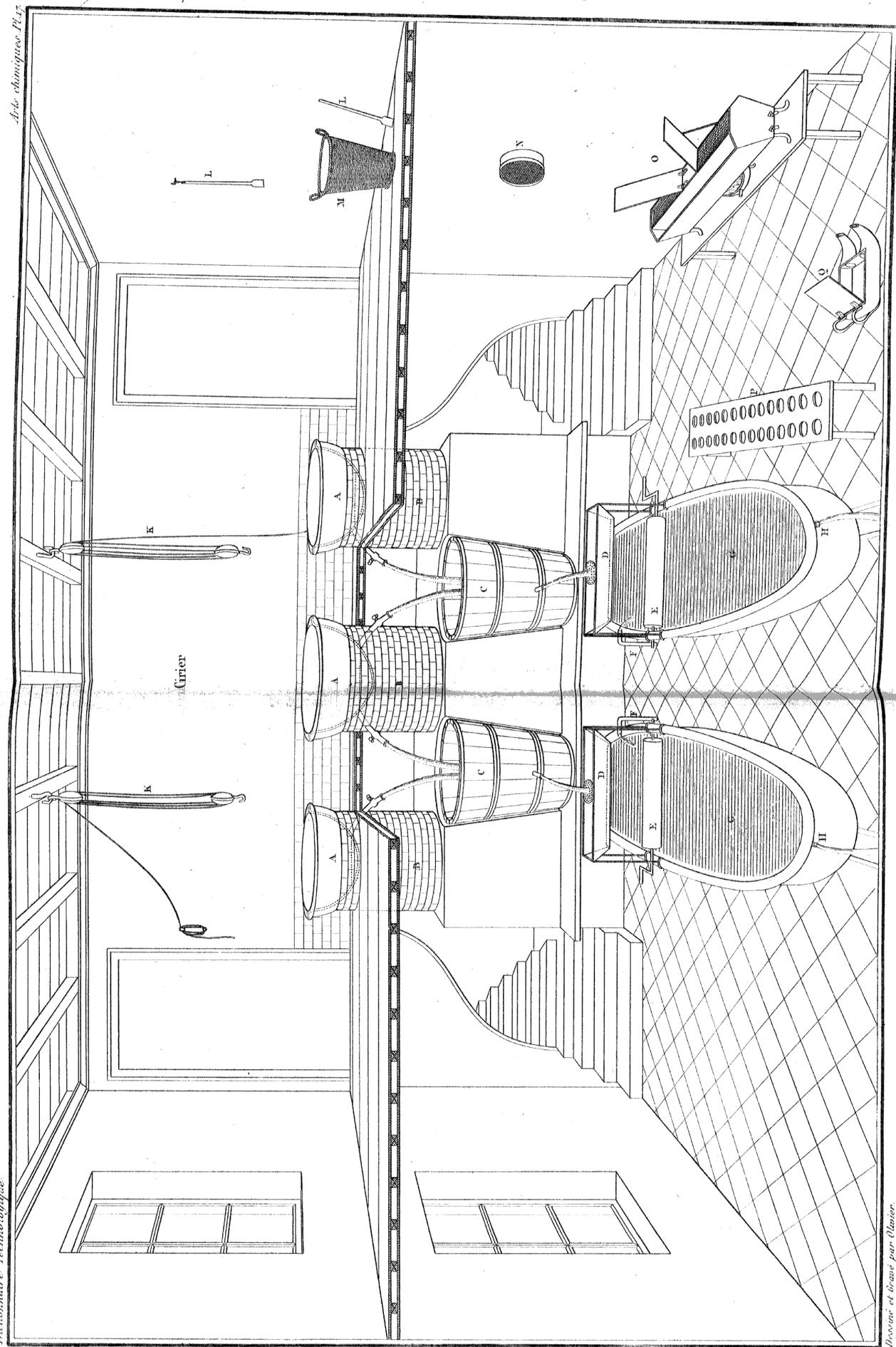


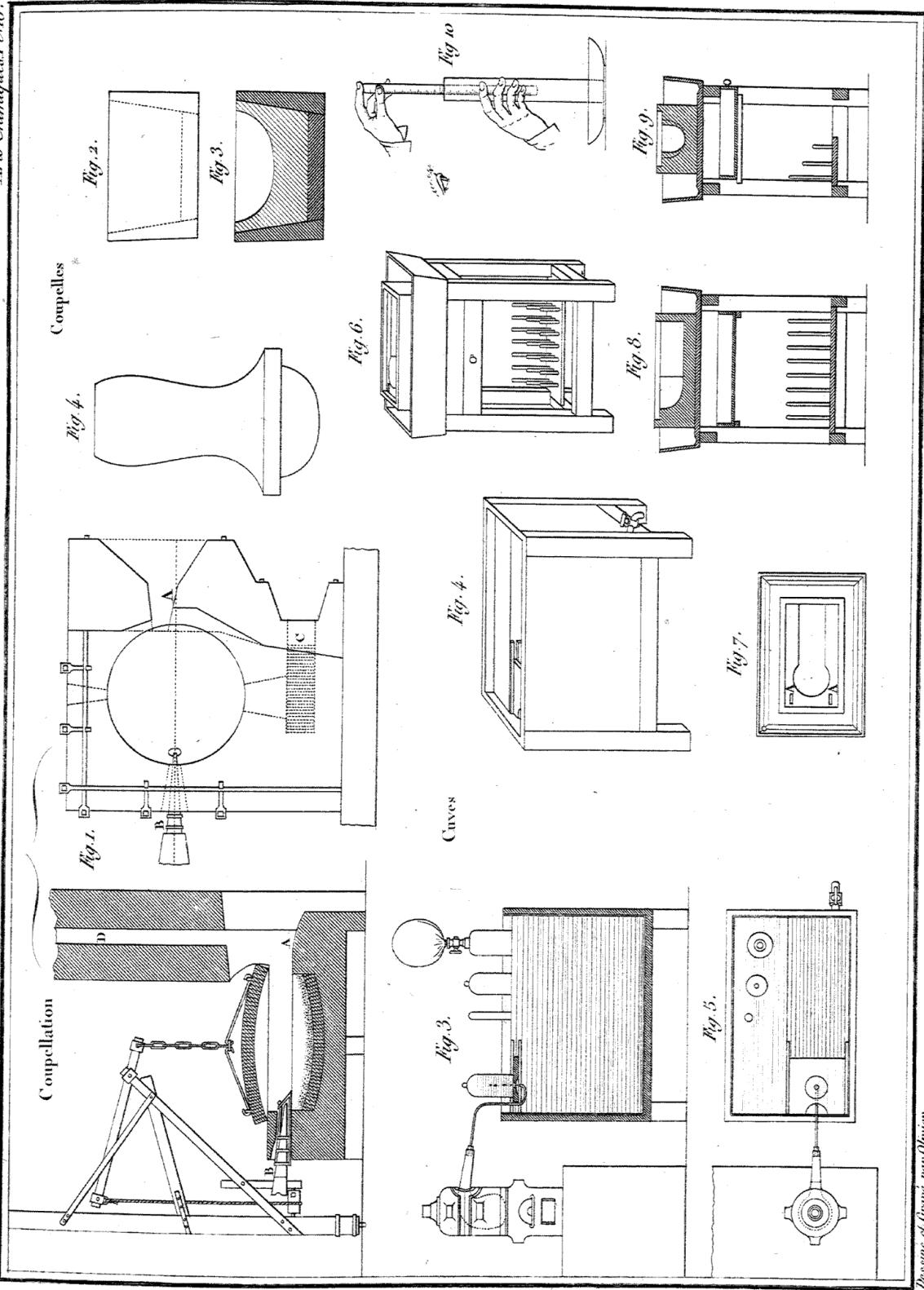


Précisé et gravé par Delâtre.









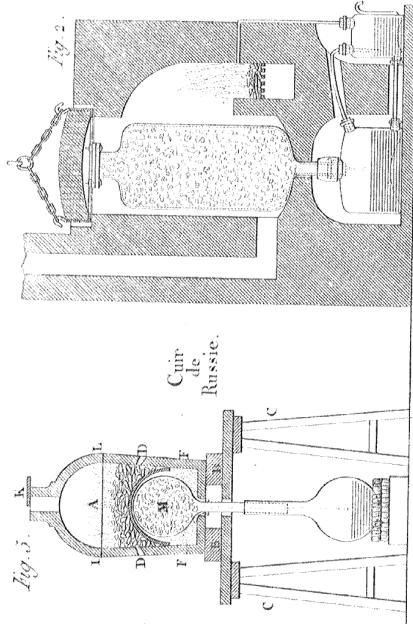


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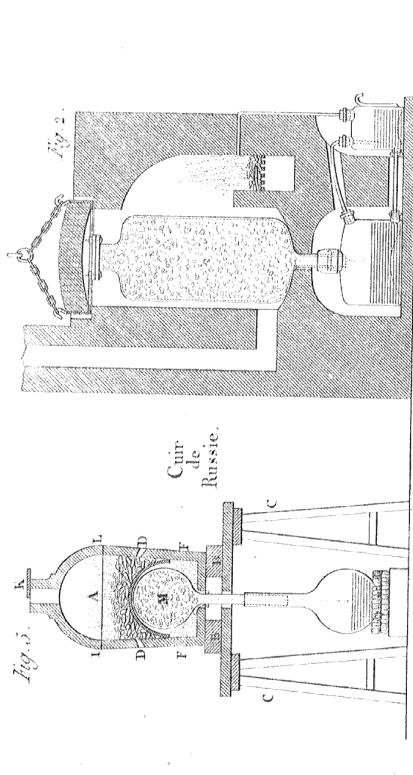


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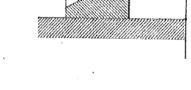
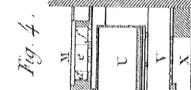
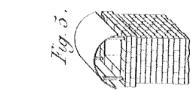


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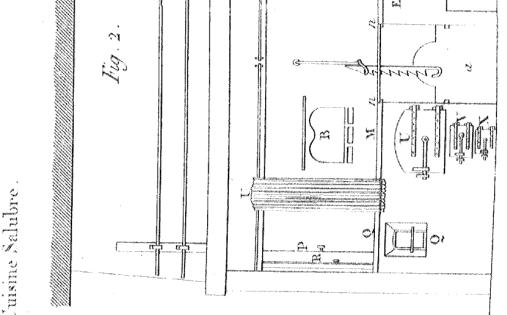
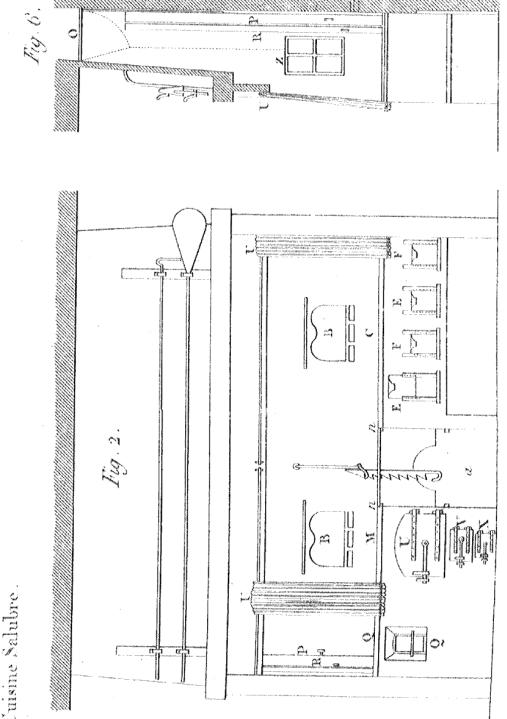
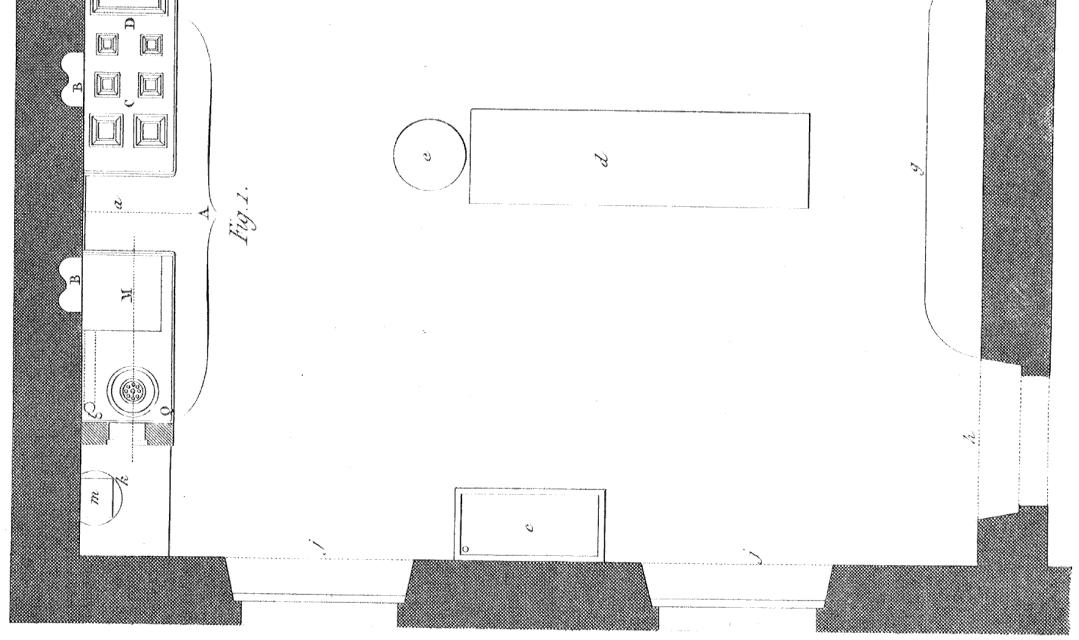
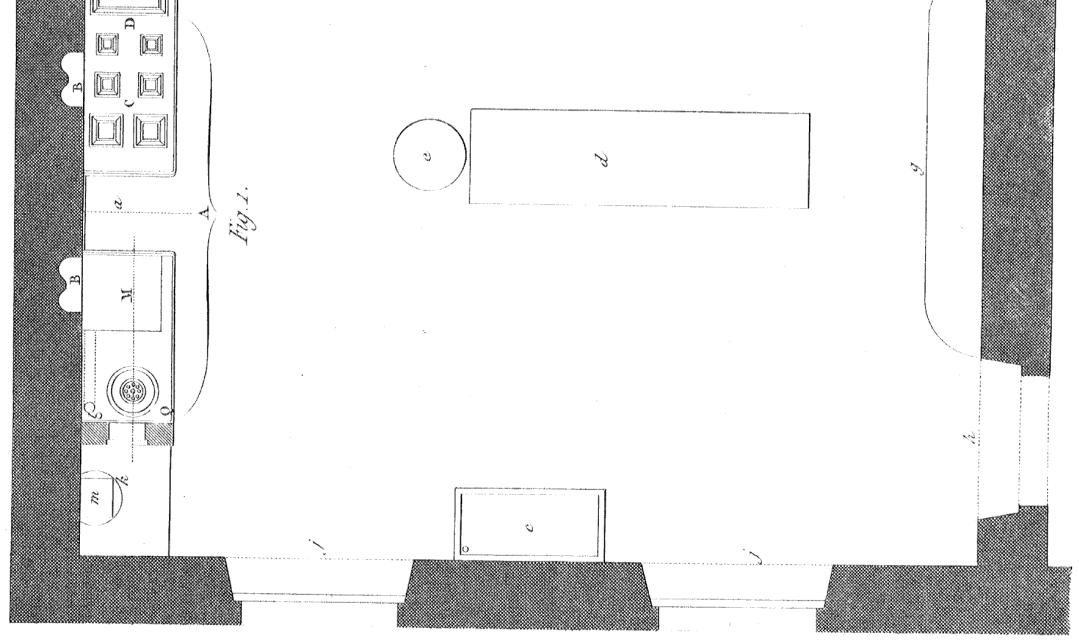
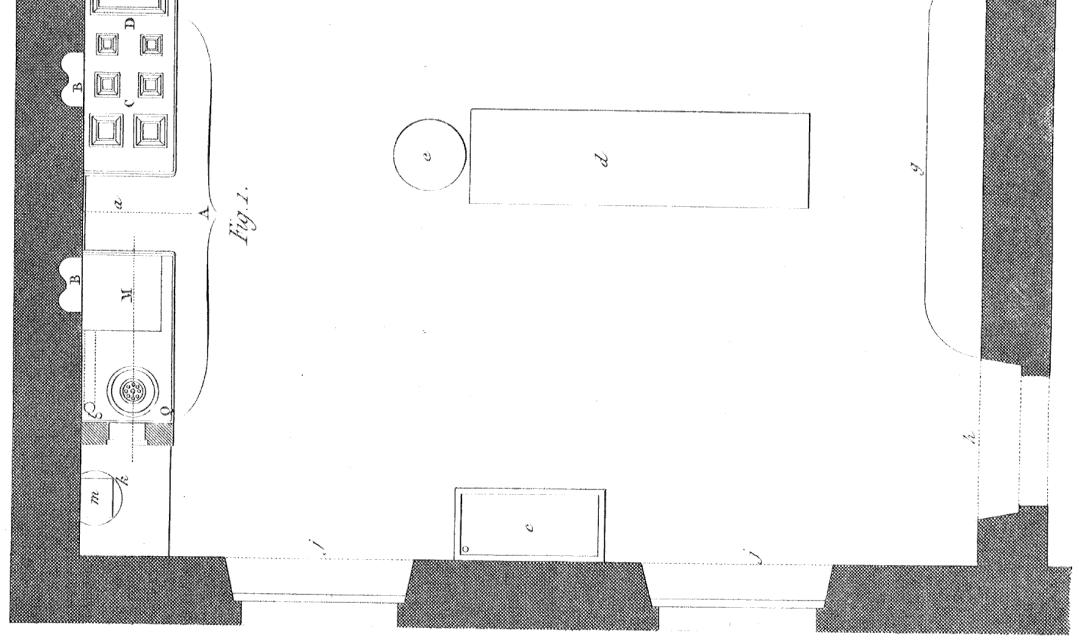
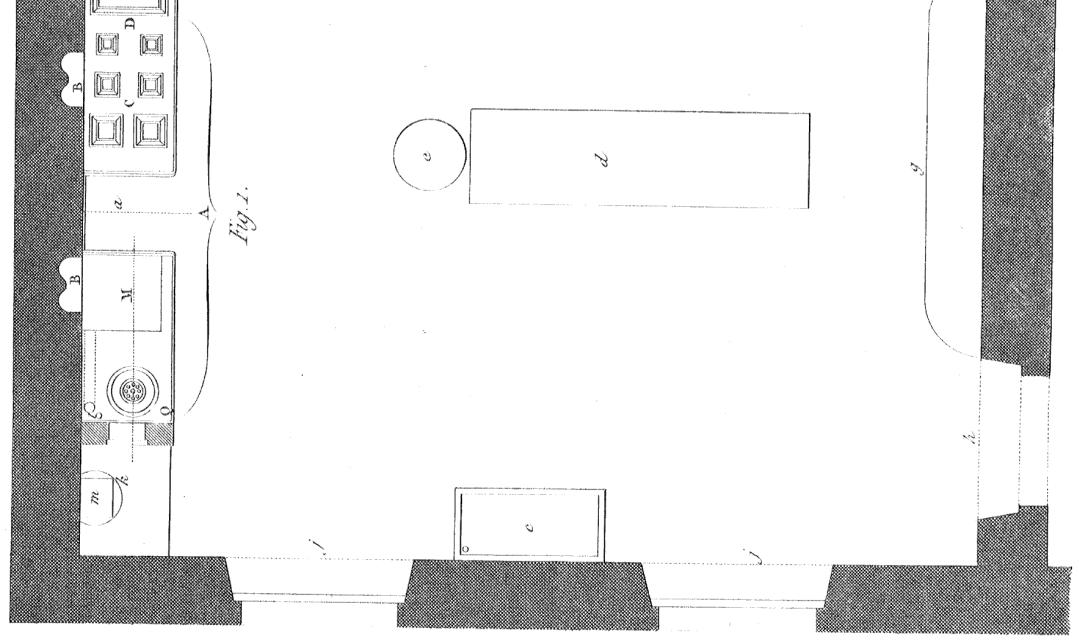
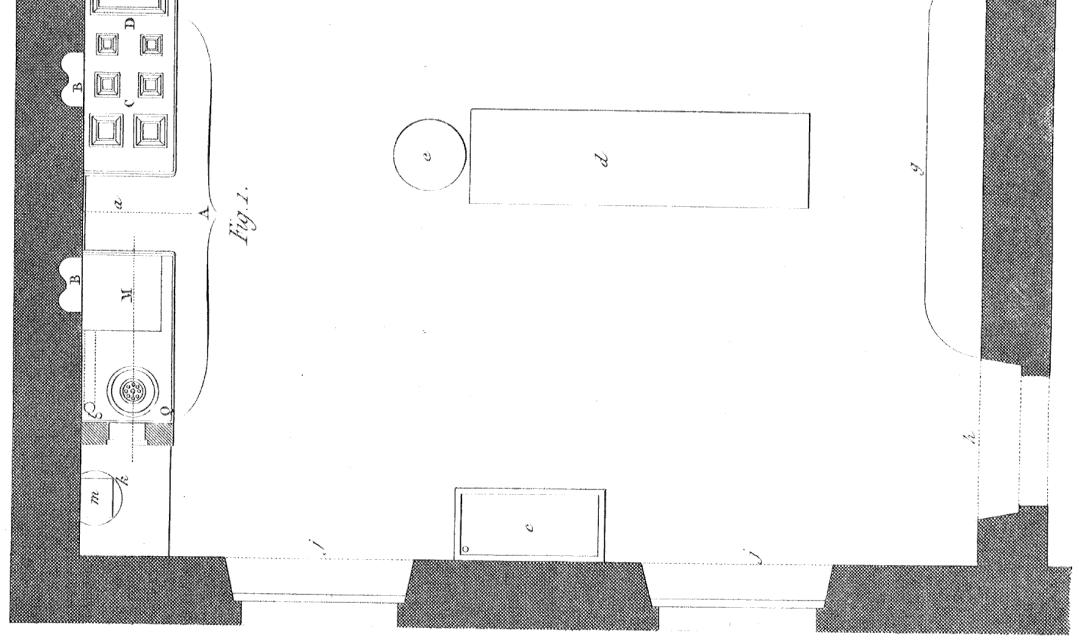
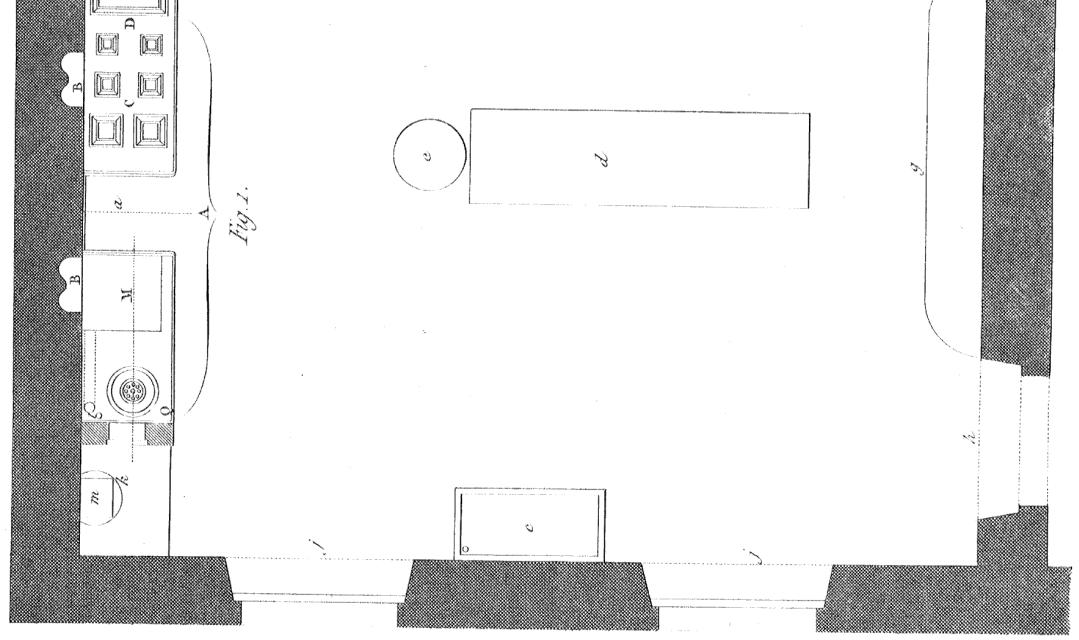
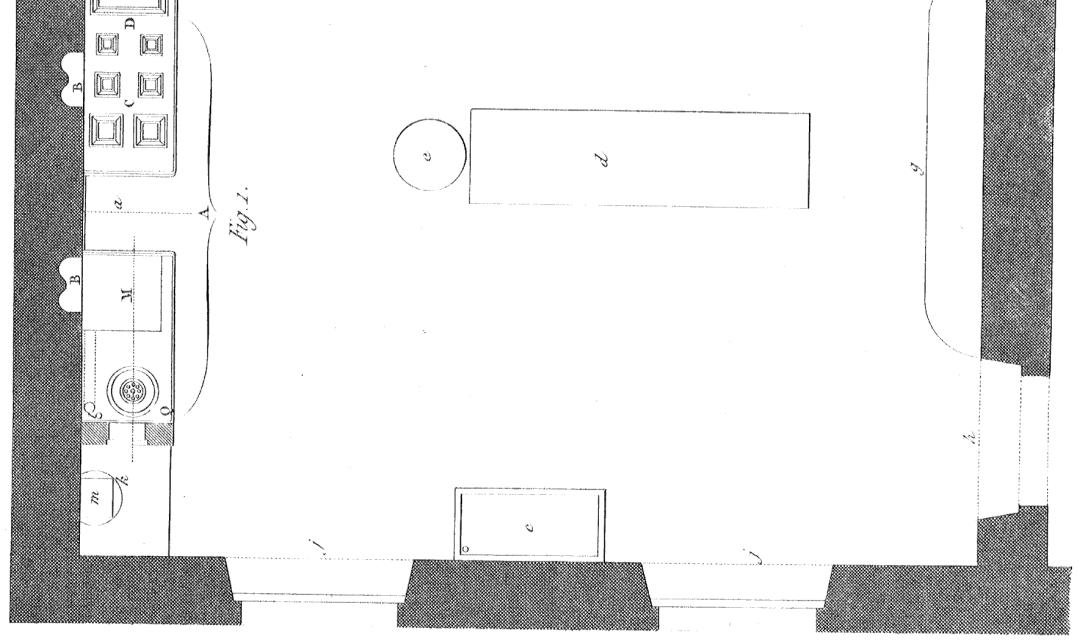
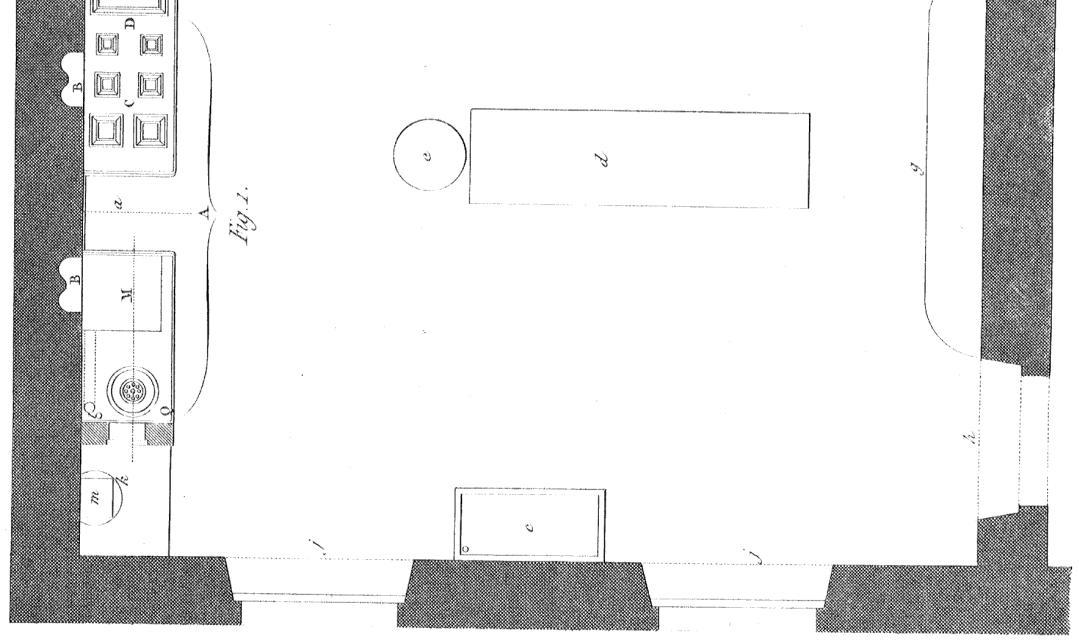
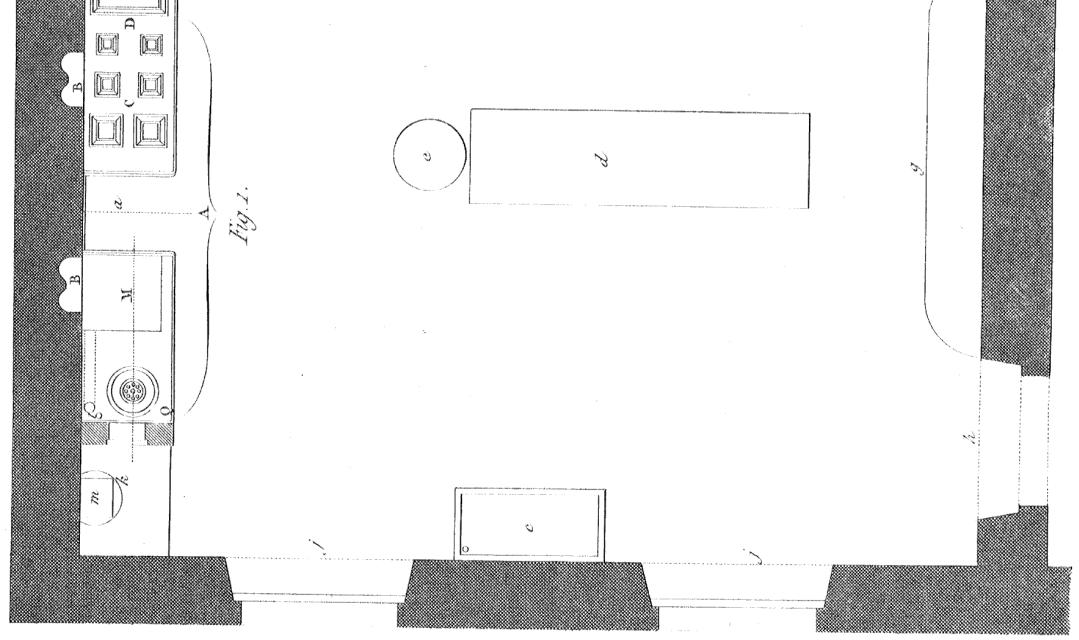
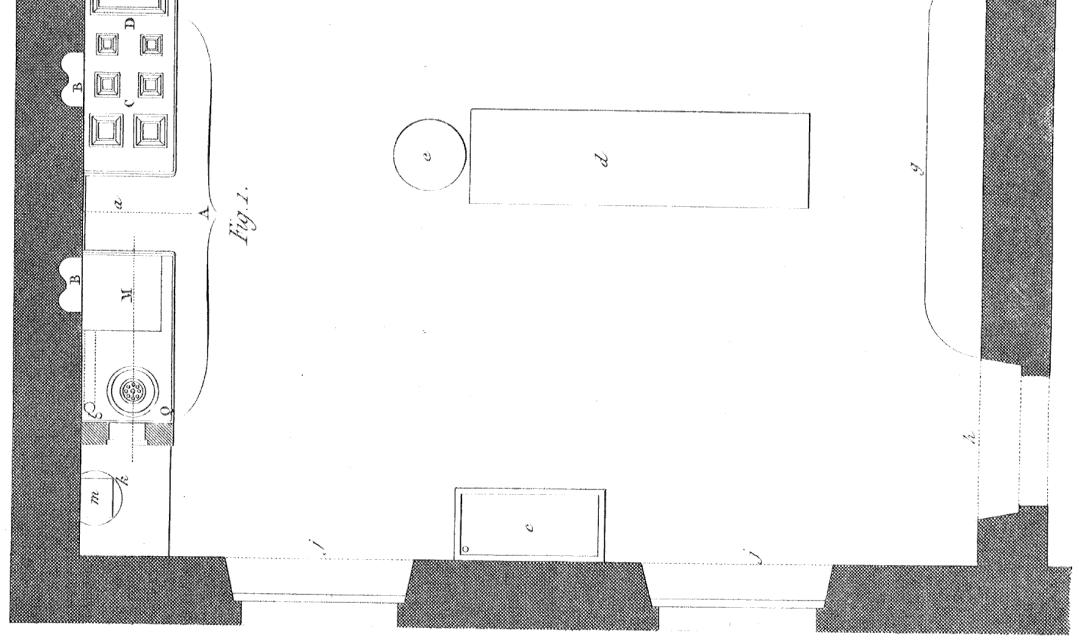
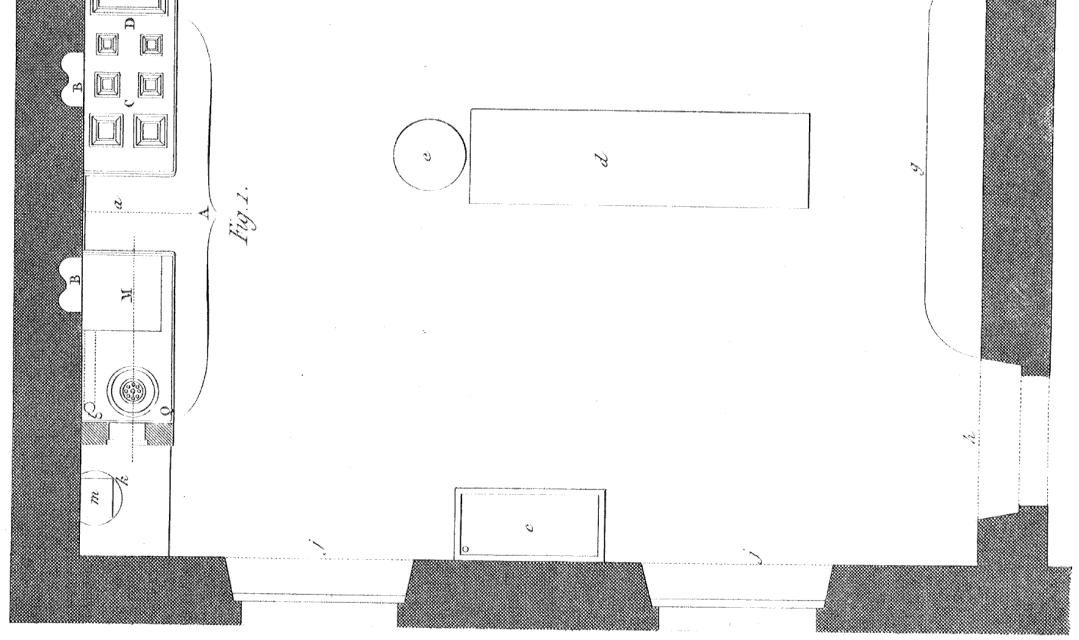
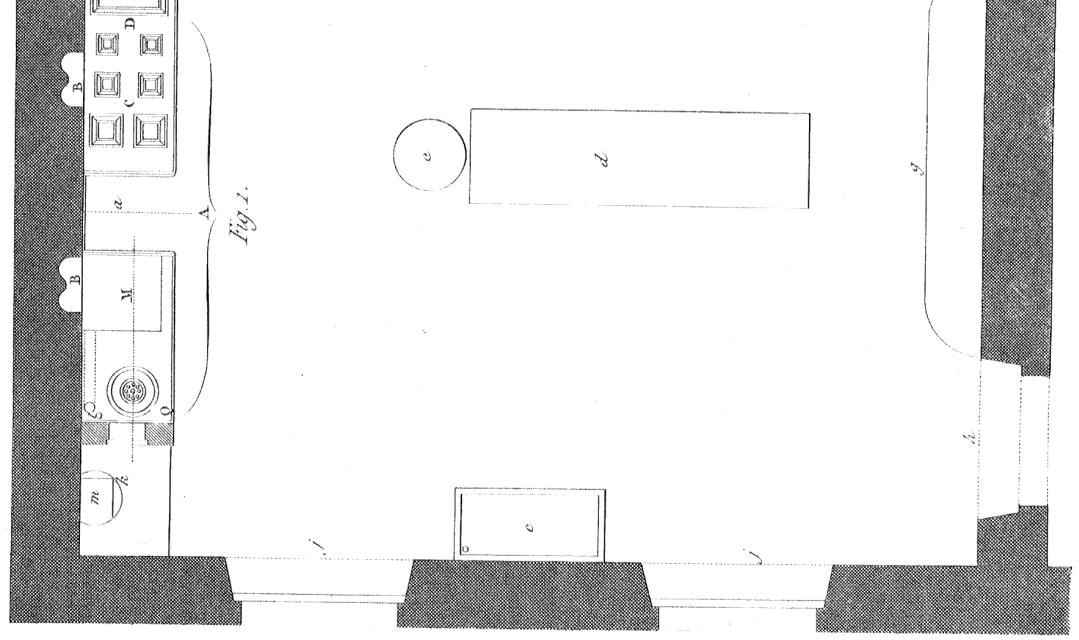
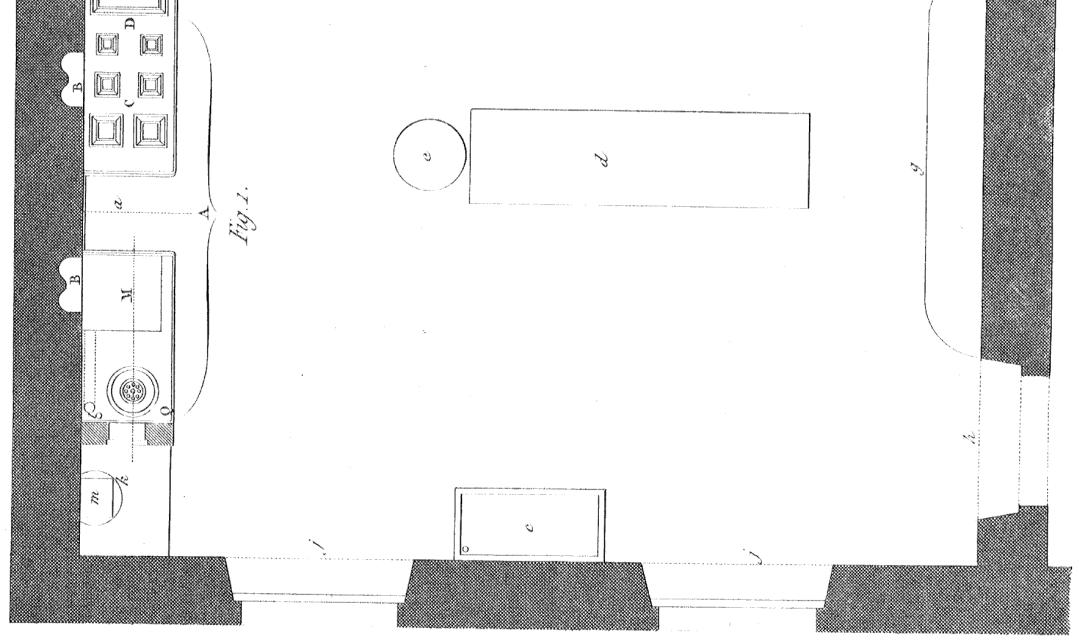
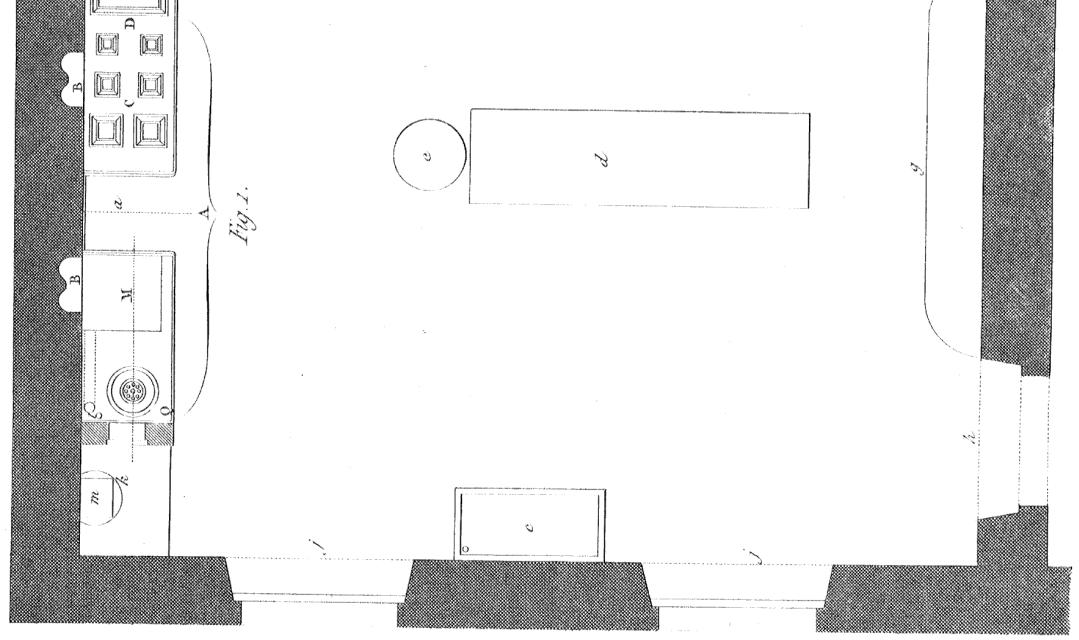
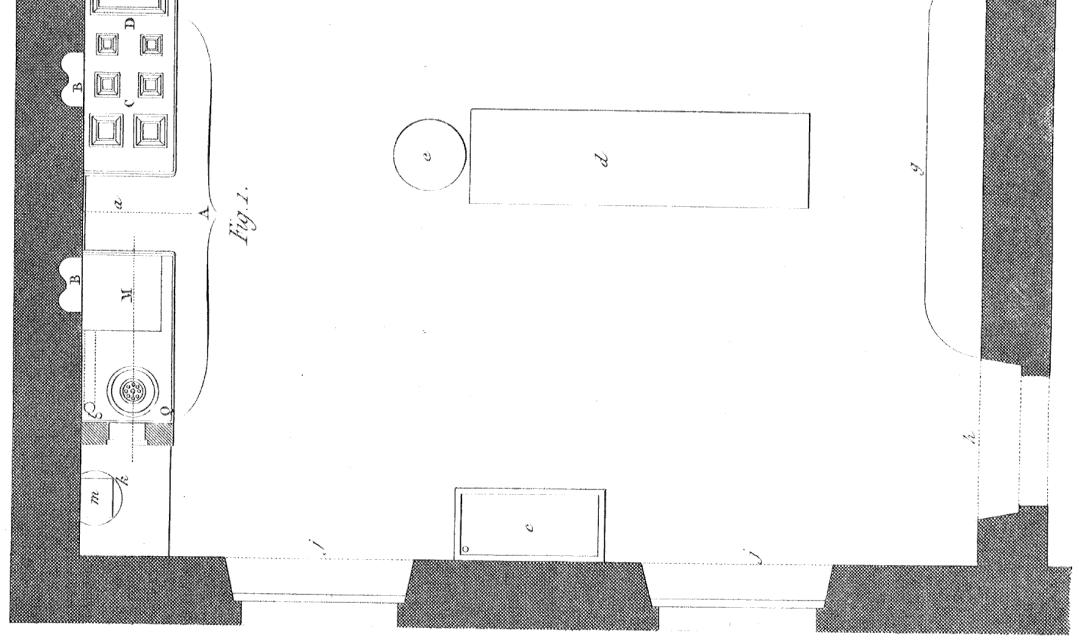
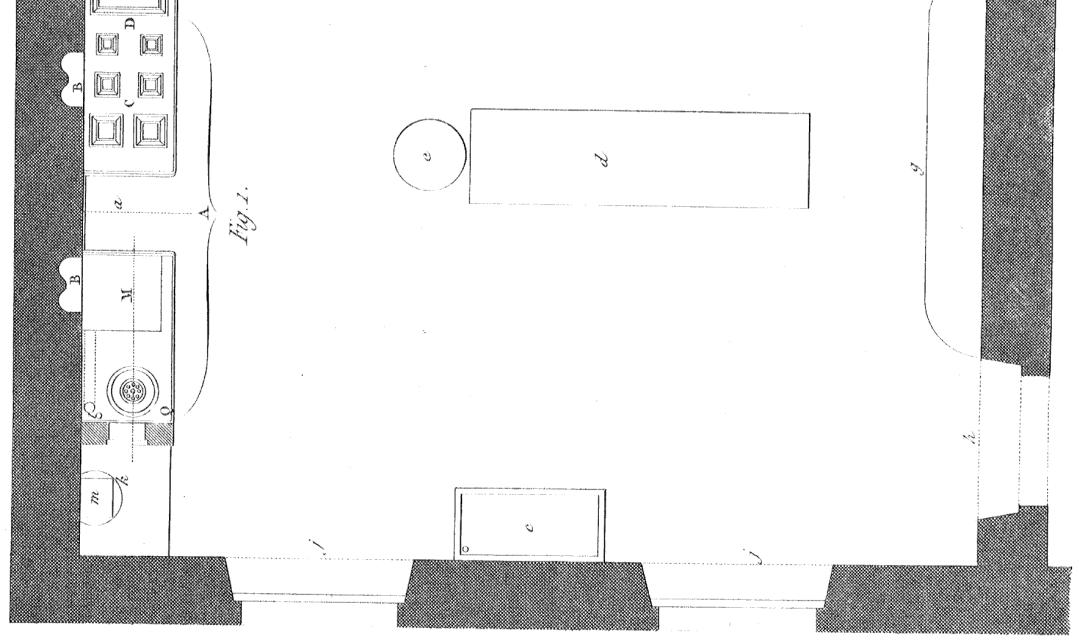
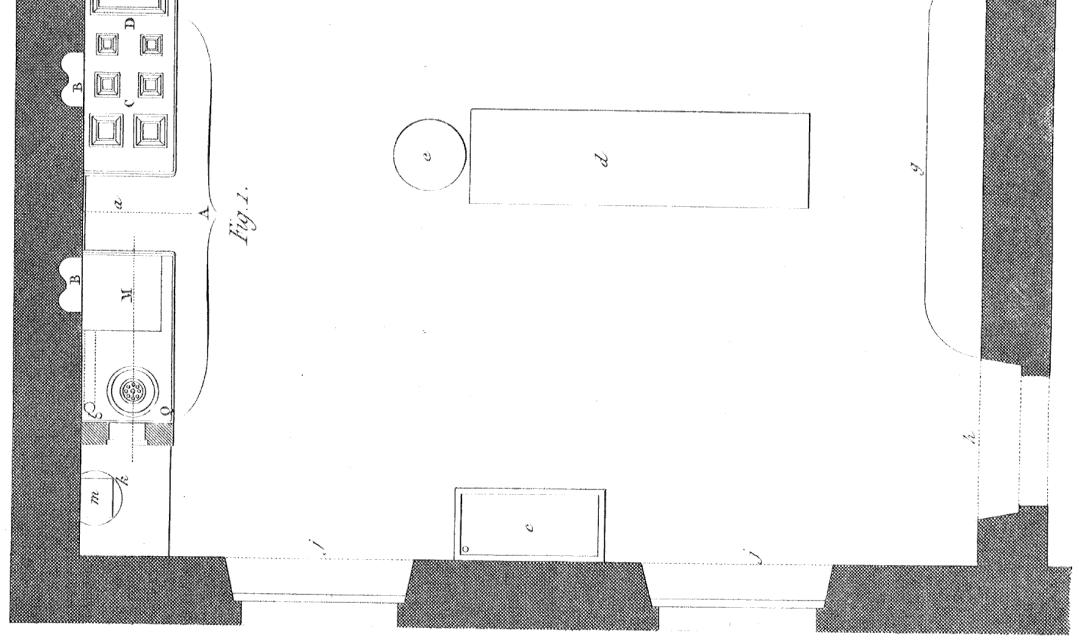
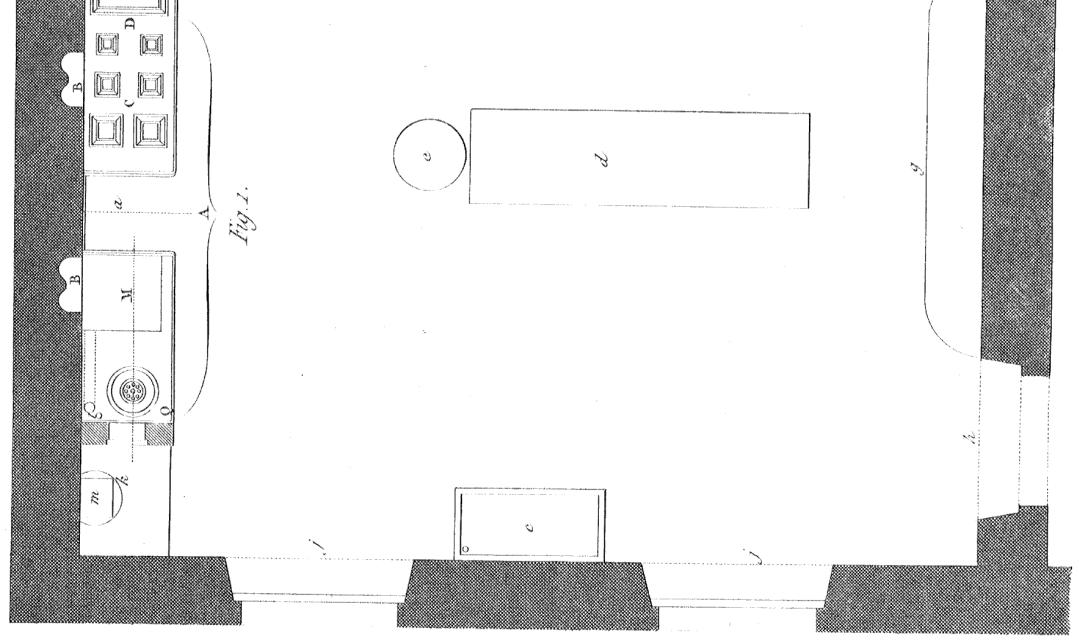
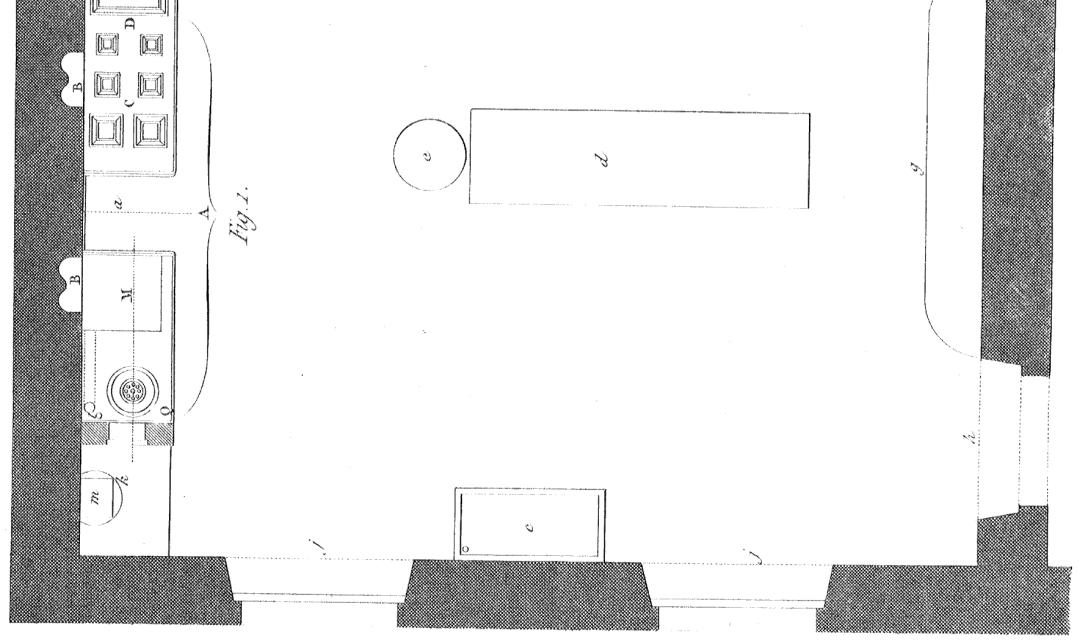
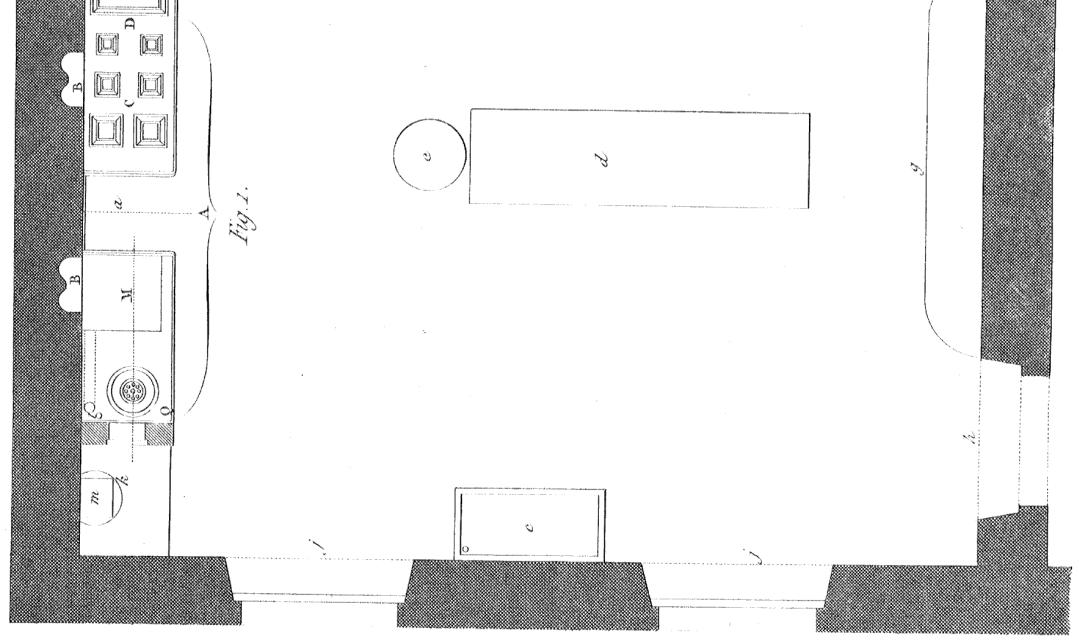
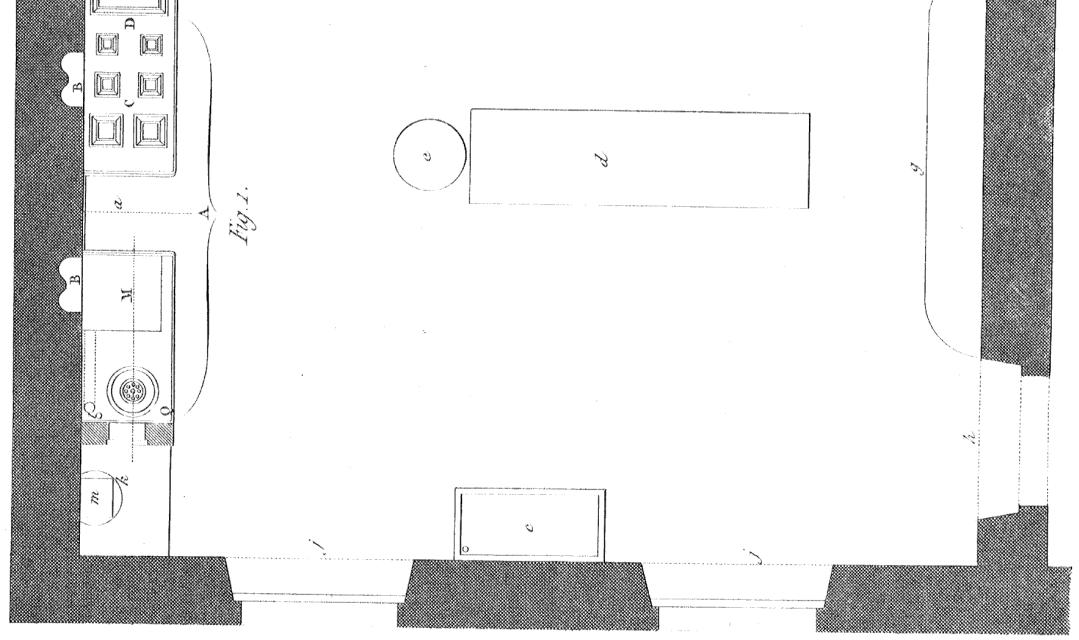
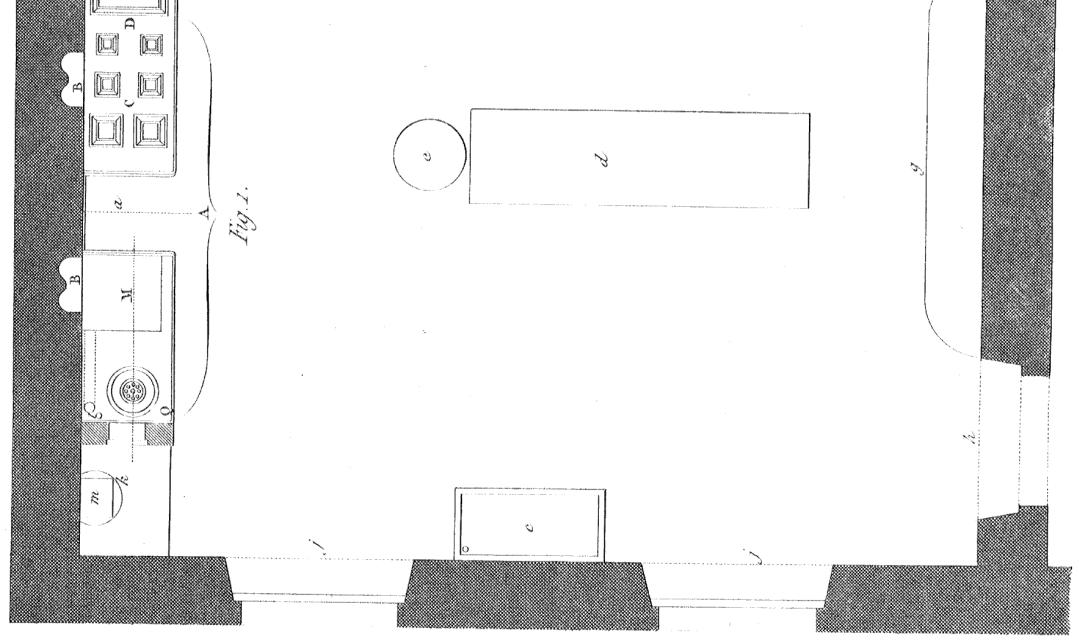
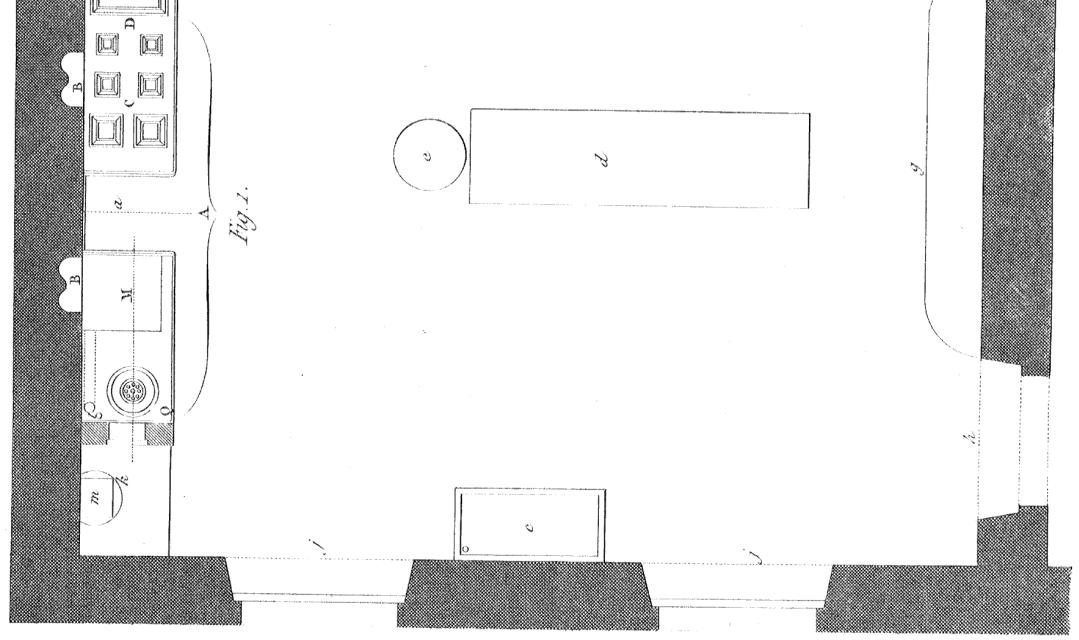
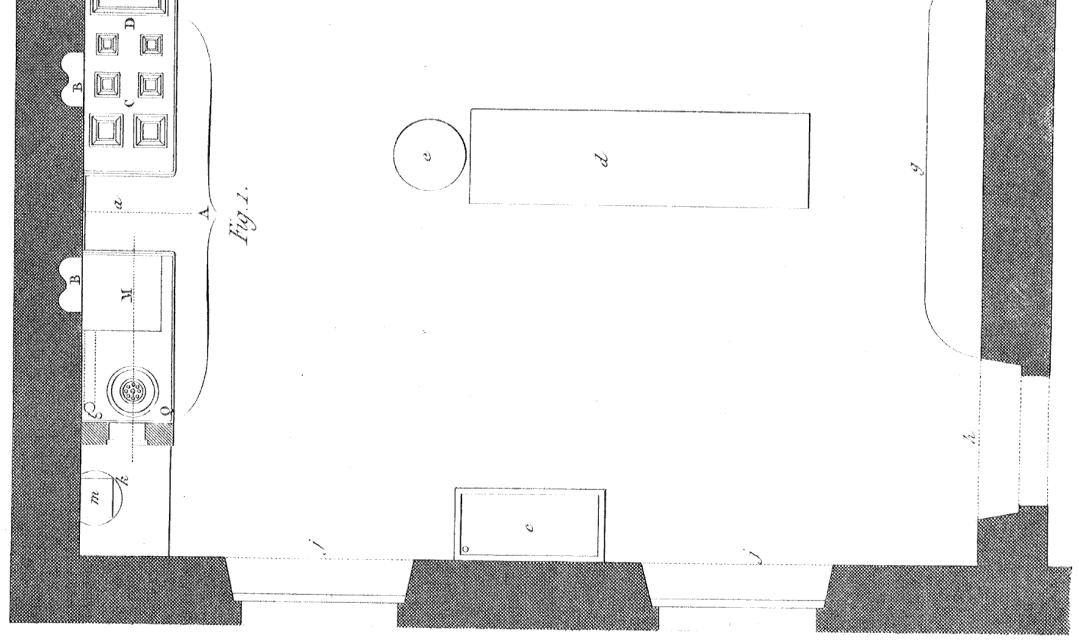
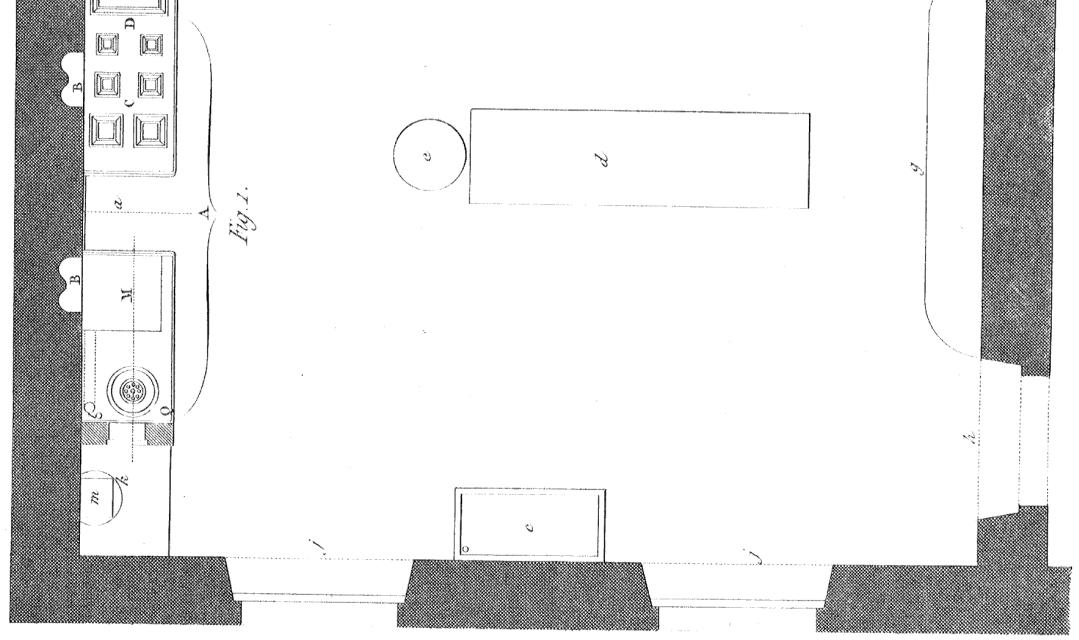
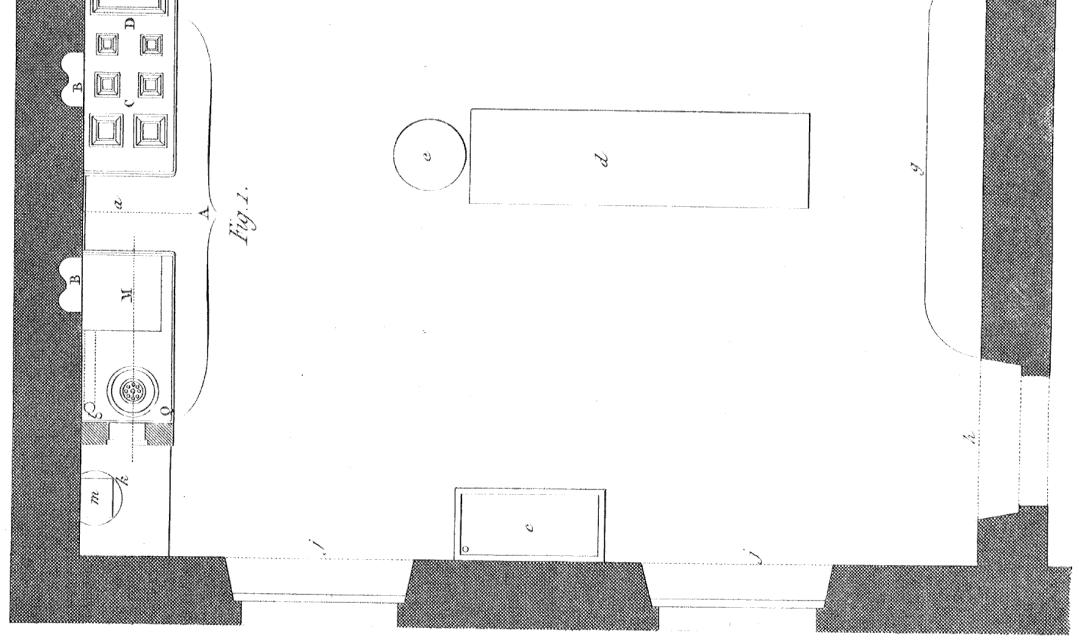
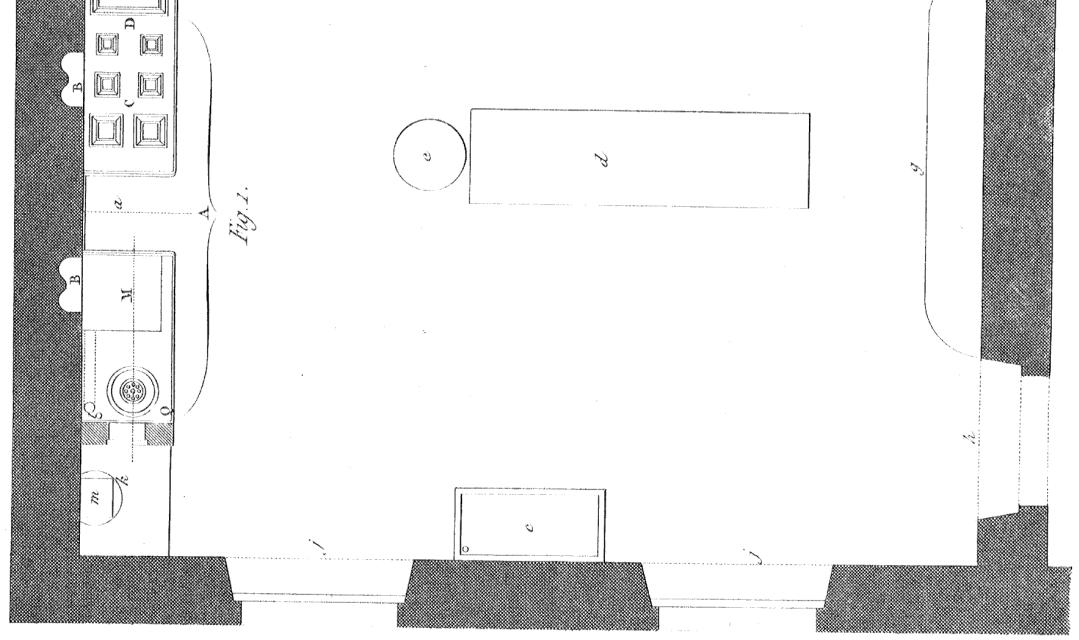
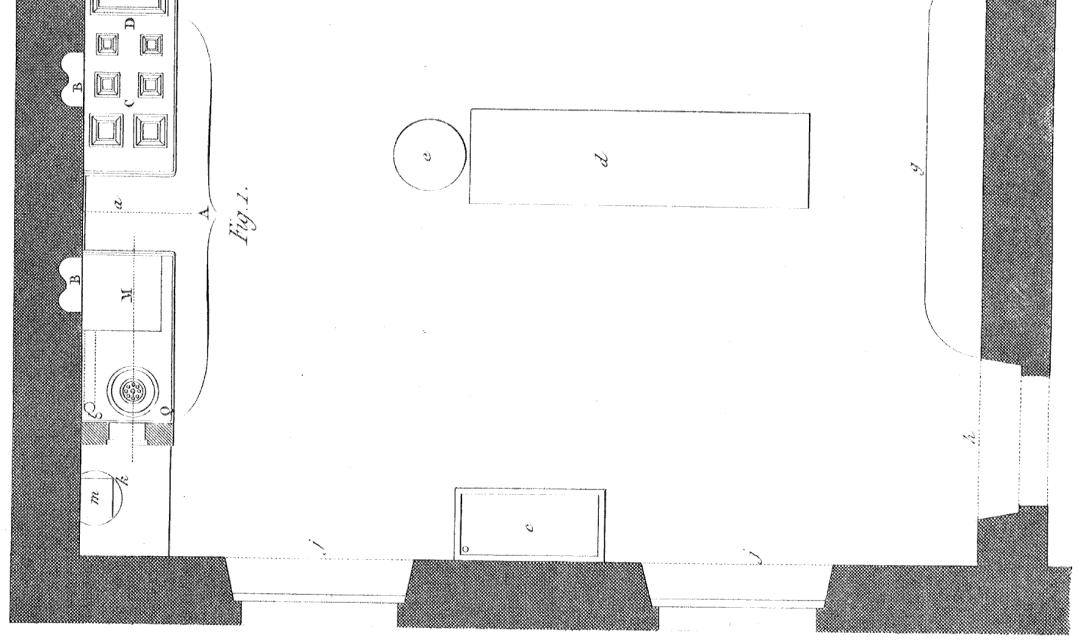
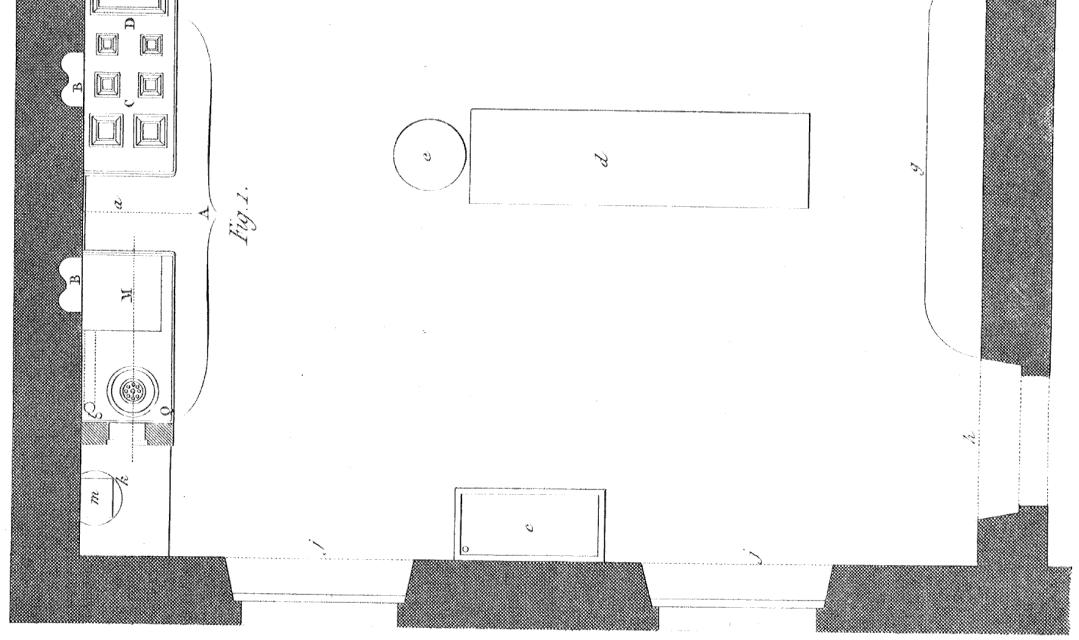
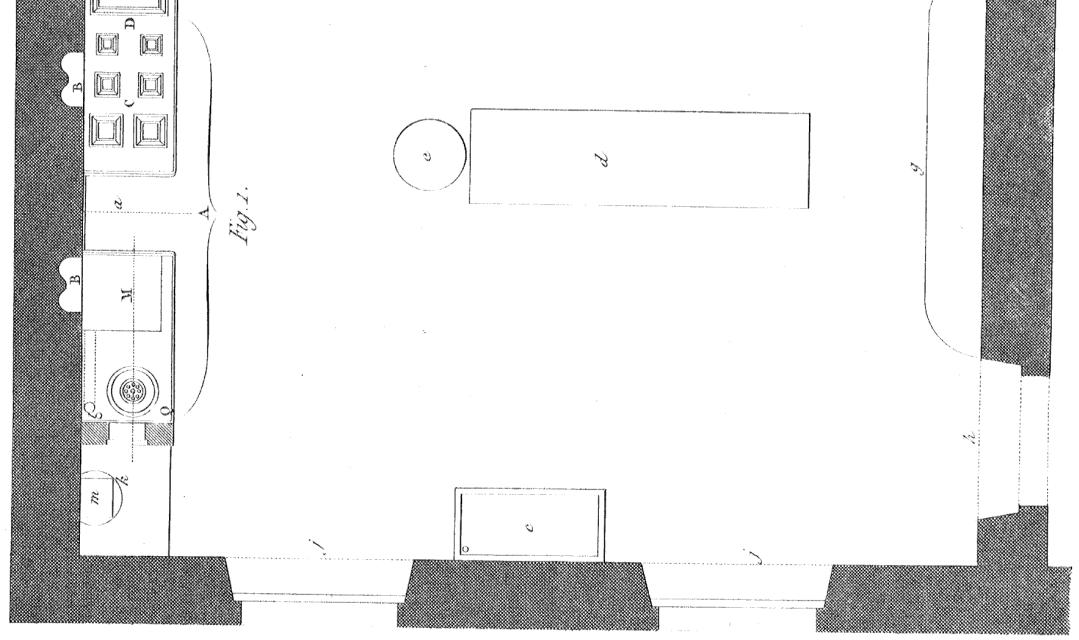
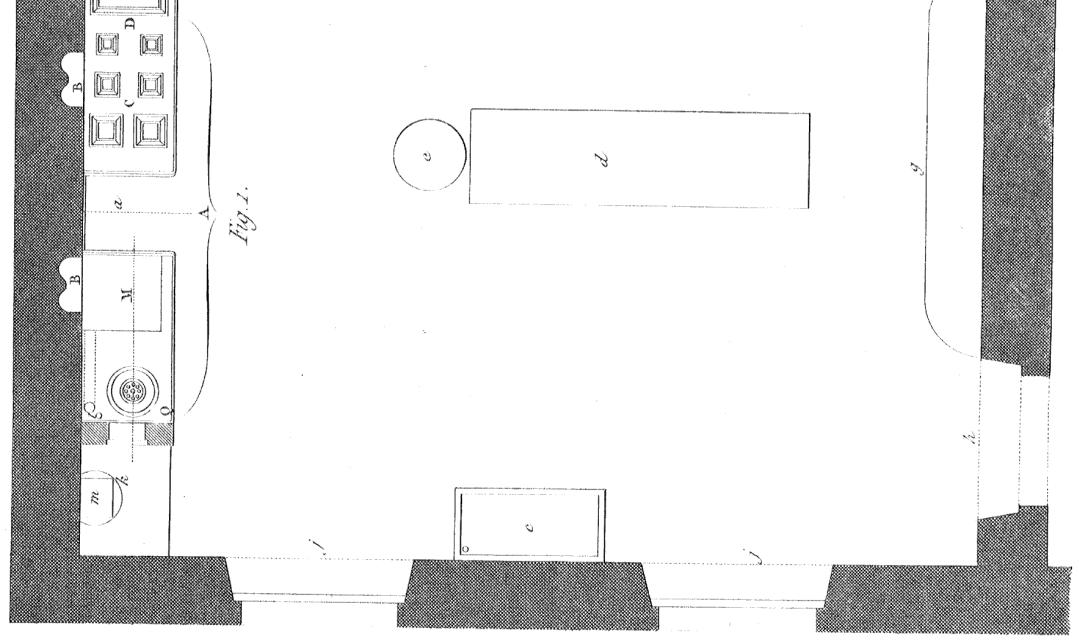
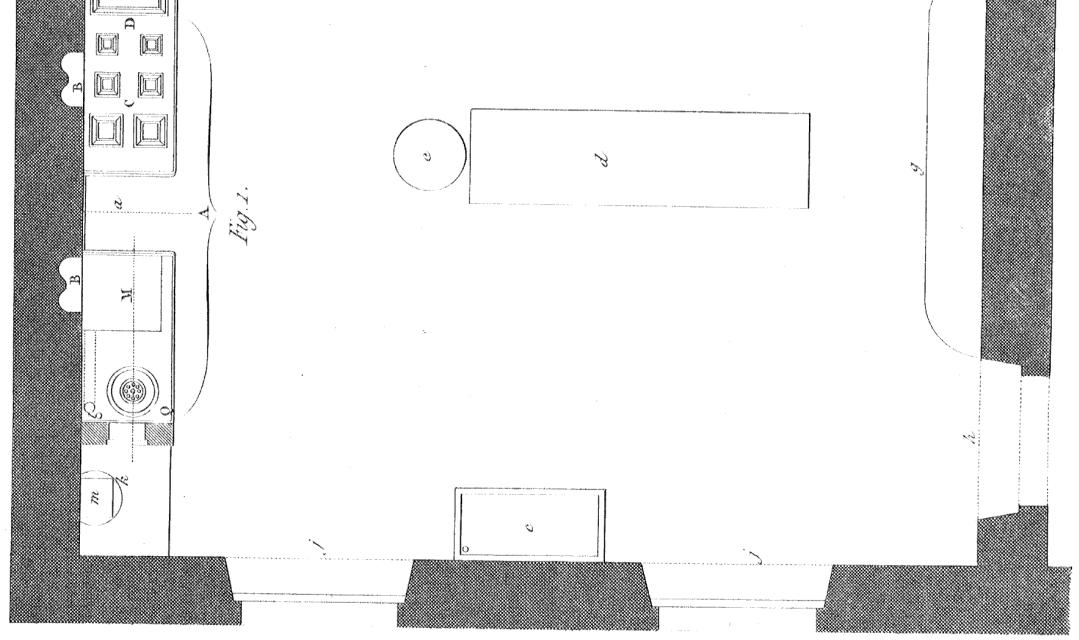
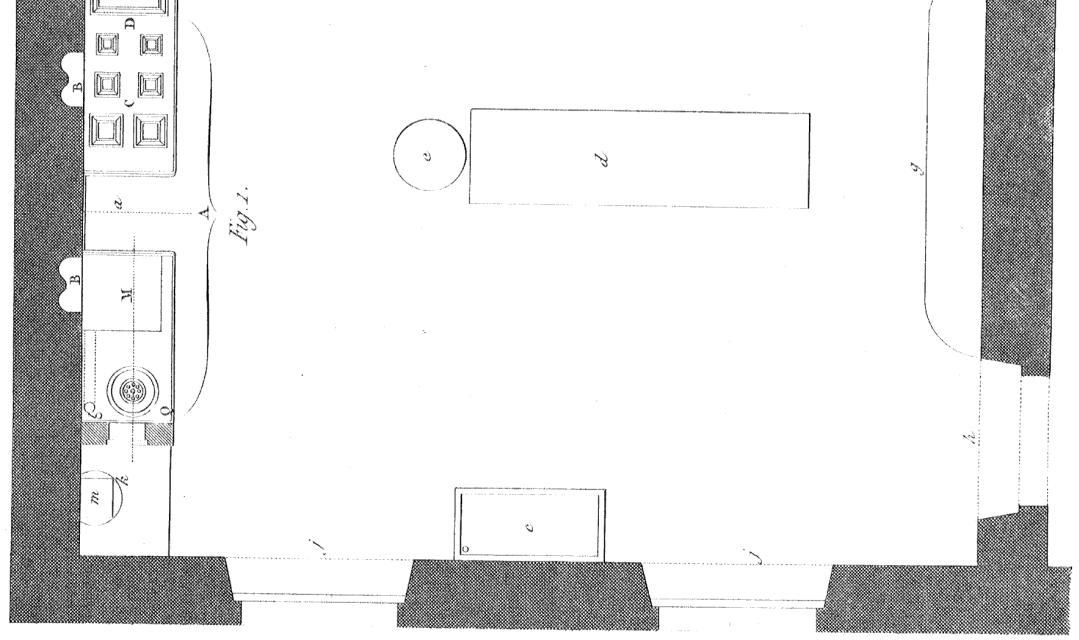
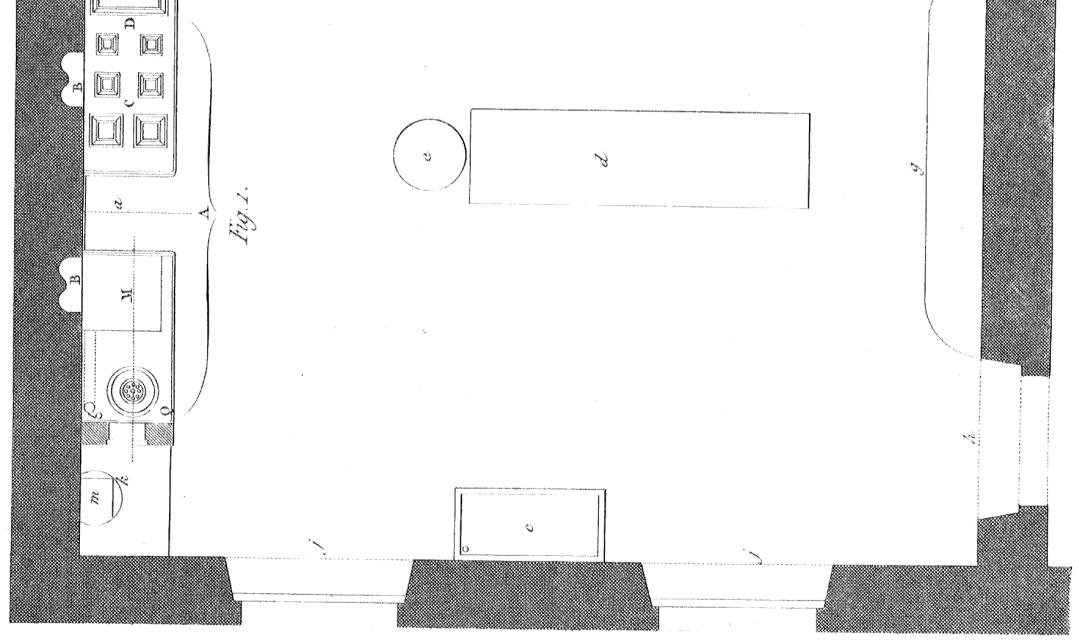
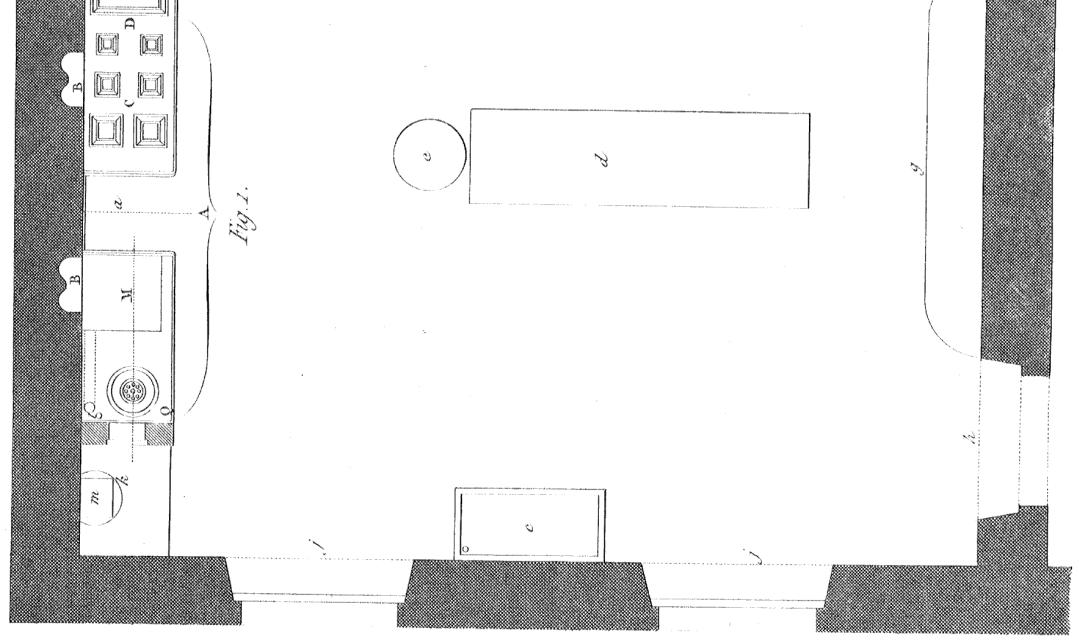
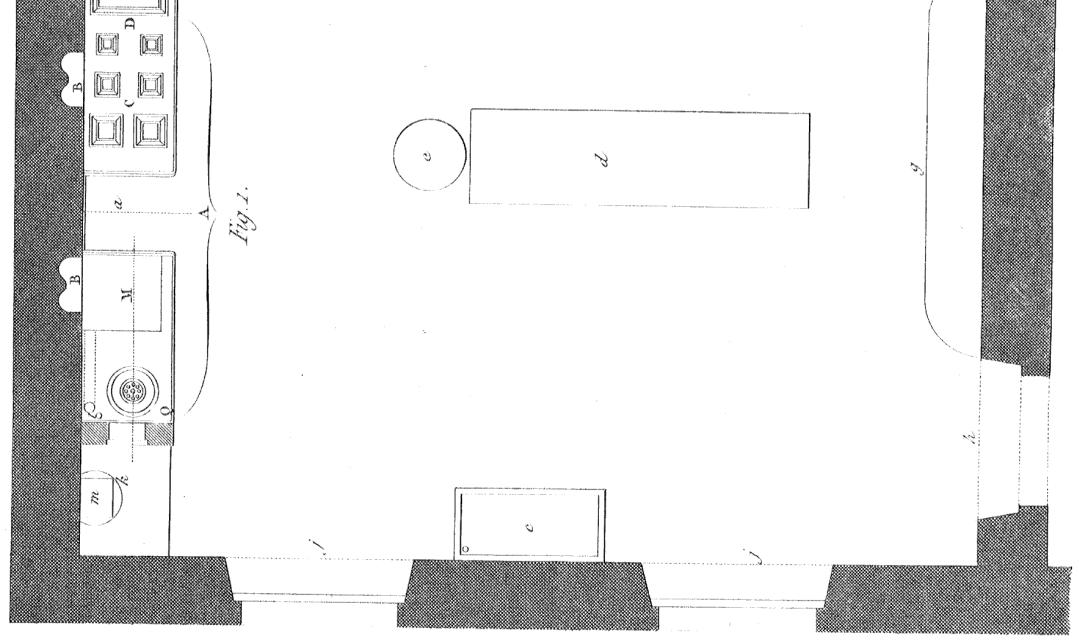
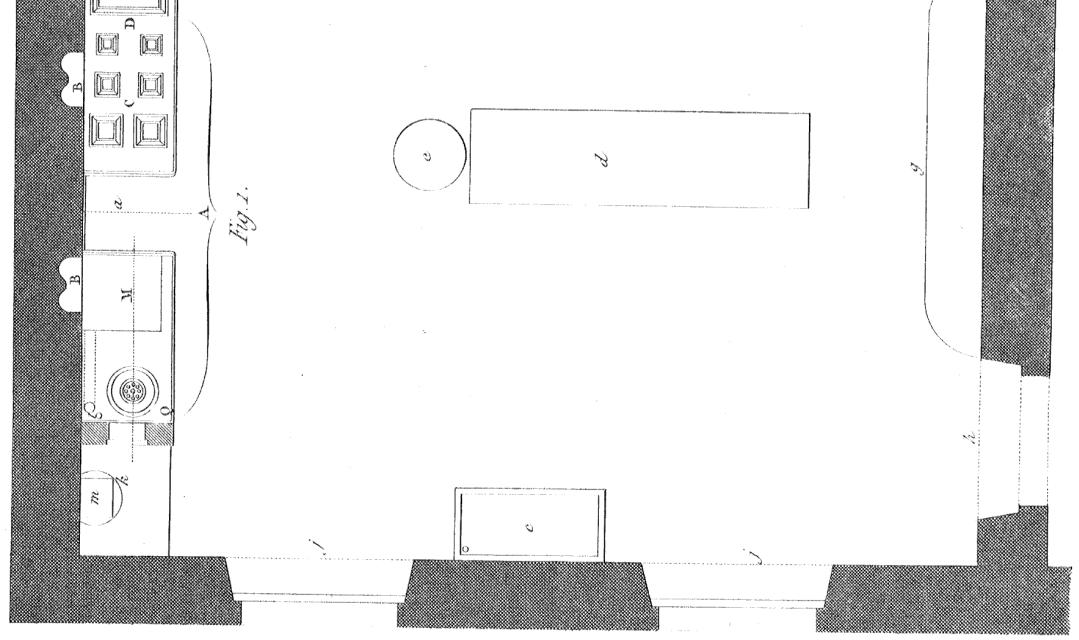
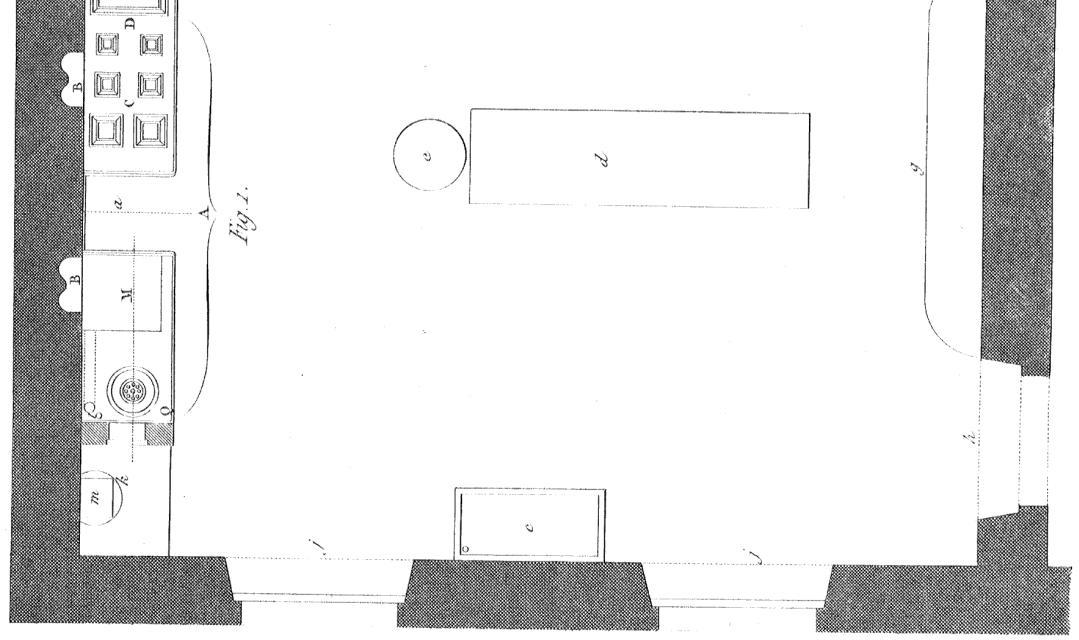
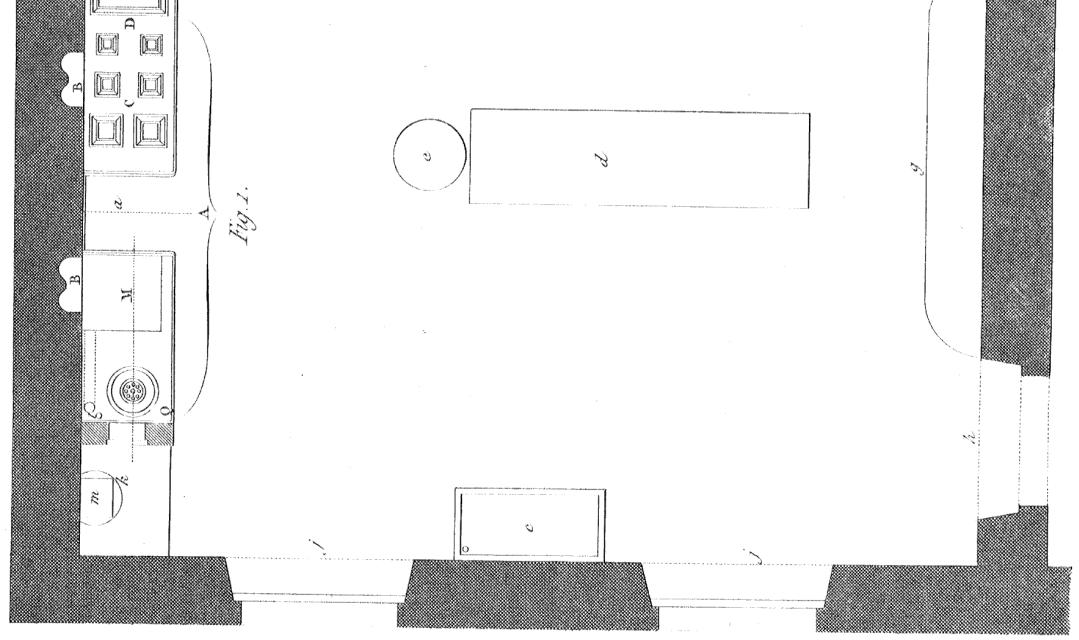
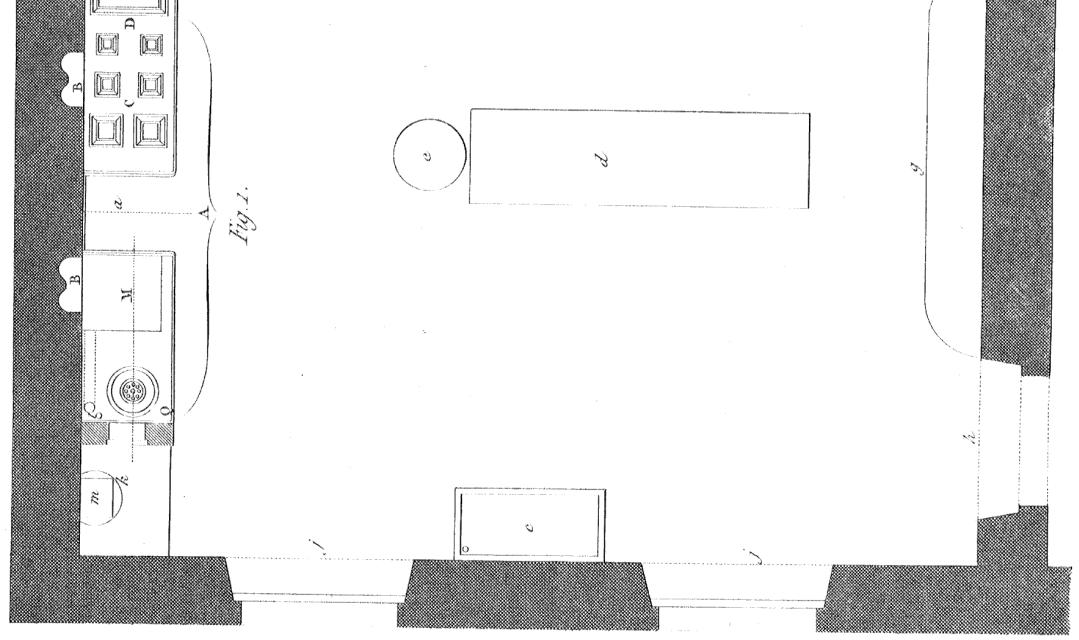
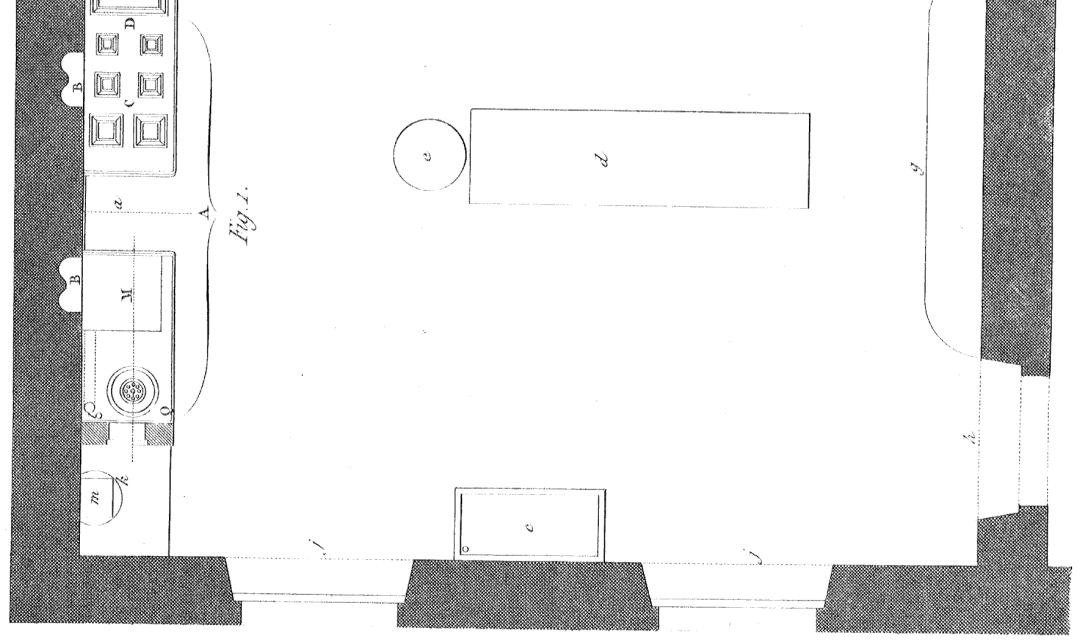
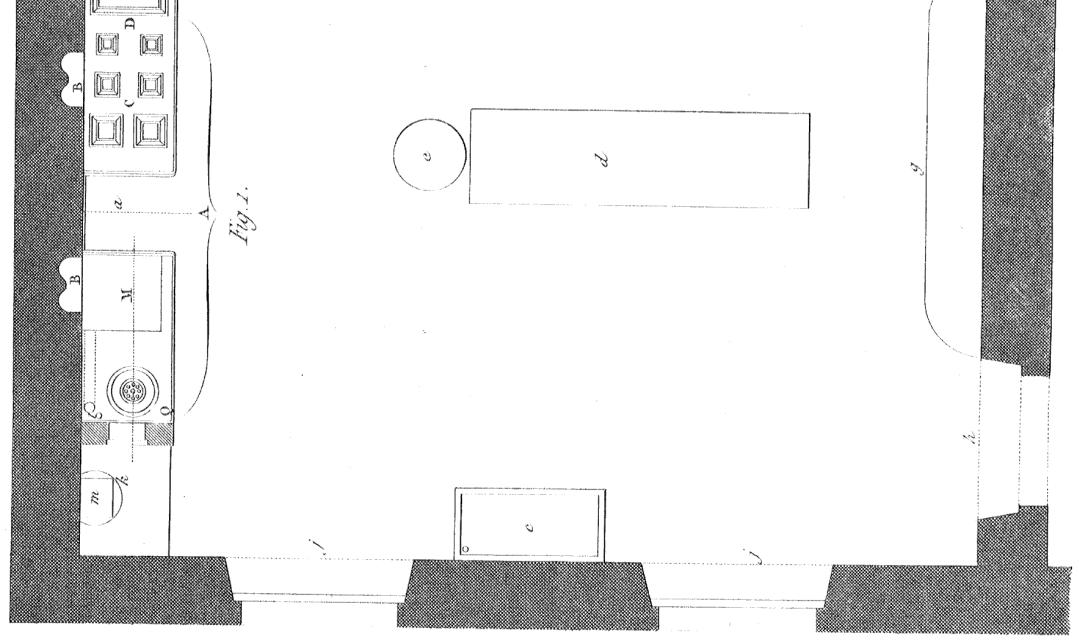
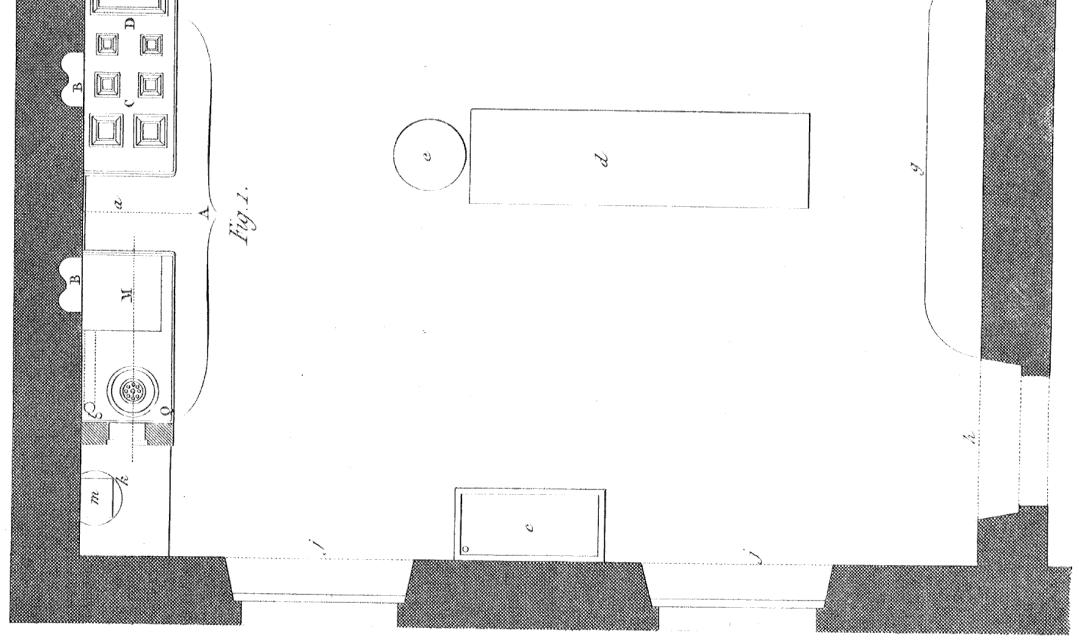
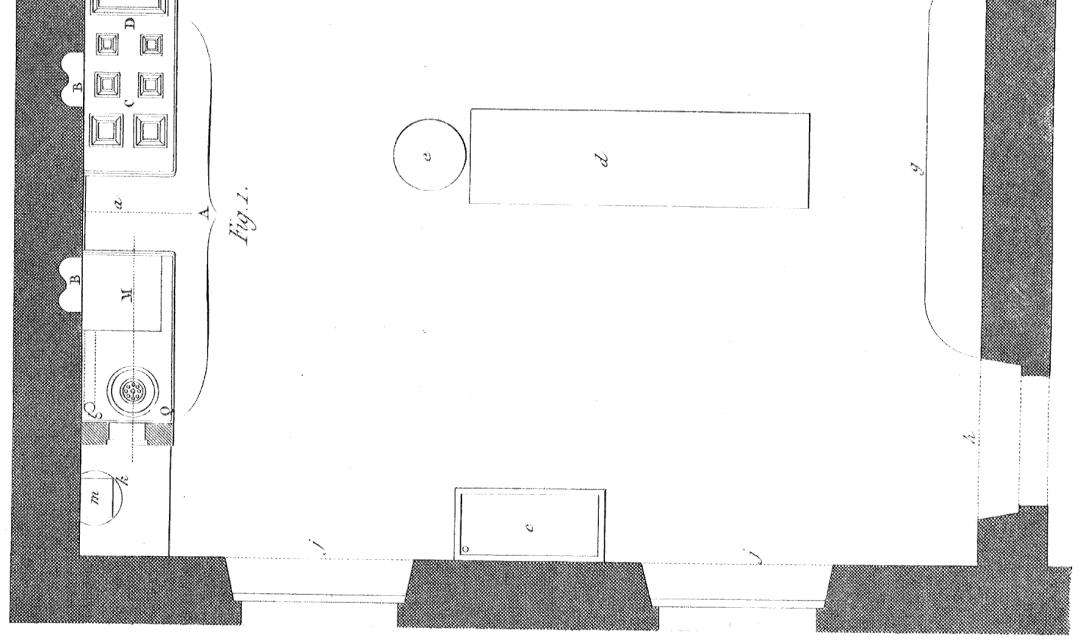
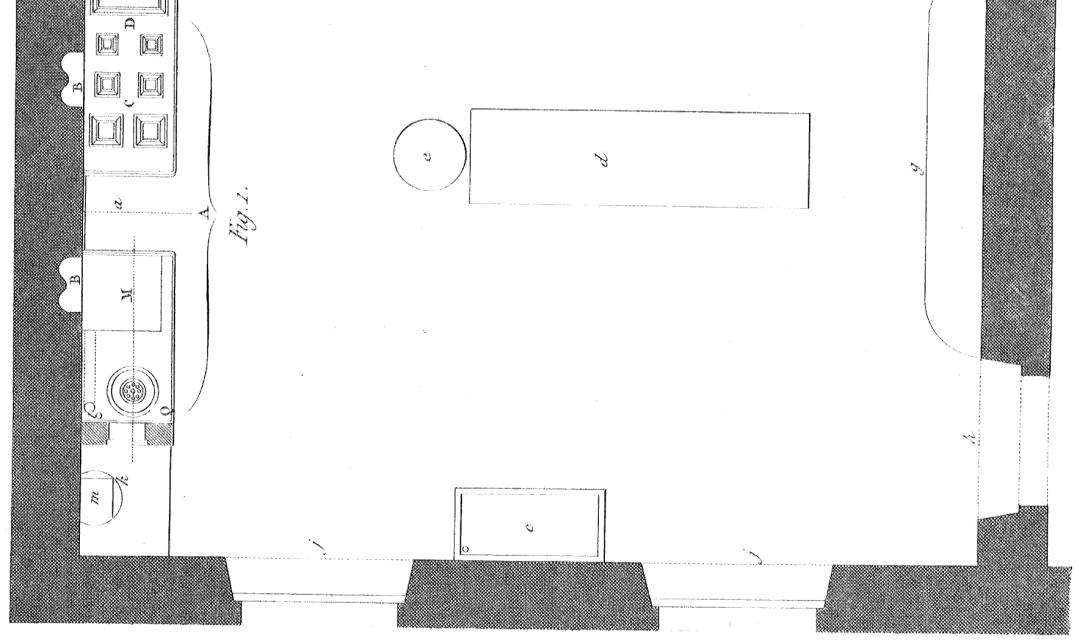
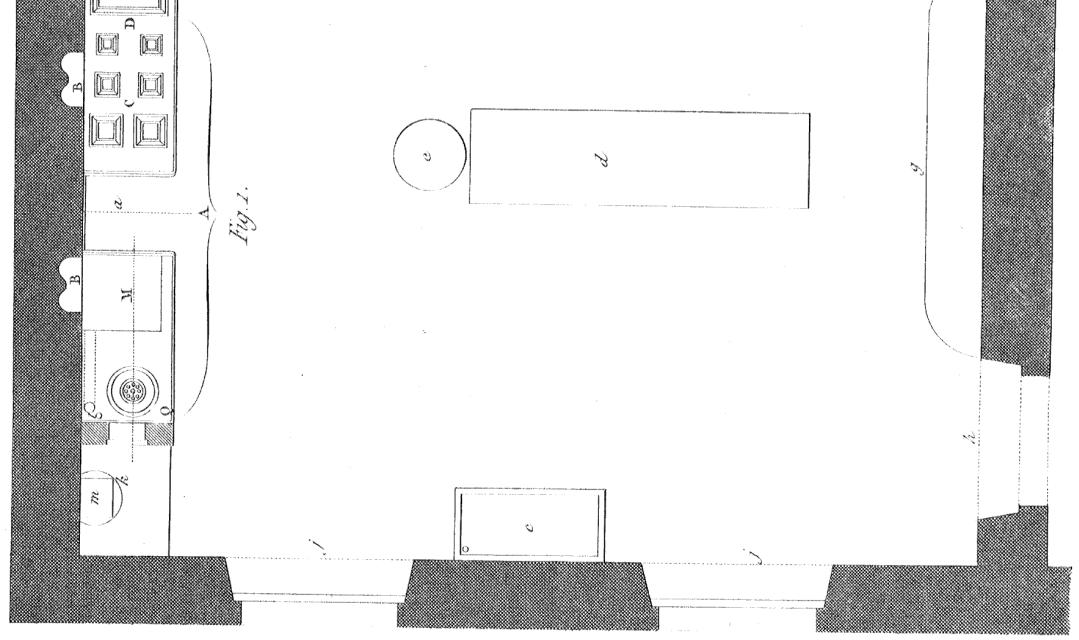
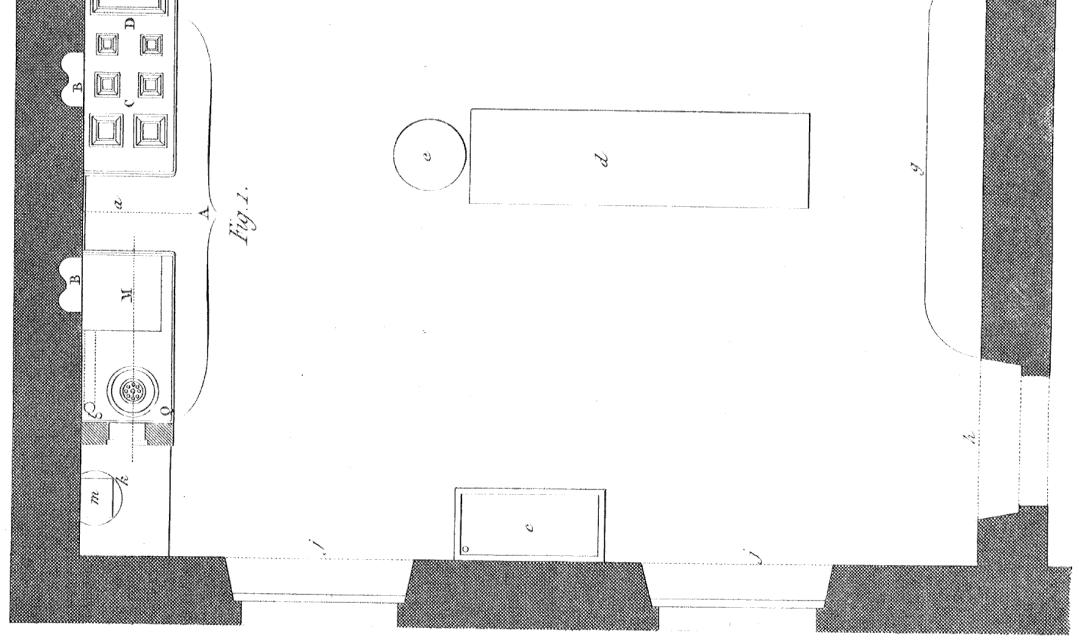
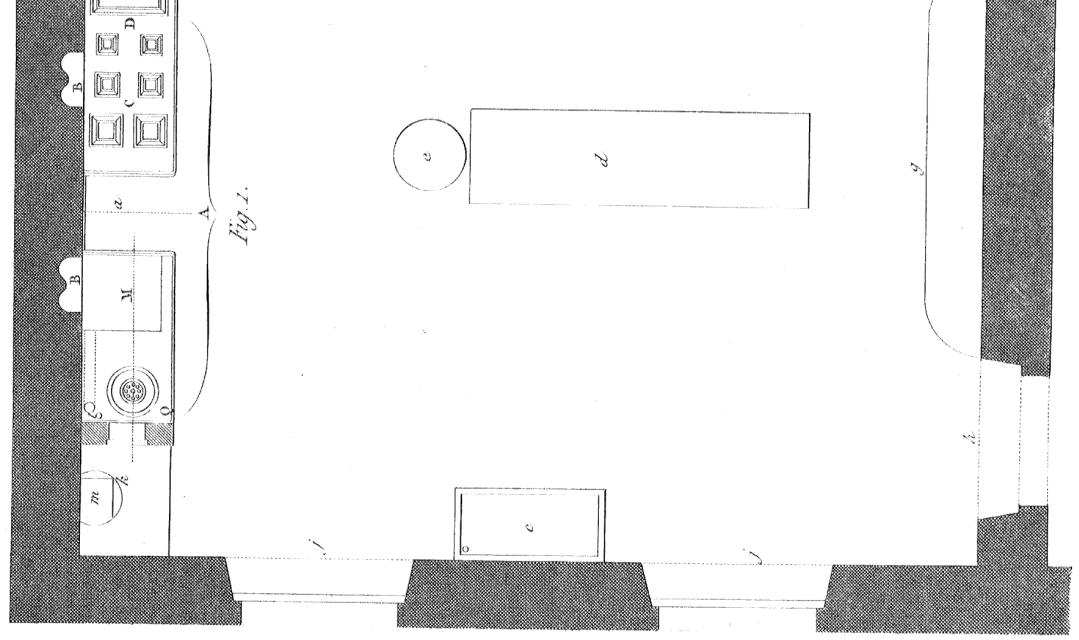
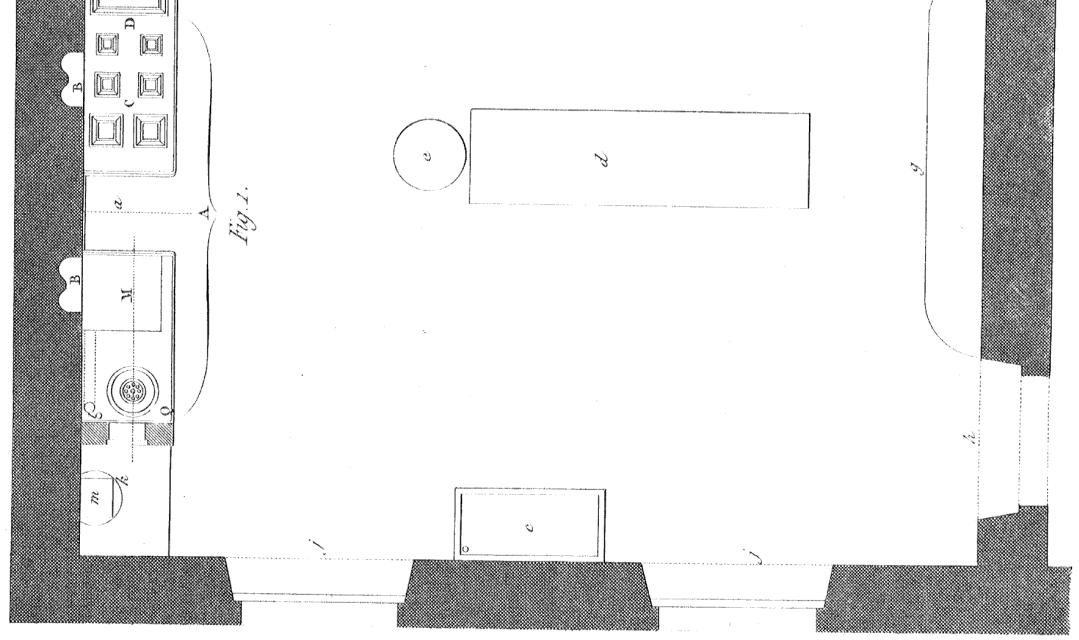
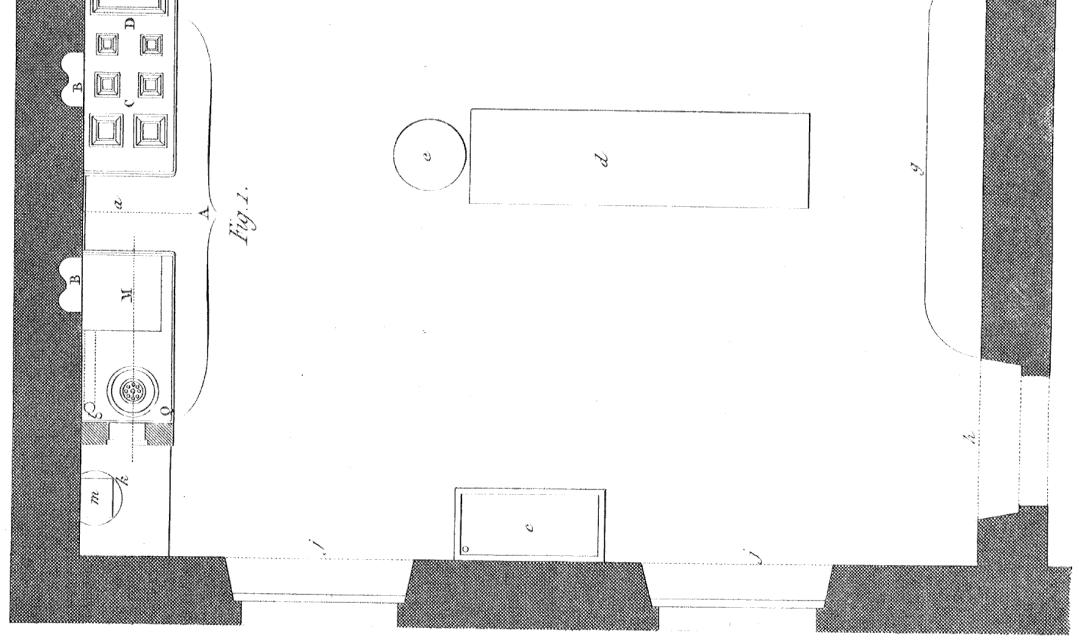
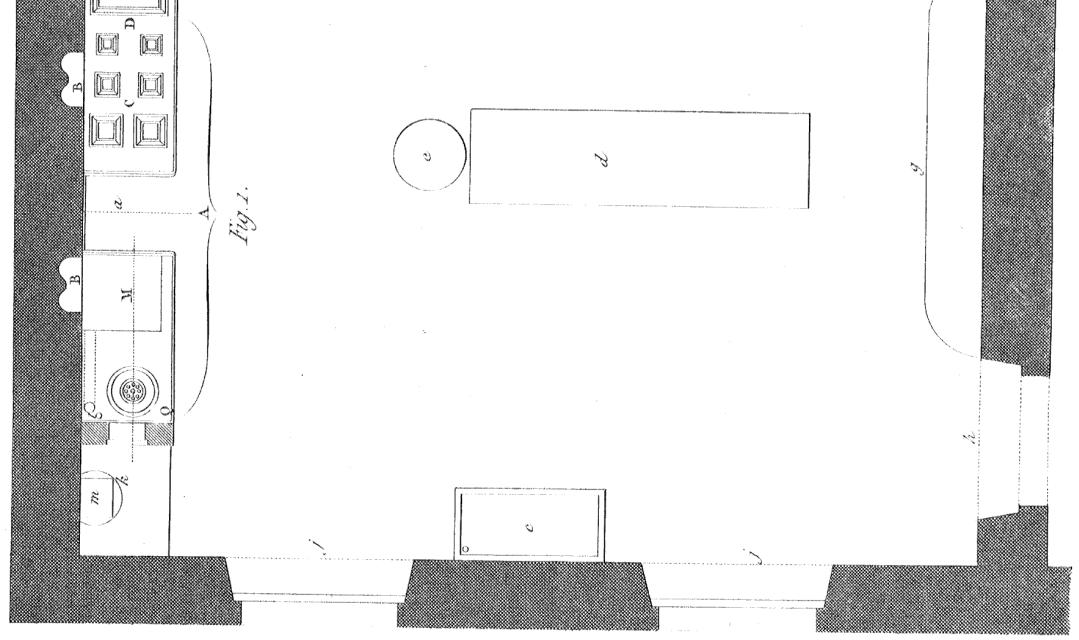
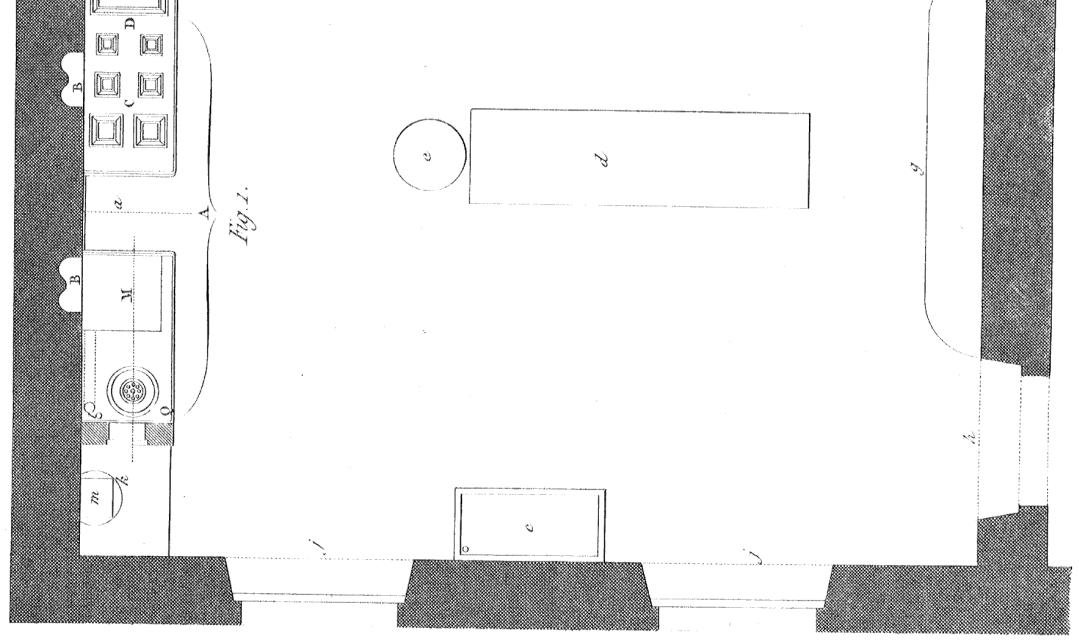
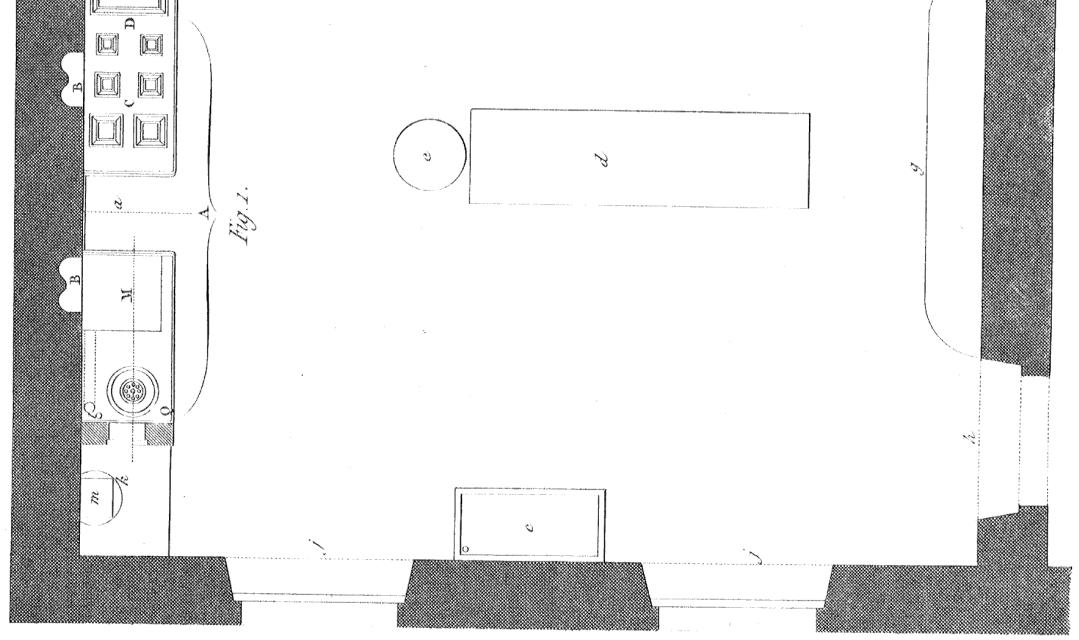
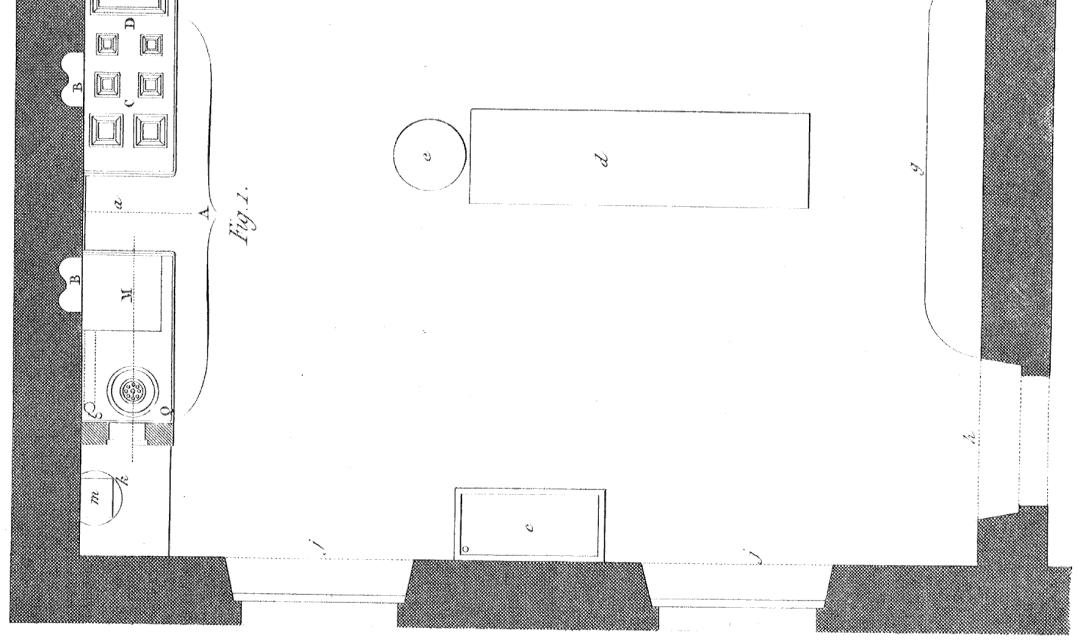
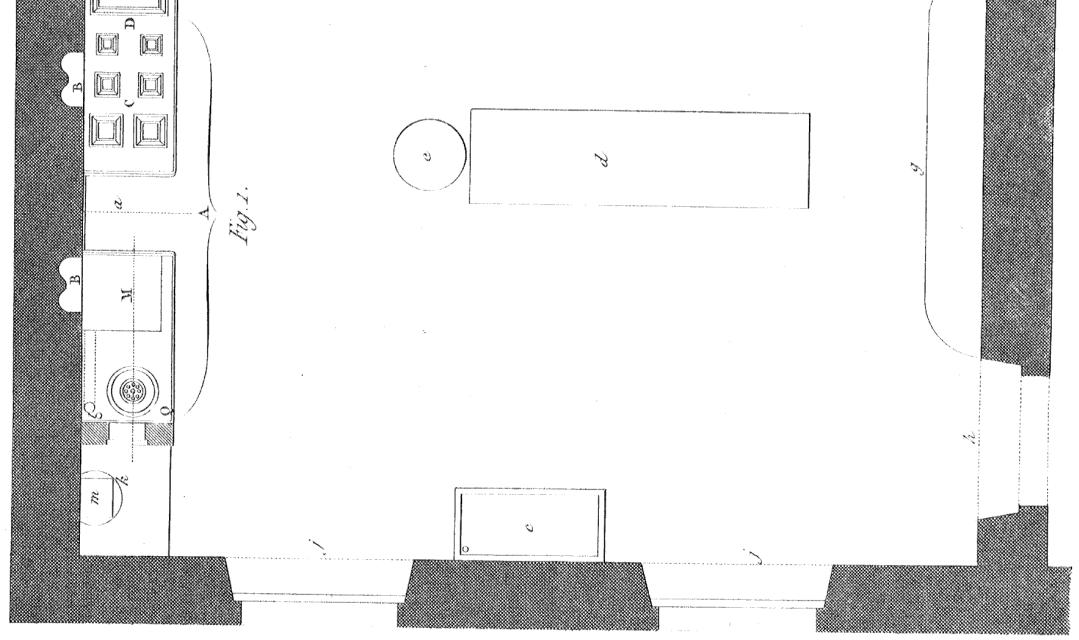
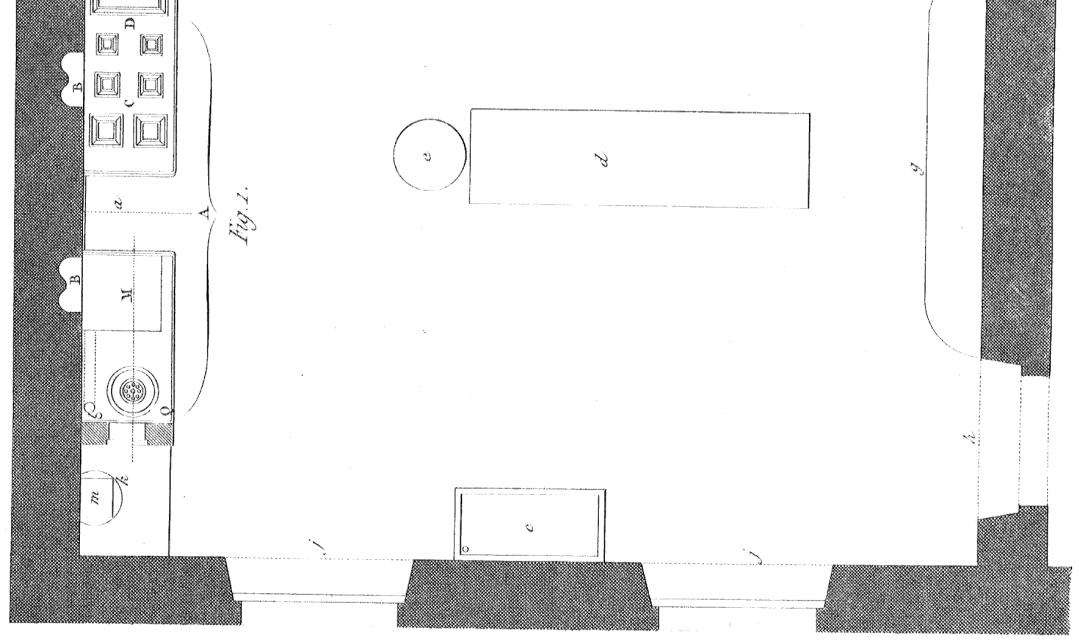
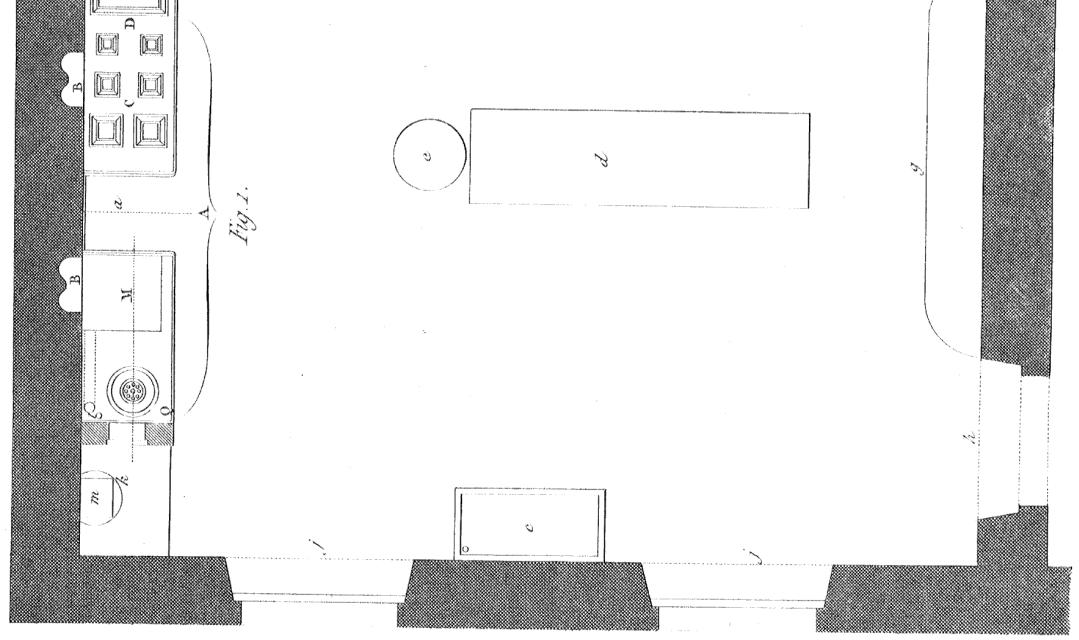
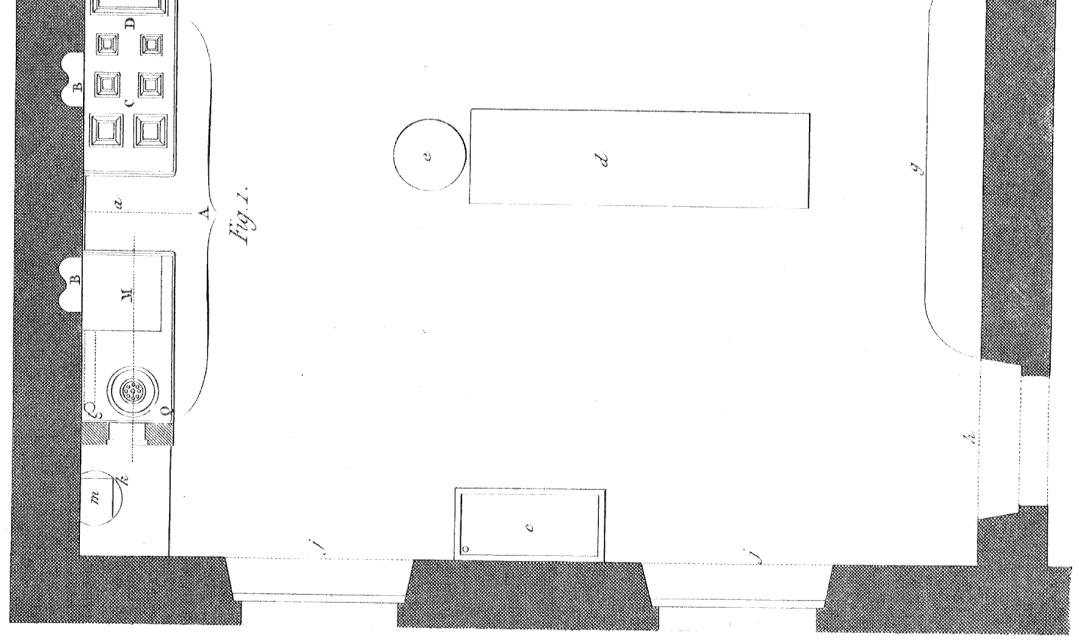
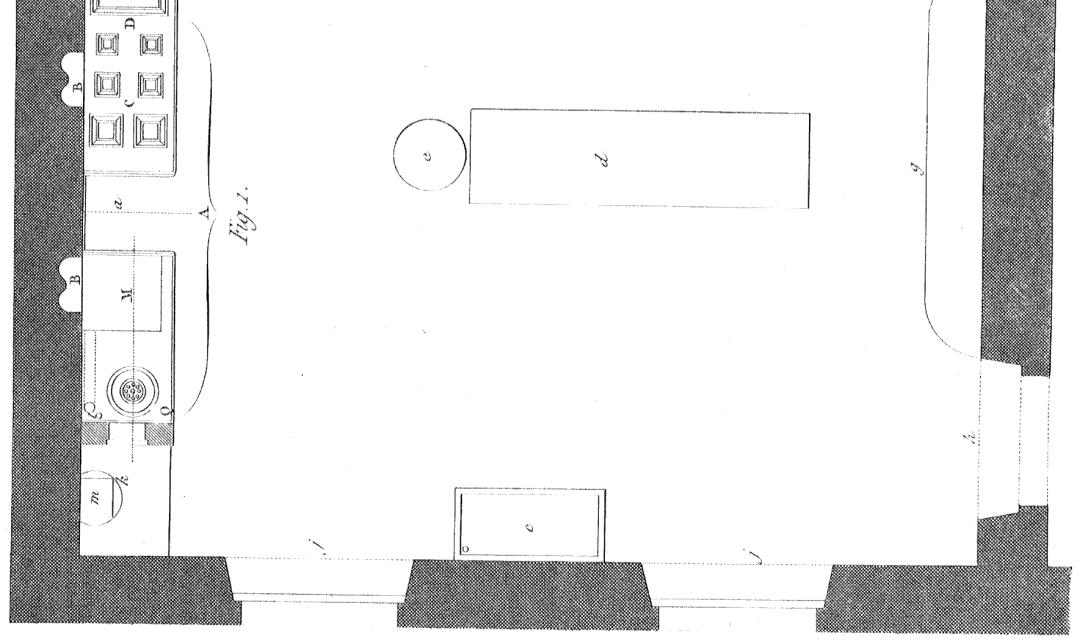
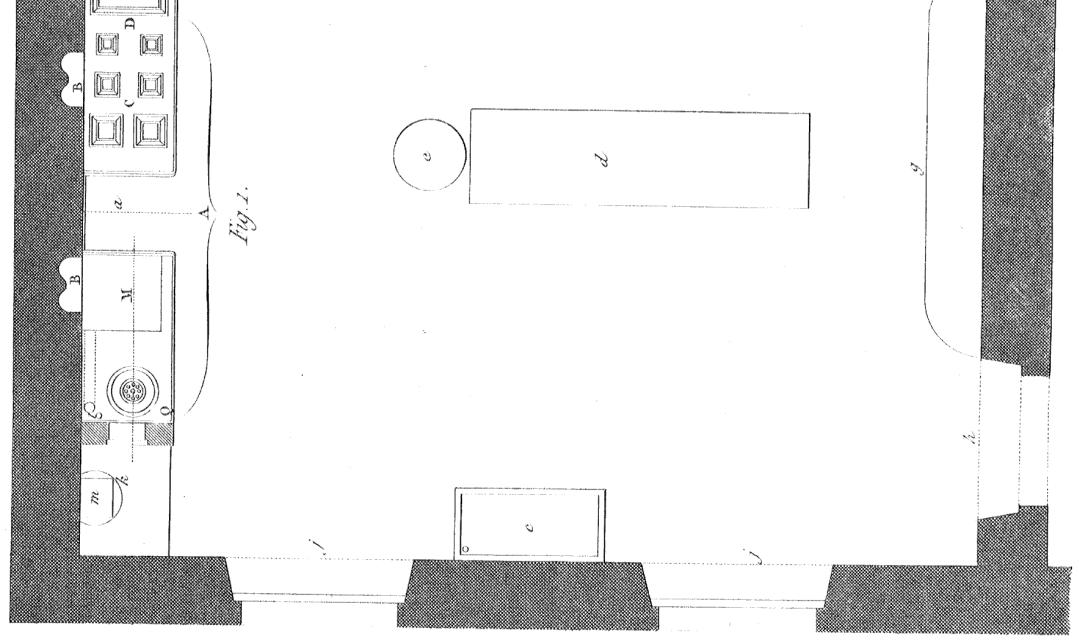
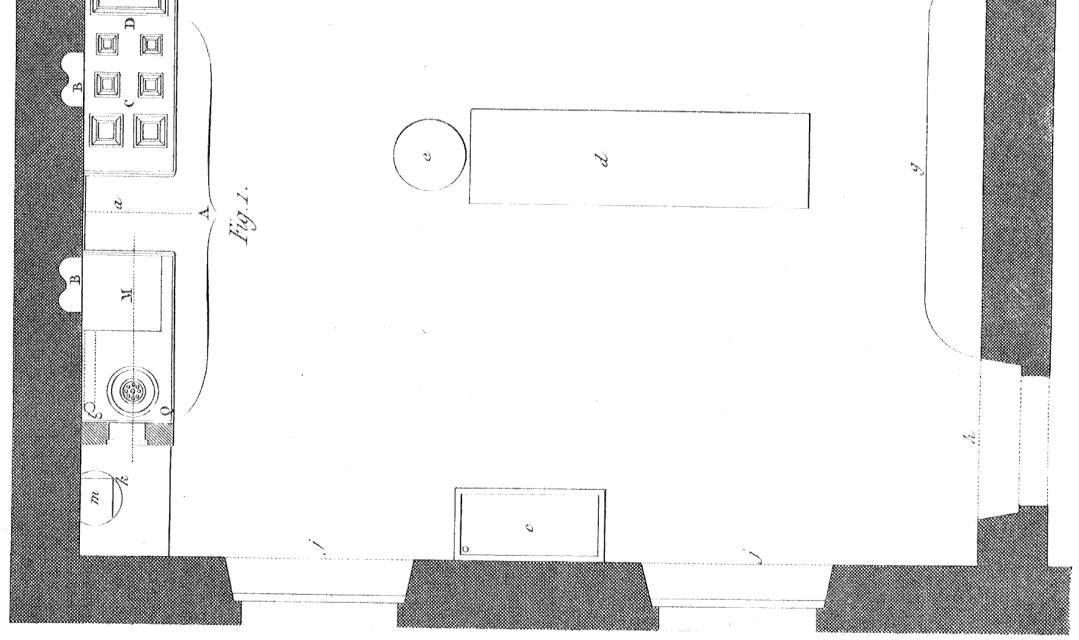
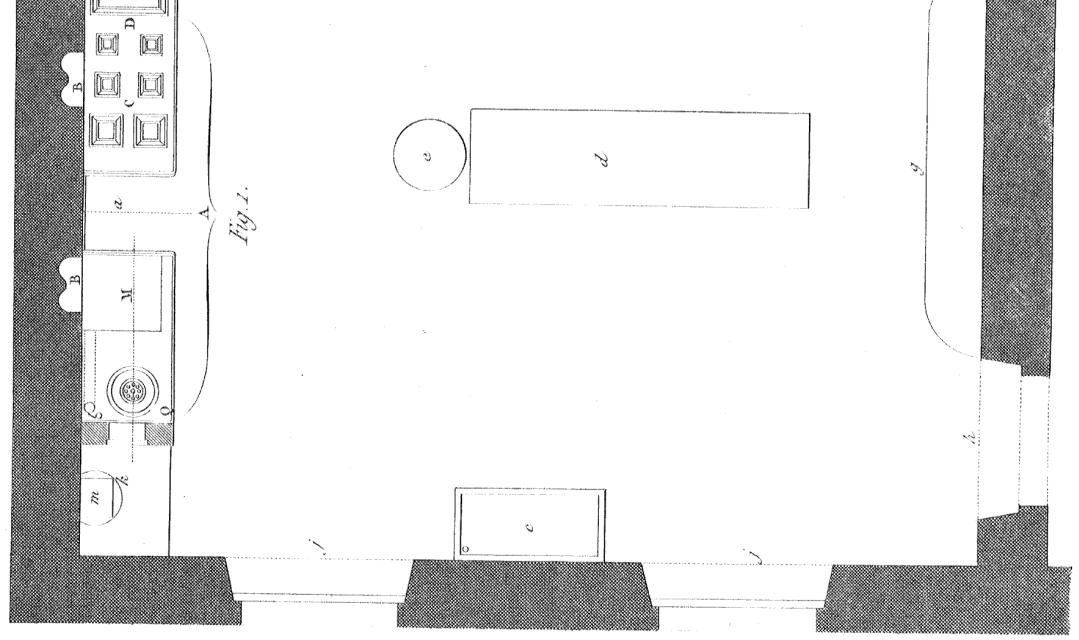
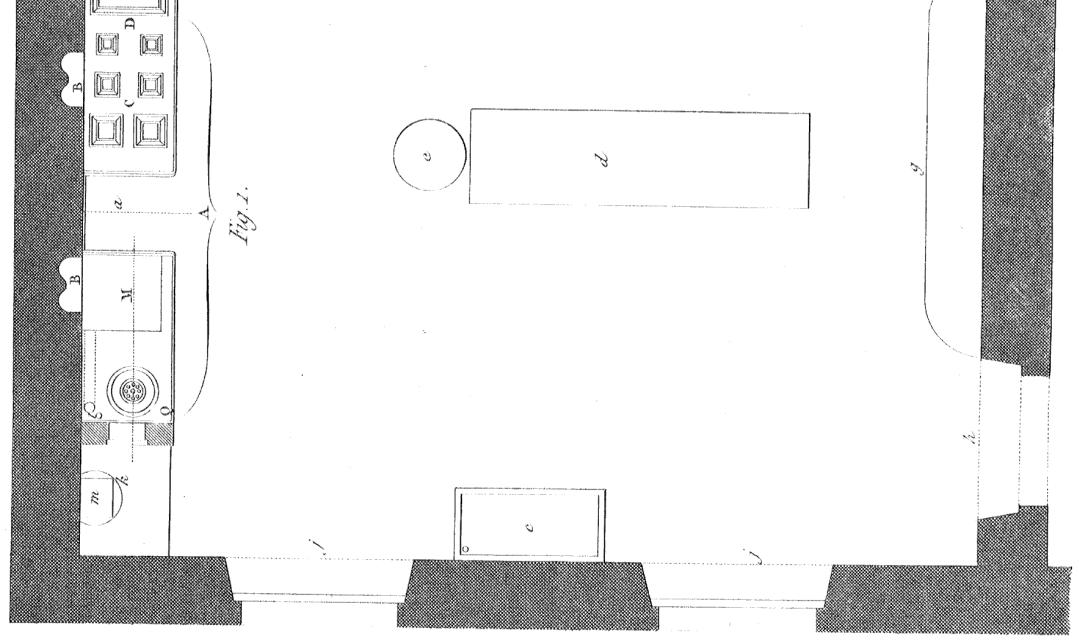
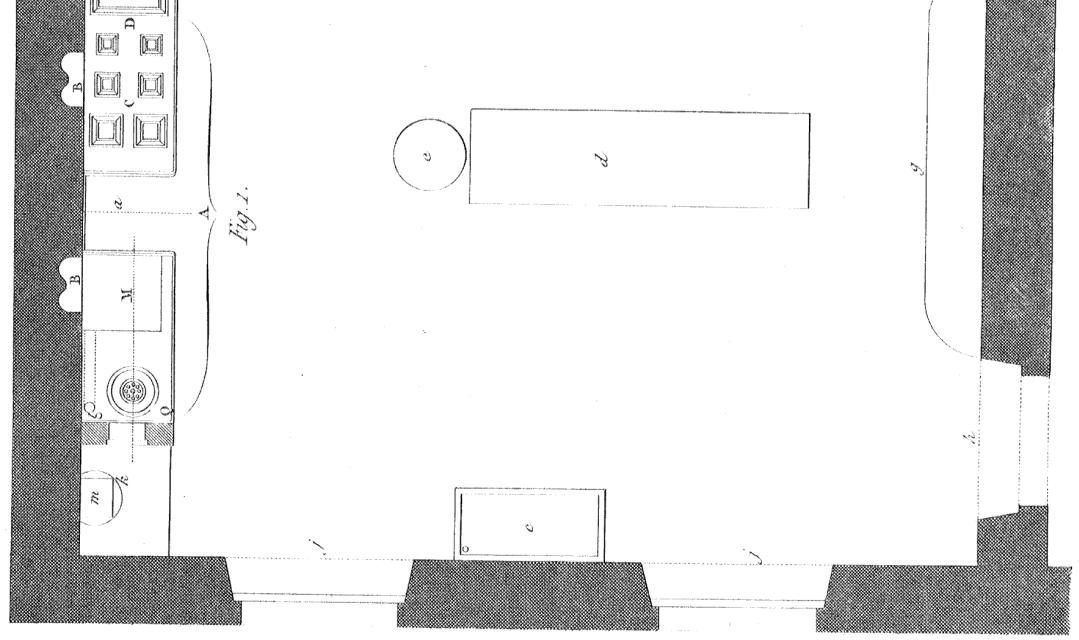
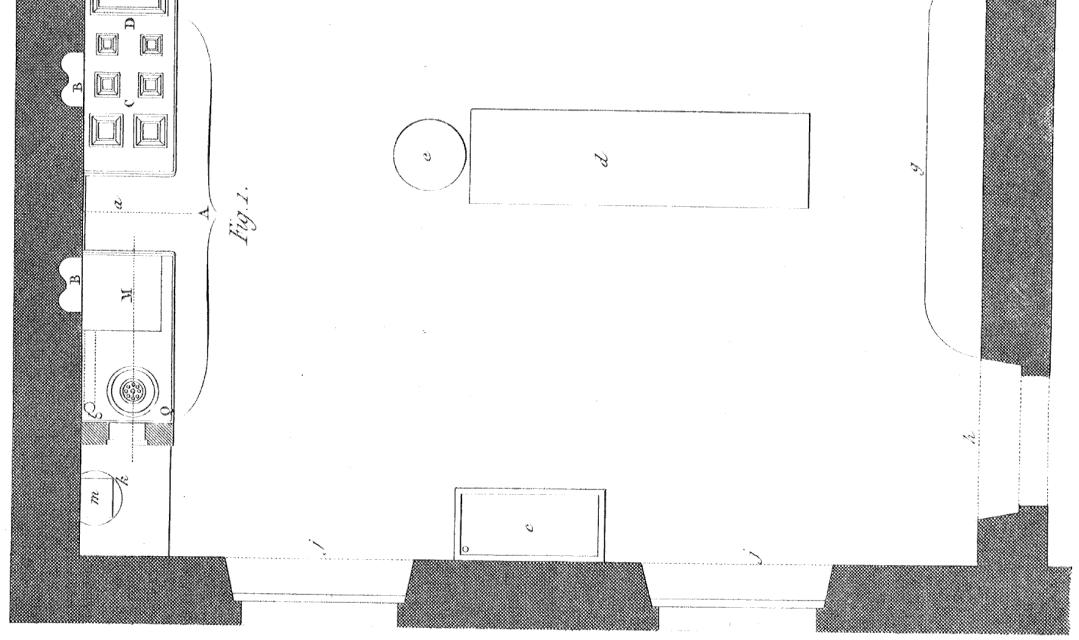
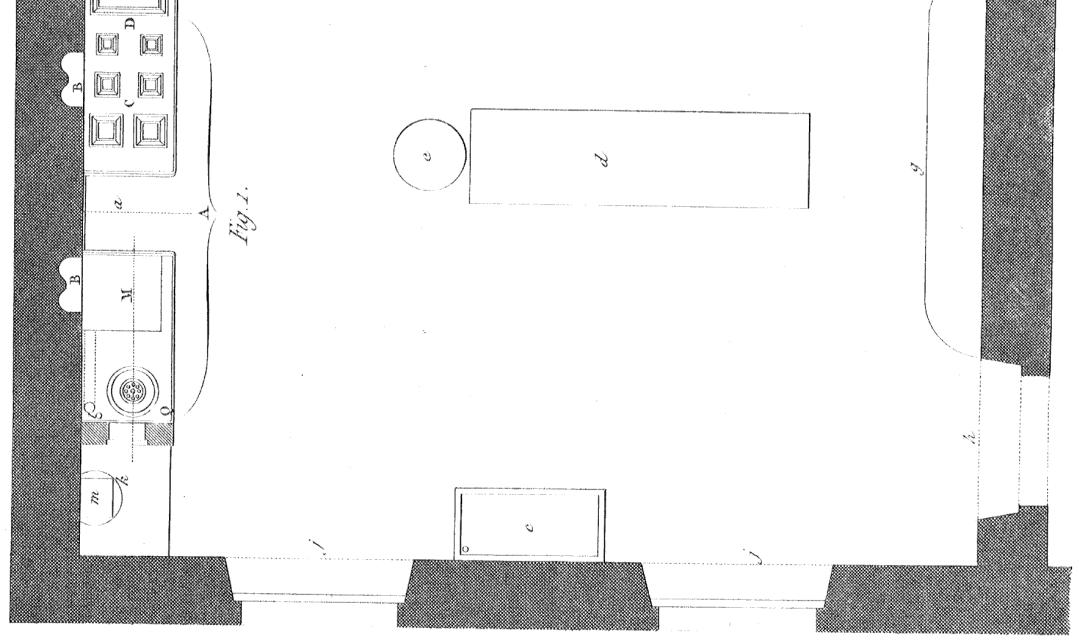
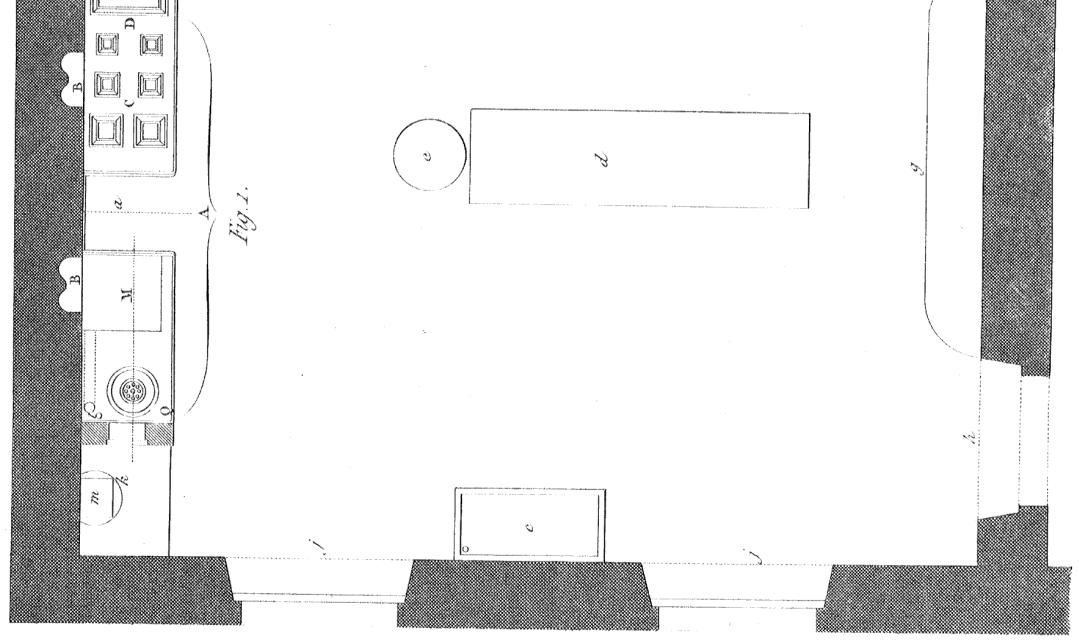
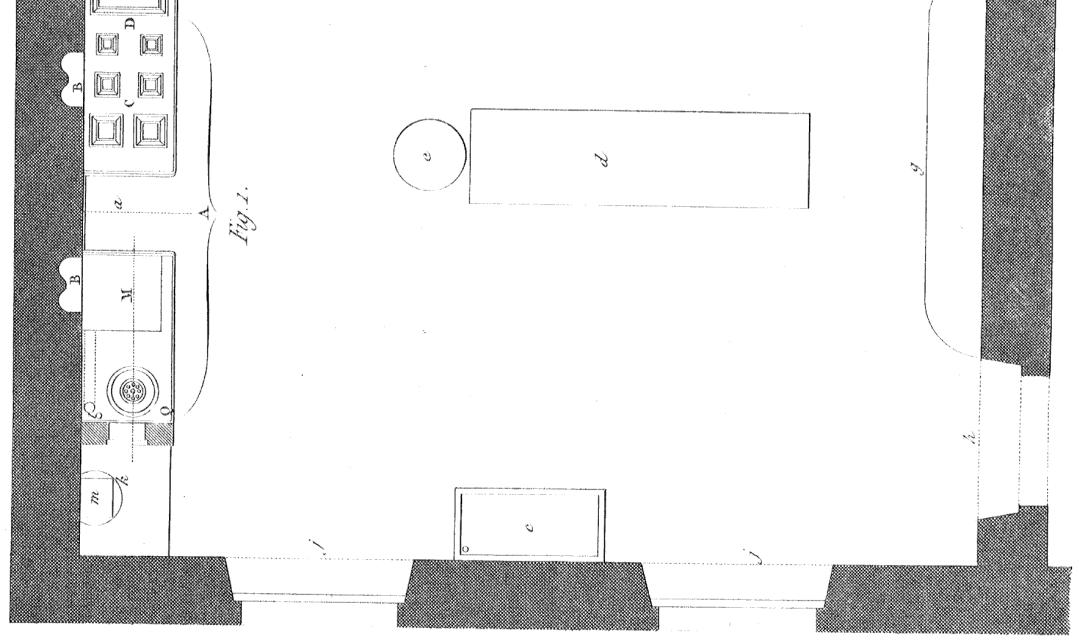
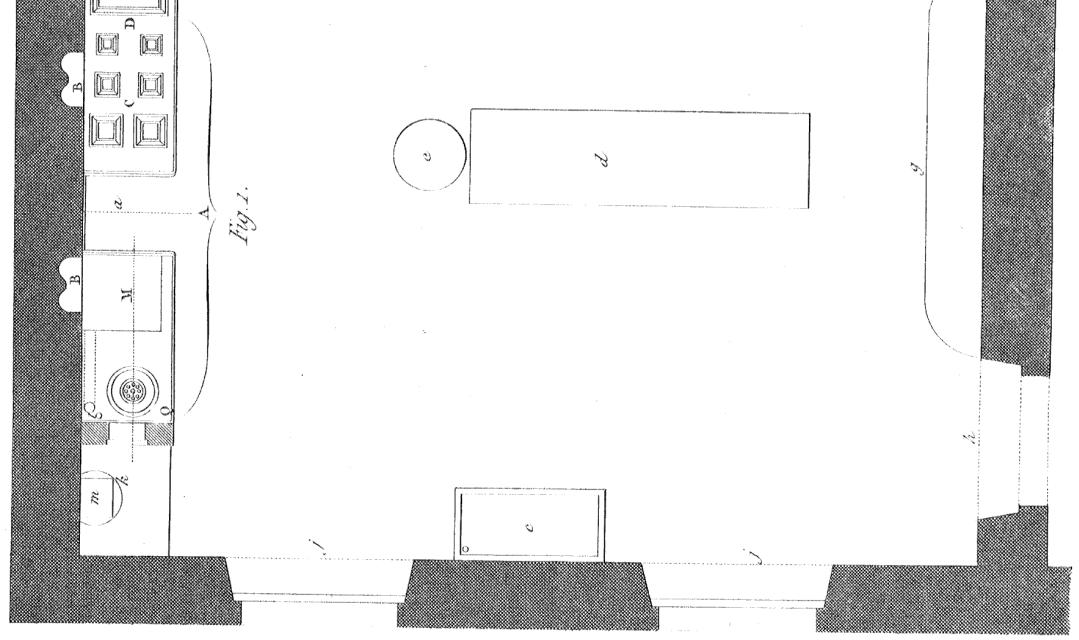
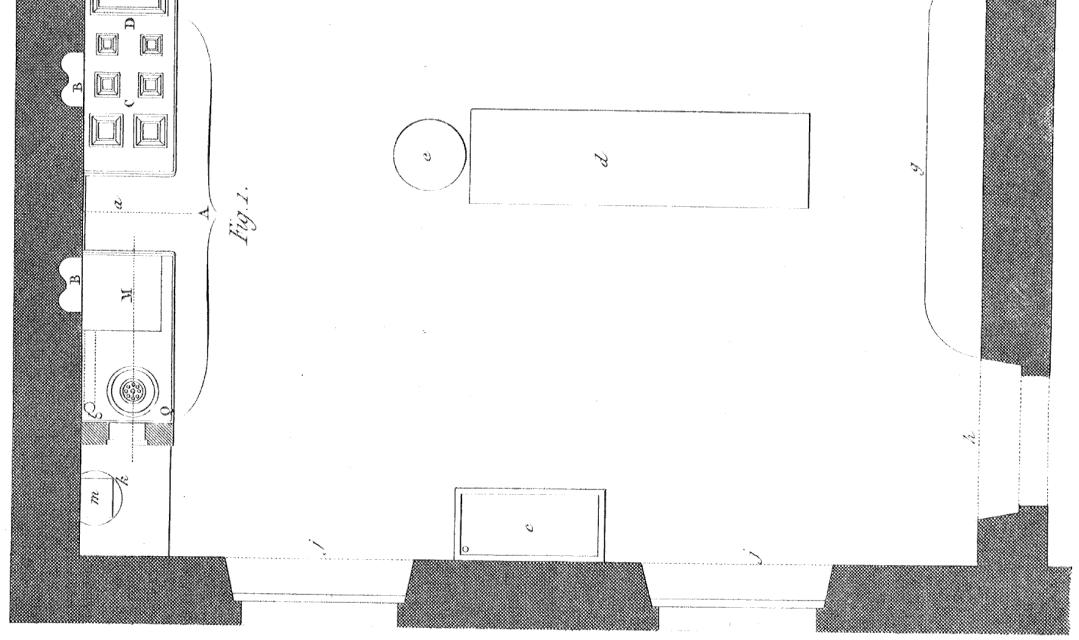
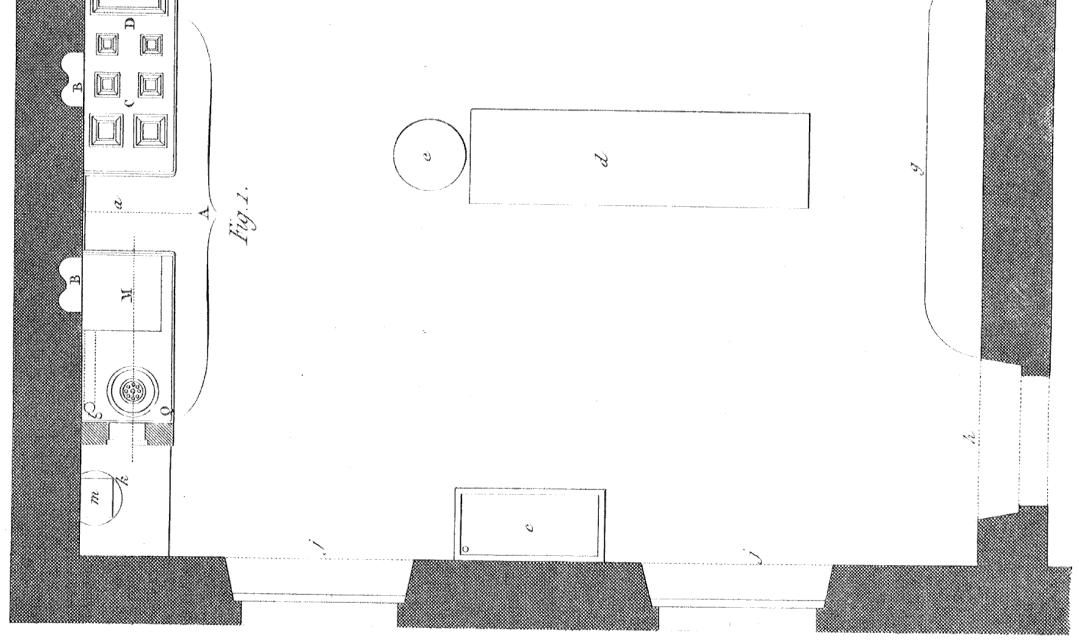
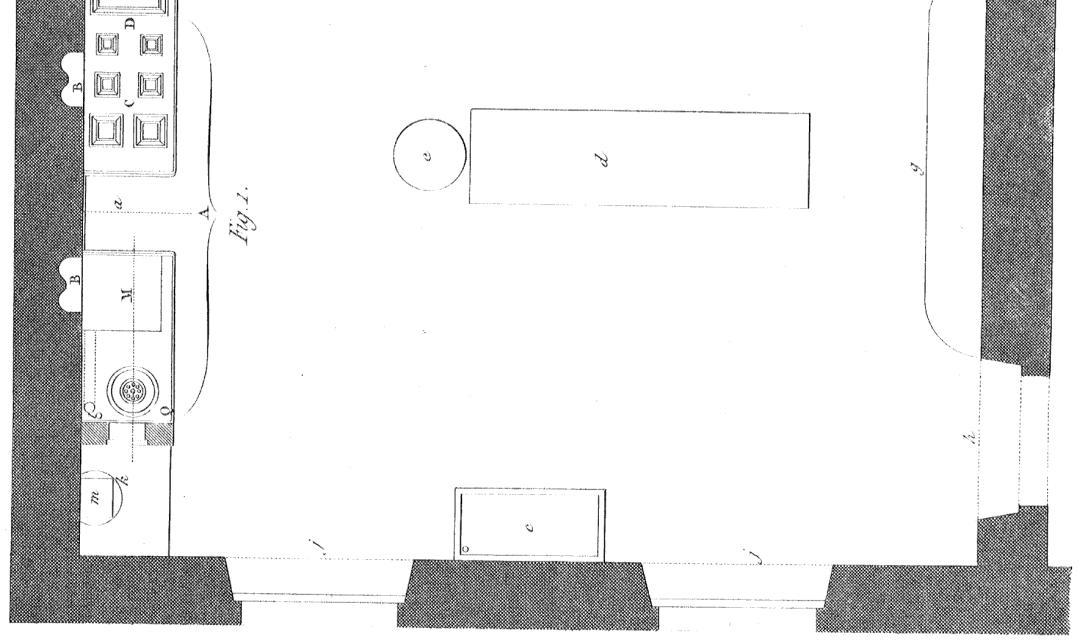
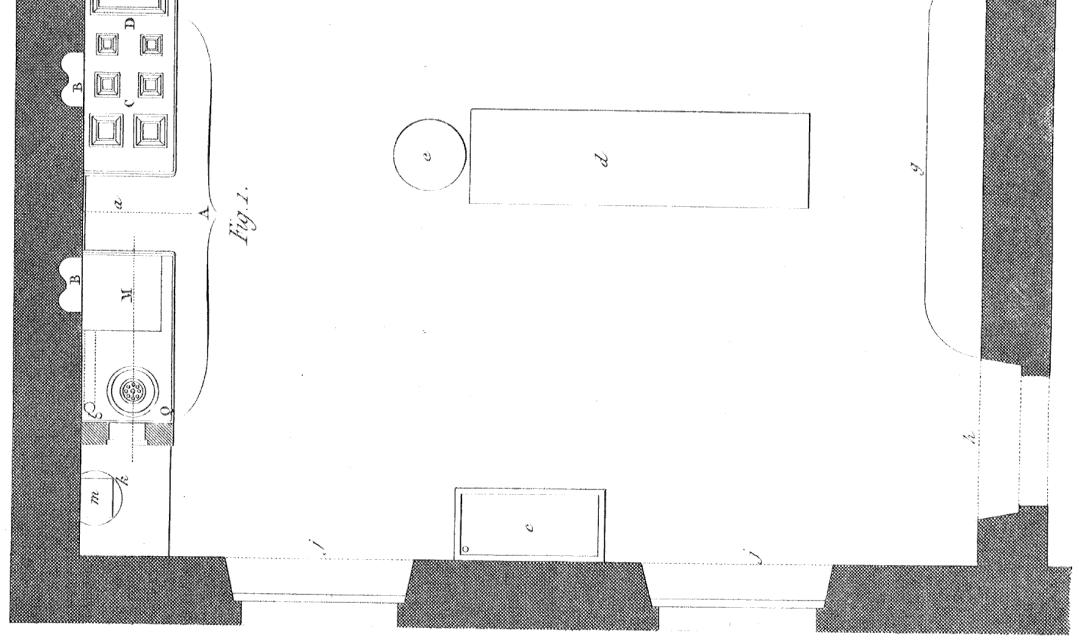
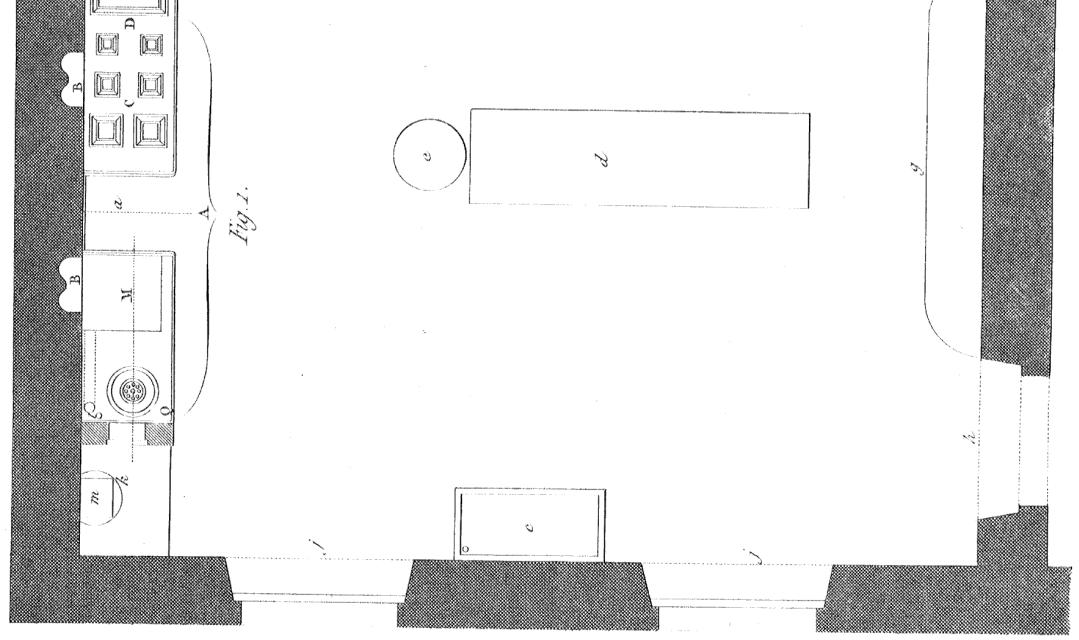
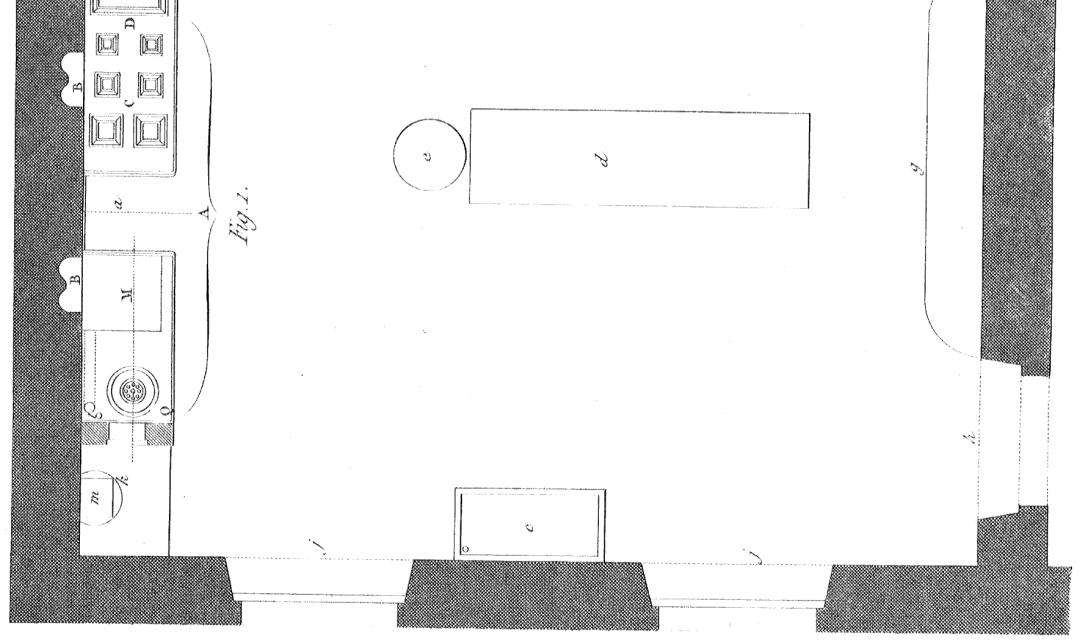
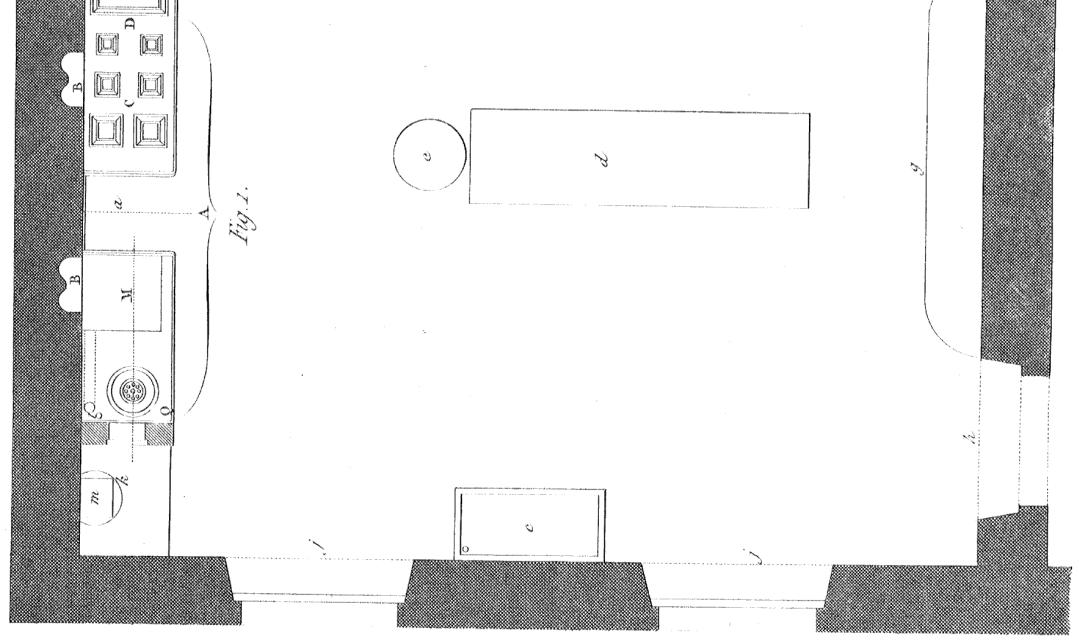
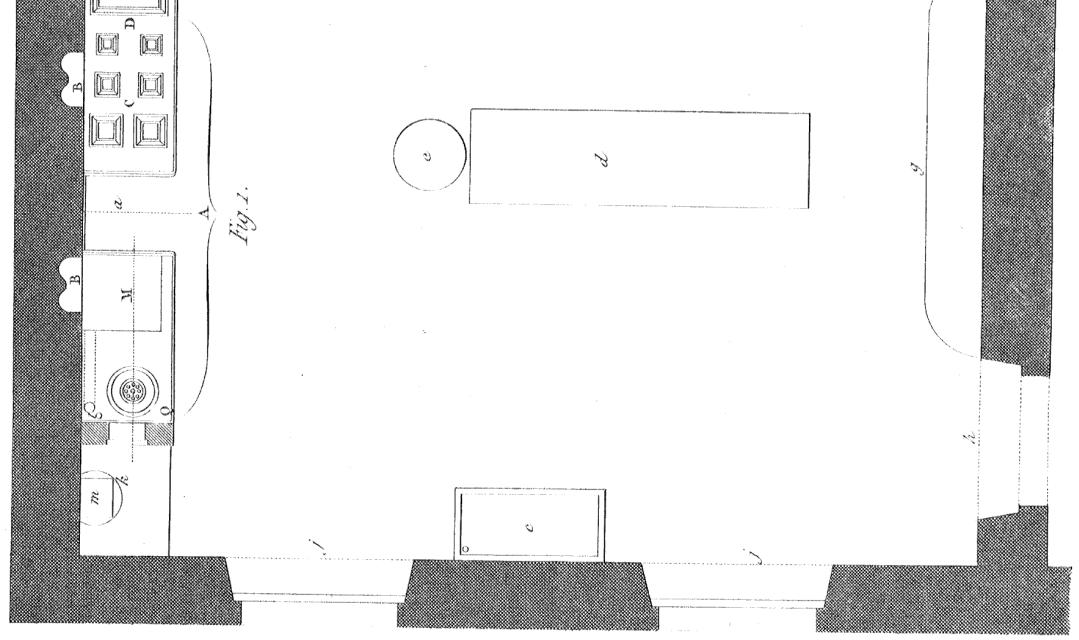
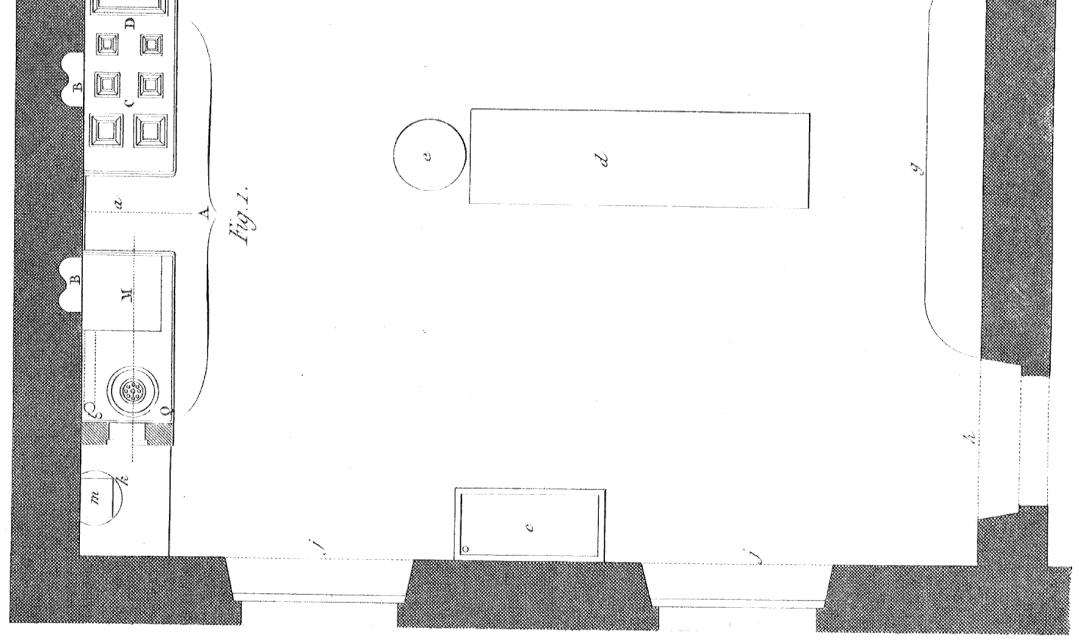
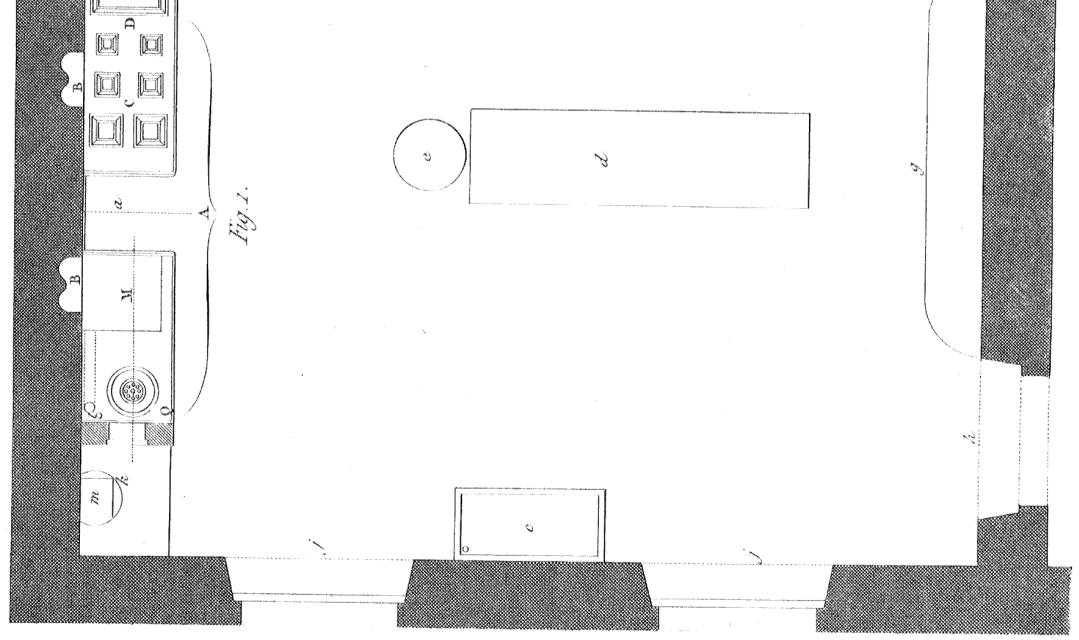
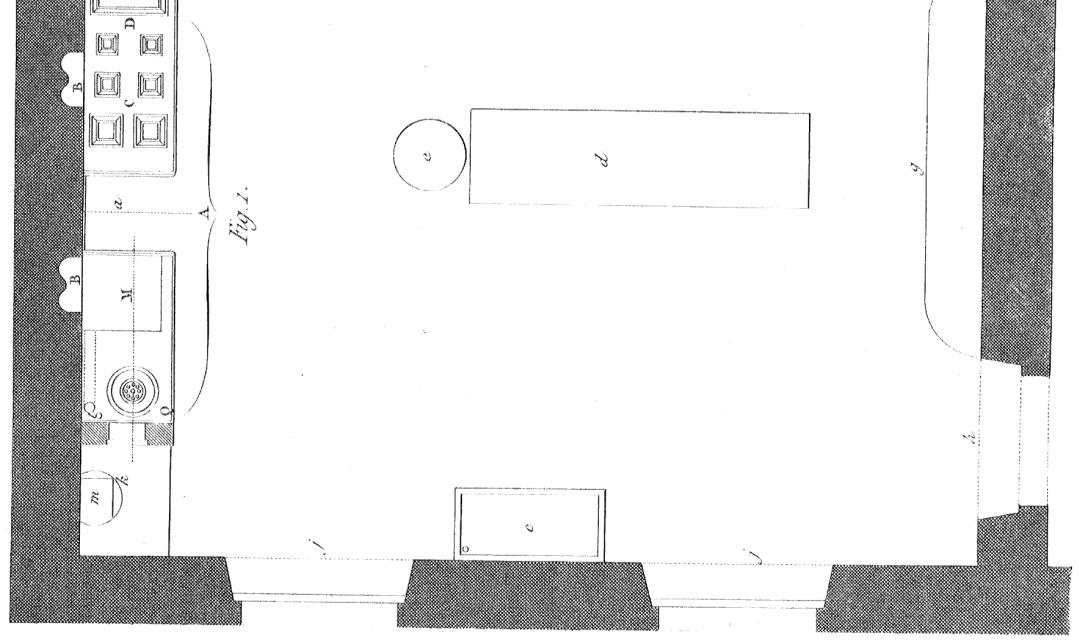
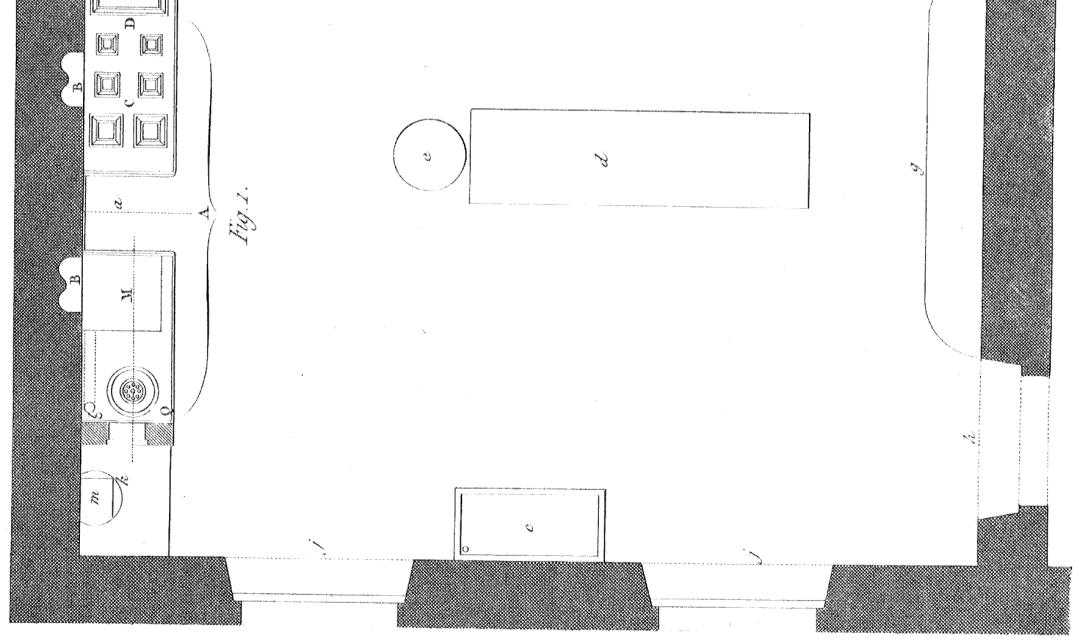
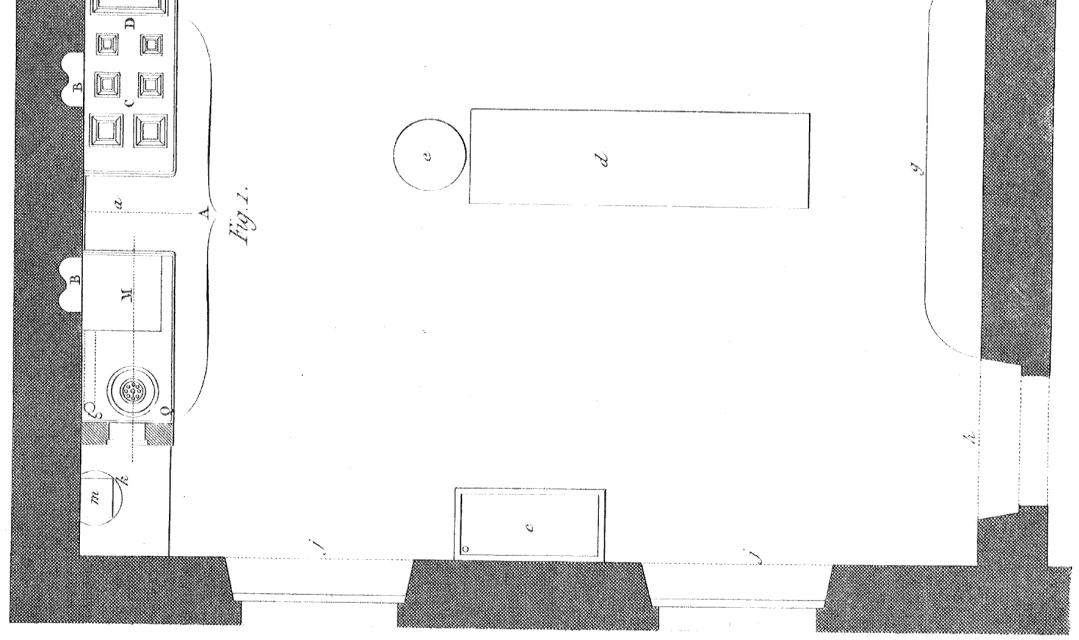
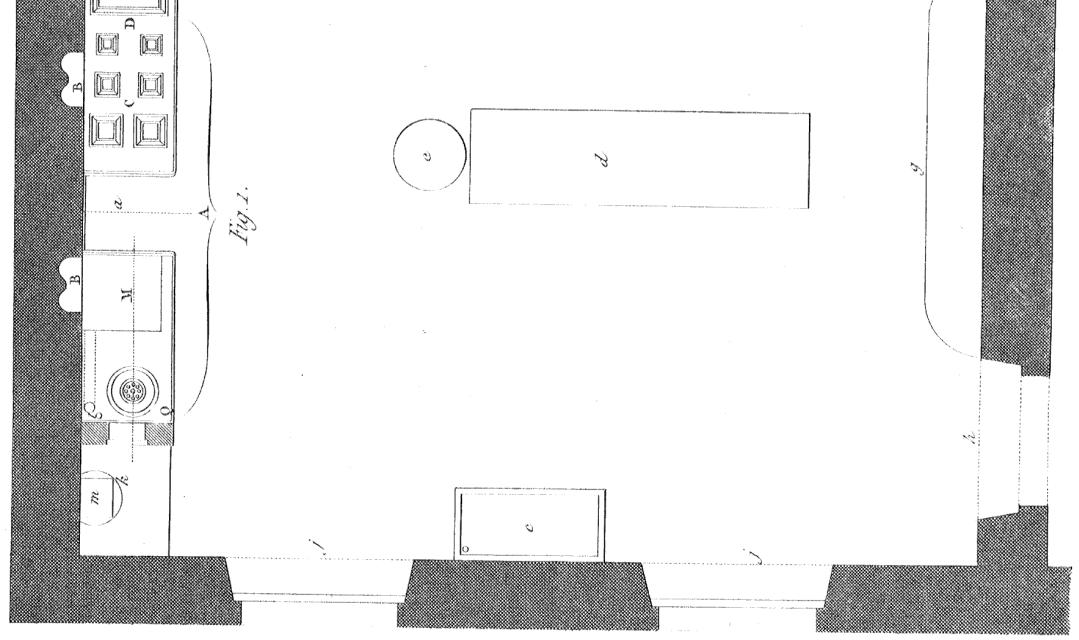
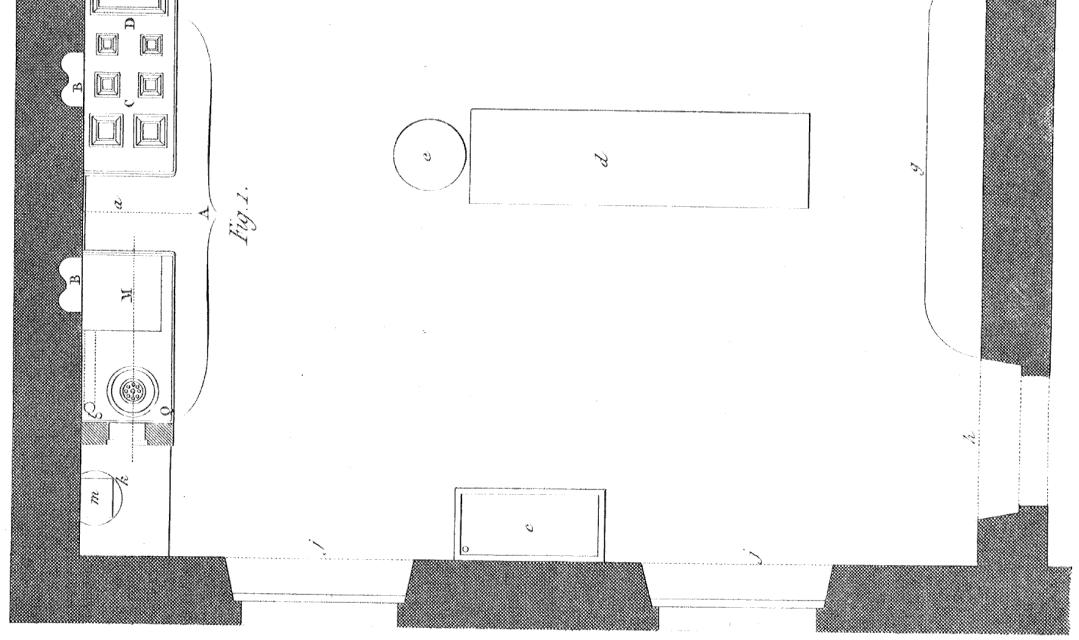
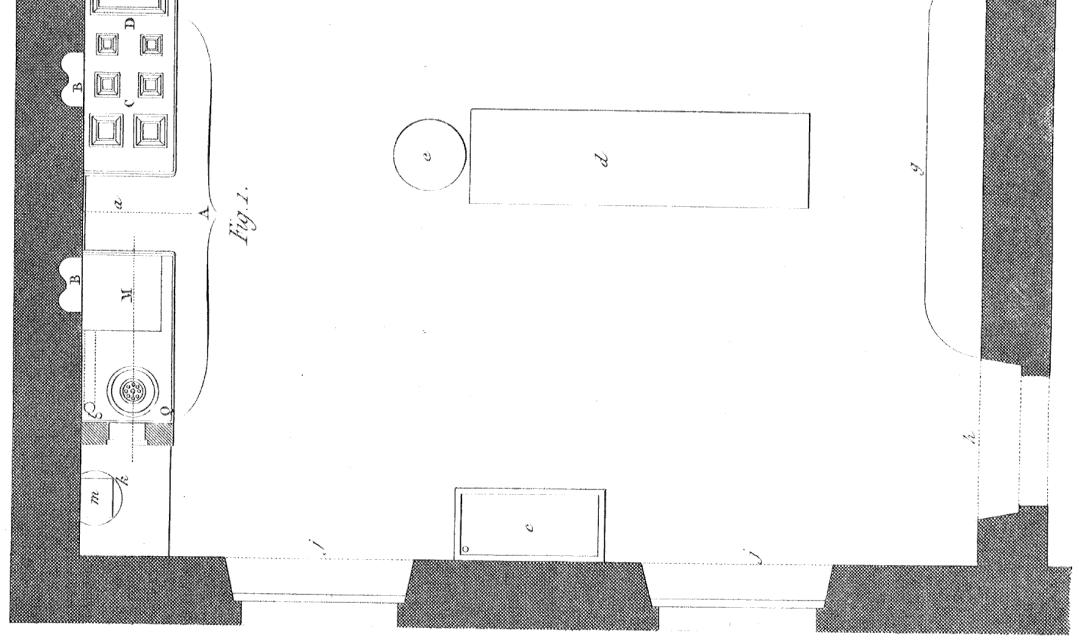
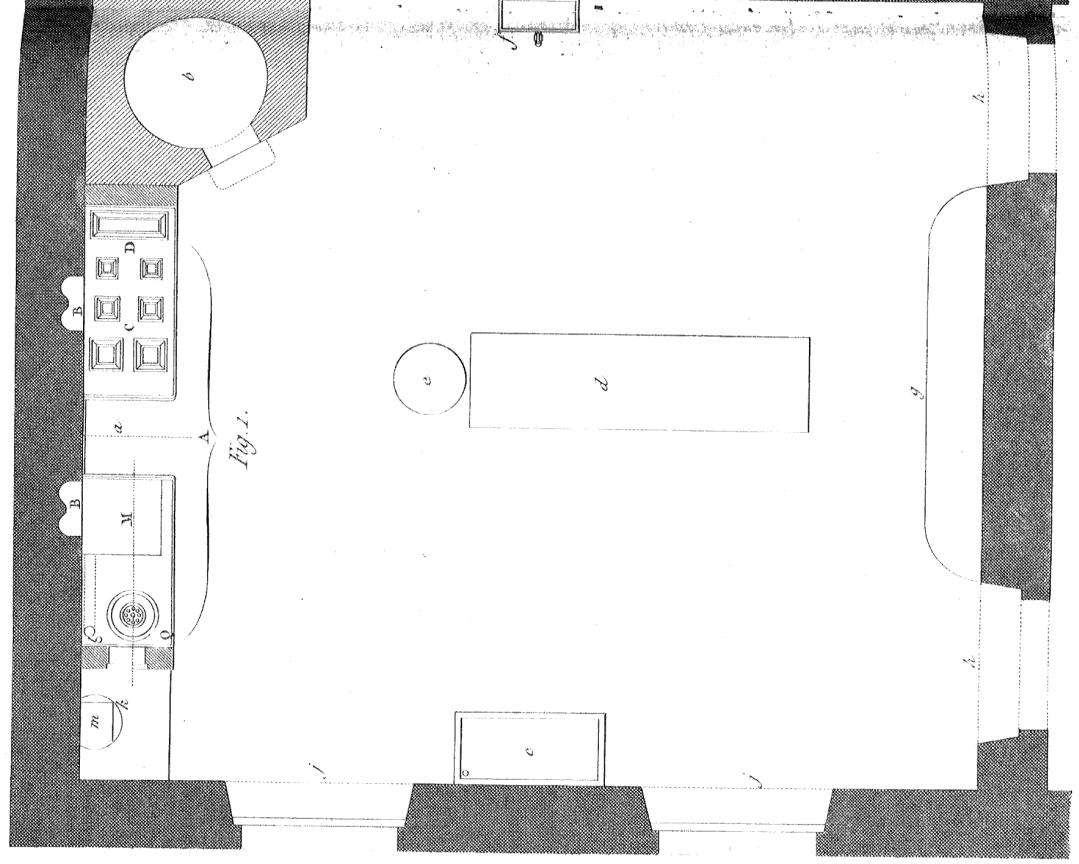
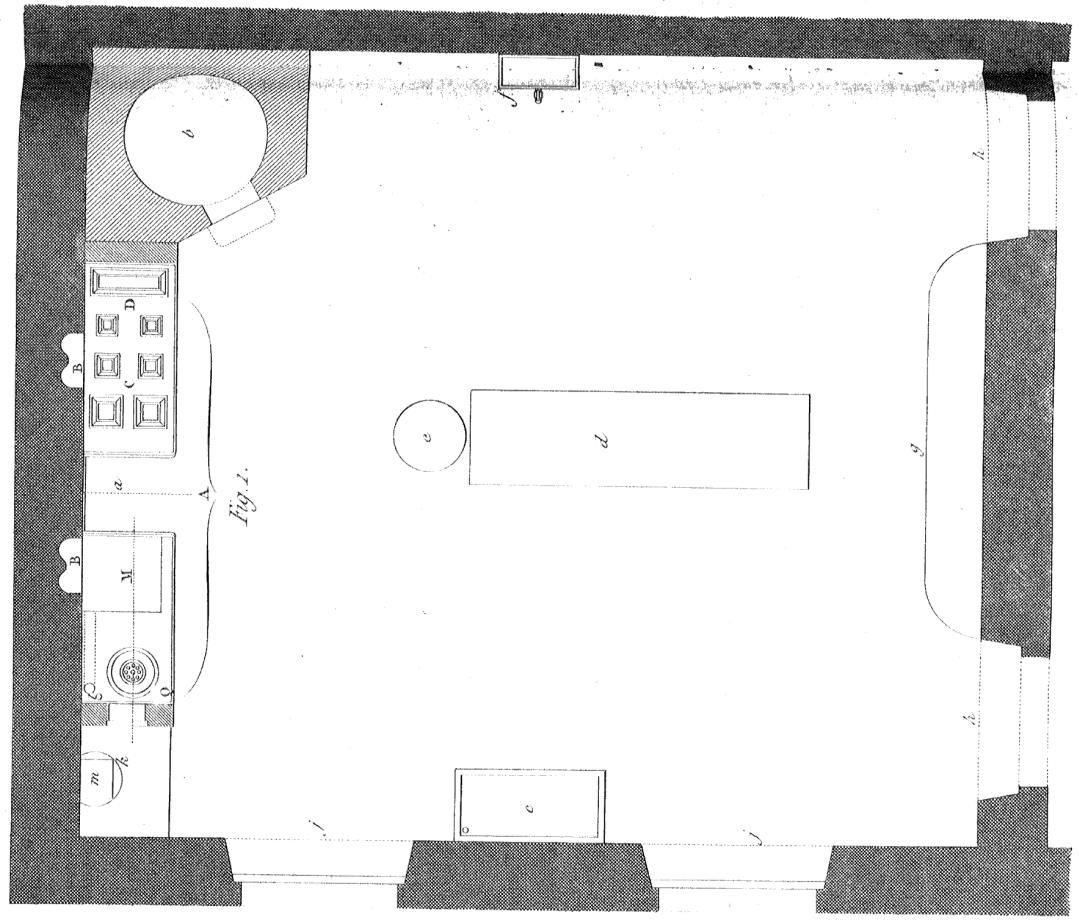
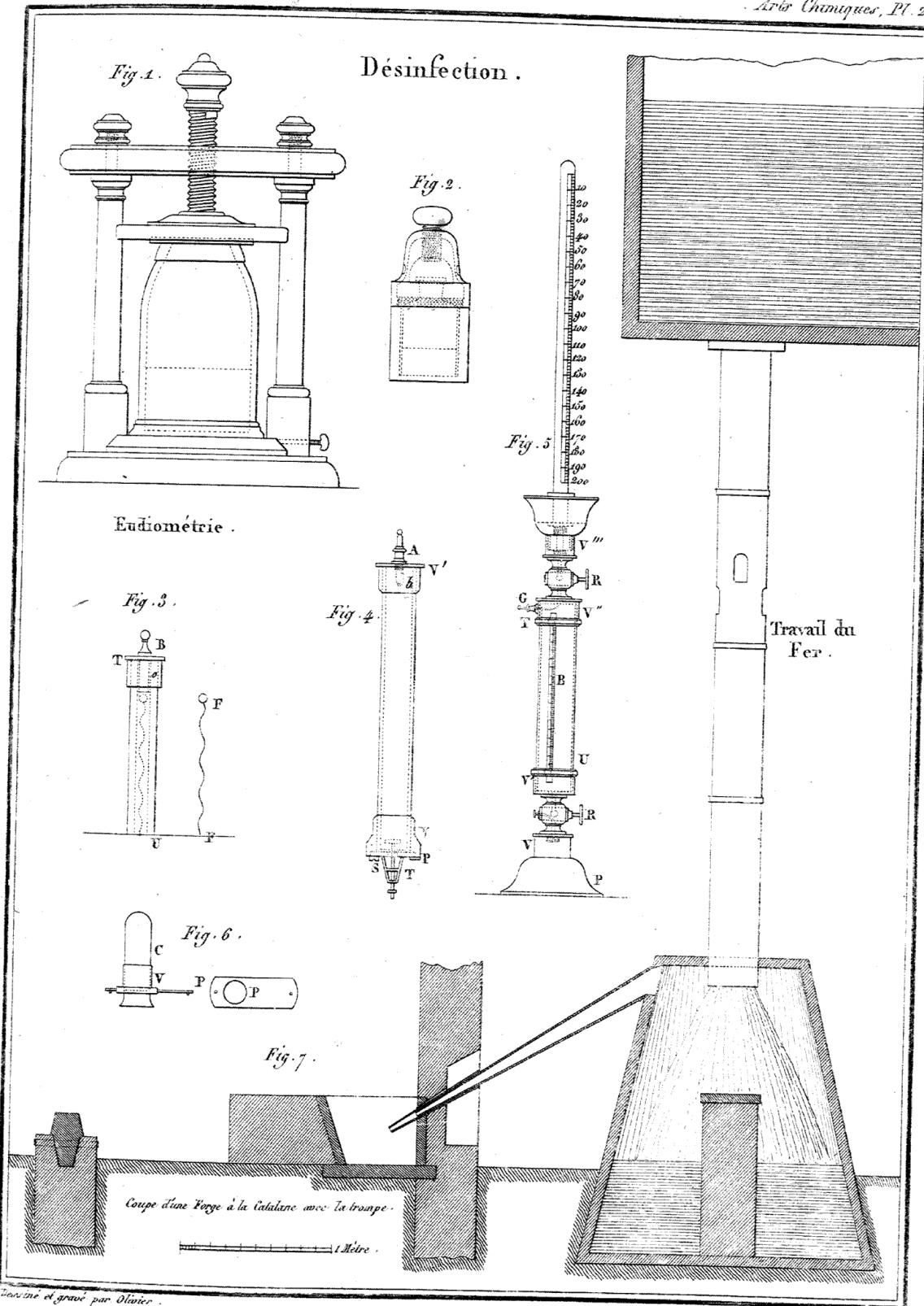
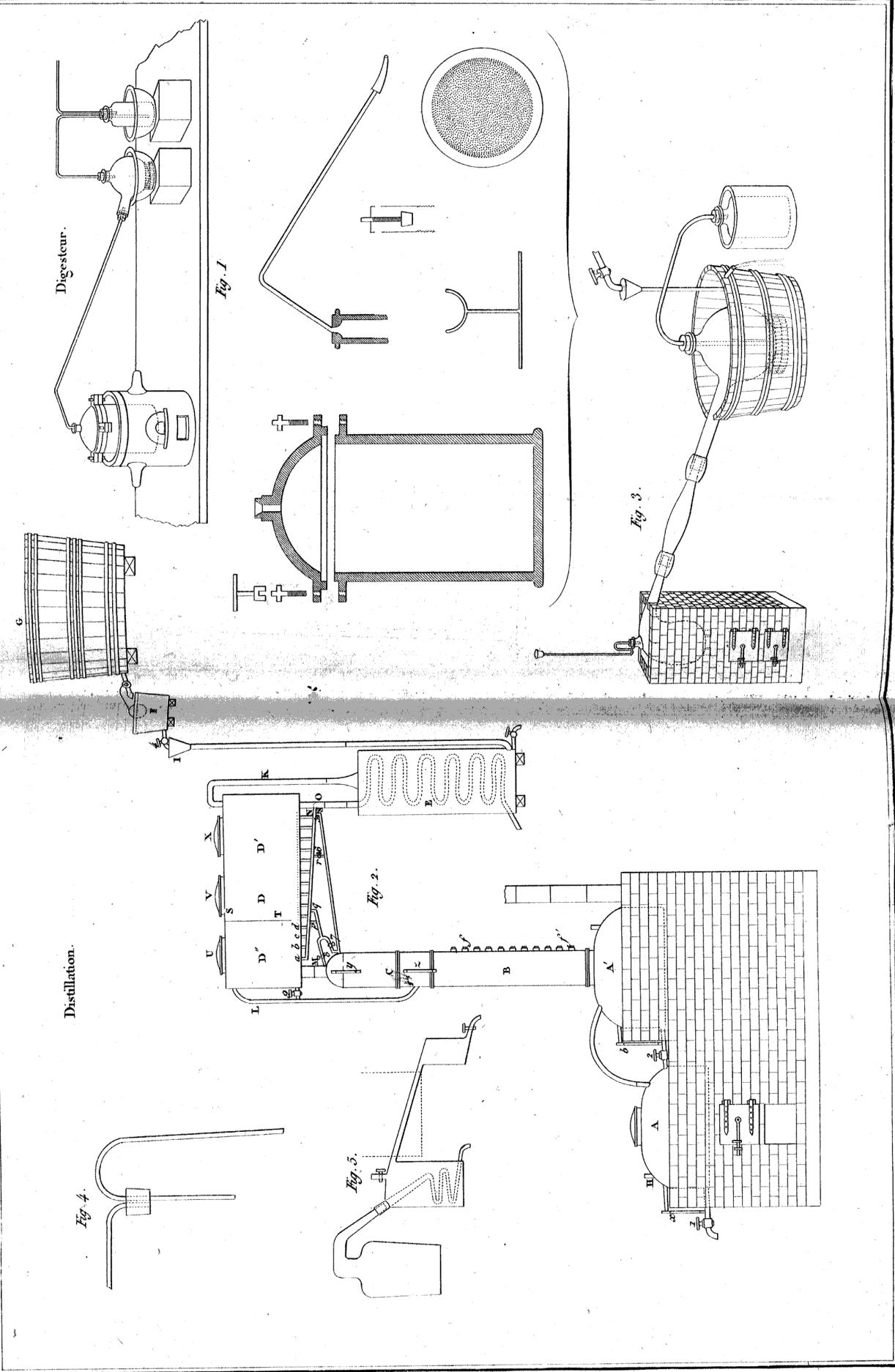


Fig. 8.







Eaux minérales artificielles.

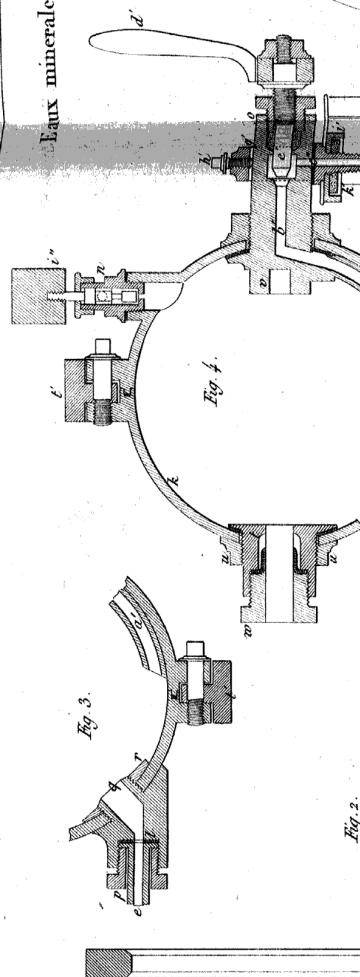


Fig. 3.

Fig. 2.

Fig. 1.

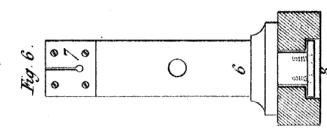


Fig. 4.

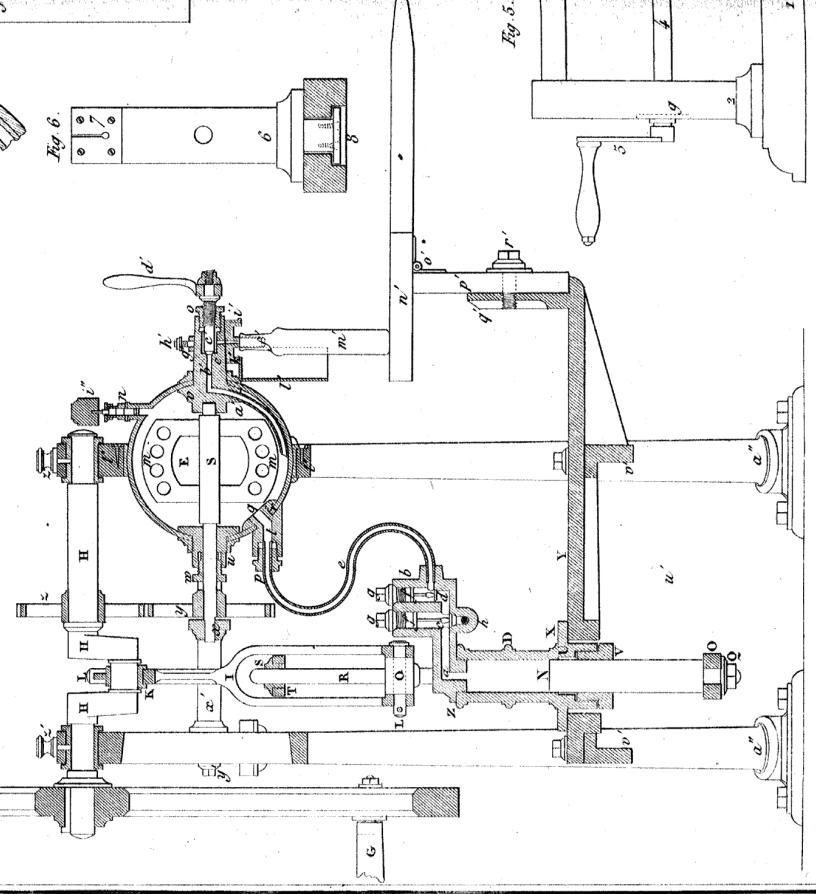


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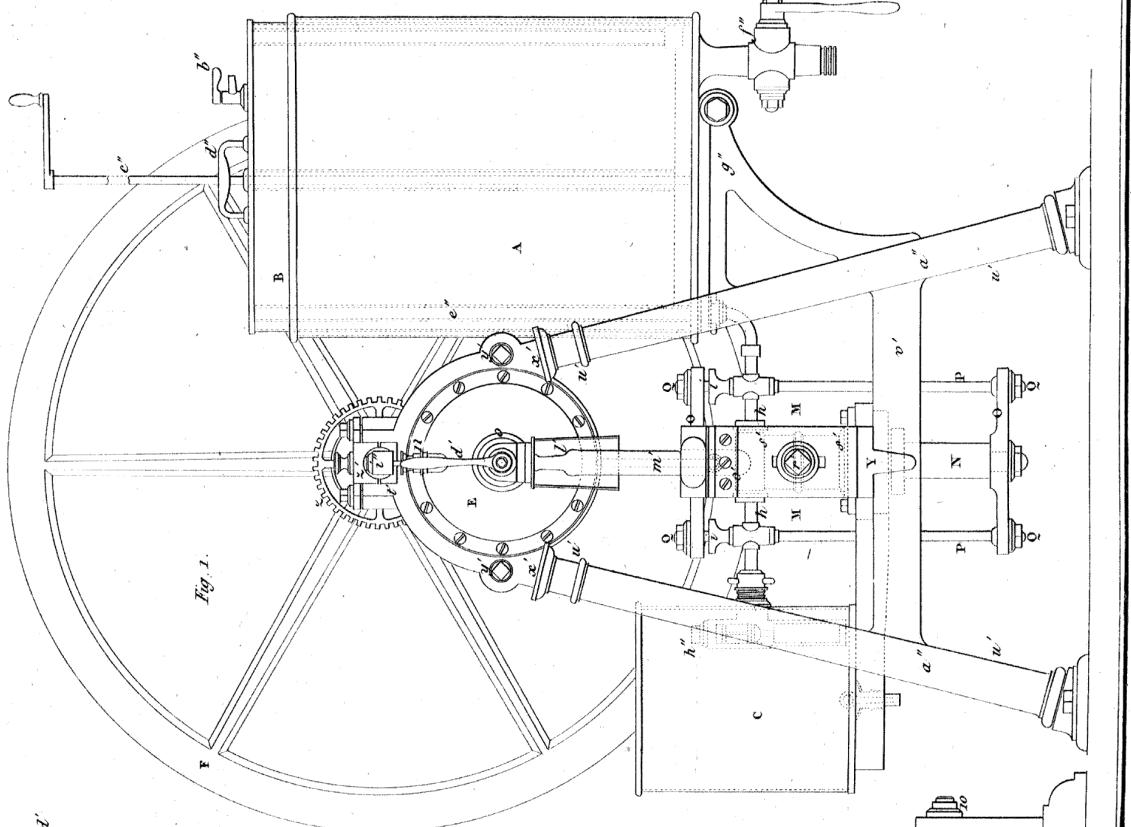


Fig. 6.

Gazomètre.

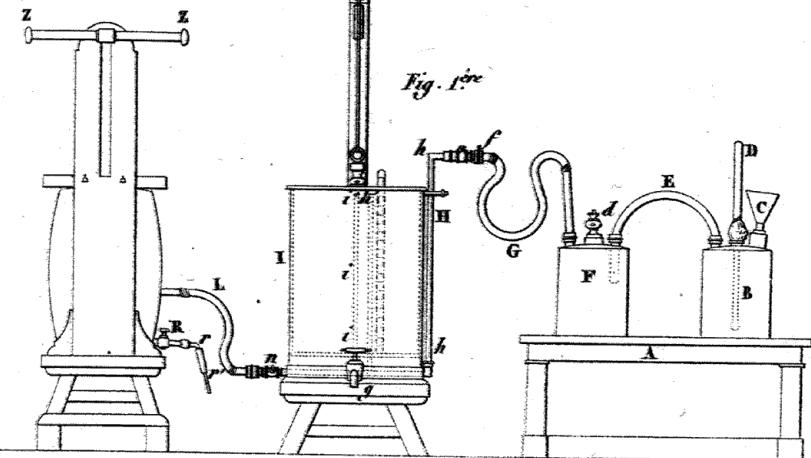


Fig. 1^{re}

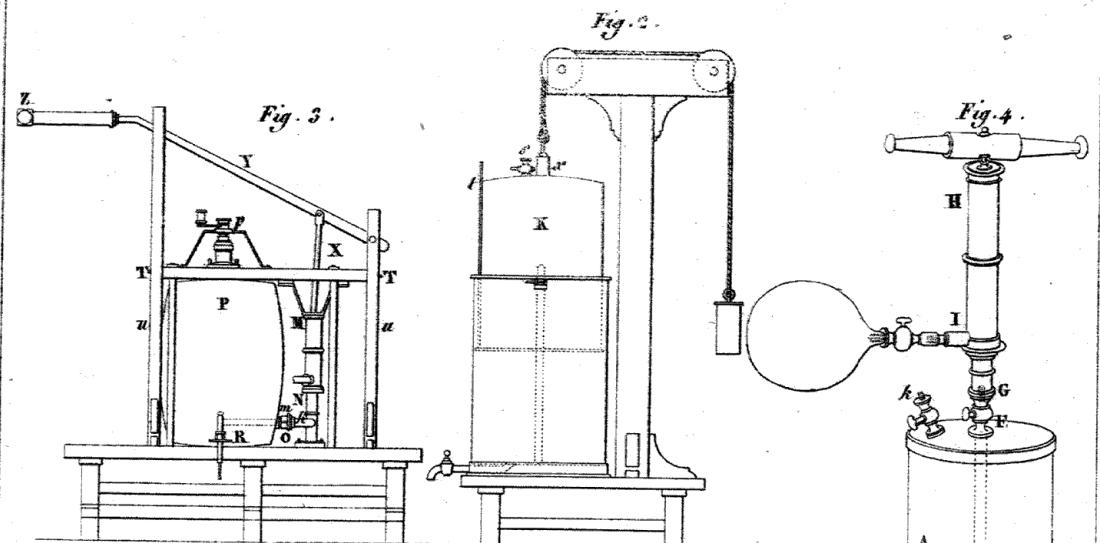


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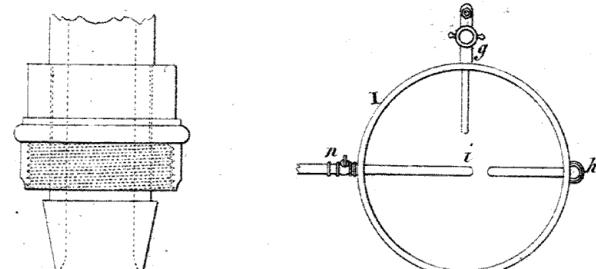


Fig. 3.

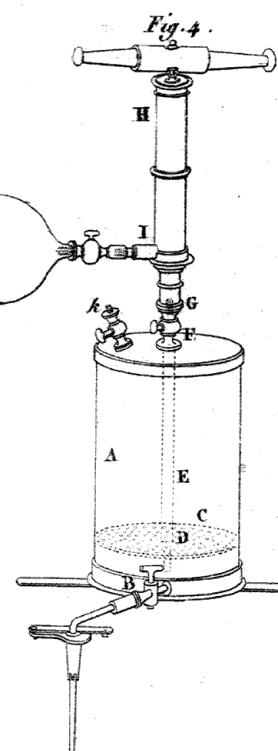
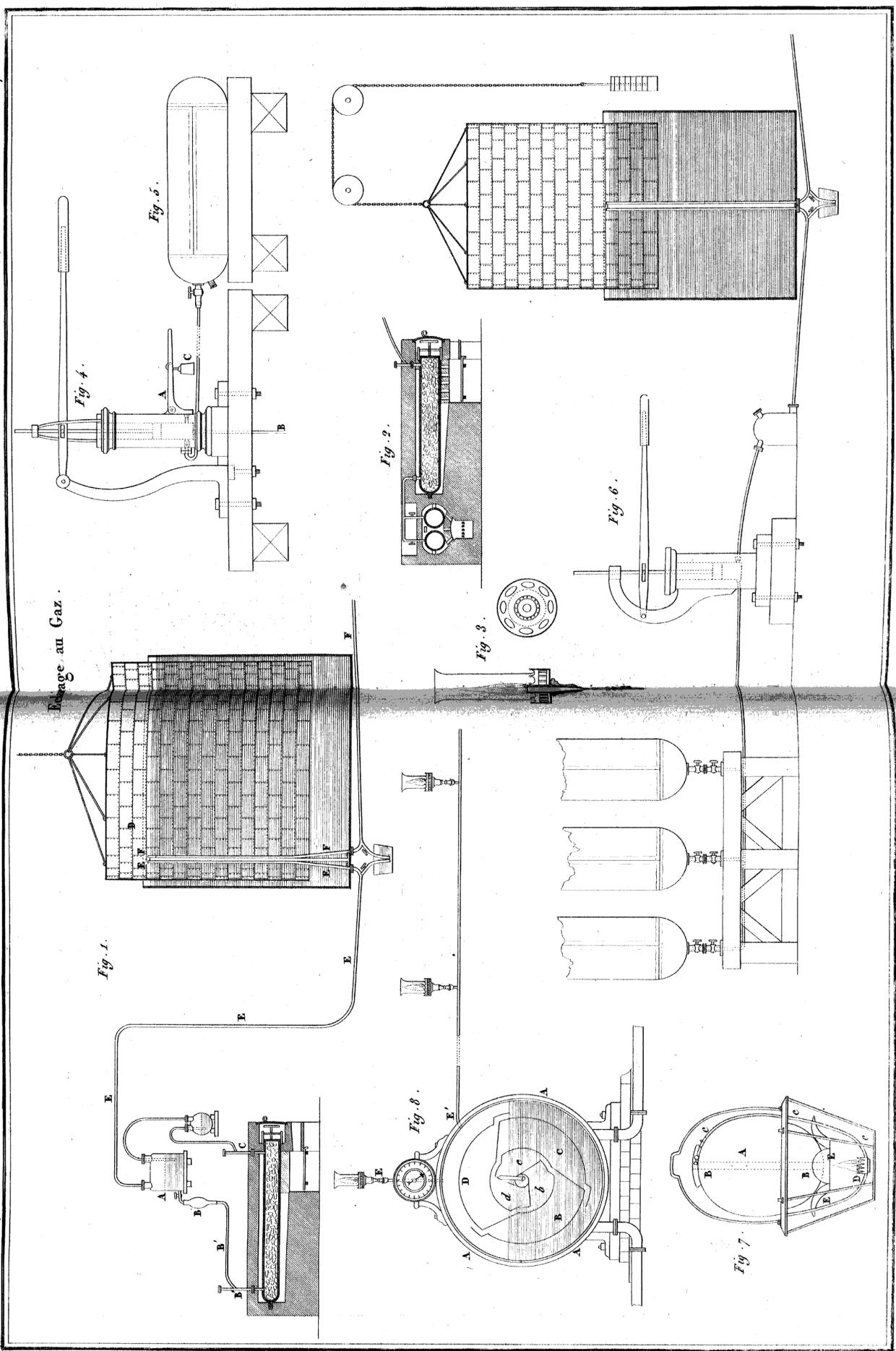


Fig. 4.

Plan au dessous du fond
de la Cuvette extérieure de la Fig. 1.

Dessiné et Gravé par Olivier.



Éclairage au gaz, éclairage &c. Supplément T. IV.

Fig. 1.

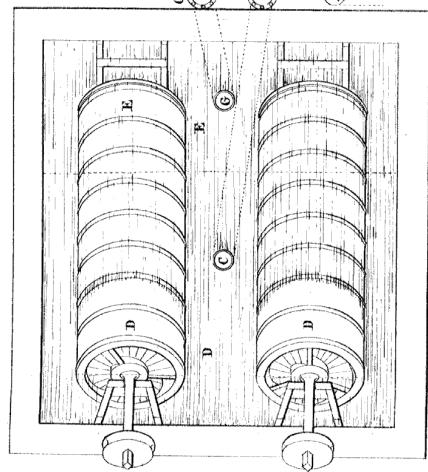
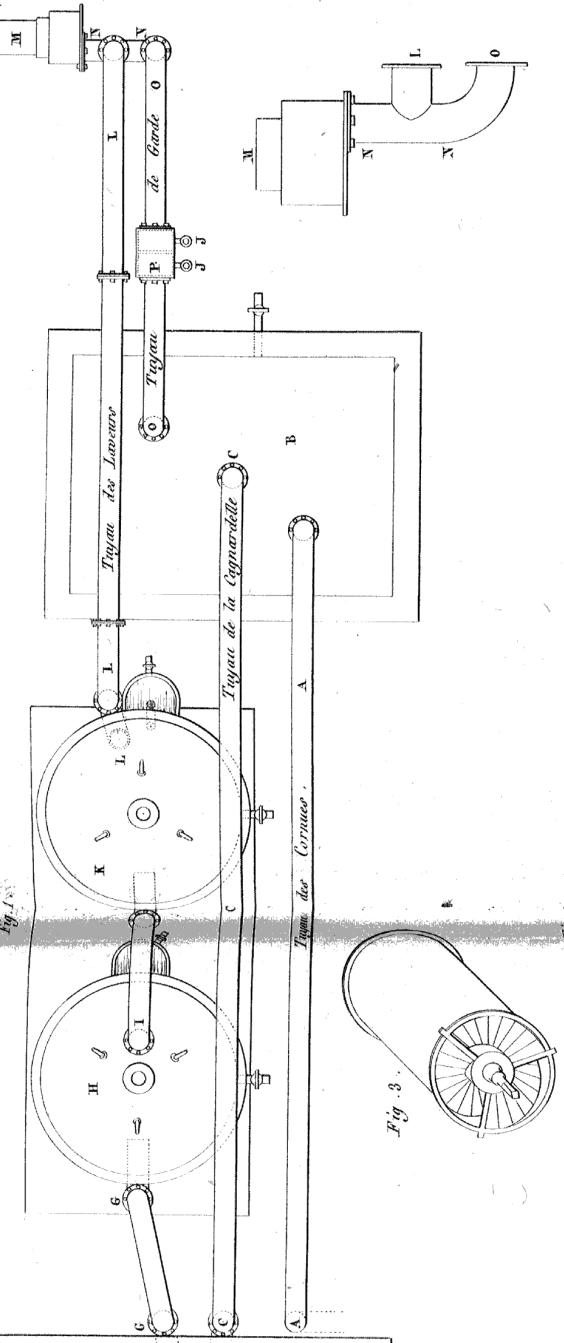
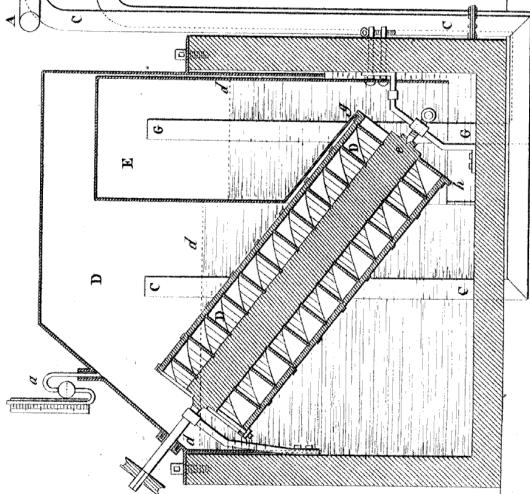
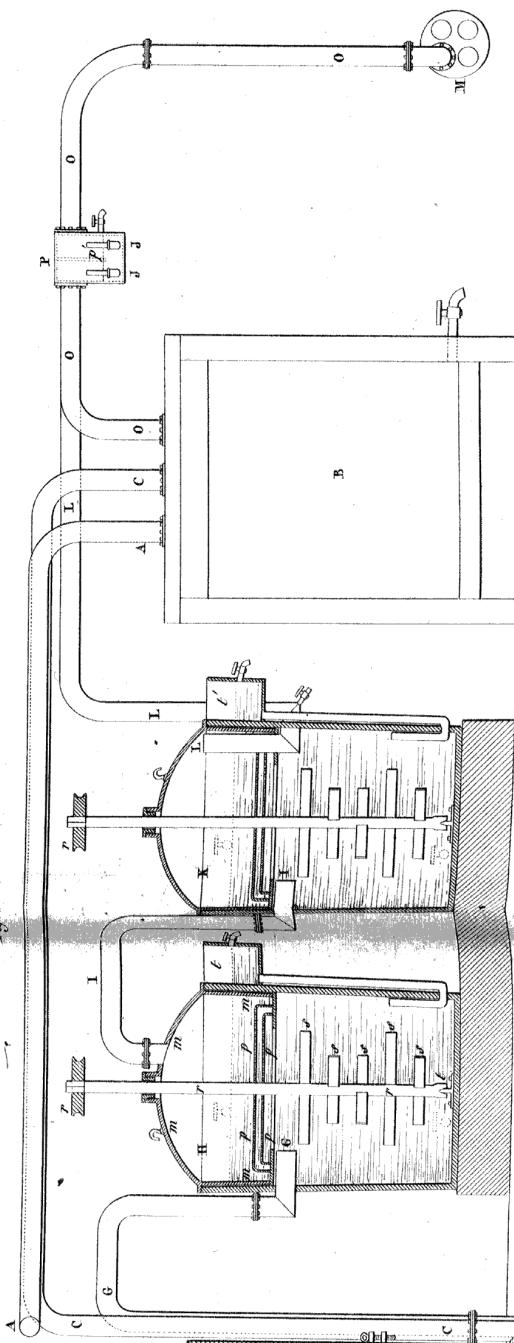
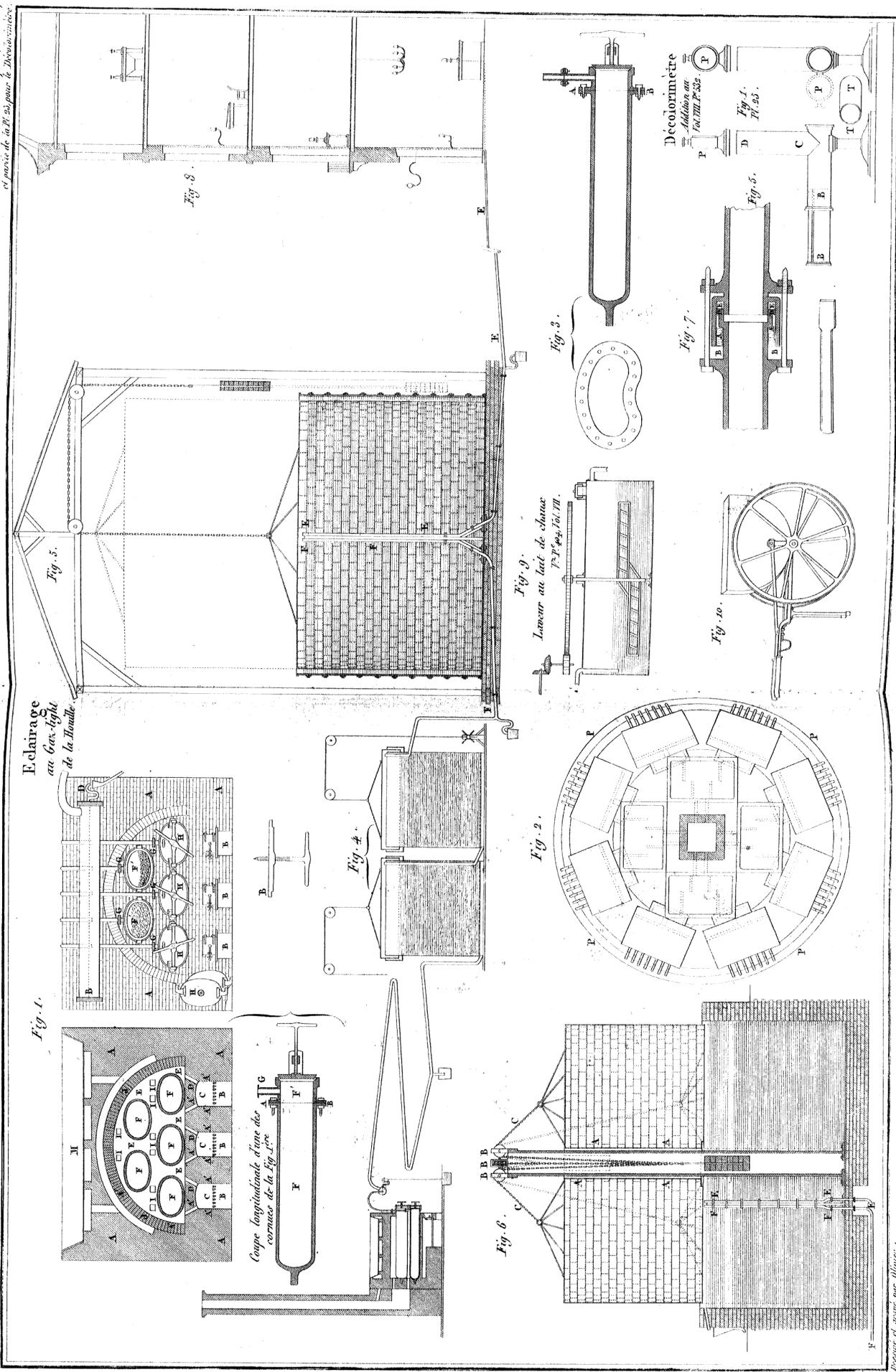
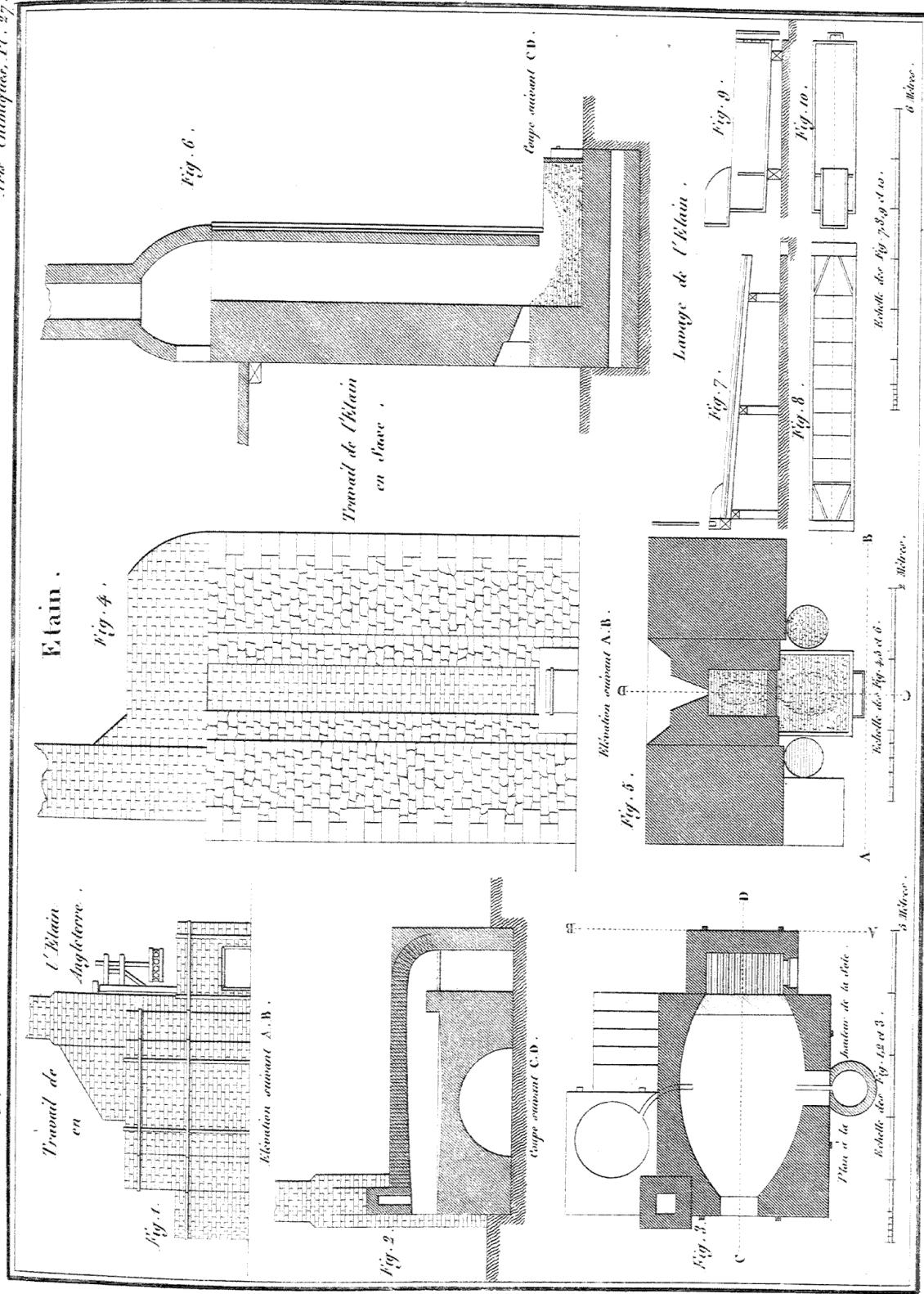
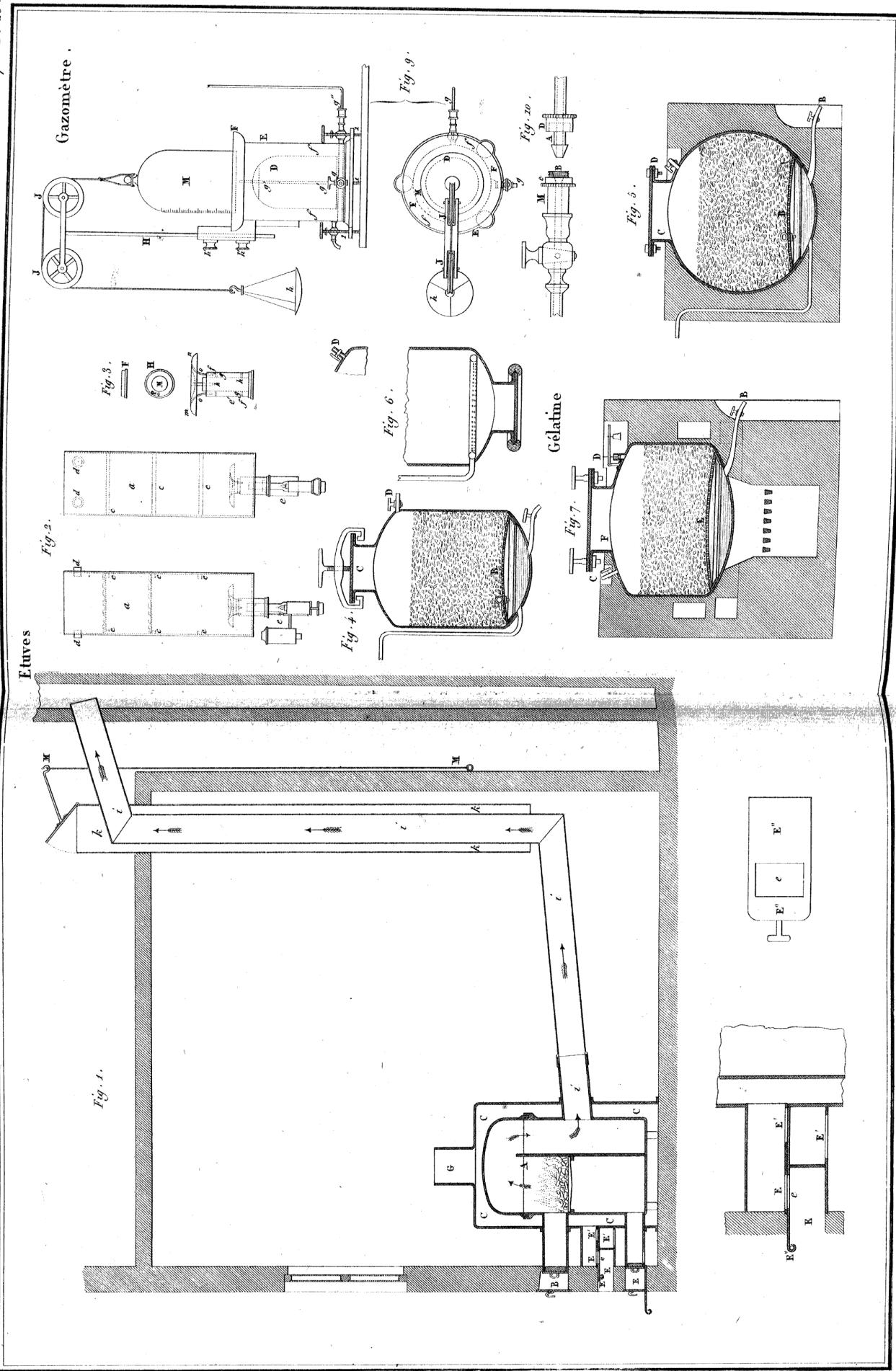


Fig. 2.









Haut-Fourneau au charbon de bois.

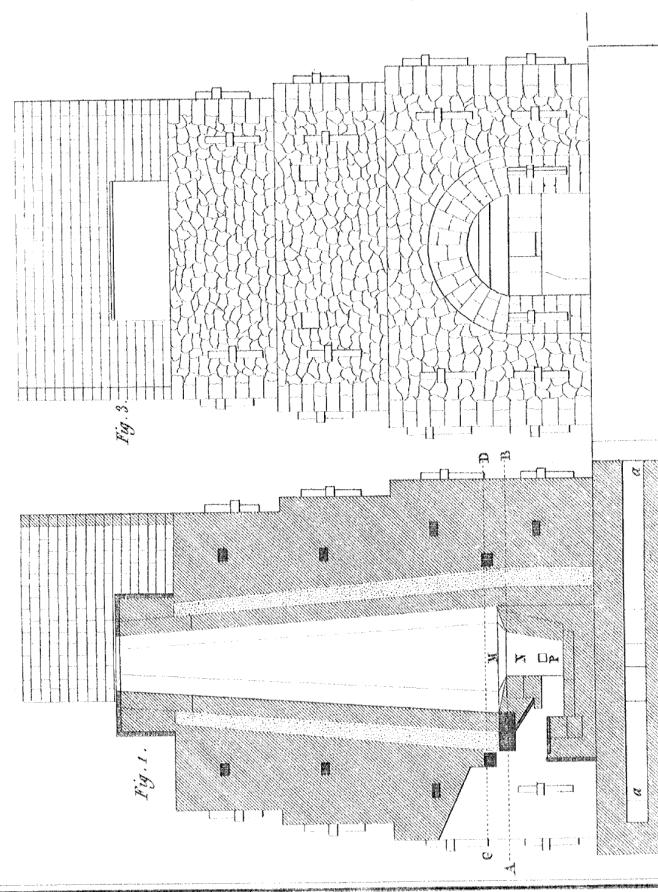


Fig. 1.

Fonte (Fusion des minerais de Fer.)

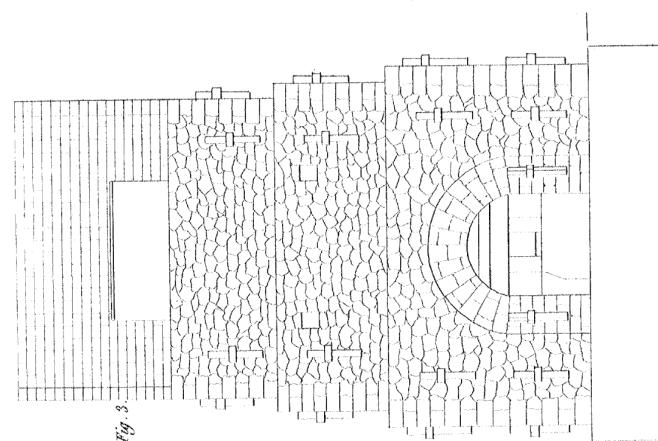


Fig. 2.

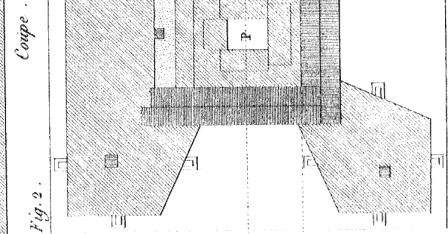


Fig. 3.

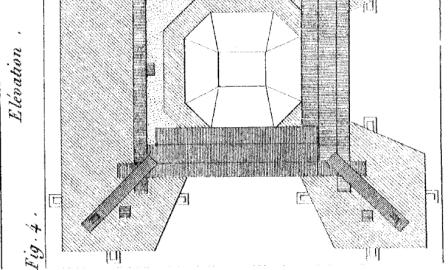


Fig. 4.

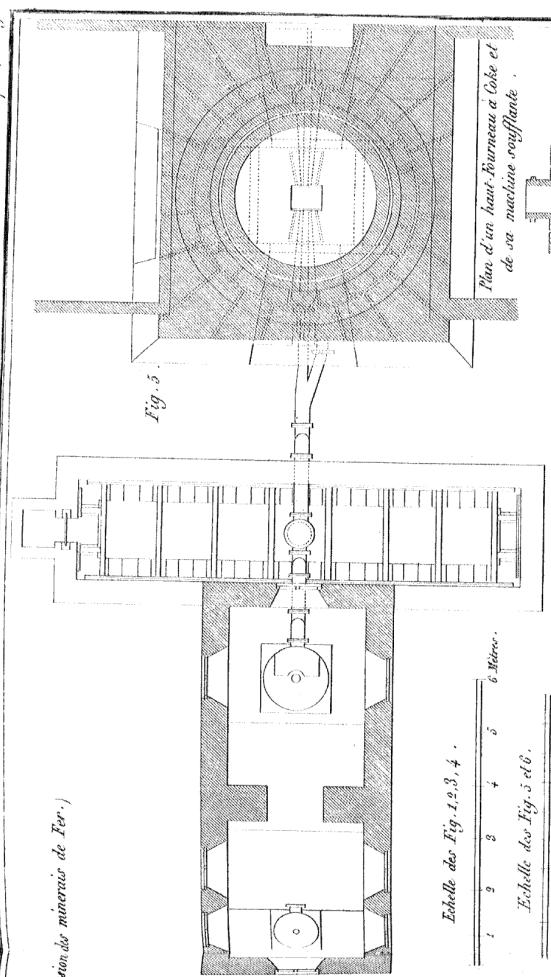


Fig. 5.

Echelle des Fig. 4, 5, 6.
1 2 3 4 5 6 7 8 9 10 Mètres.

Echelle des Fig. 5 et 6.
1 2 3 4 5 6 7 8 9 10 Mètres.

Plan d'un haut-fourneau à Coke et de sa machine soufflante.

Haut-fourneau au Coke.

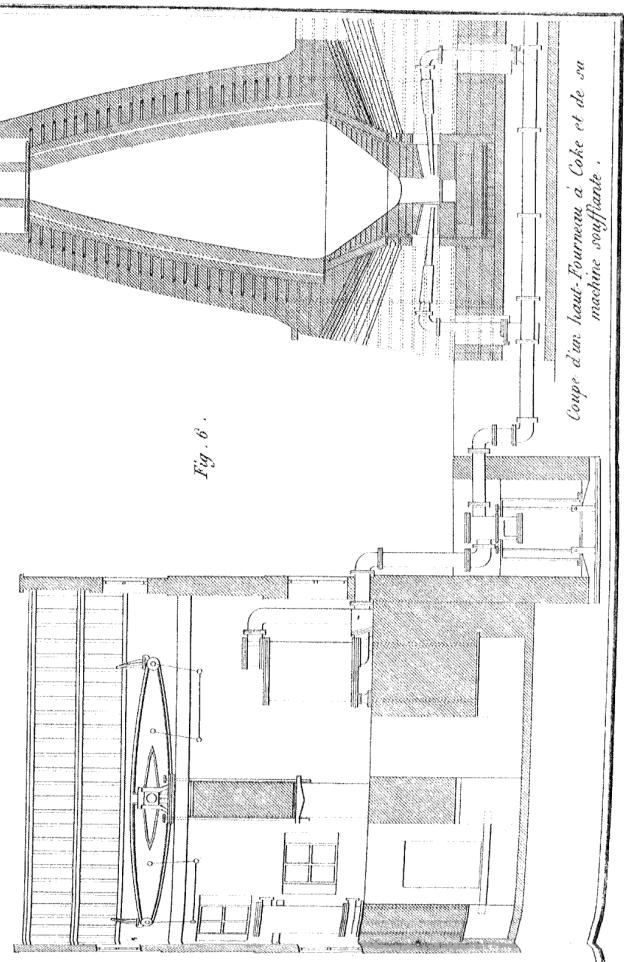


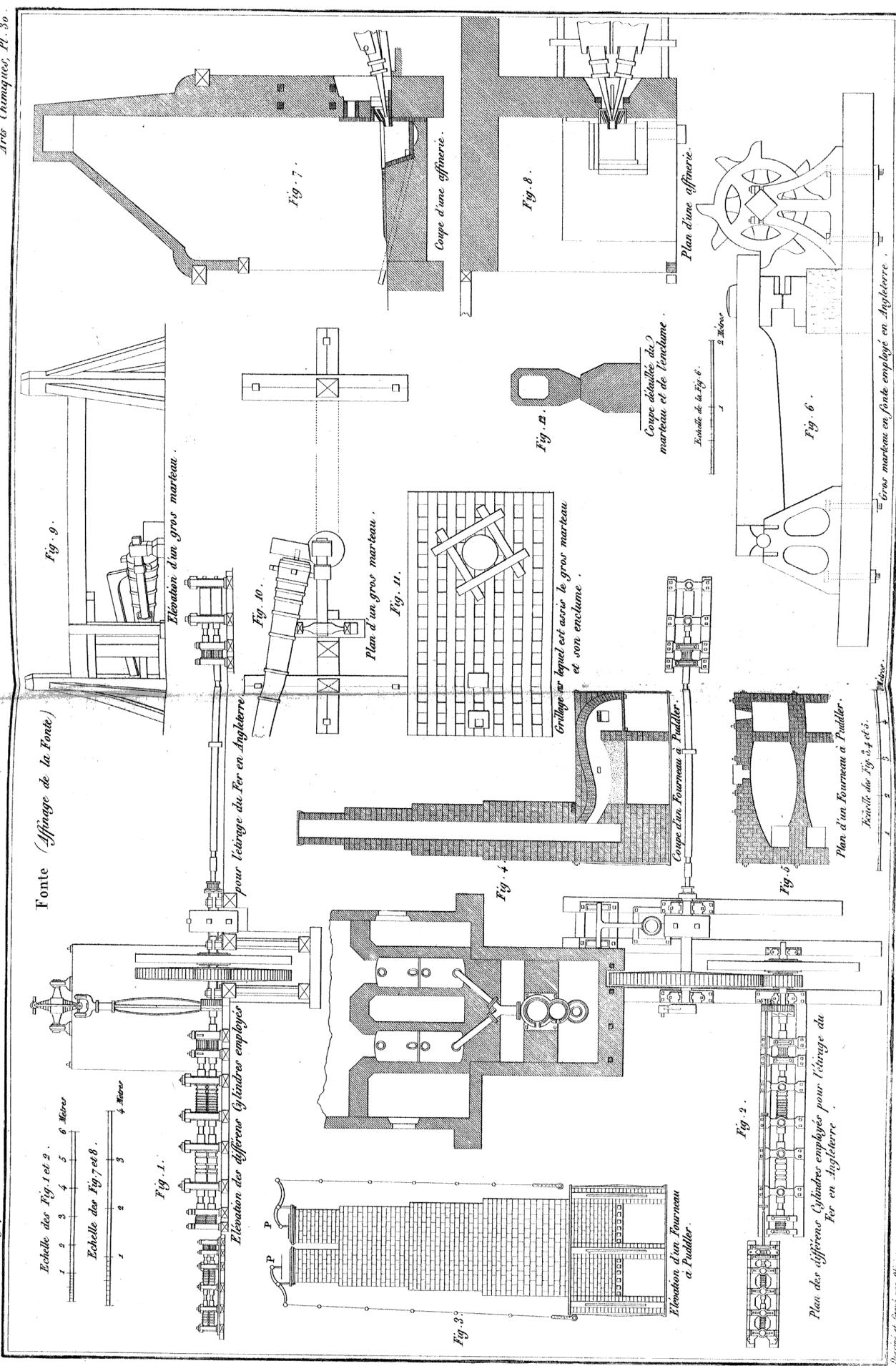
Fig. 6.

Coupe d'un haut-fourneau à Coke et de sa machine soufflante.

Plan à la hauteur C.D.

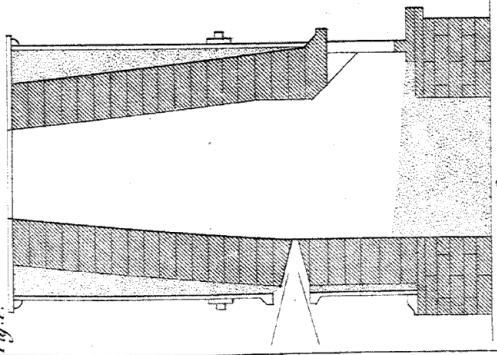
Plan à la hauteur A.B.

Barrière et grilles pour débiter.



Fonte moulée. (*Travail de la*)

Fig. 1. Fourneau à manche.

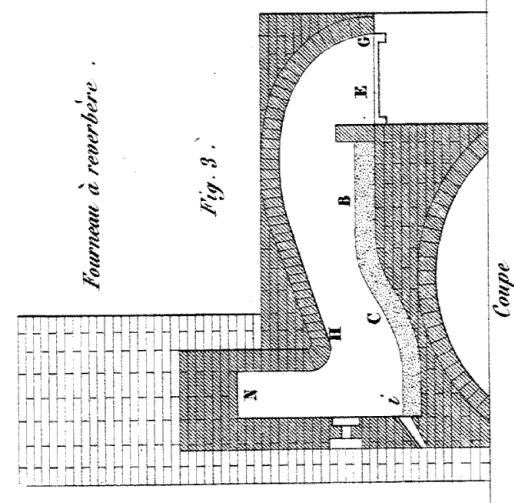


Coupe.

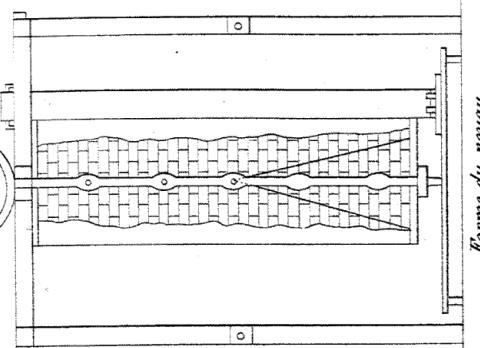


Fourneau à manche.

Fig. 3.



Fourneau à reverberé.



Forme du moule.

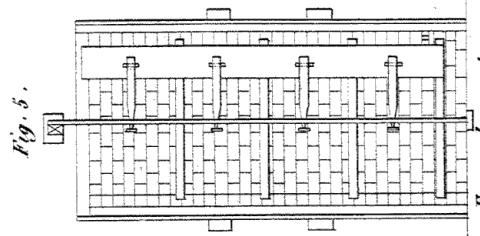
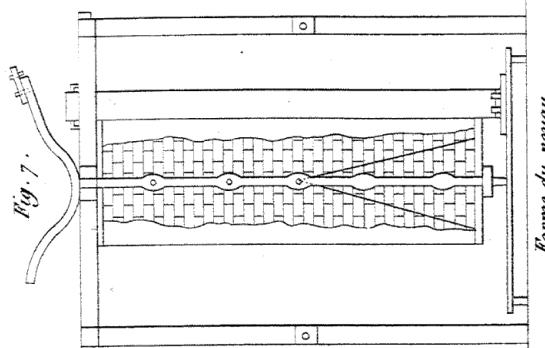


Fig. 5.

Fig. 7.



Forme du moule.

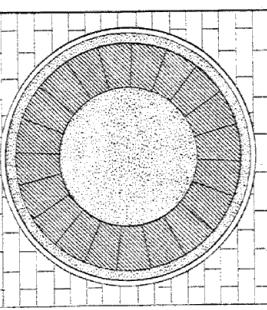


Fig. 6.

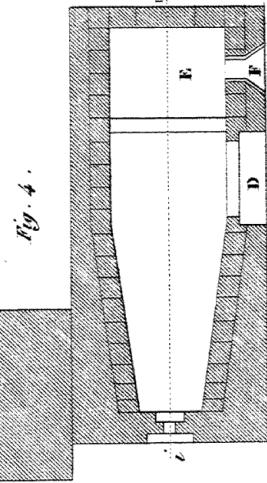


Fig. 7.

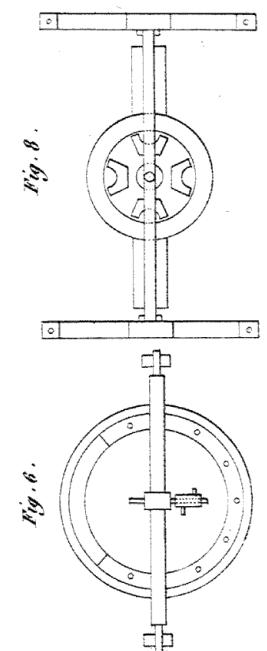


Fig. 8.

Plan.

1 2 3 4 5 6 7 8 9 10 pieds.

Échelle des Fig. 6, 7, et 8.

Plan.

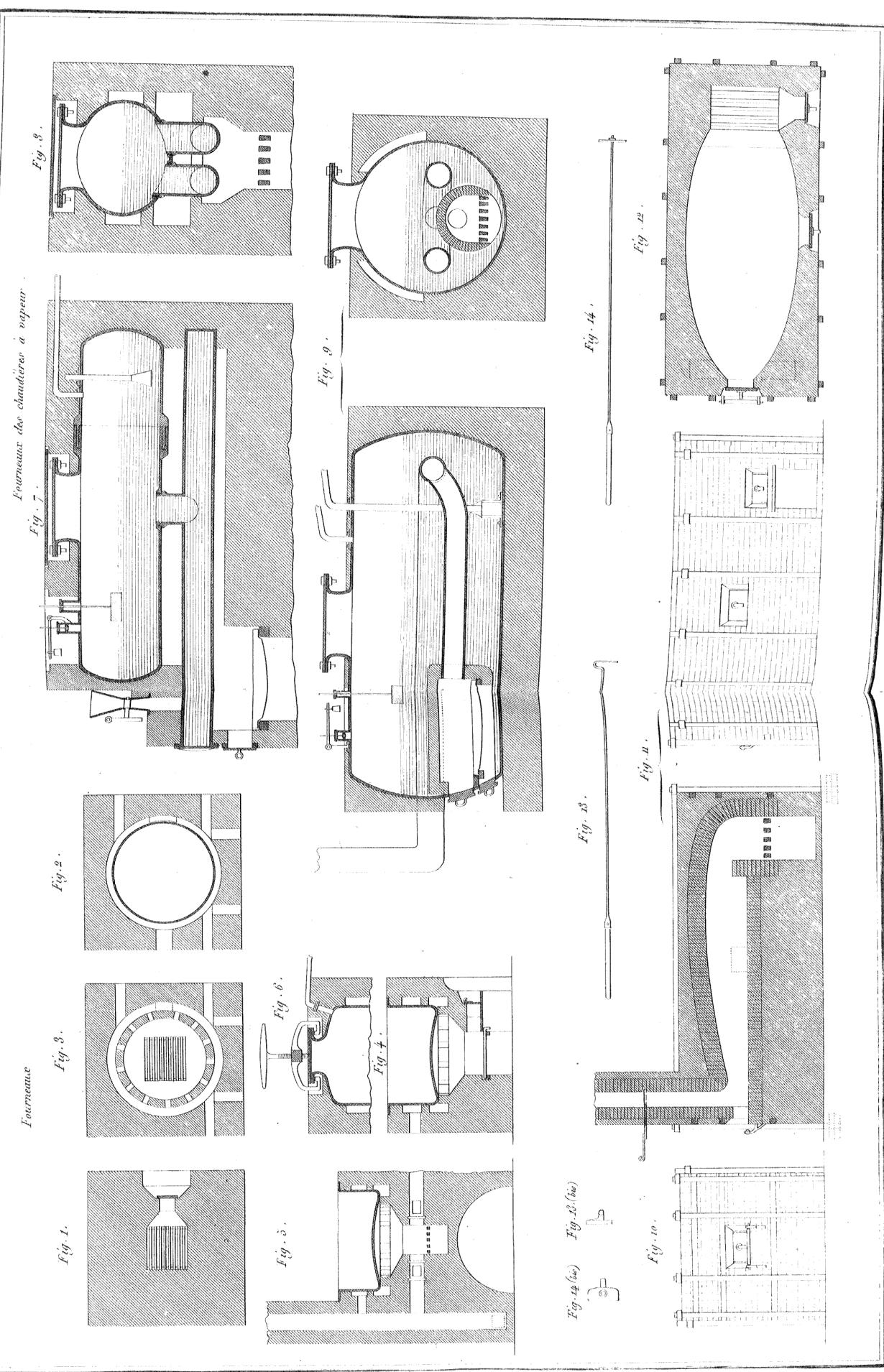
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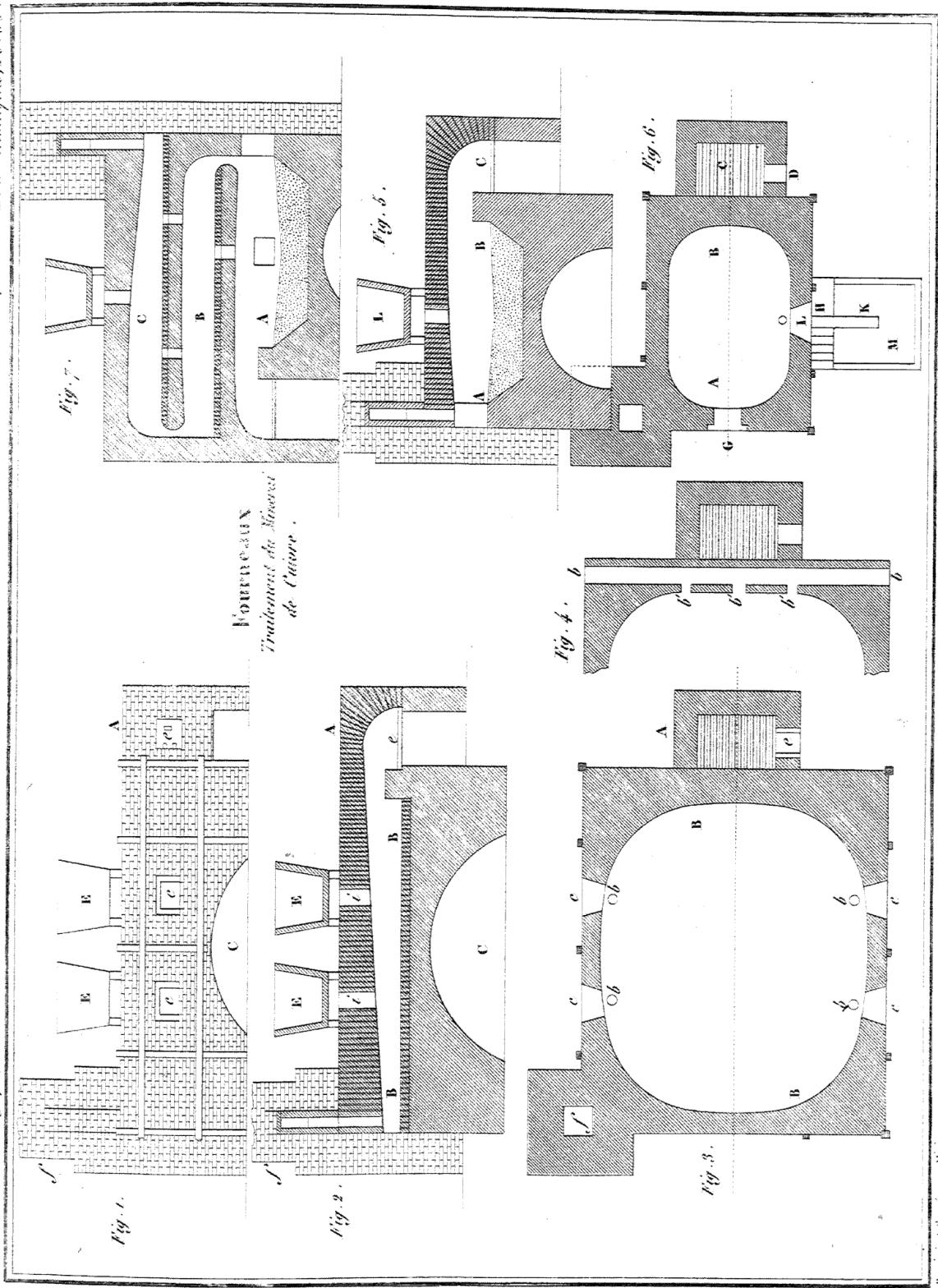
Échelle des Fig. 3 et 4.

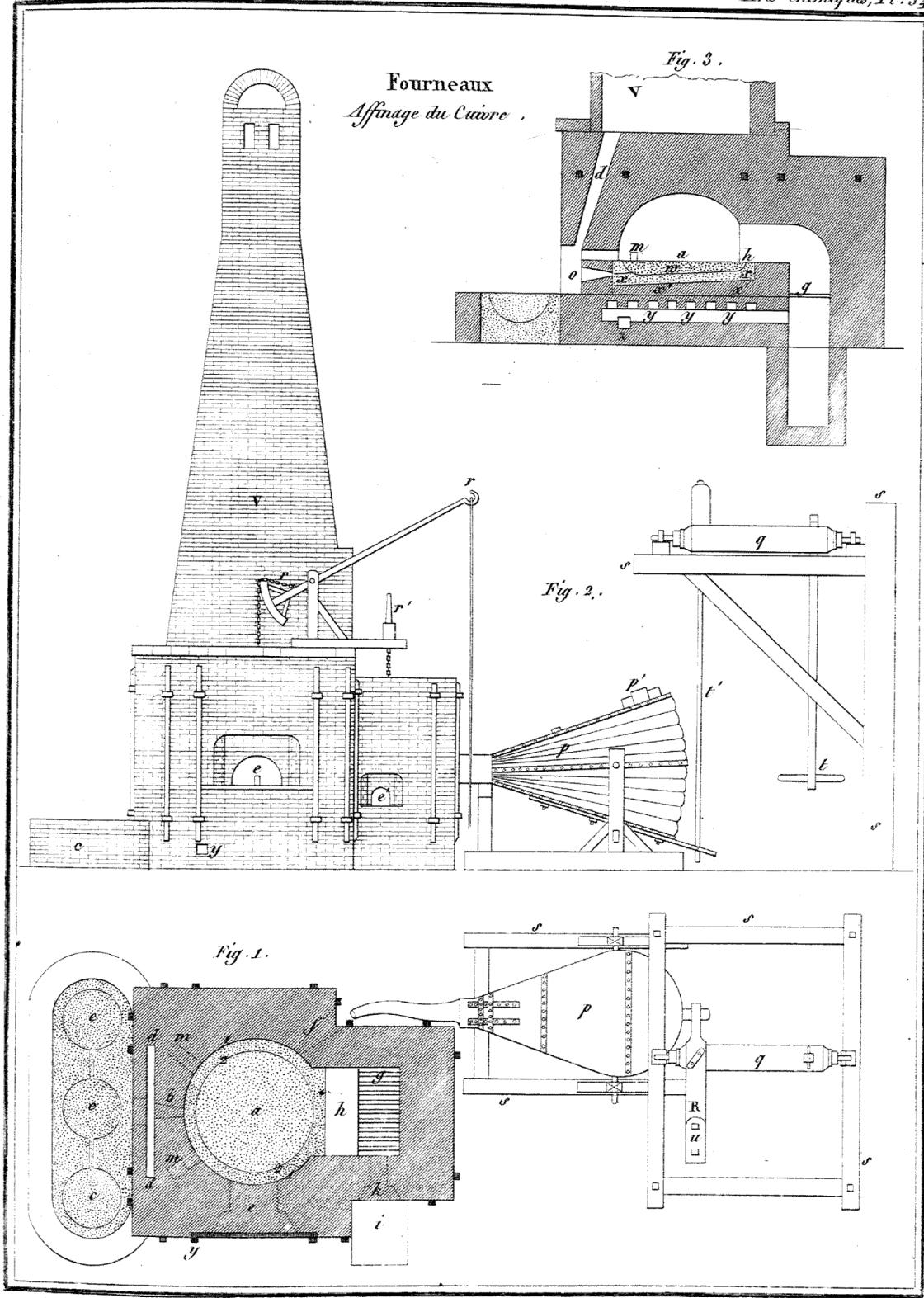
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Échelle des Fig. 5, 6, 7, et 8.

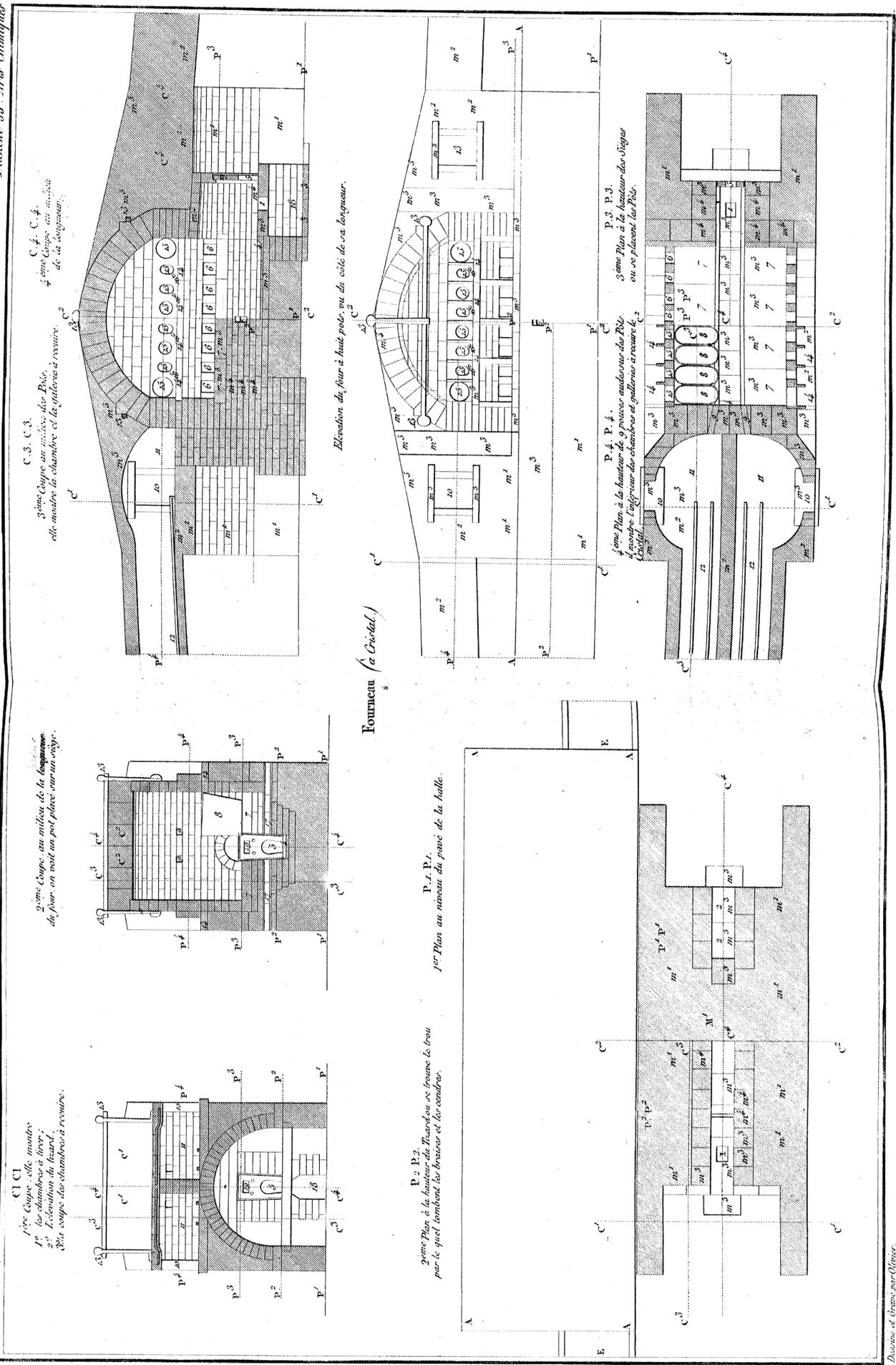
Recopié et tiré par M. M. M. .







Recueilli et Gravé par Olinier.



Fourneaux de Laboratoire.

Fig. 1.

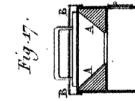
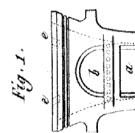


Fig. 2.

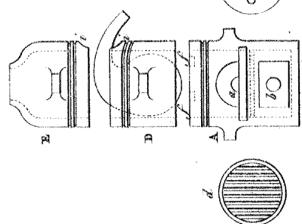


Fig. 3.

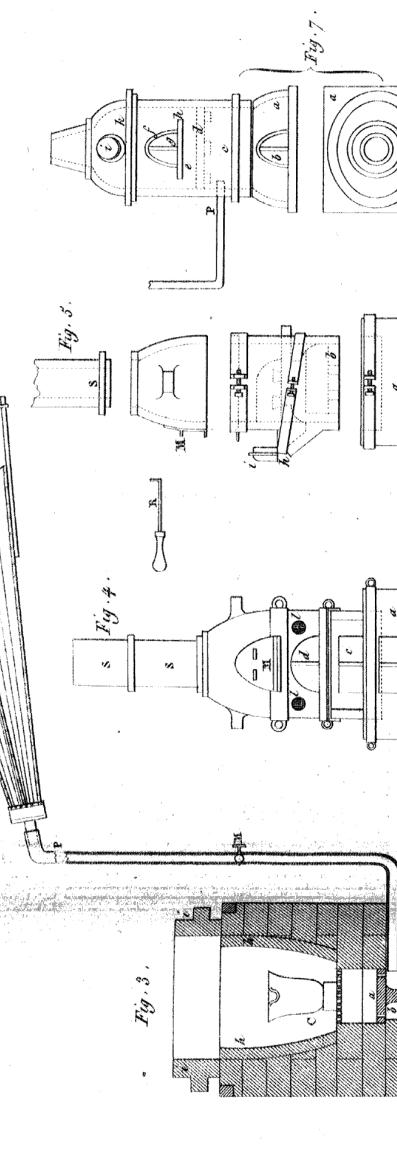


Fig. 4.

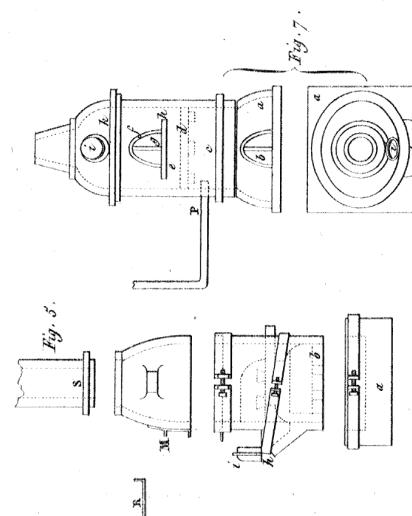
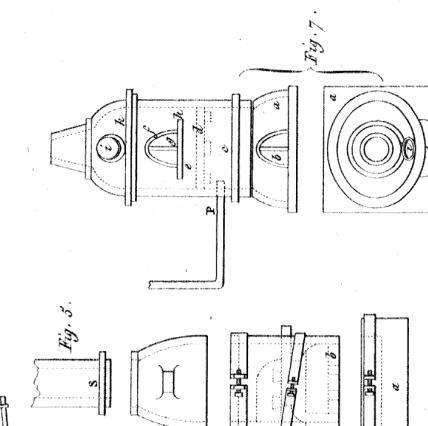


Fig. 5.



Fourneaux de Cuisine.

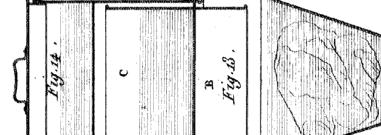


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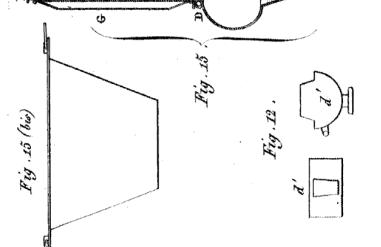


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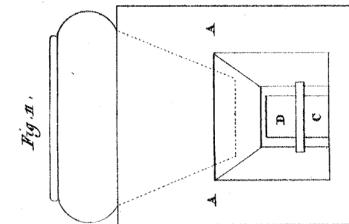


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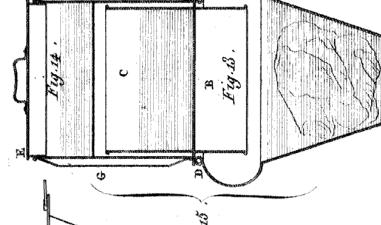


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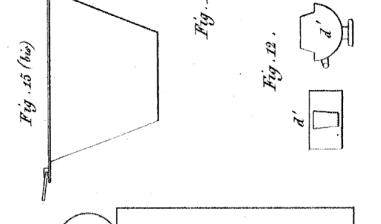


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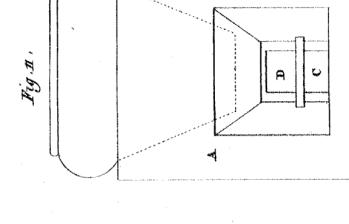


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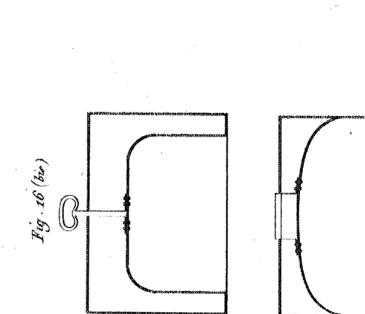


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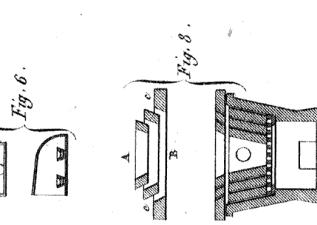


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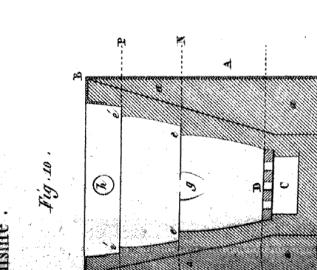


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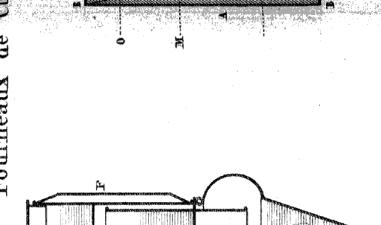


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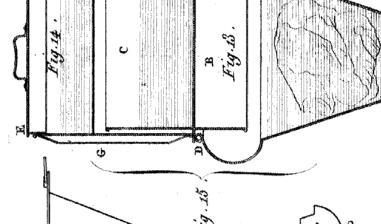


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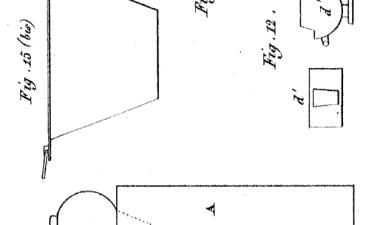


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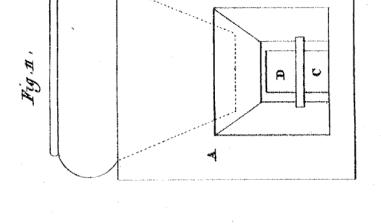


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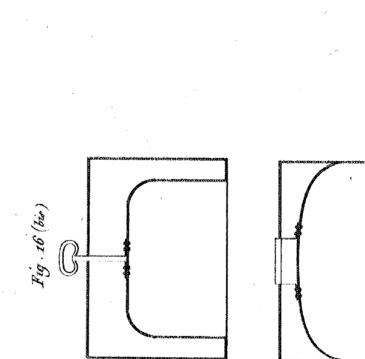


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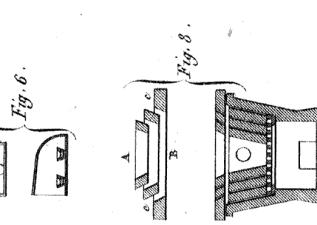


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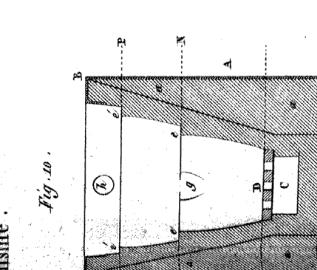


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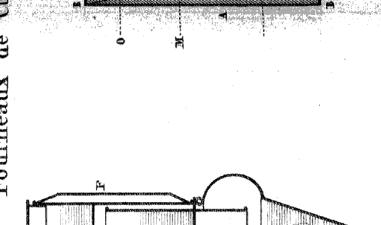


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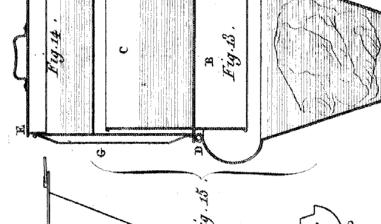


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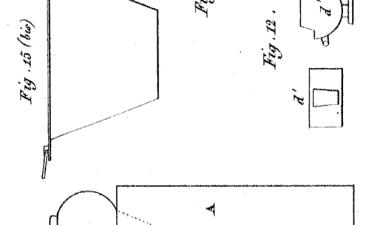


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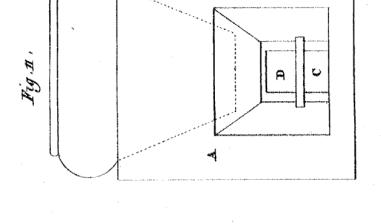


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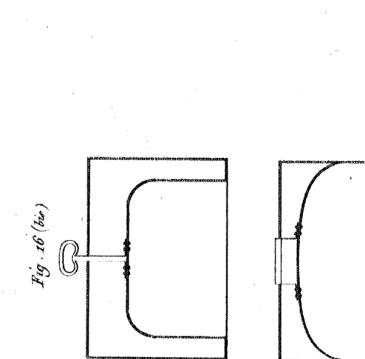


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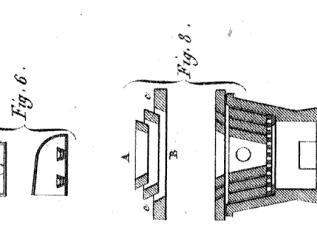


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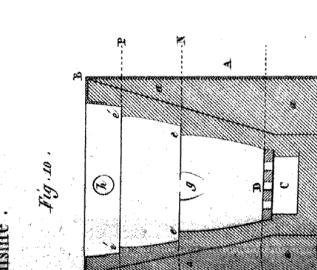


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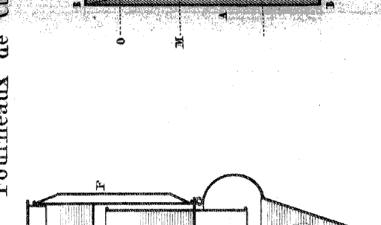


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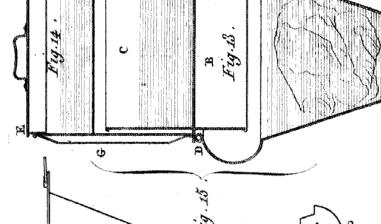


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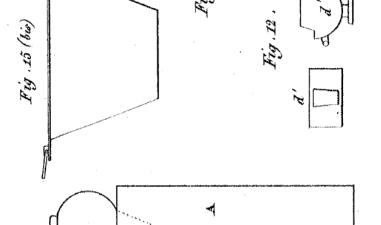


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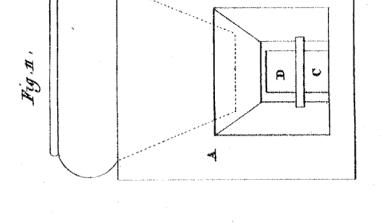


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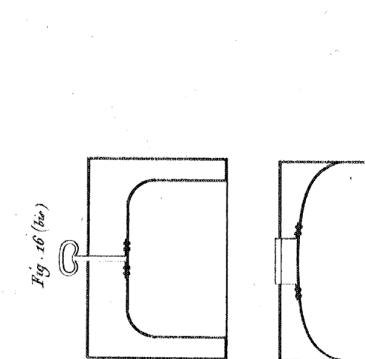


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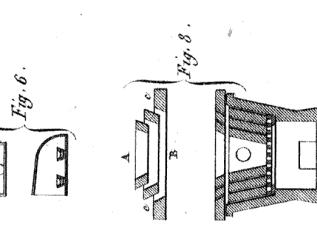


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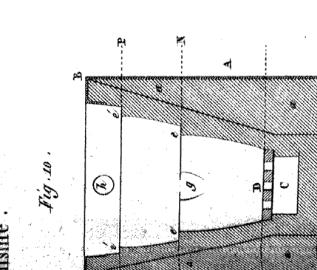


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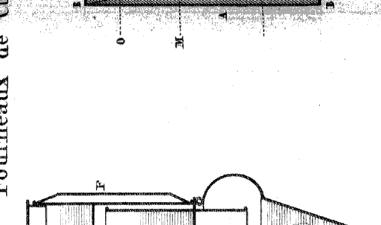


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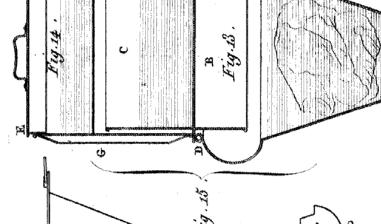


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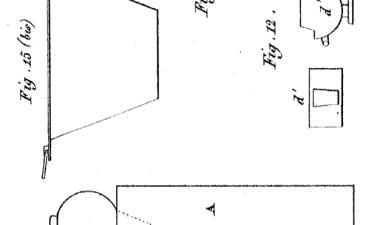


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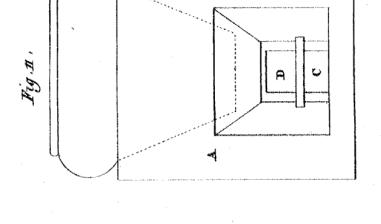


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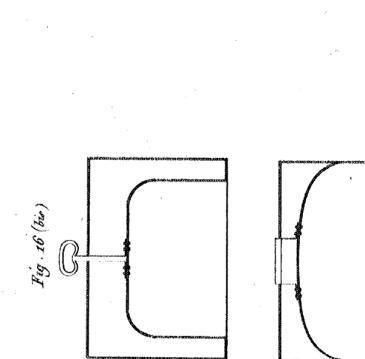


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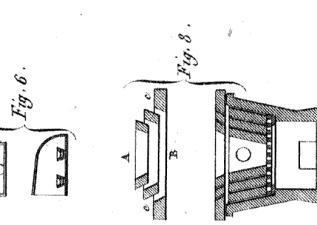


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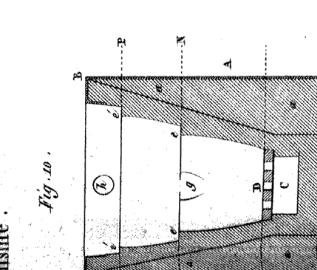


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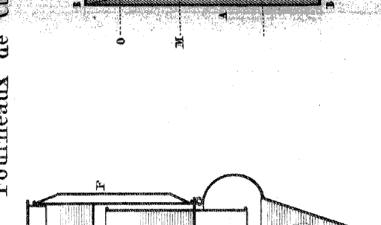


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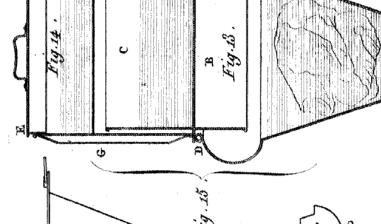


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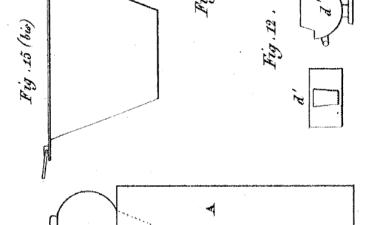


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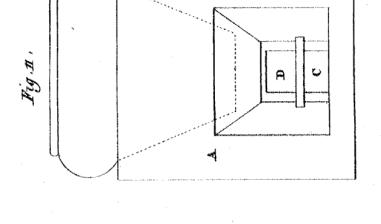


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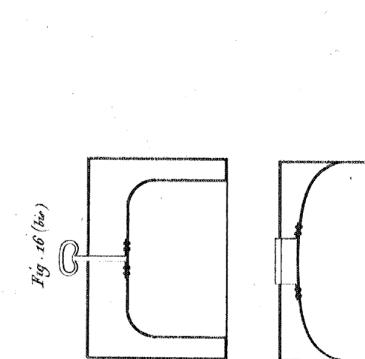


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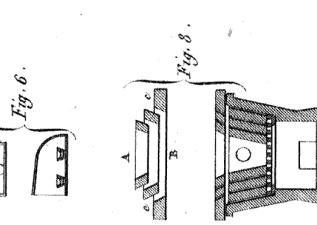


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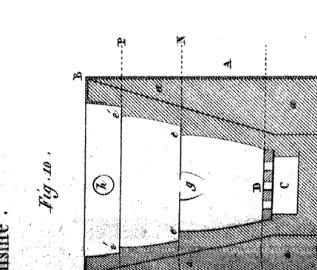


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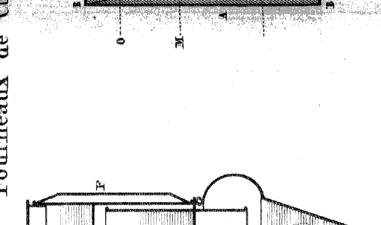


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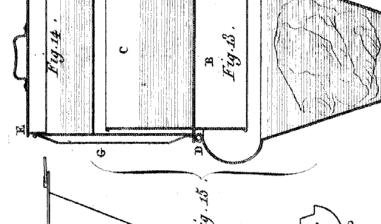


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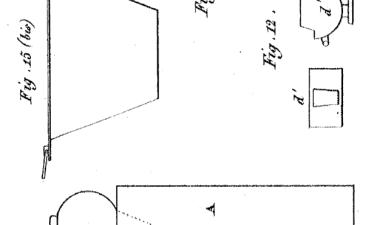


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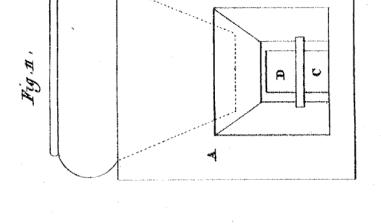


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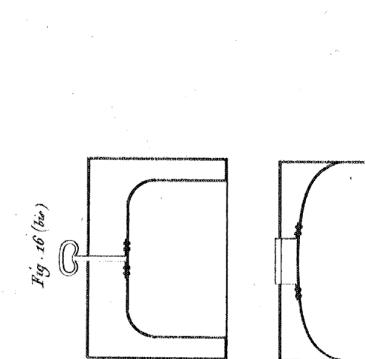


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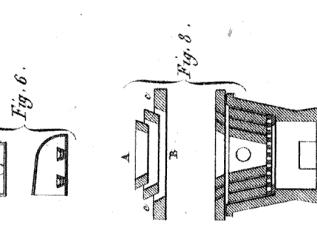


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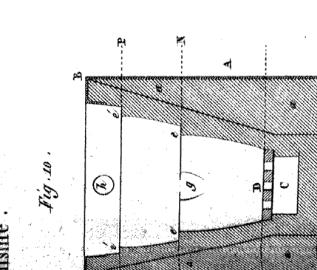


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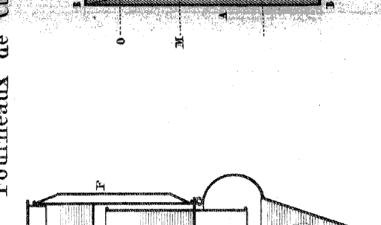


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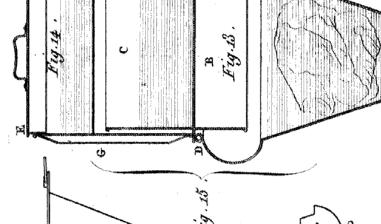


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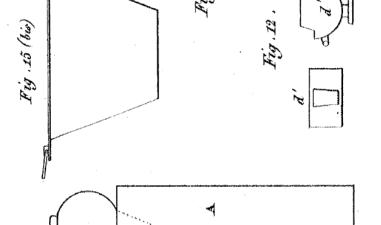


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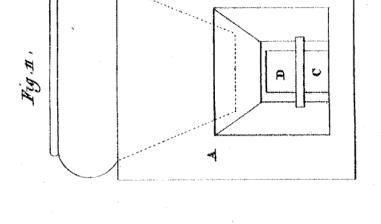


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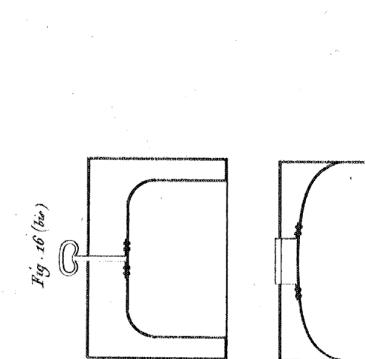


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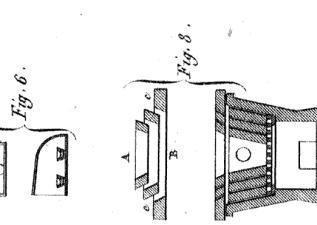


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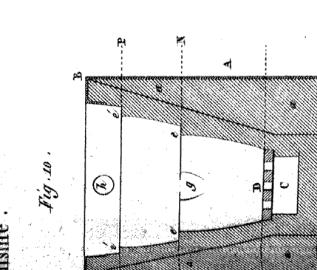


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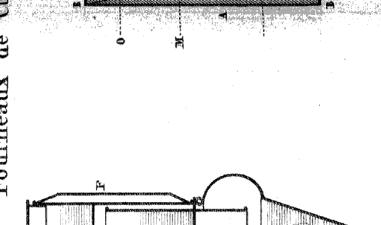


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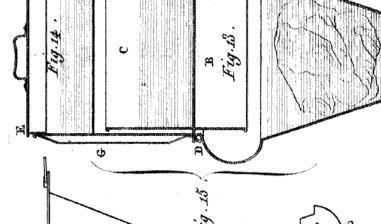


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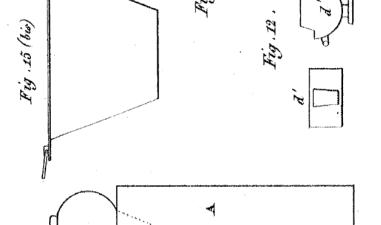


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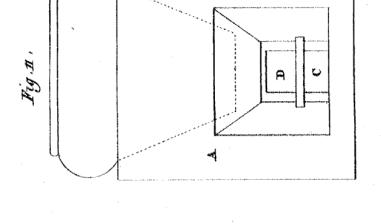


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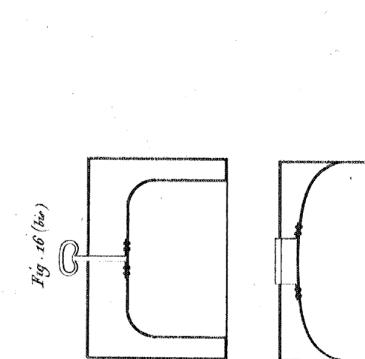


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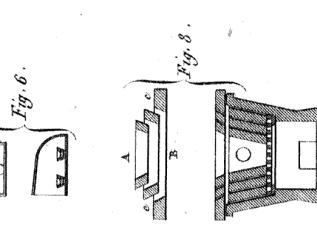


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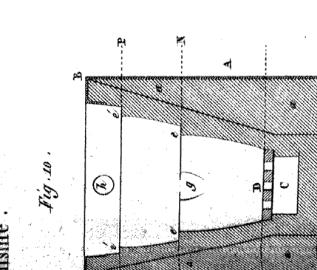


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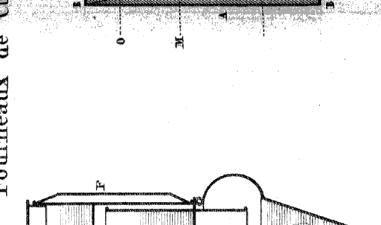


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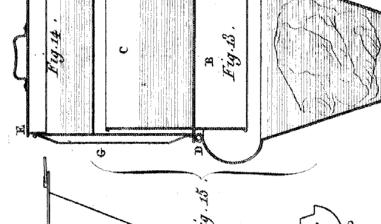


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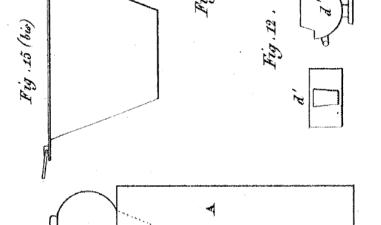


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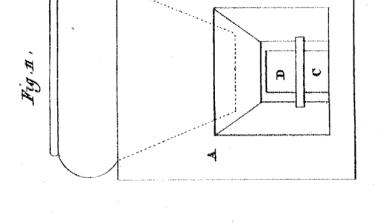


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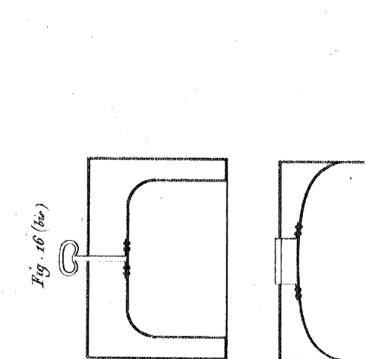


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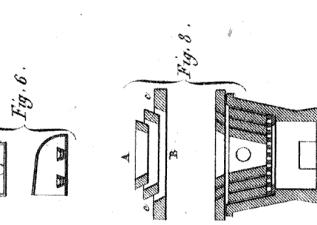


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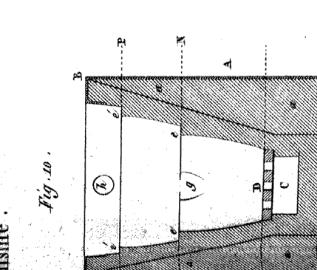


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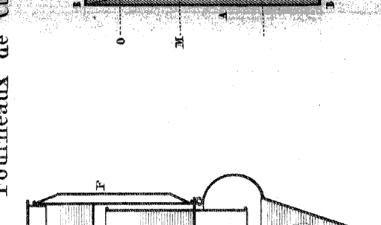


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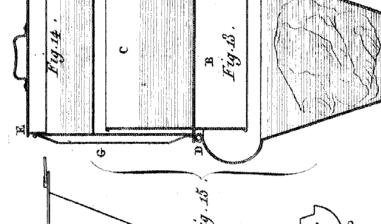


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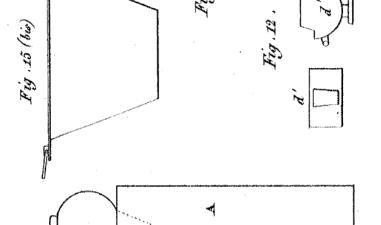


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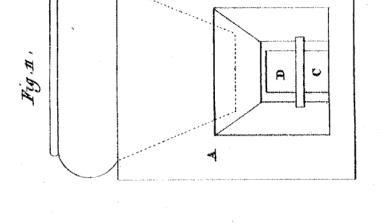


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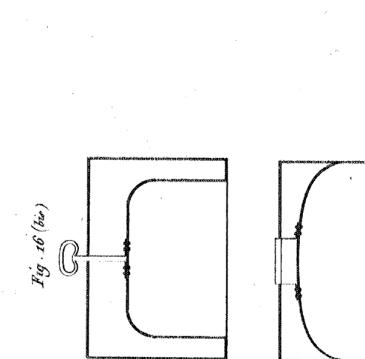


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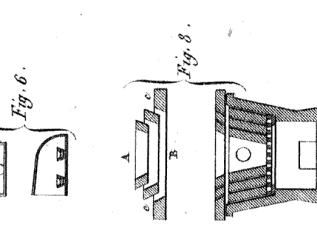


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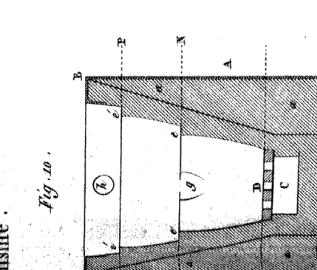


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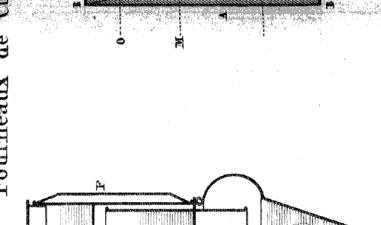


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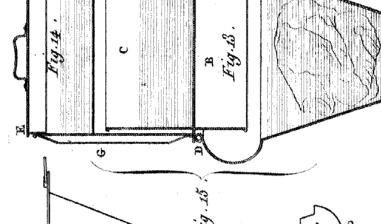


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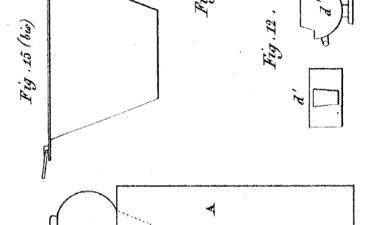


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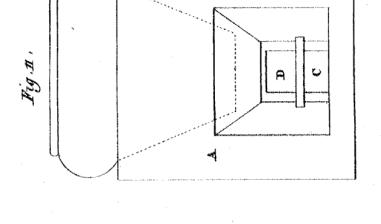


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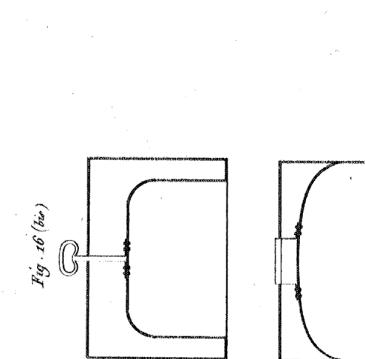


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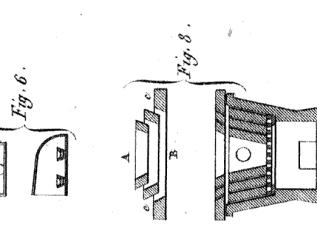


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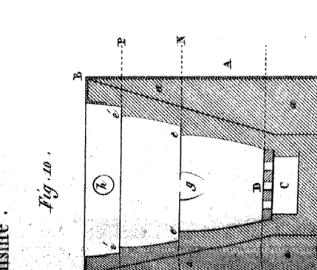


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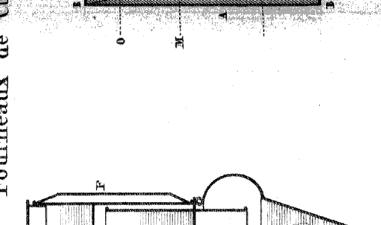


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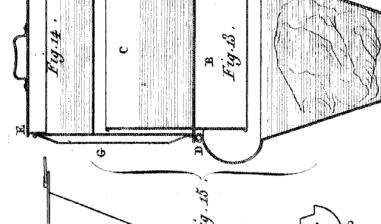


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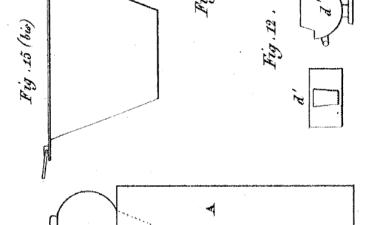


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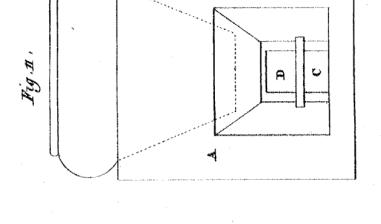


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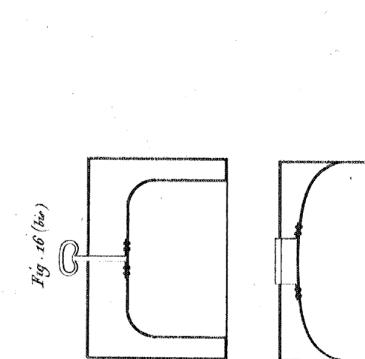


Fig. 97.

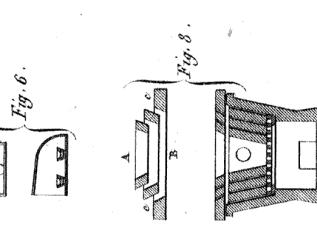


Fig. 98.

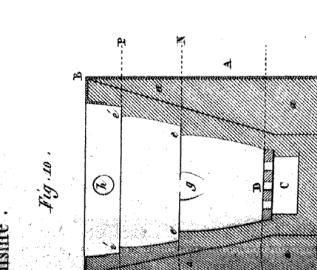


Fig. 99.

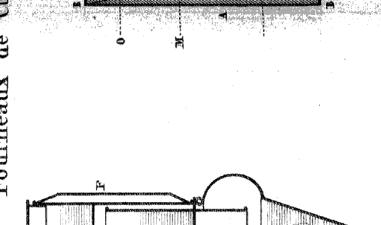


Fig. 100.

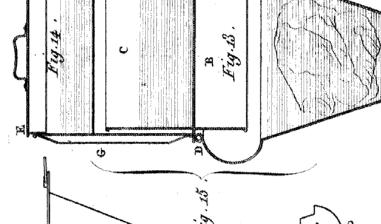


Fig. 101.

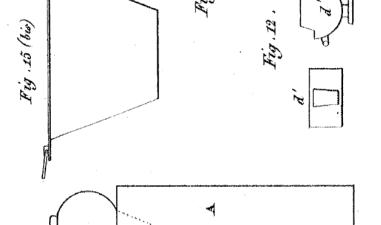


Fig. 102.

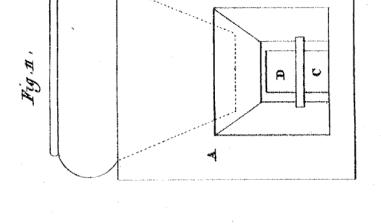


Fig. 103.

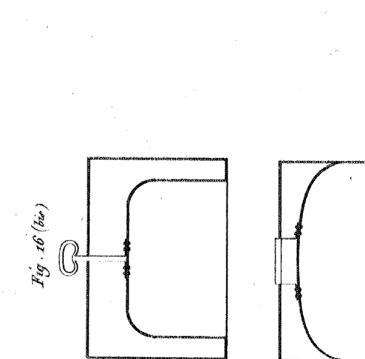


Fig. 104.

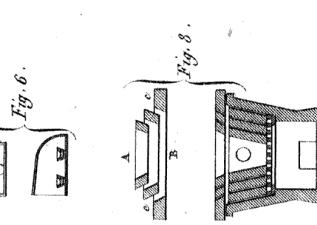


Fig. 105.

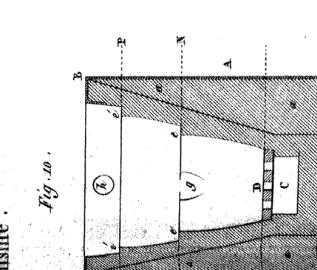
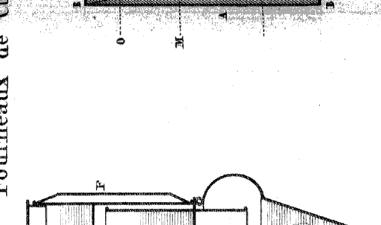
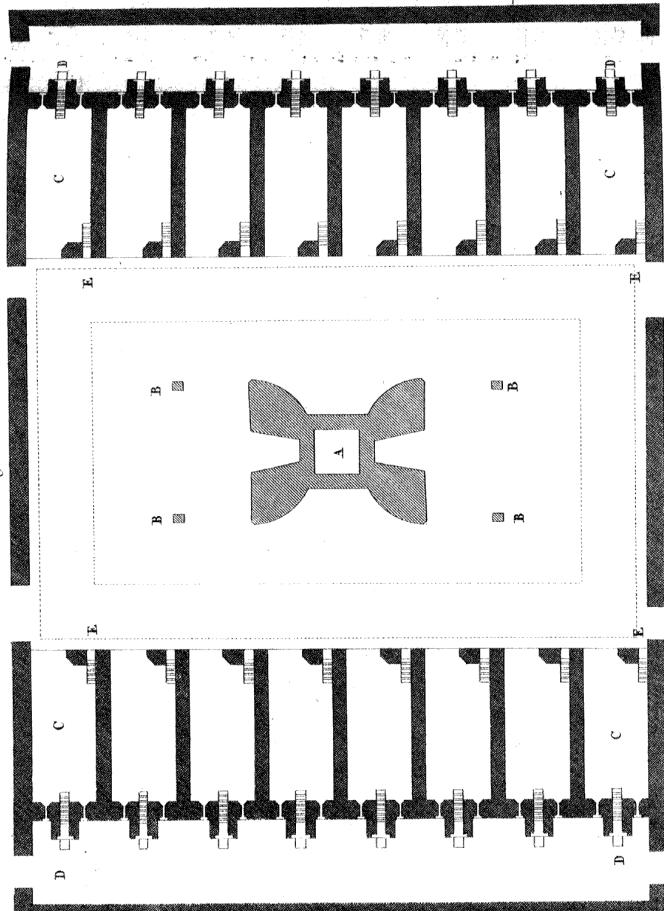


Fig. 106.

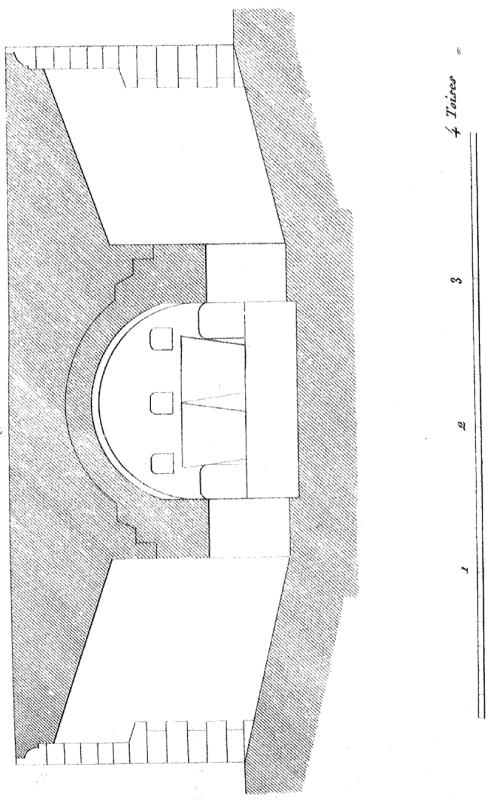


Plan général d'une Halle.

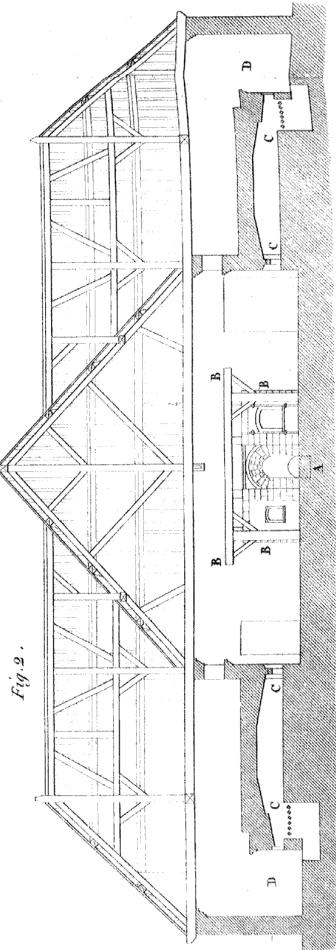
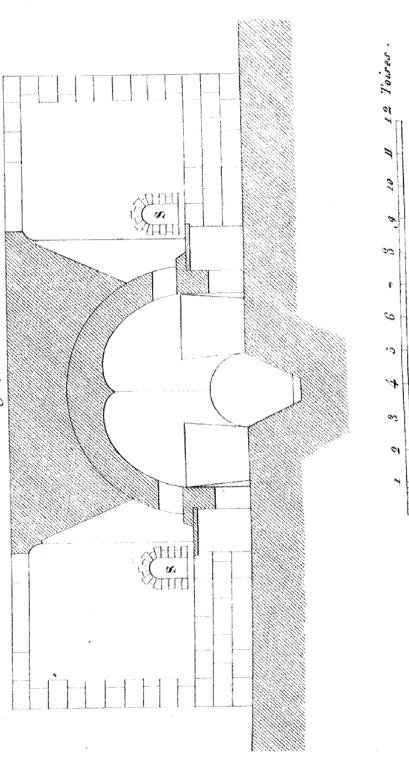
Fig. 1.



Coupe du Four par l'arête du milieu d'une tonnelle à l'autre.
Fig. 3.

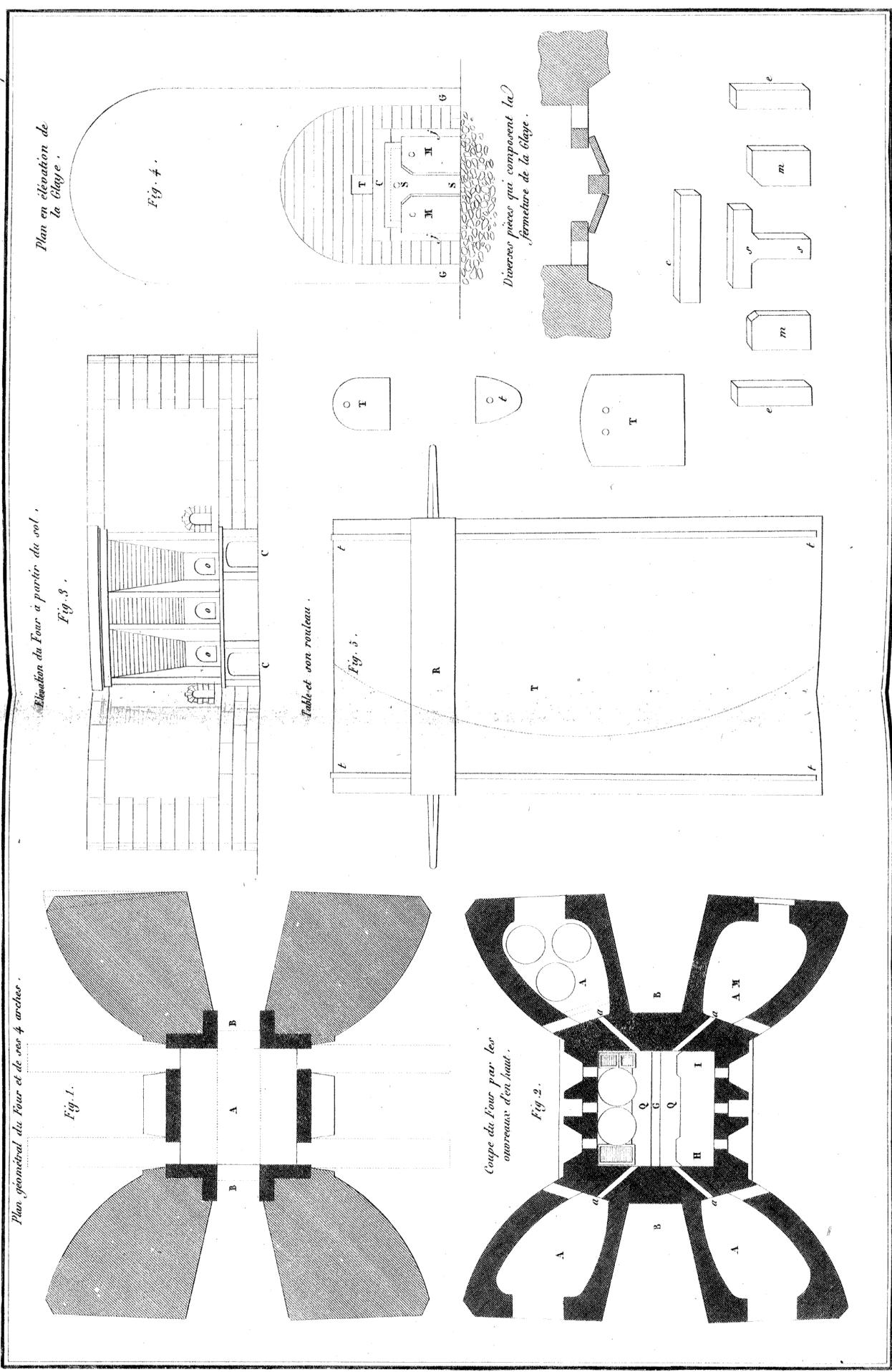


Coupe du Four par les ouvertures du milieu
Fig. 4.



Coupe transversale de la Halle.

Fig. 2.



Chariot à tenailles

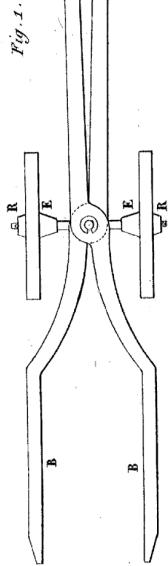


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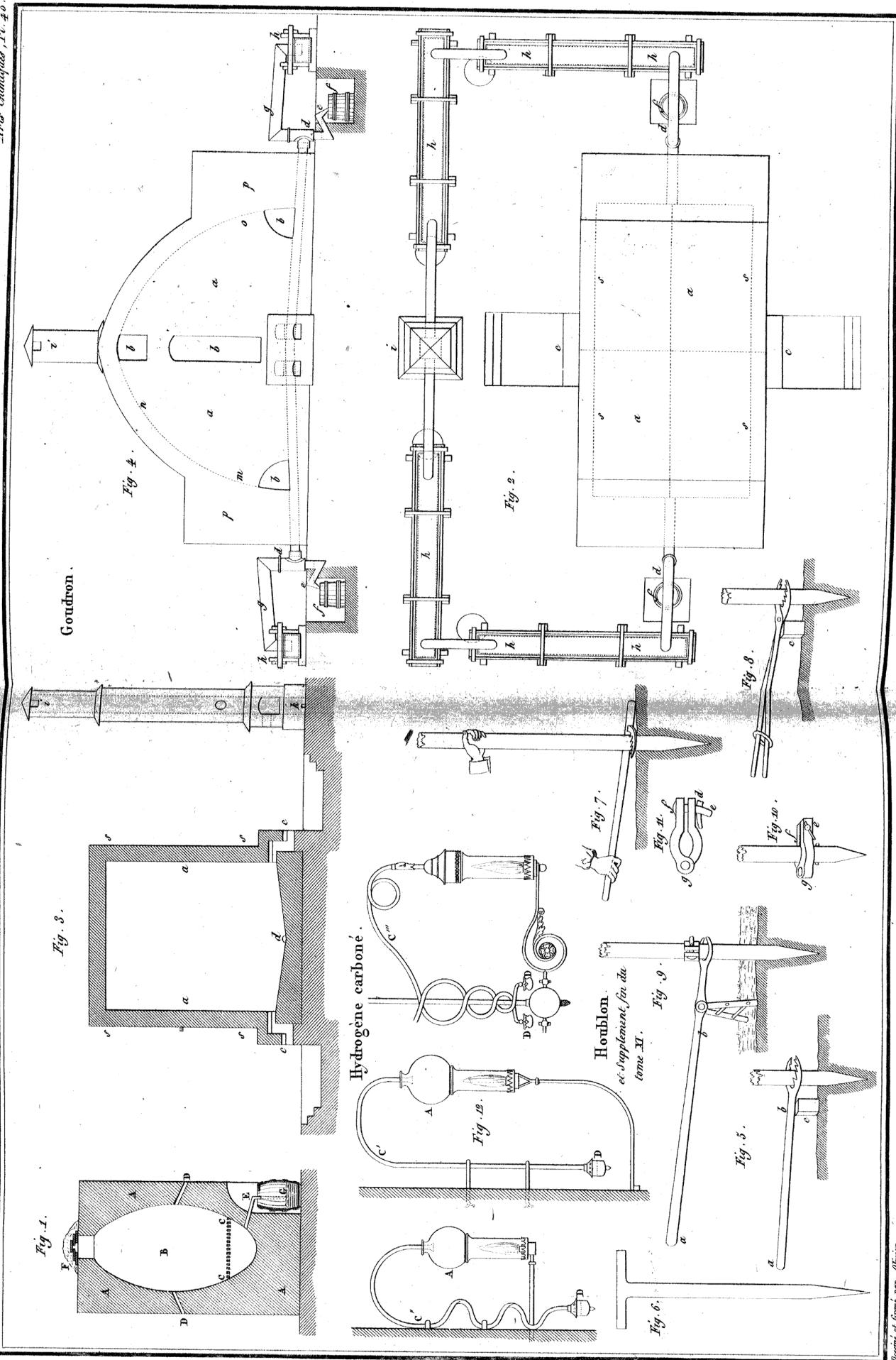
Fig. 274.

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Fig. 277.

Fig



Incubation artificielle

Fig. 7. *Aspergillus auricularis* (Berk. & Broome) Sacc.

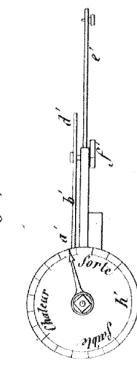
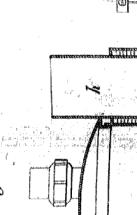


Fig. 6 et Fig. II.



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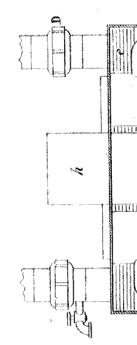


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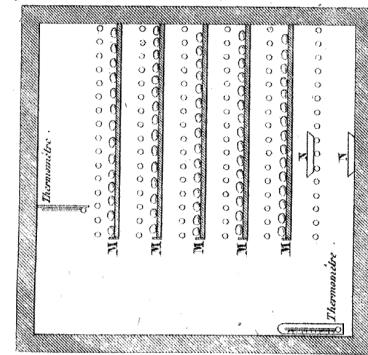
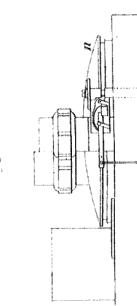
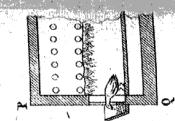
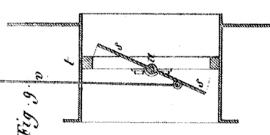
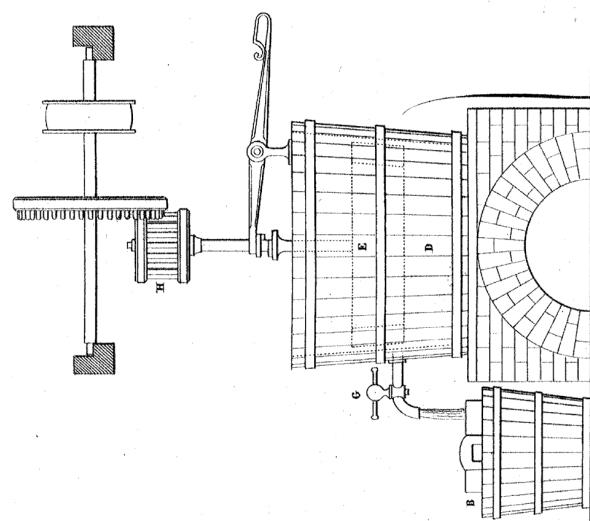


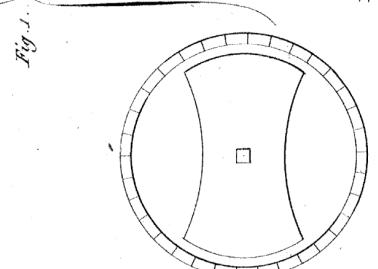
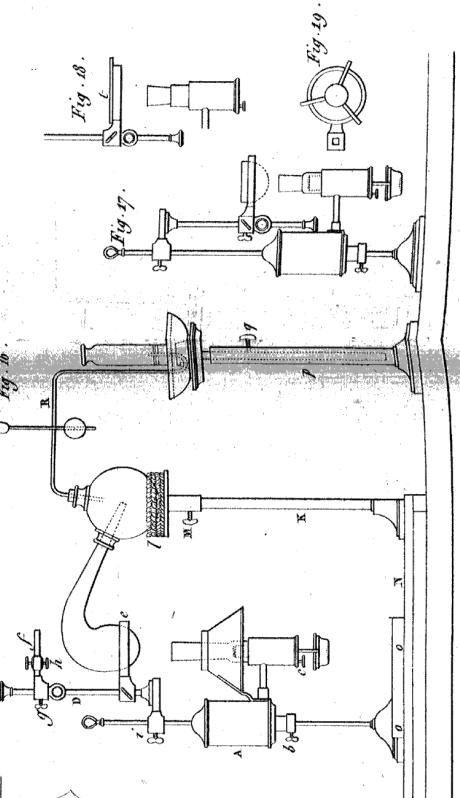
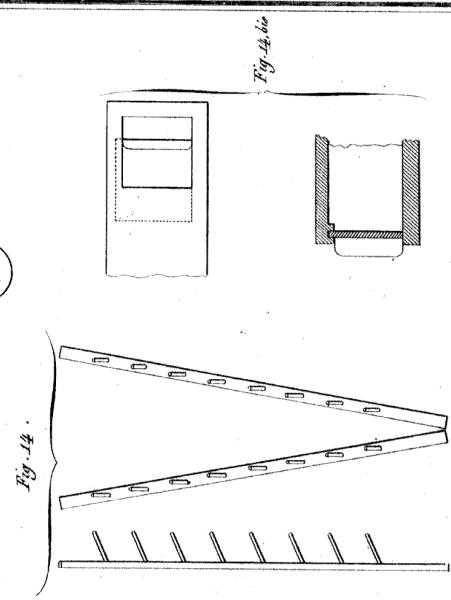
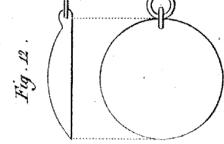
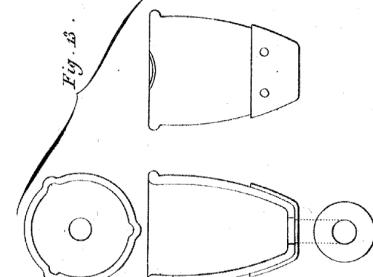
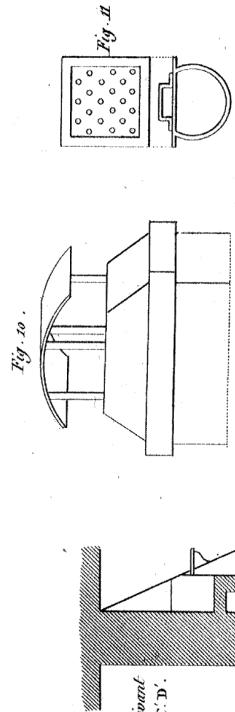
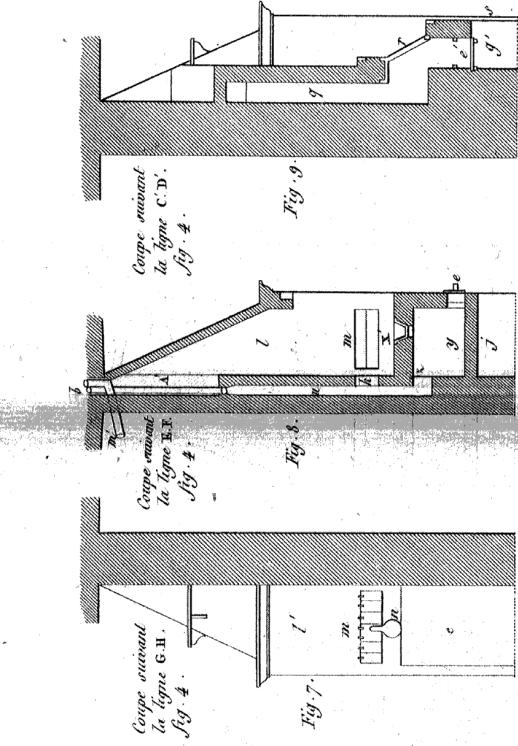
Fig. 10.

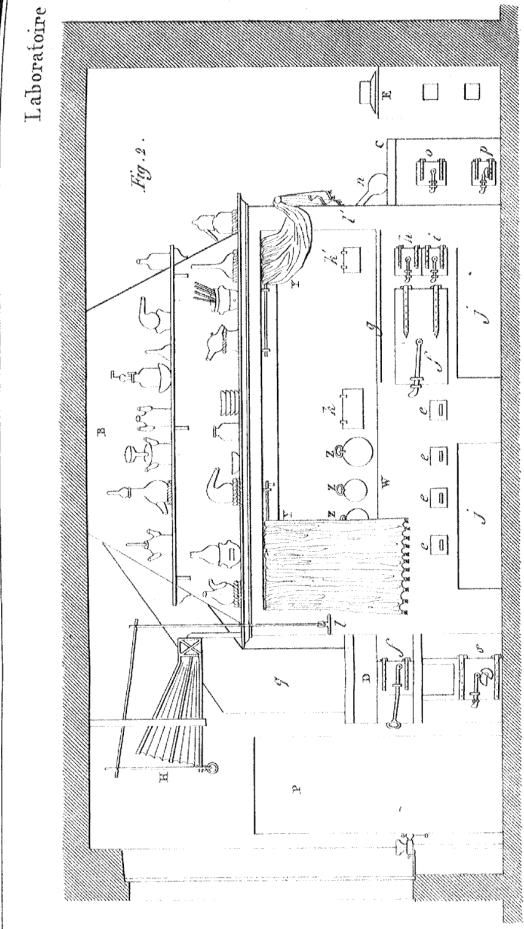


Moulin Pour broyer l'Indigo.



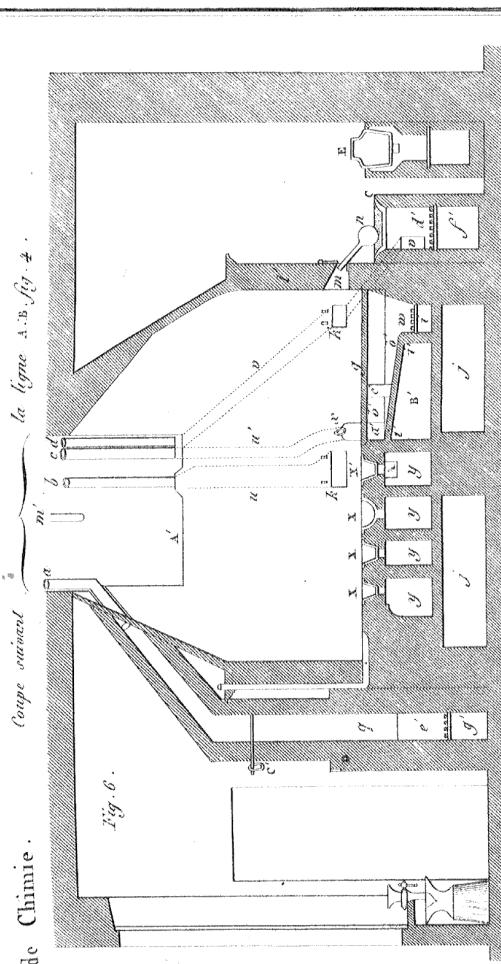
Laboratoire de Chimie.



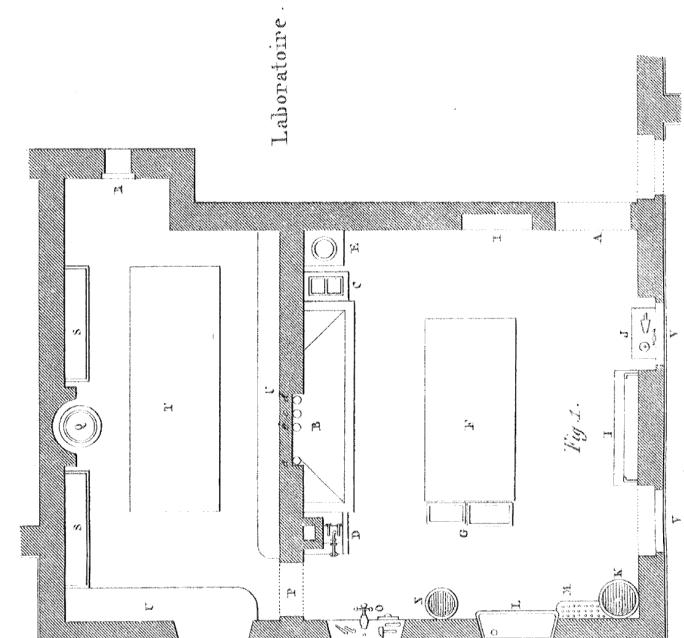


Laboratoire de Chimie.

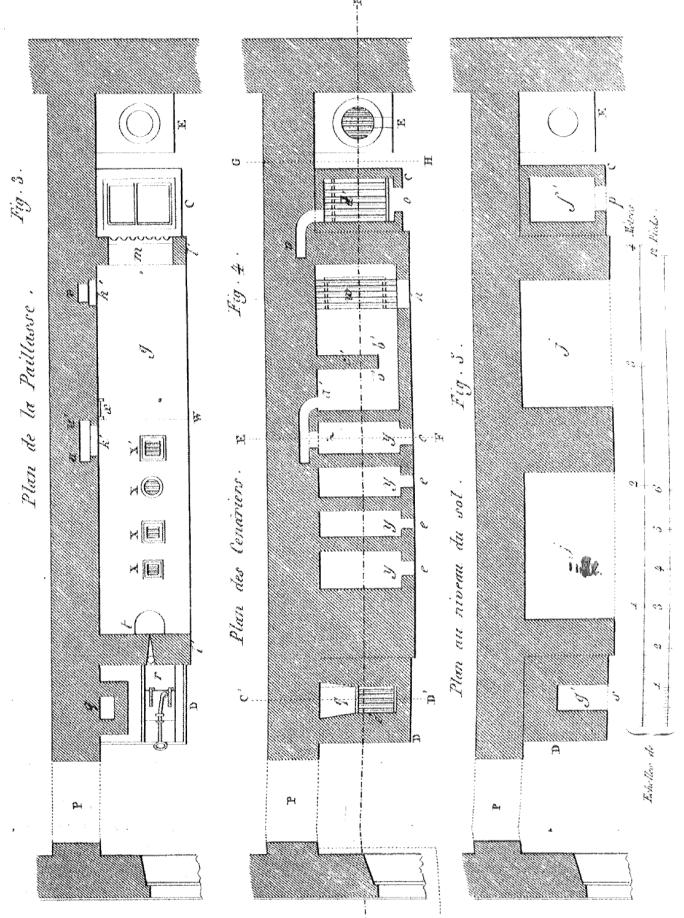
Coupe suivant la ligne A-B, Fig. 2.



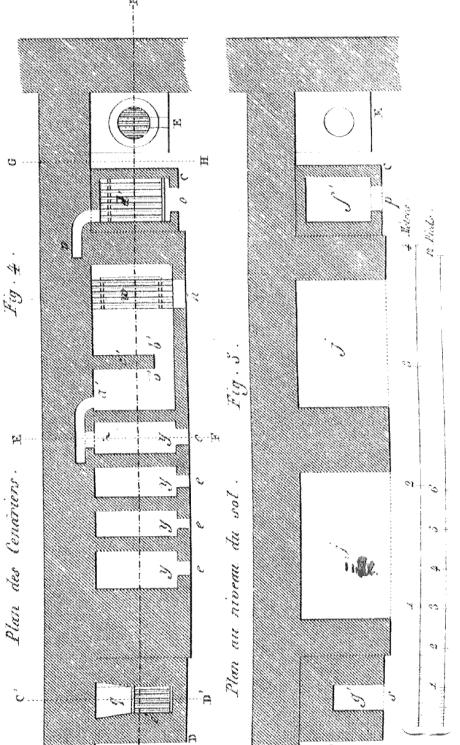
Coupe suivant la ligne A-B, Fig. 2.



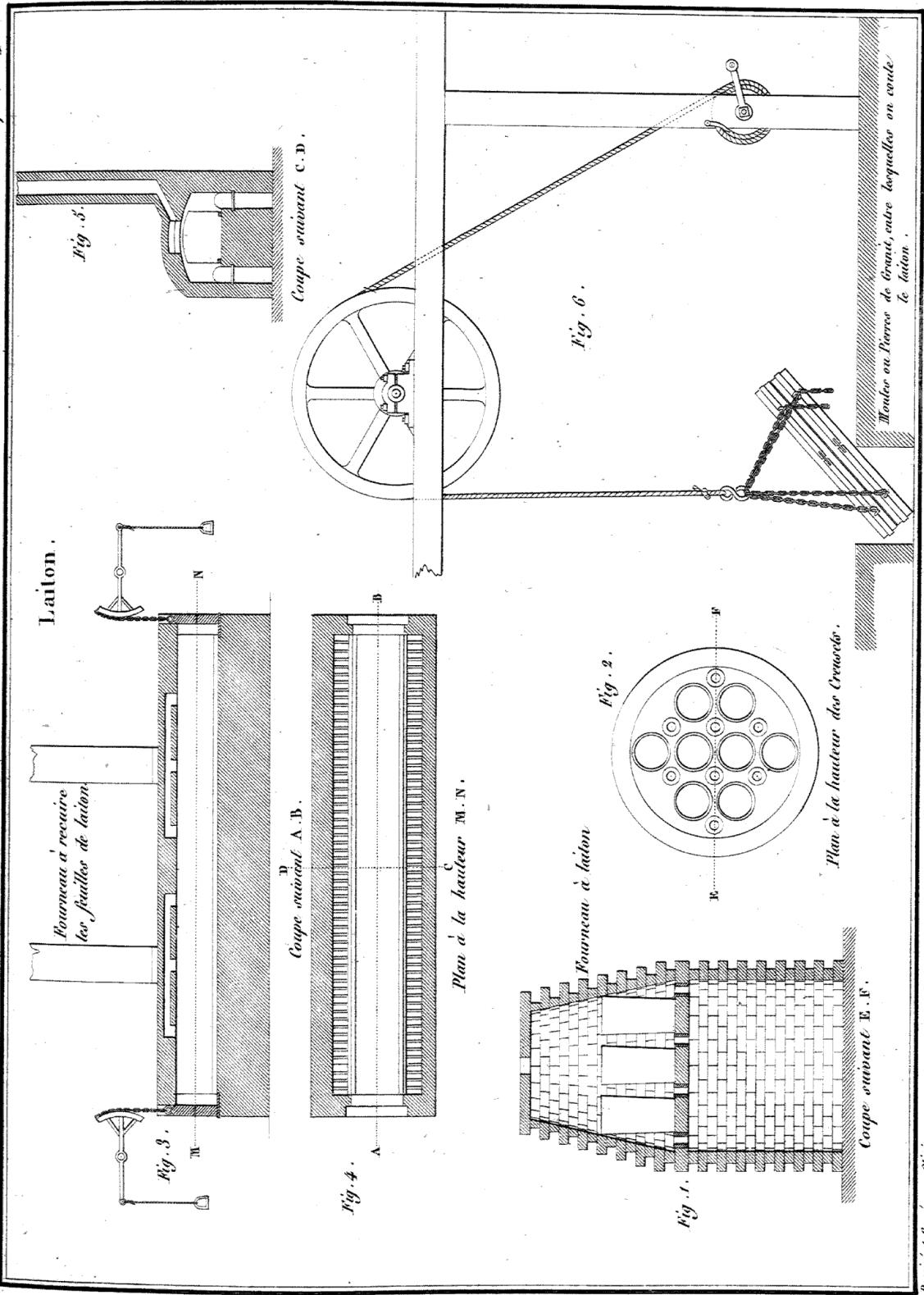
Laboratoire.

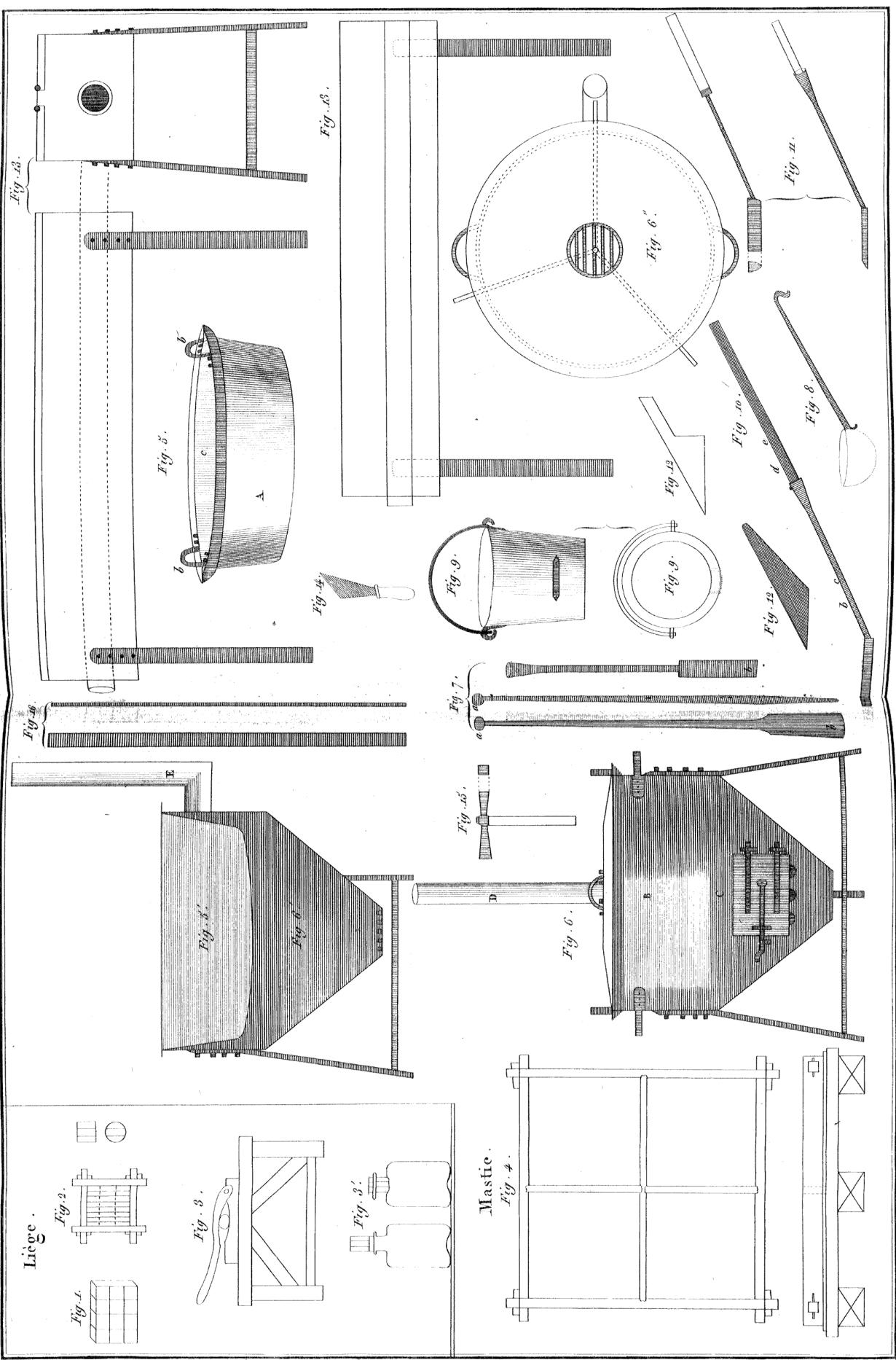


Plan des verreries. E. Fig. 3.



Plan des verreries. E. Fig. 2.





Orseille.



Fig. 3.

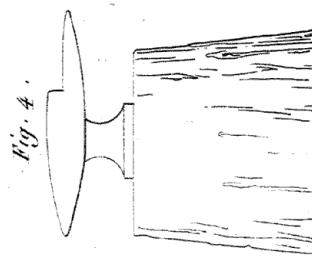


Fig. 4.

Manganeuse.

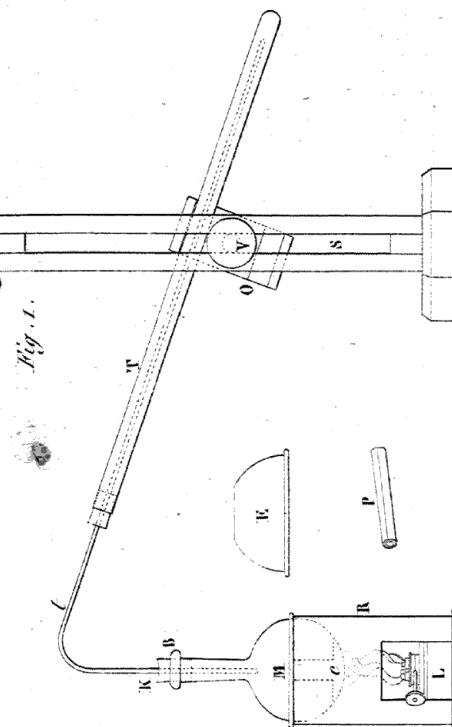


Fig. 1.

Nitrate d'argent fondu.

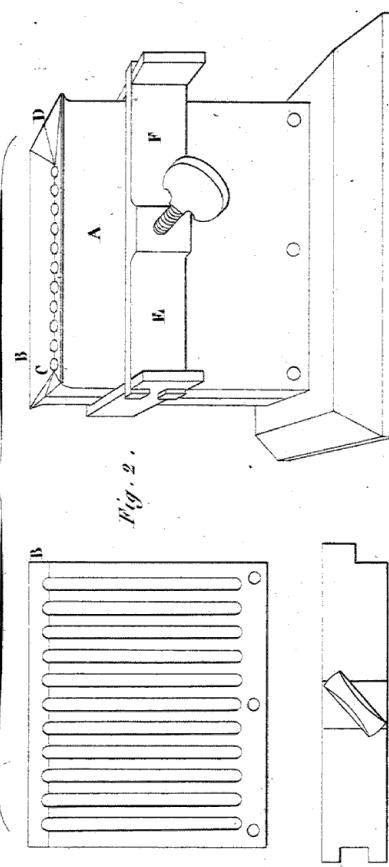


Fig. 2.

Fig. 1. Coupe.

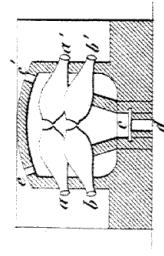


Fig. 2. Plan.

Fig. 2. Plan.

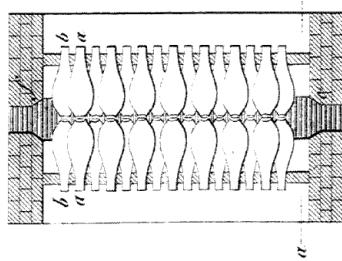


Fig. 3. Elevation.

Fig. 3. Elevation.

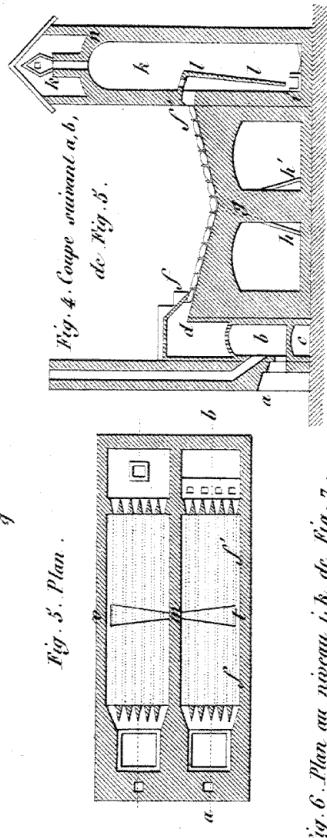
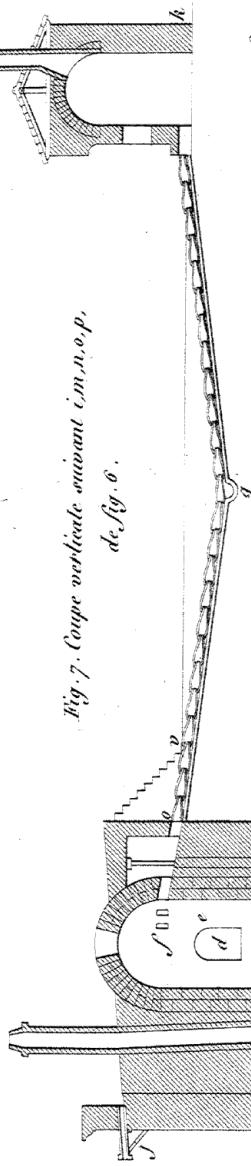
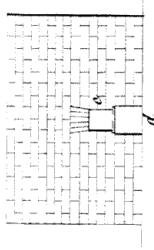
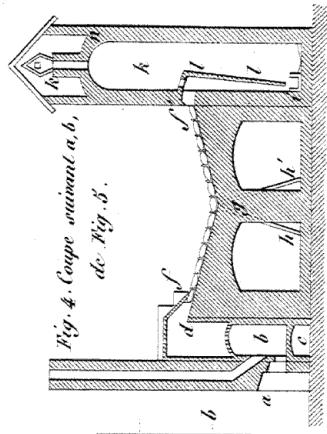
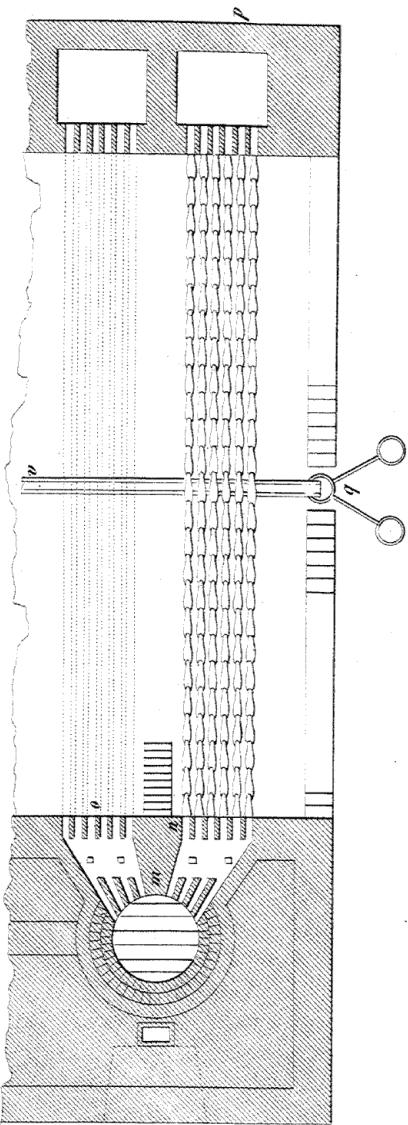


Fig. 6. Plan au niveau j-k, de fig. 7.



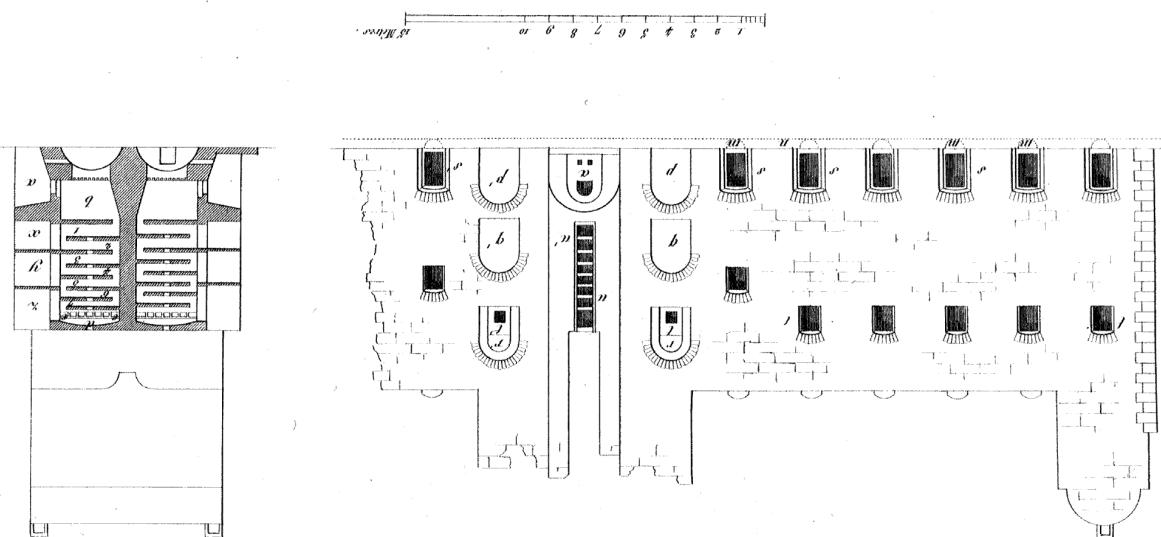


Fig. 3. Plan d'ensemble et coupe axiale du plan Fig. 2.

Fig. 4. Coupe axiale

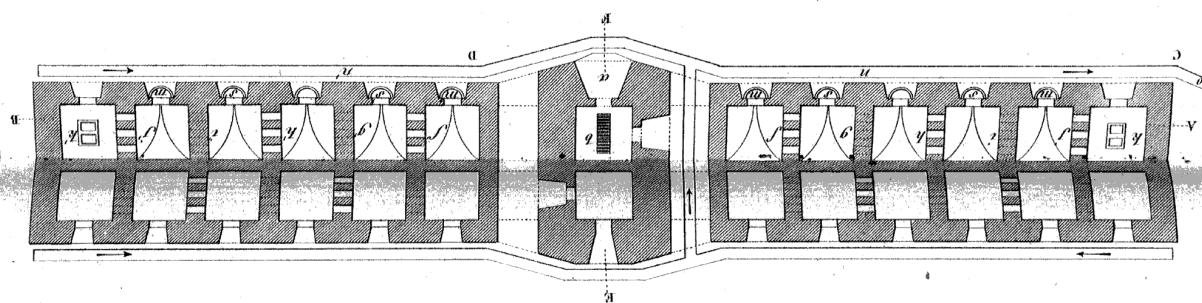


Fig. 5. Plan schématique de l'un des appareils distillateurs dont on compose l'ensemble de distillation en carrousel.

Fig. 5. Plan schématique de l'un des appareils distillateurs dont on compose l'ensemble de distillation en carrousel.

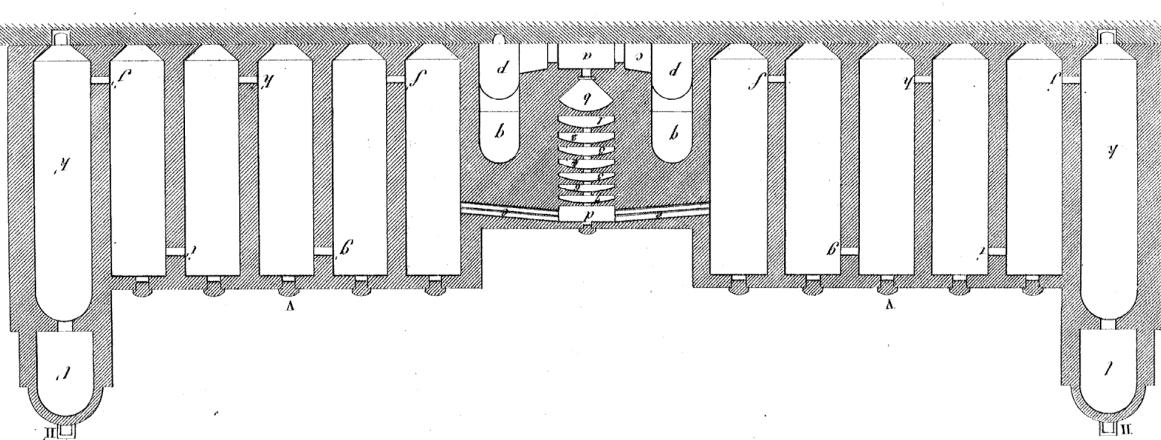
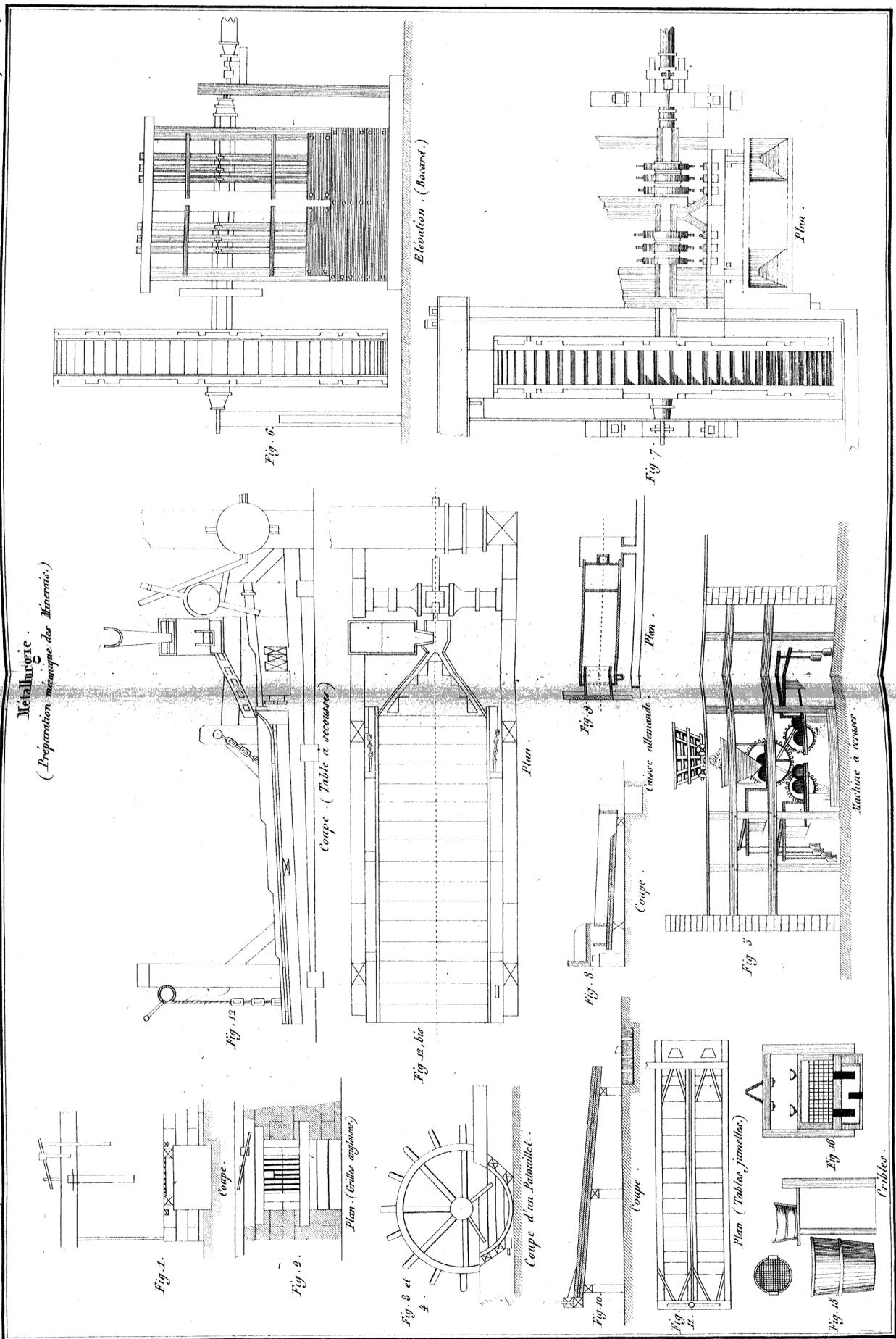


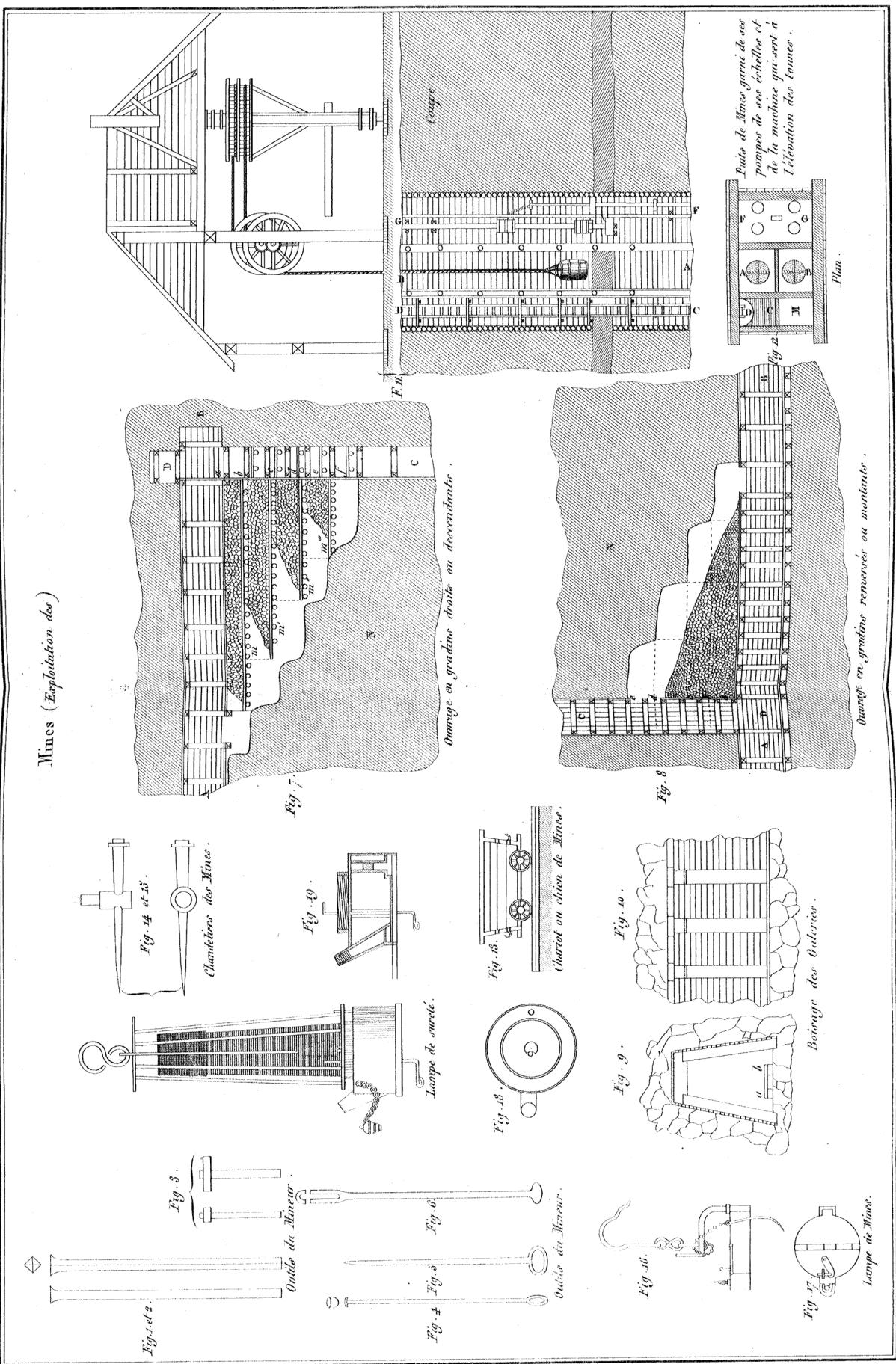
Fig. 6. Coupe axiale détaillée suivant A-B du plan Fig. 2.

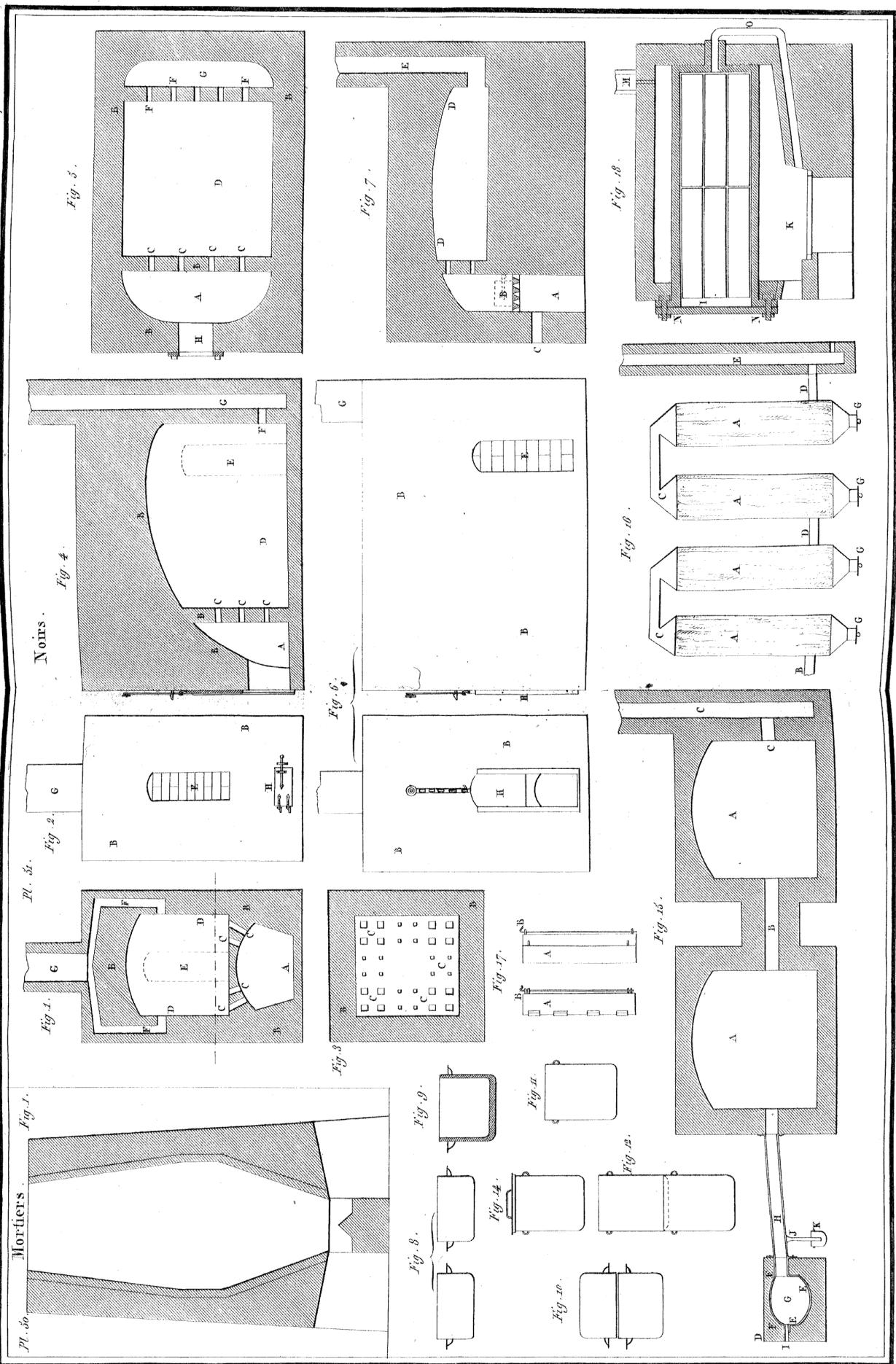
Pratiquement du Mercure

Métaux et Minéraux



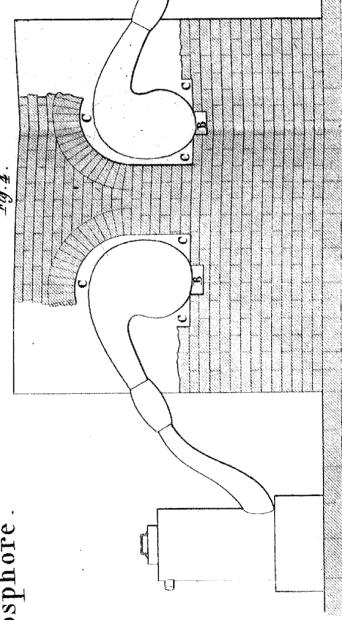
Mines (*Exploitation des*)





Phosphore.

Coupe sur la ligne A.B.



Potassium

Fig. 2.

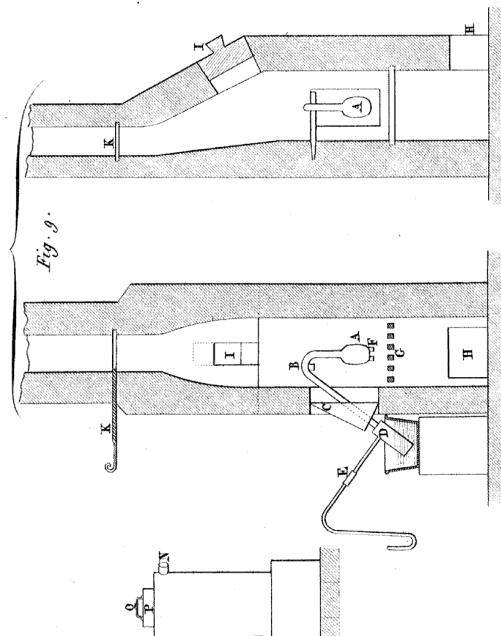
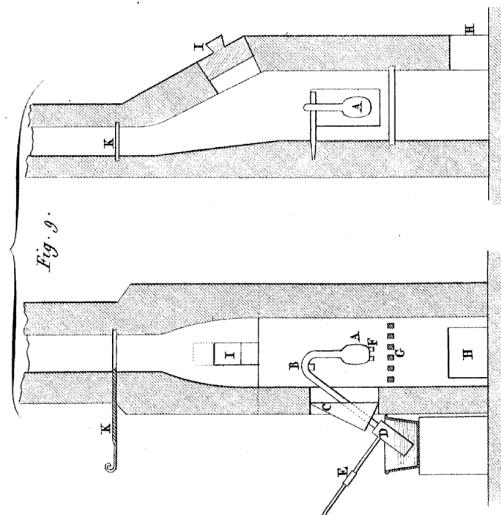


Fig. 3.



Plan.

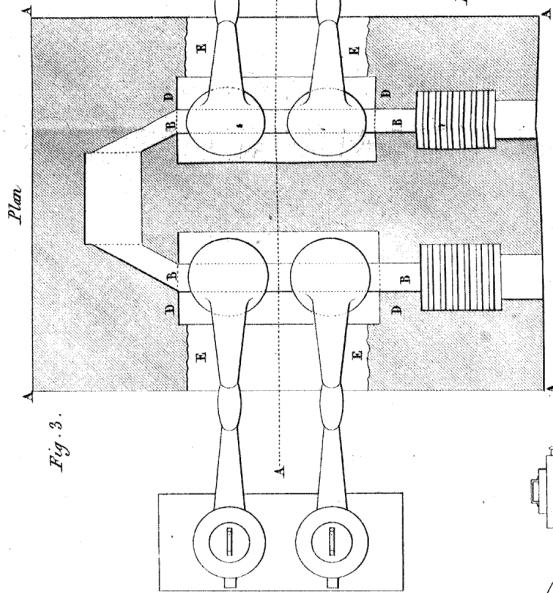


Fig. 3.

Potassium

Fig. 4.

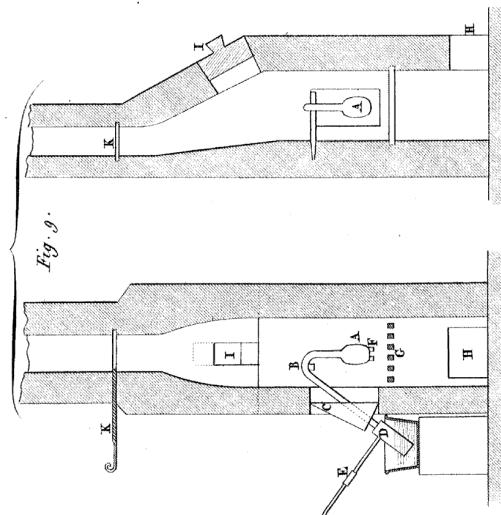


Fig. 5.

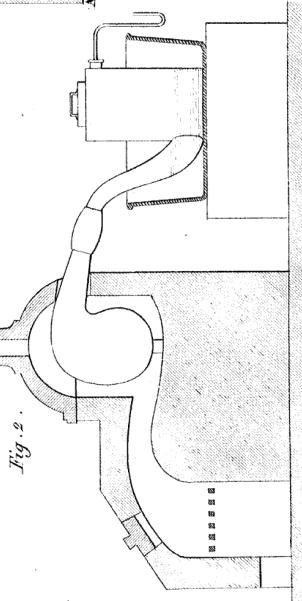
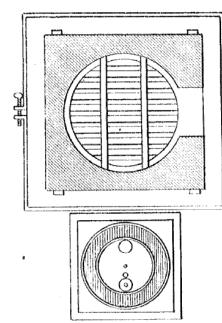
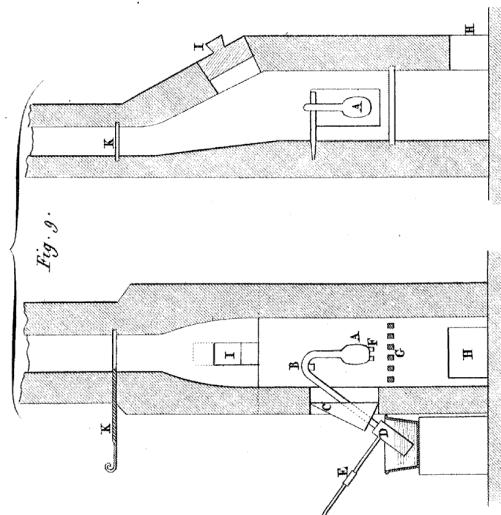


Fig. 7.

Fig. 8.

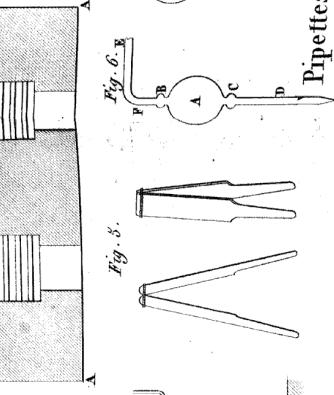
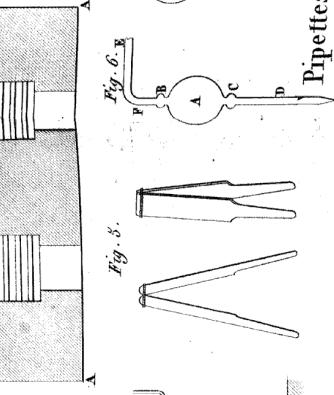


Fig. 9.



Pipettes

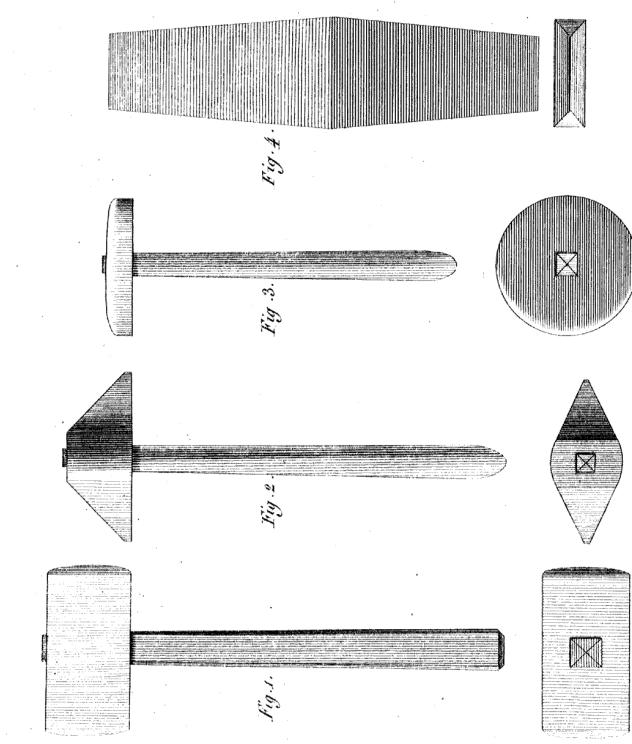


Fig. 1. Fig. 2. Fig. 3. Fig. 4. Fig. 5. Fig. 6. Fig. 7. Fig. 8. Fig. 9. Fig. 10.

Modèle à tailler et polir les ayantes.

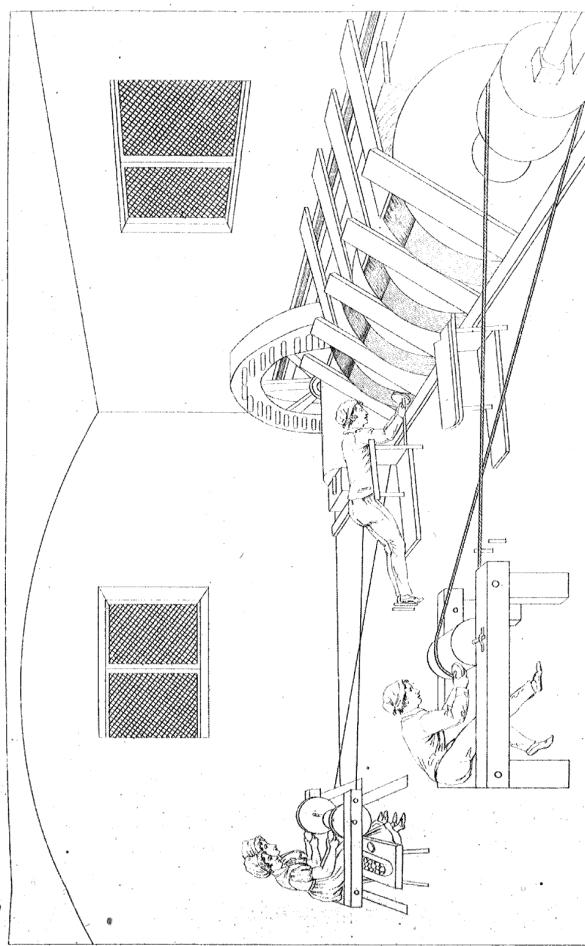


Fig. 8.

Modèle à tailler et polir les ayantes.

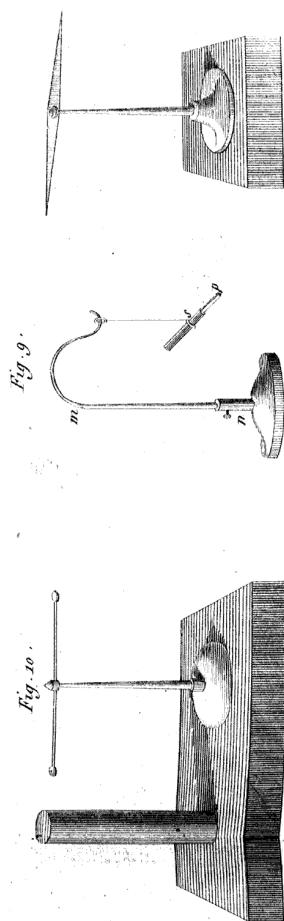
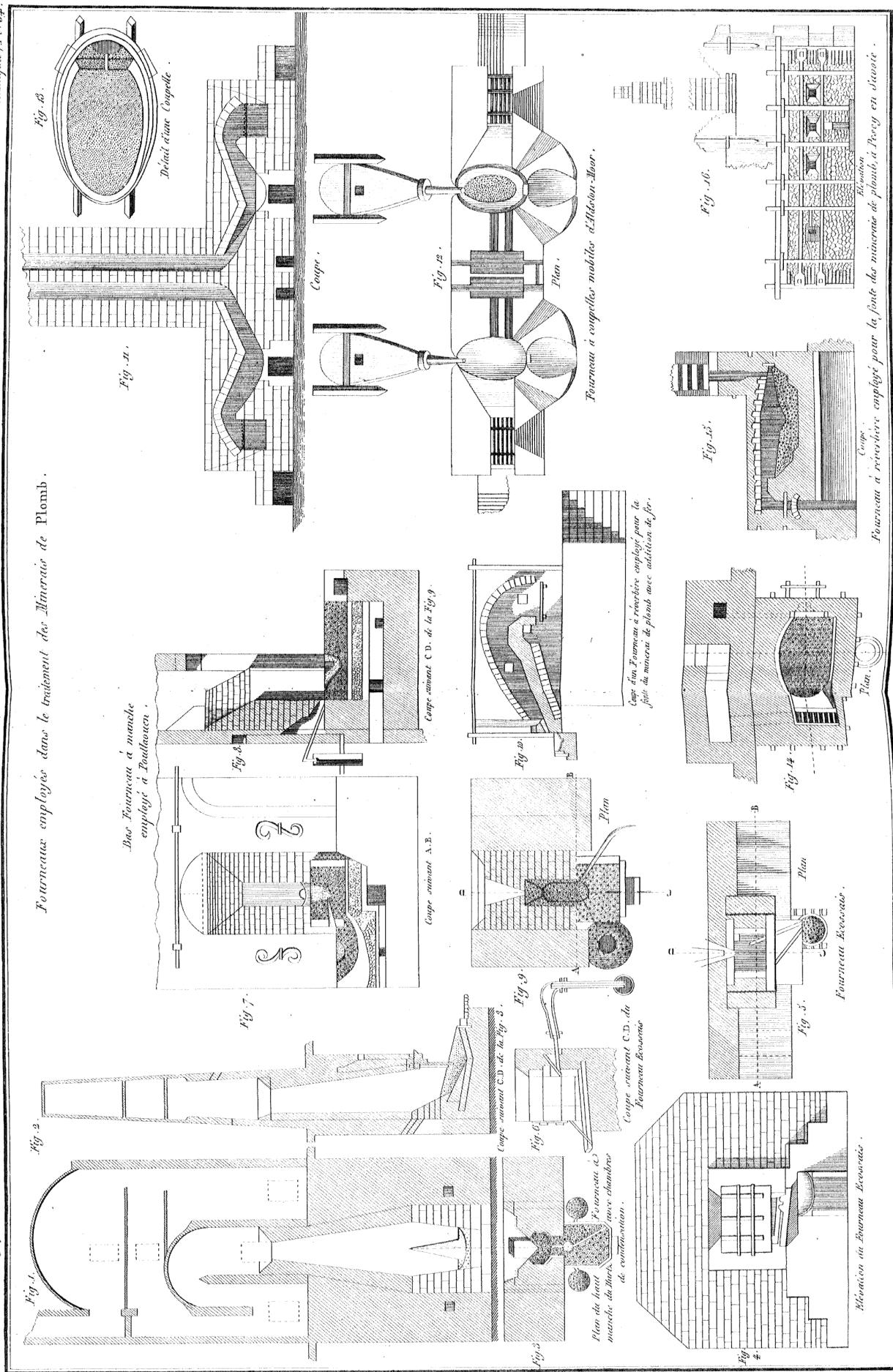


Fig. 9.

Fig. 10.



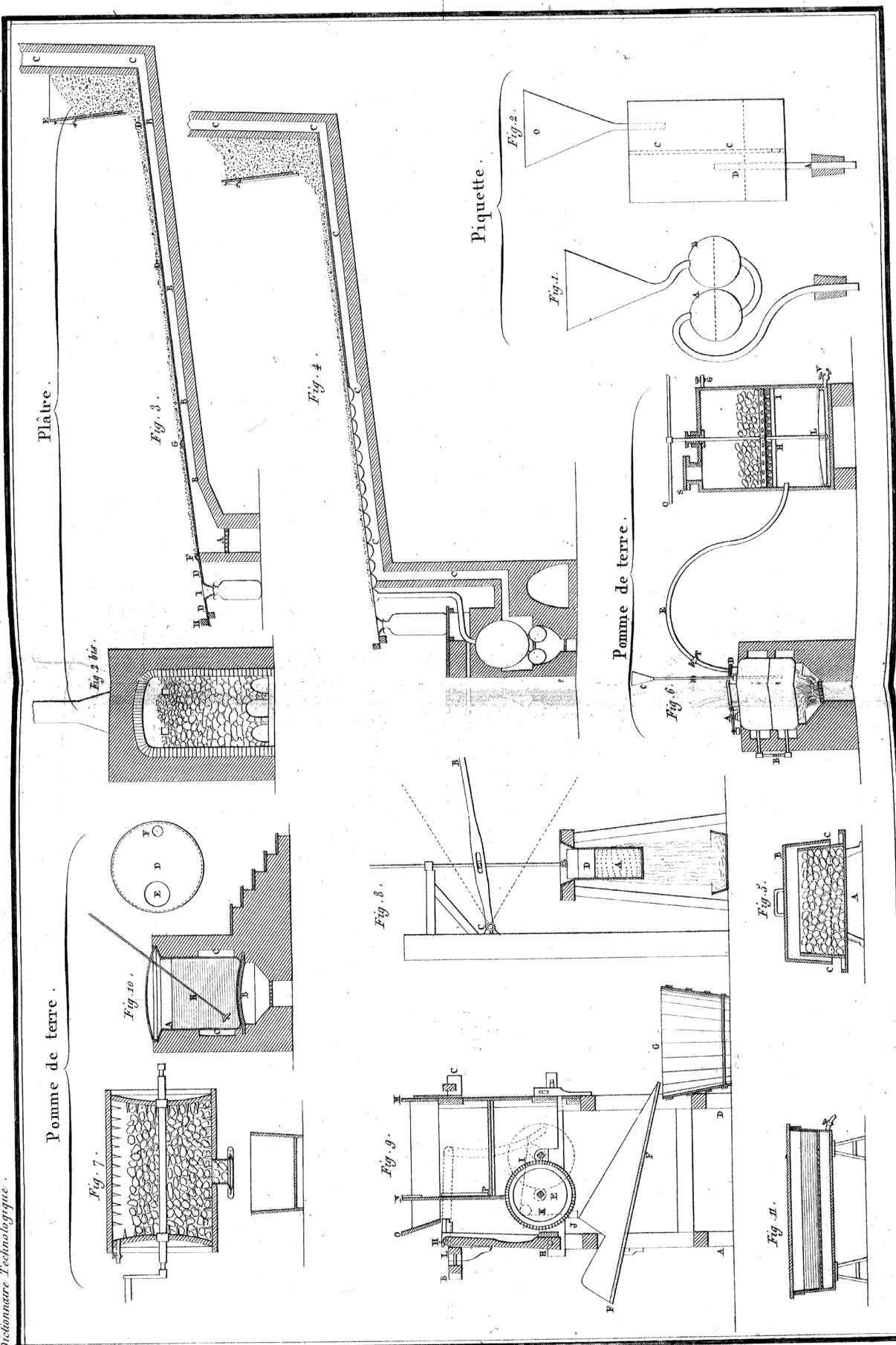


Fig. 2. Peinture vitrifiable.

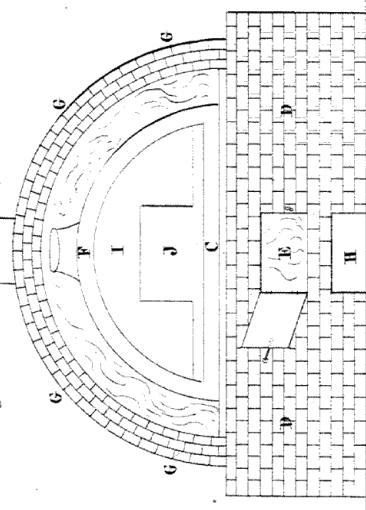


Fig. 3. Peinture vitrifiable.

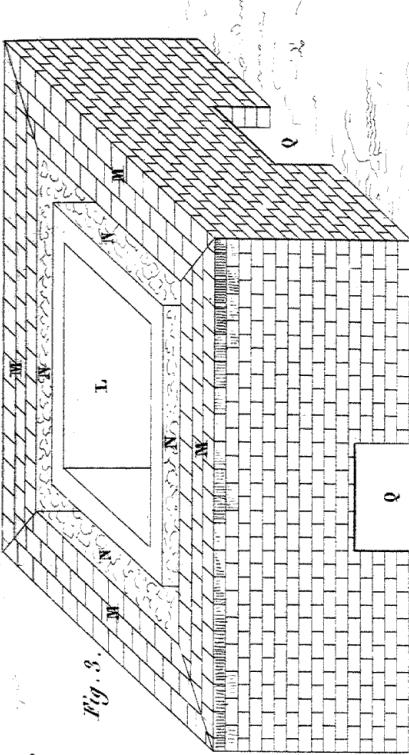


Fig. 4.

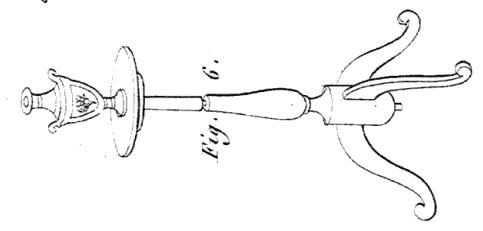


Fig. 5.

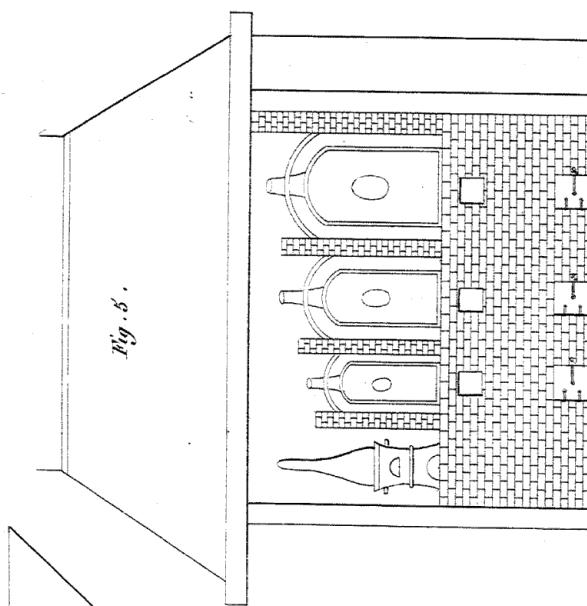
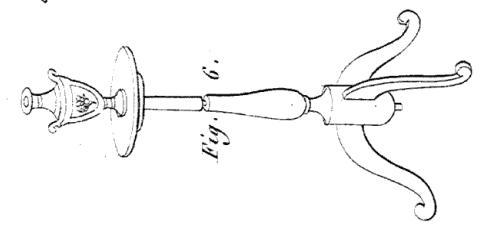
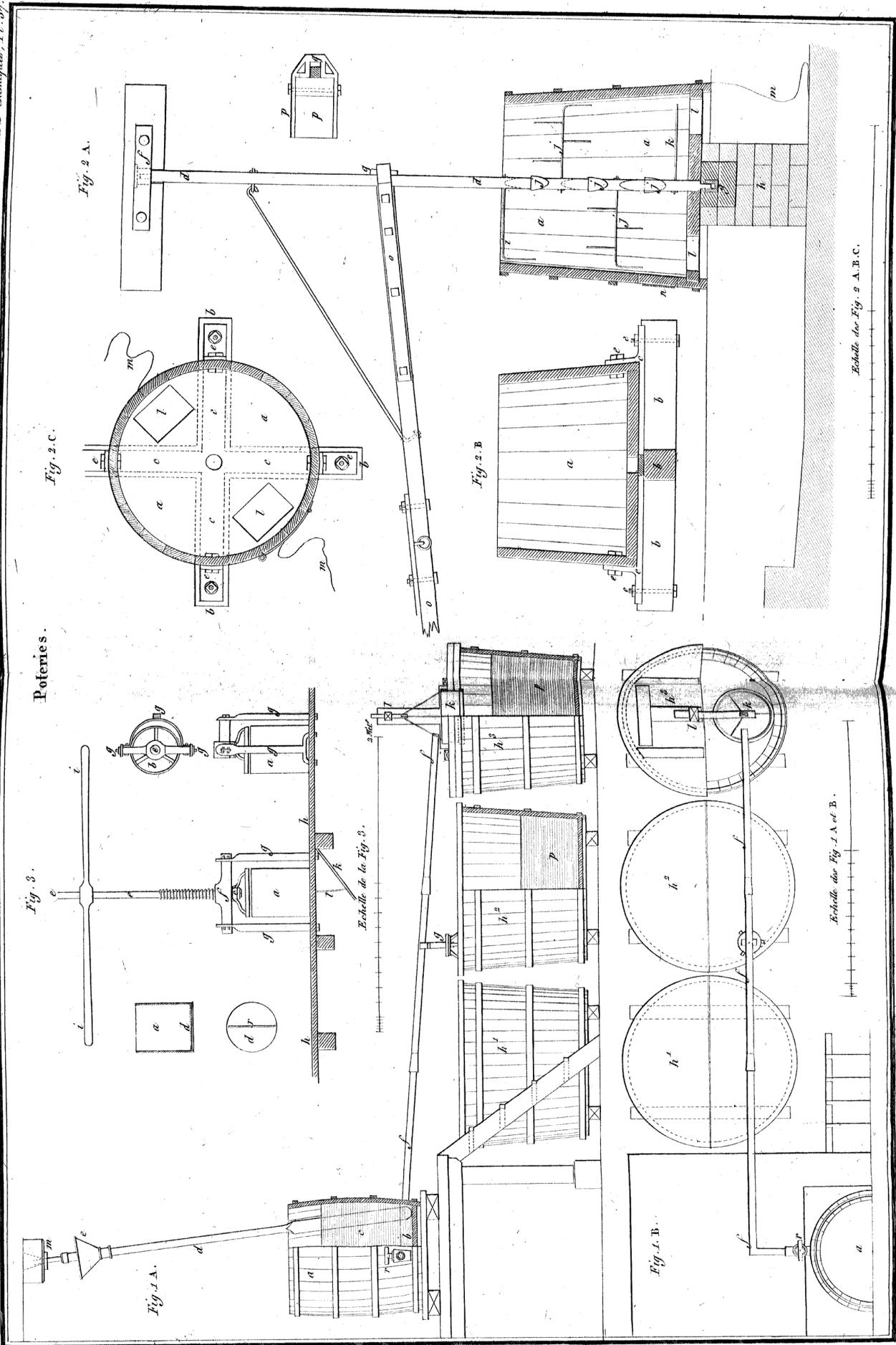
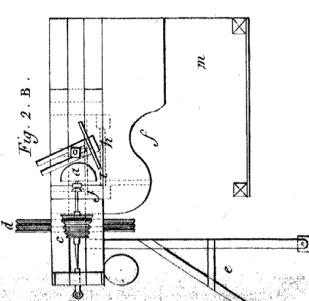
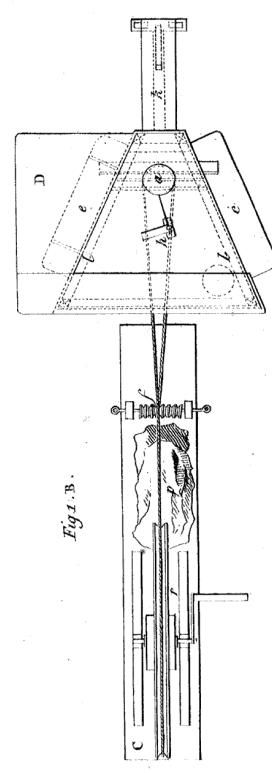
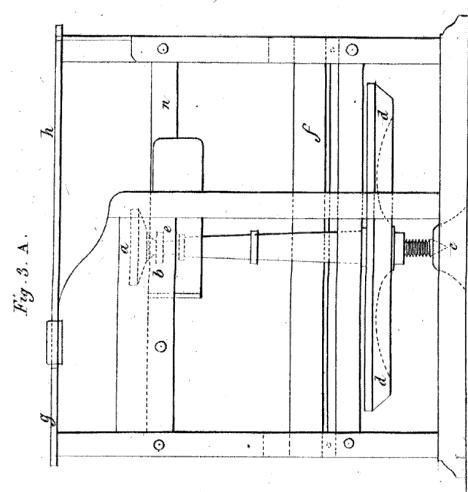
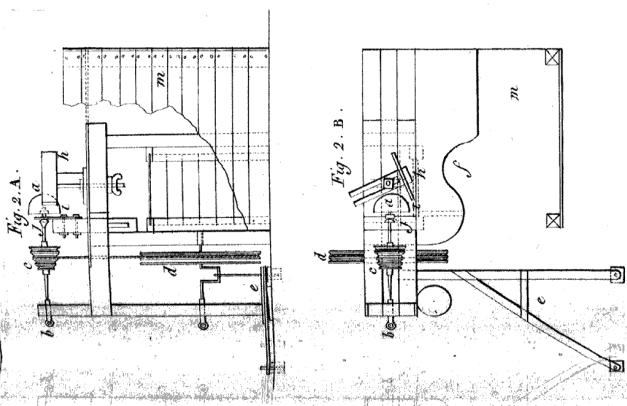
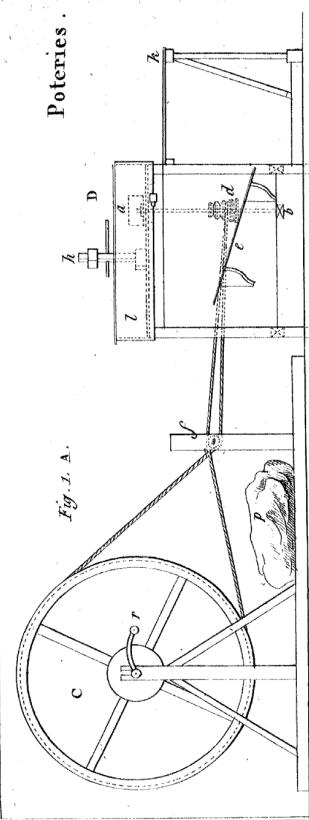


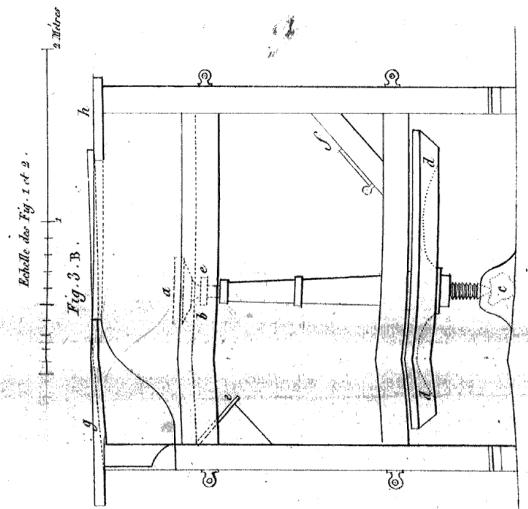
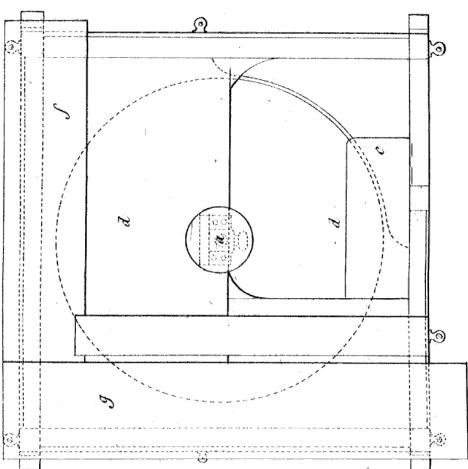
Fig. 6.



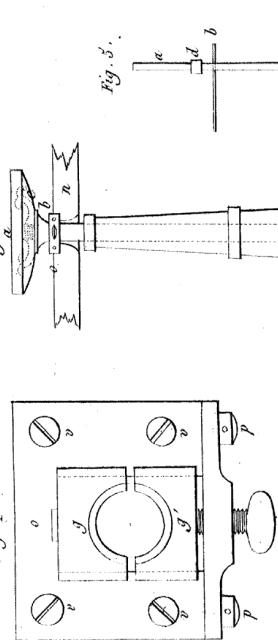
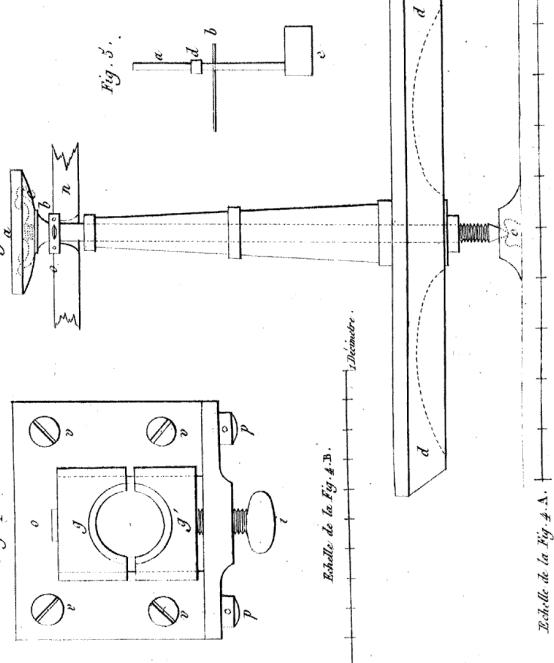




Échelle de Fig. 3.

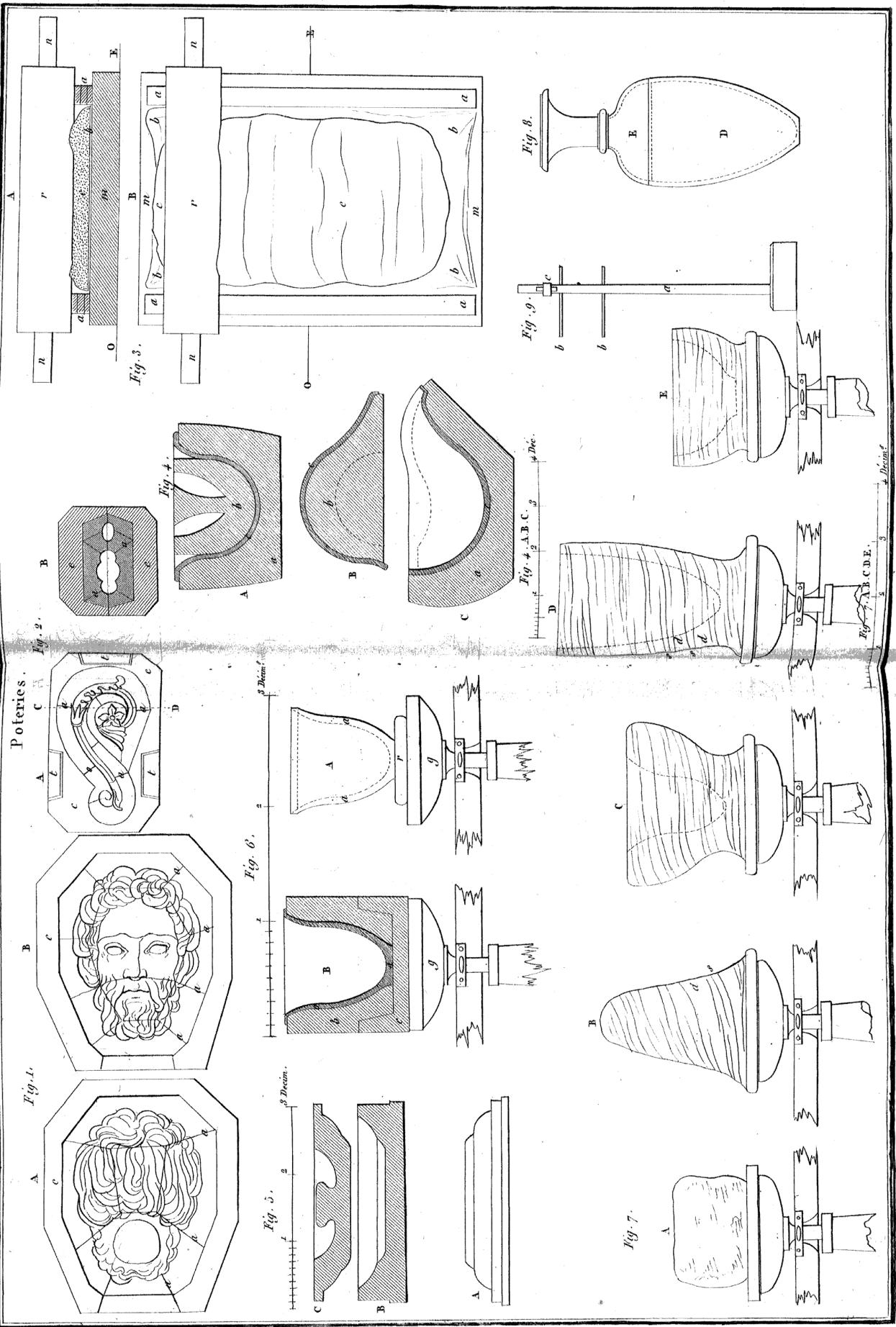


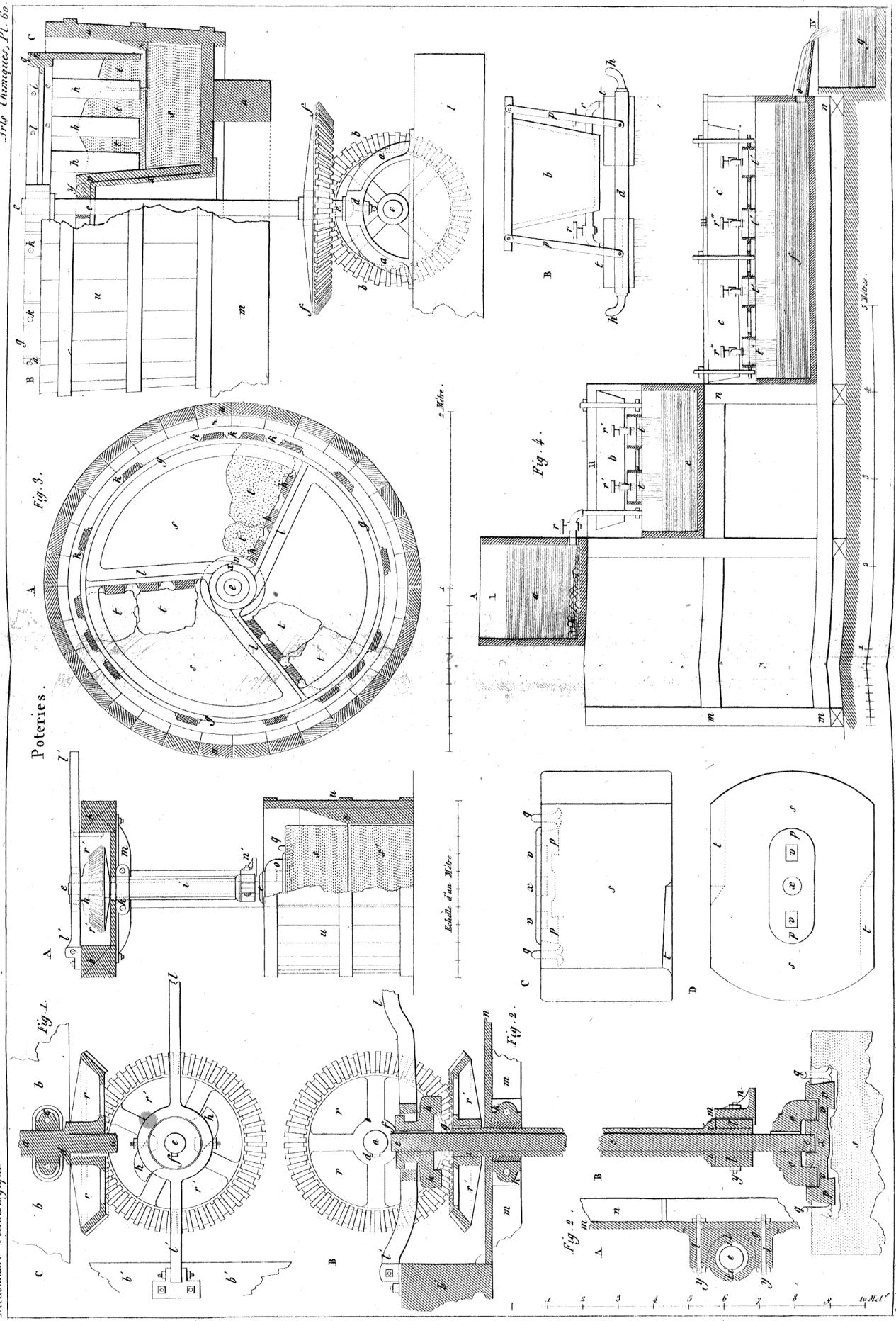
Échelle de Fig. 1 et 2.

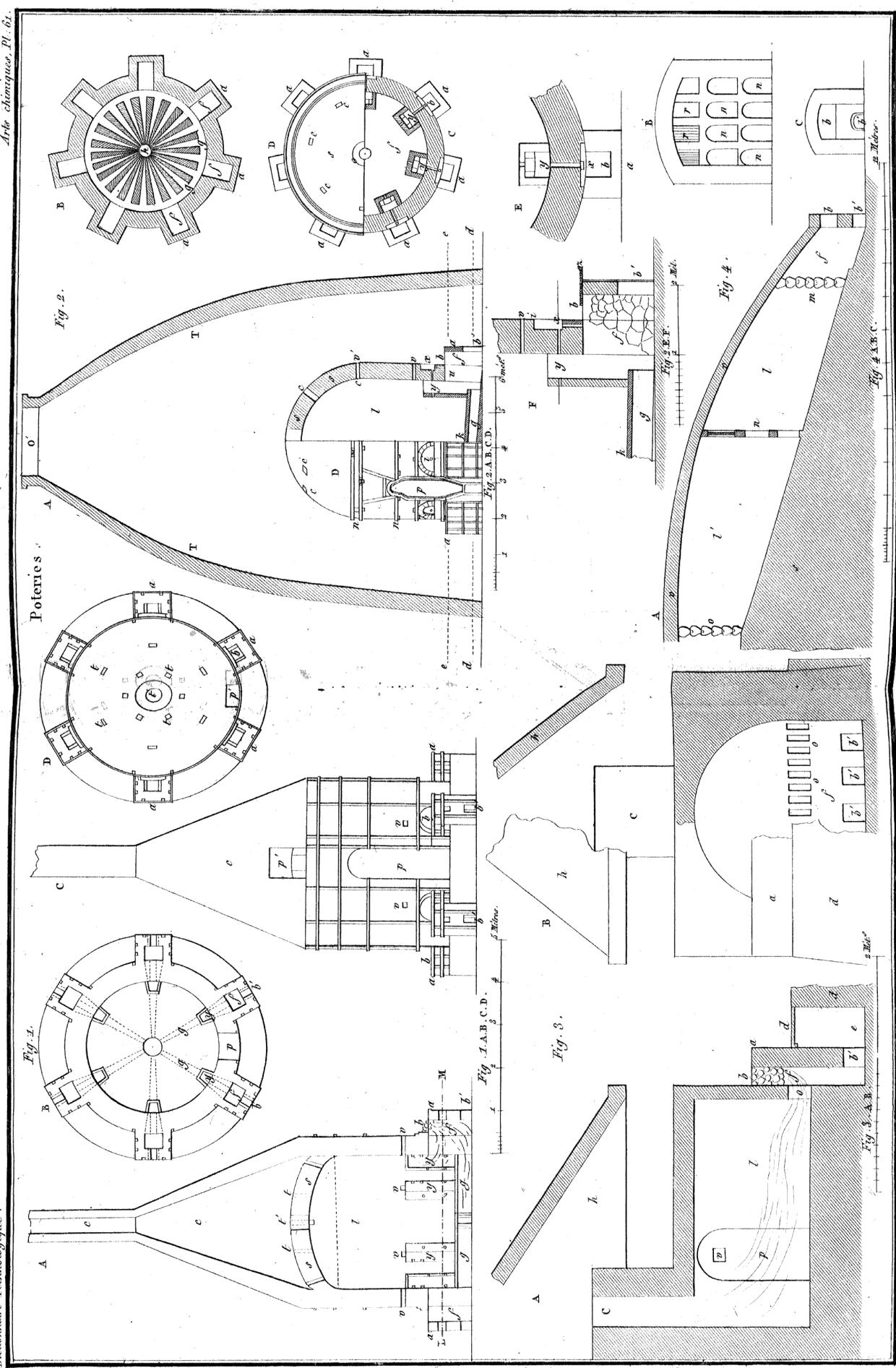


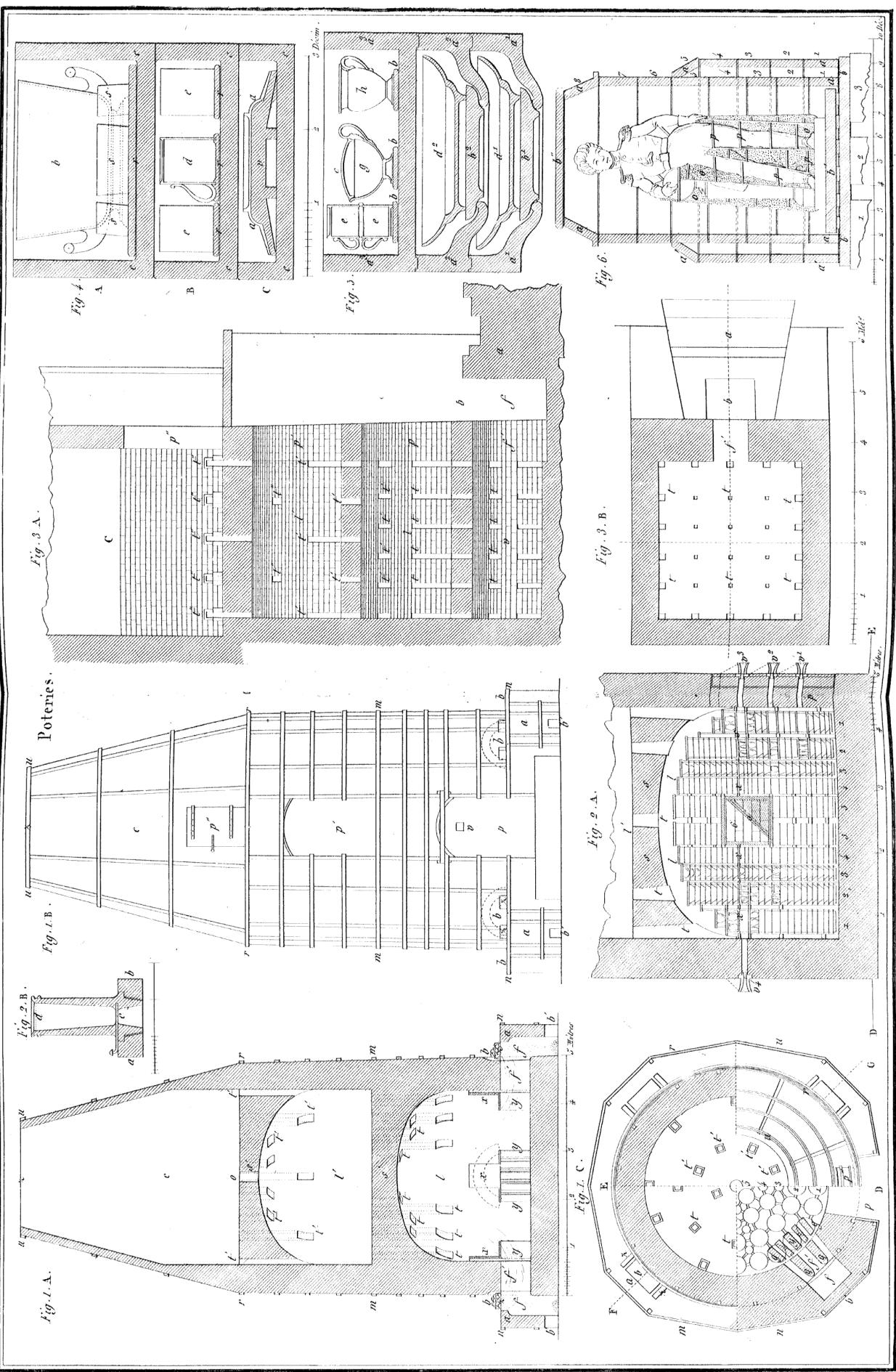
Échelle de la Fig. 4. B.

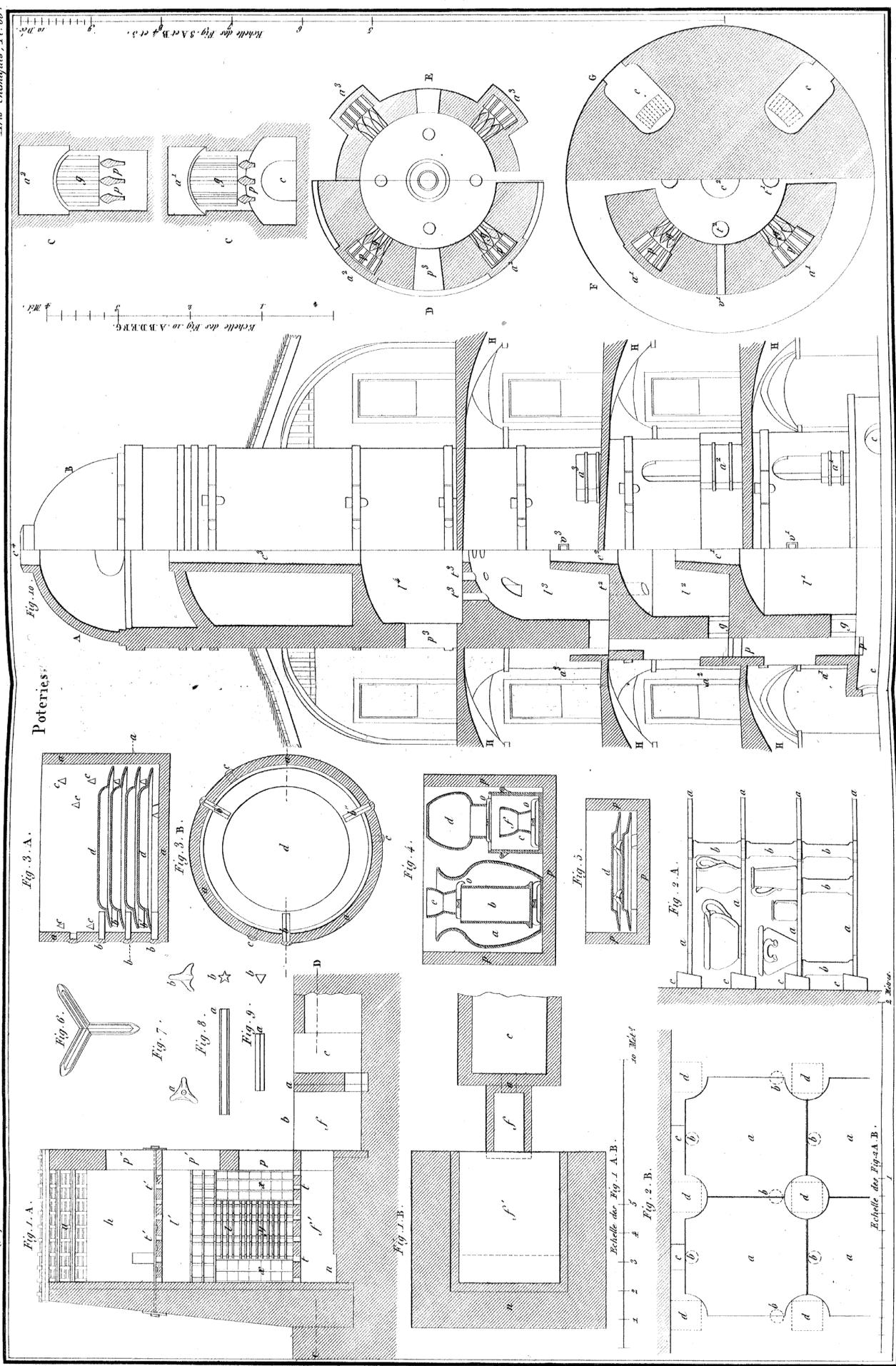
Recette pour la bâche, Graine pour l'huile.











Poudre à Canon.

Fig. 1.

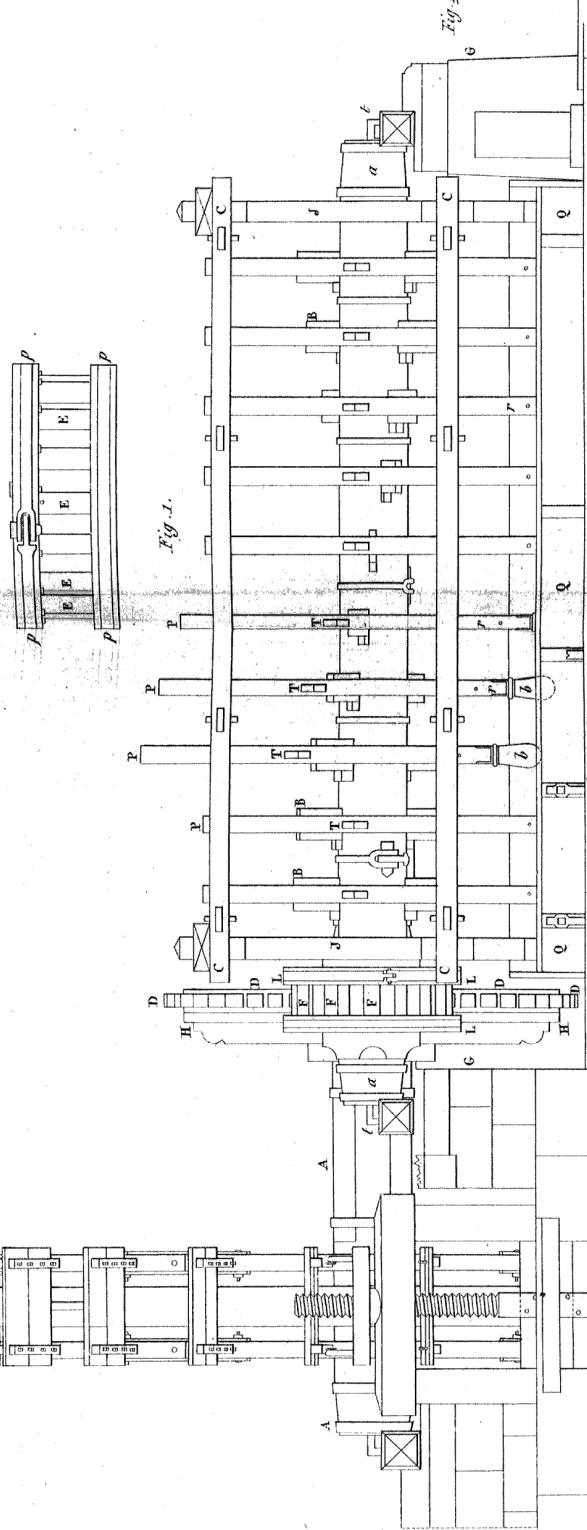


Fig. 2.

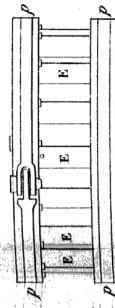
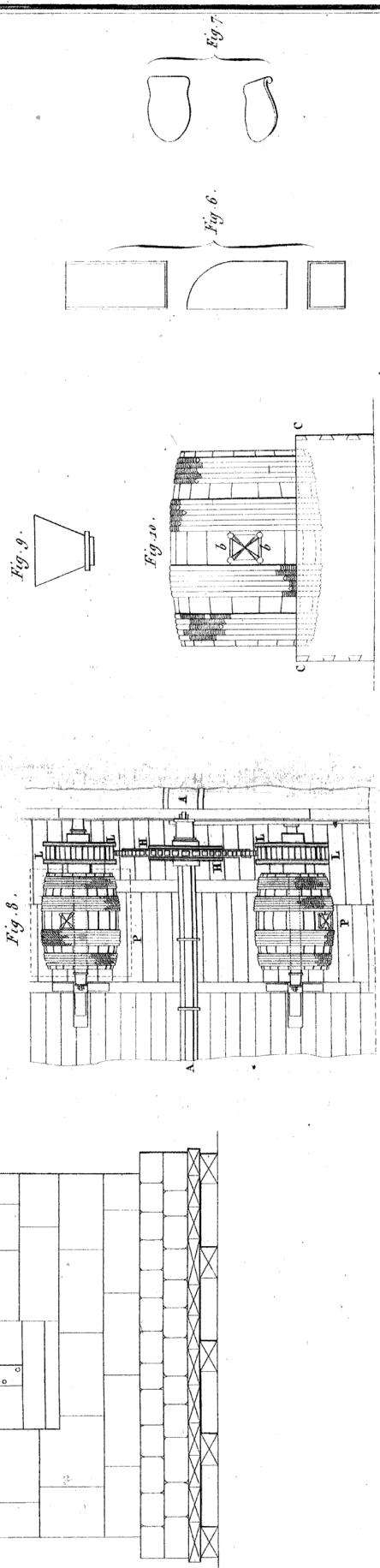
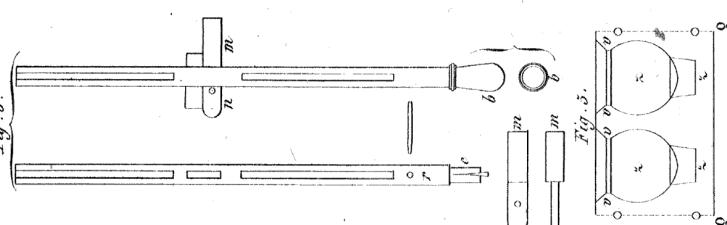
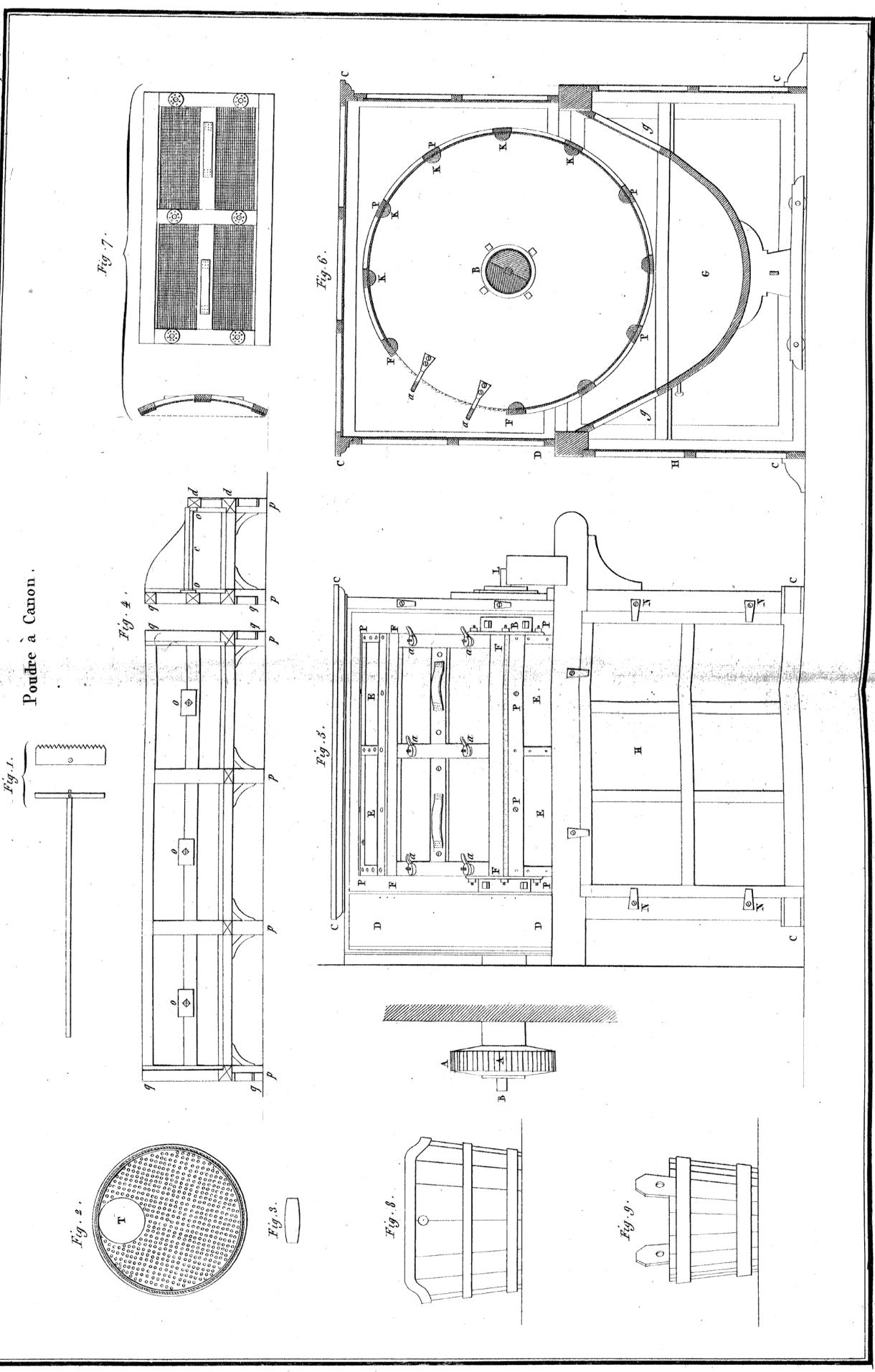
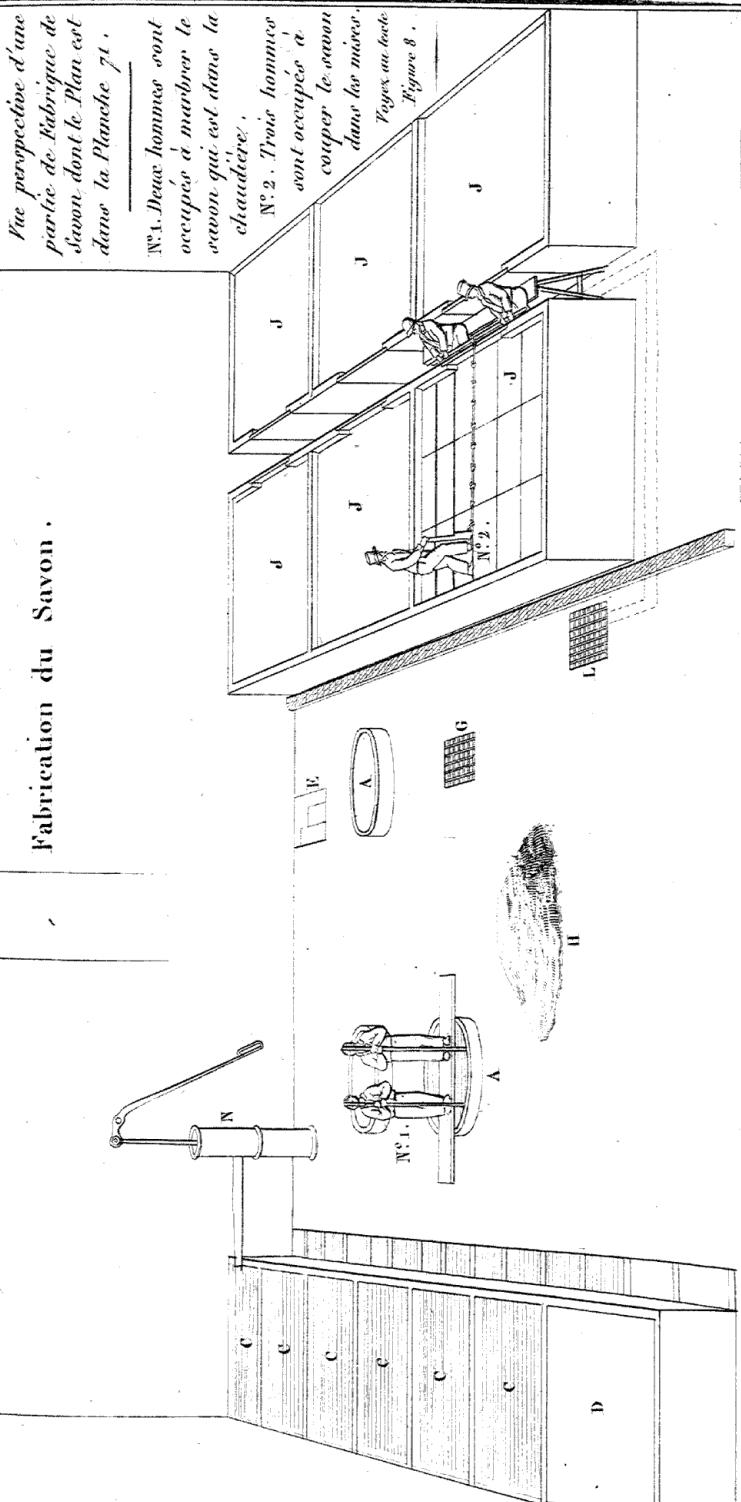


Fig. 3.





Fabrication du Savon.



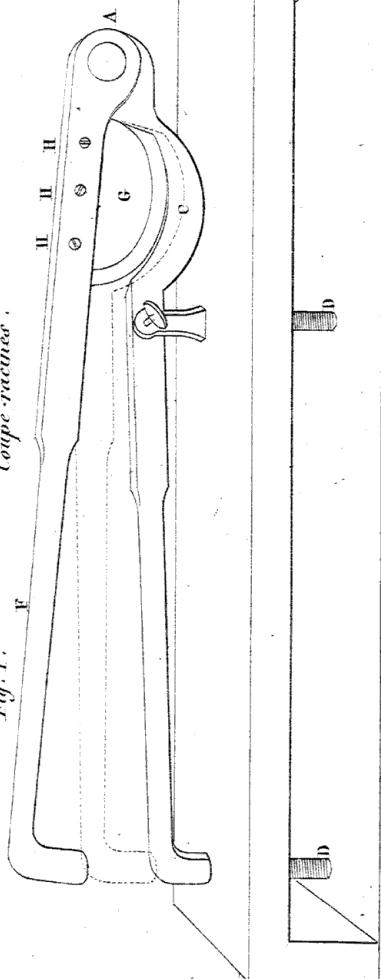
Vue perspective d'une partie de l'atelier de savon, dont le plan est dans la planche 71.

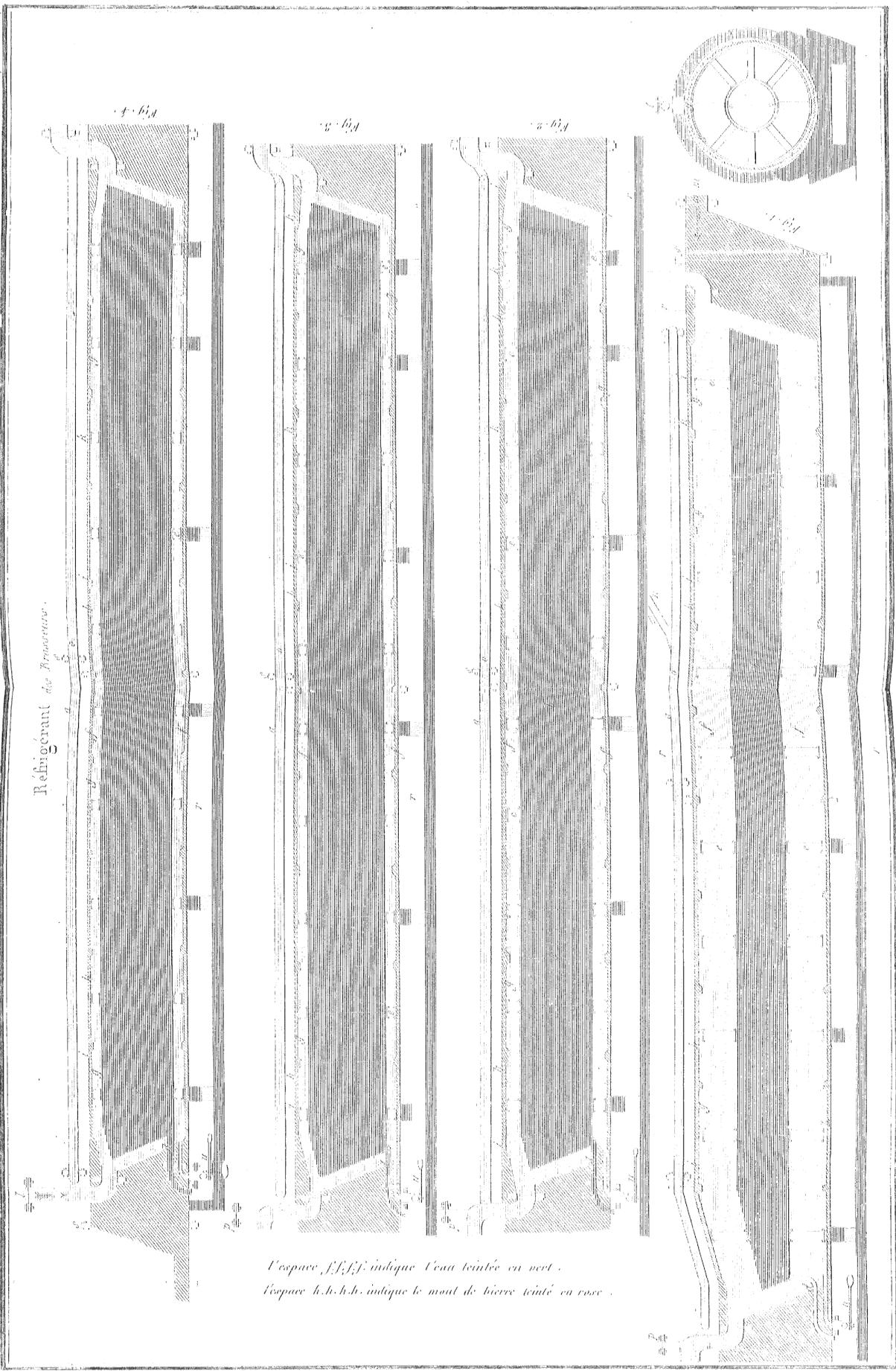
N°1. Deux hommes sont occupés à marbrer le savon qui est dans la chaudière.

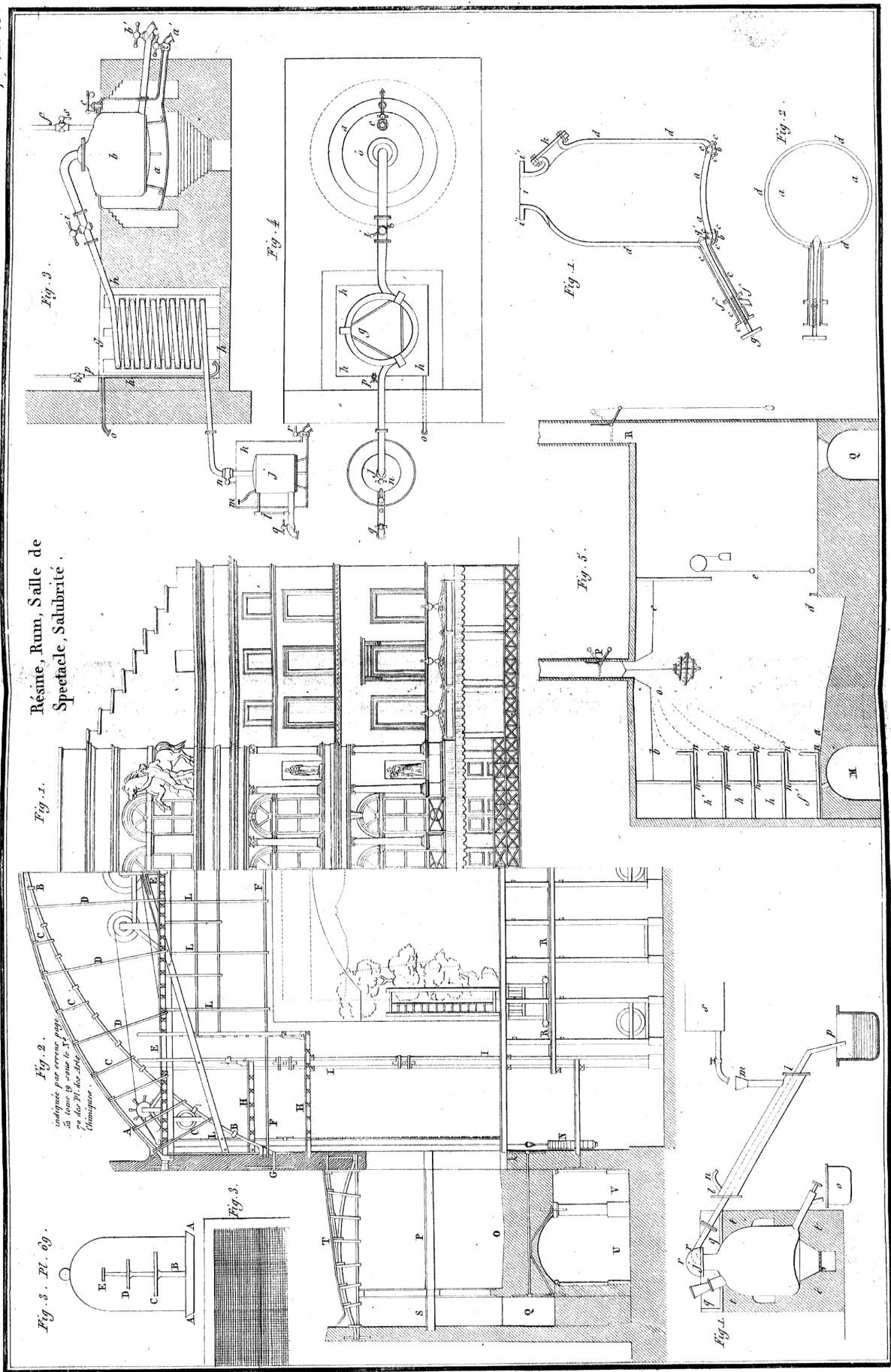
N°2. Trois hommes sont occupés à couper le savon dans les mises.

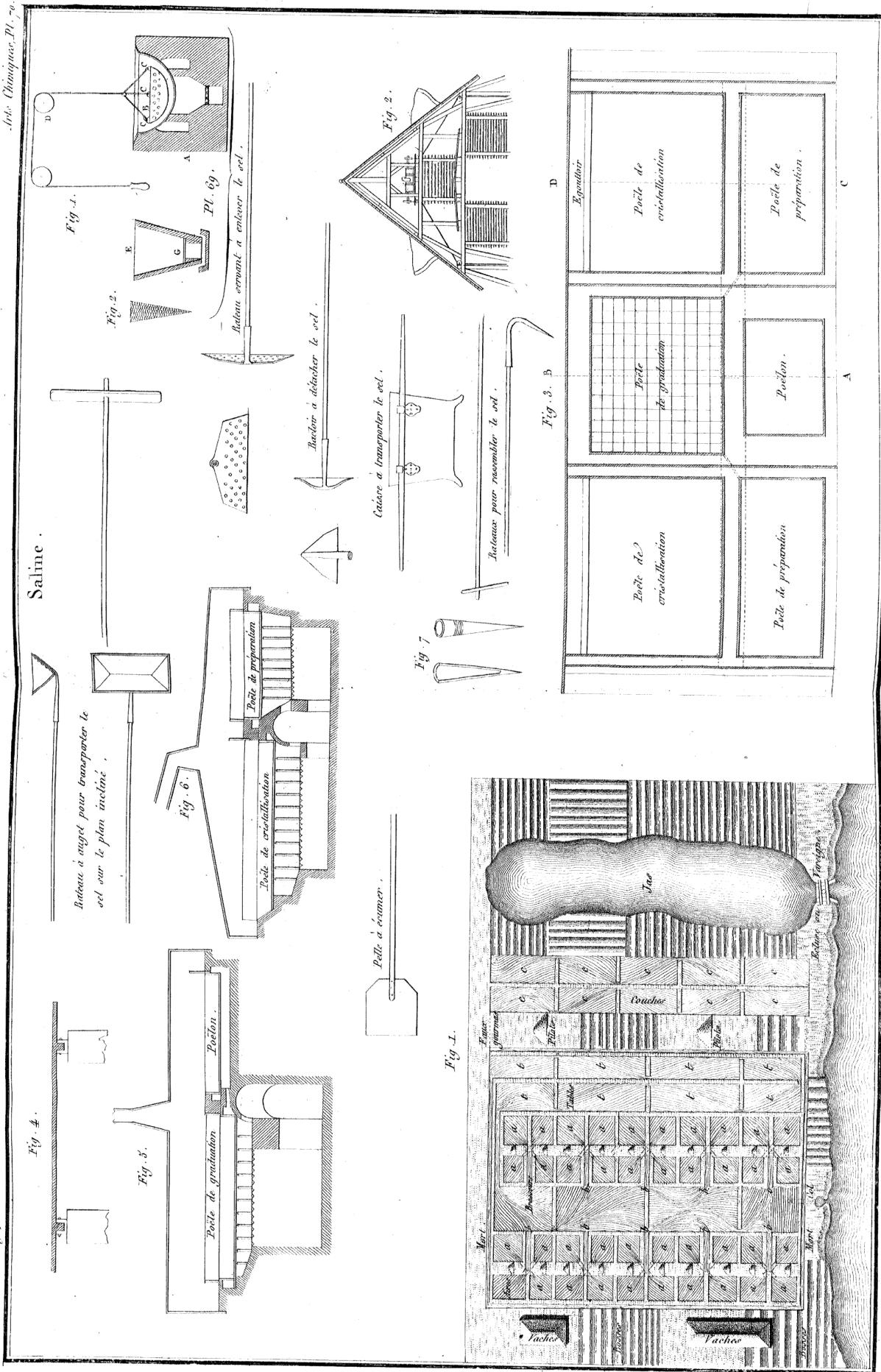
Figures au fond.

Fig. 1. Coupe raccinée.









Fabrication du Savon

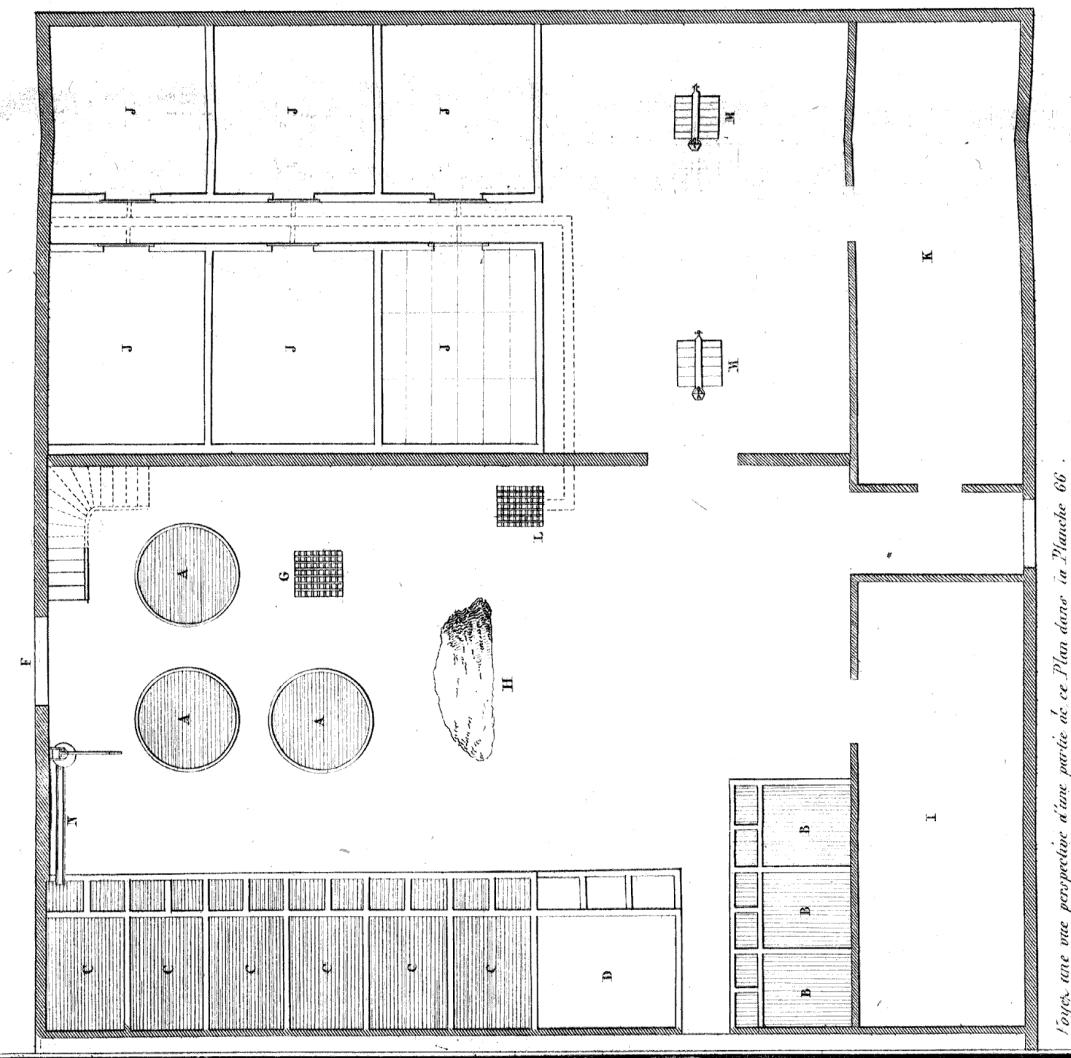
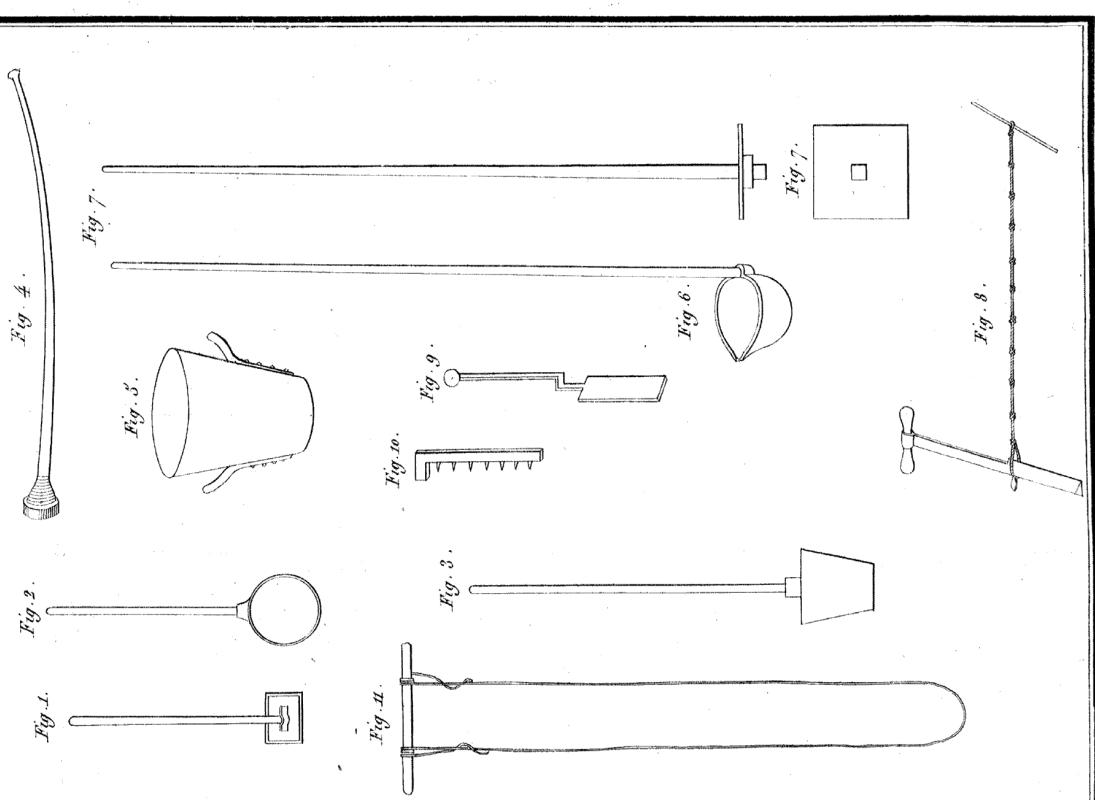
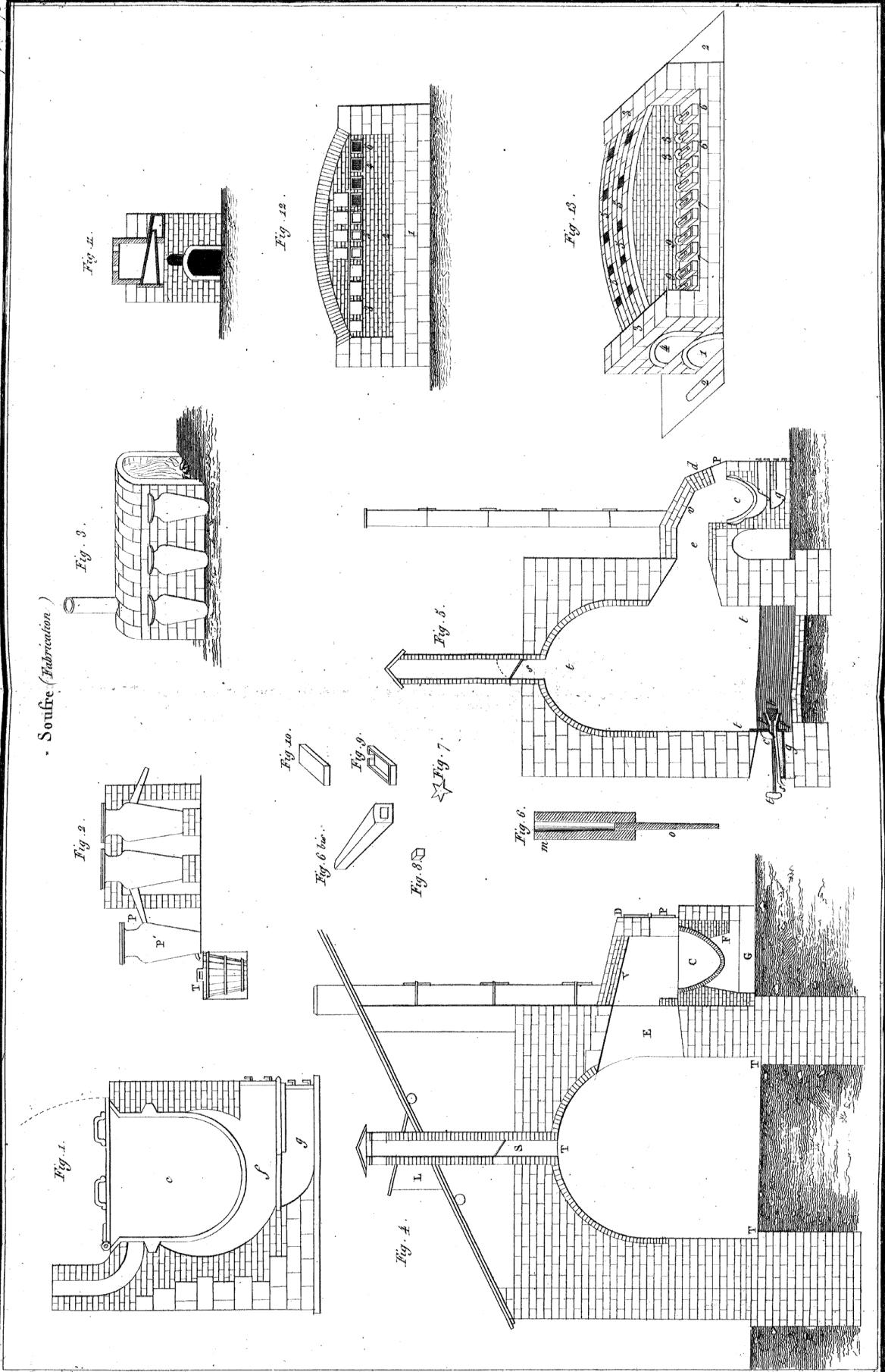


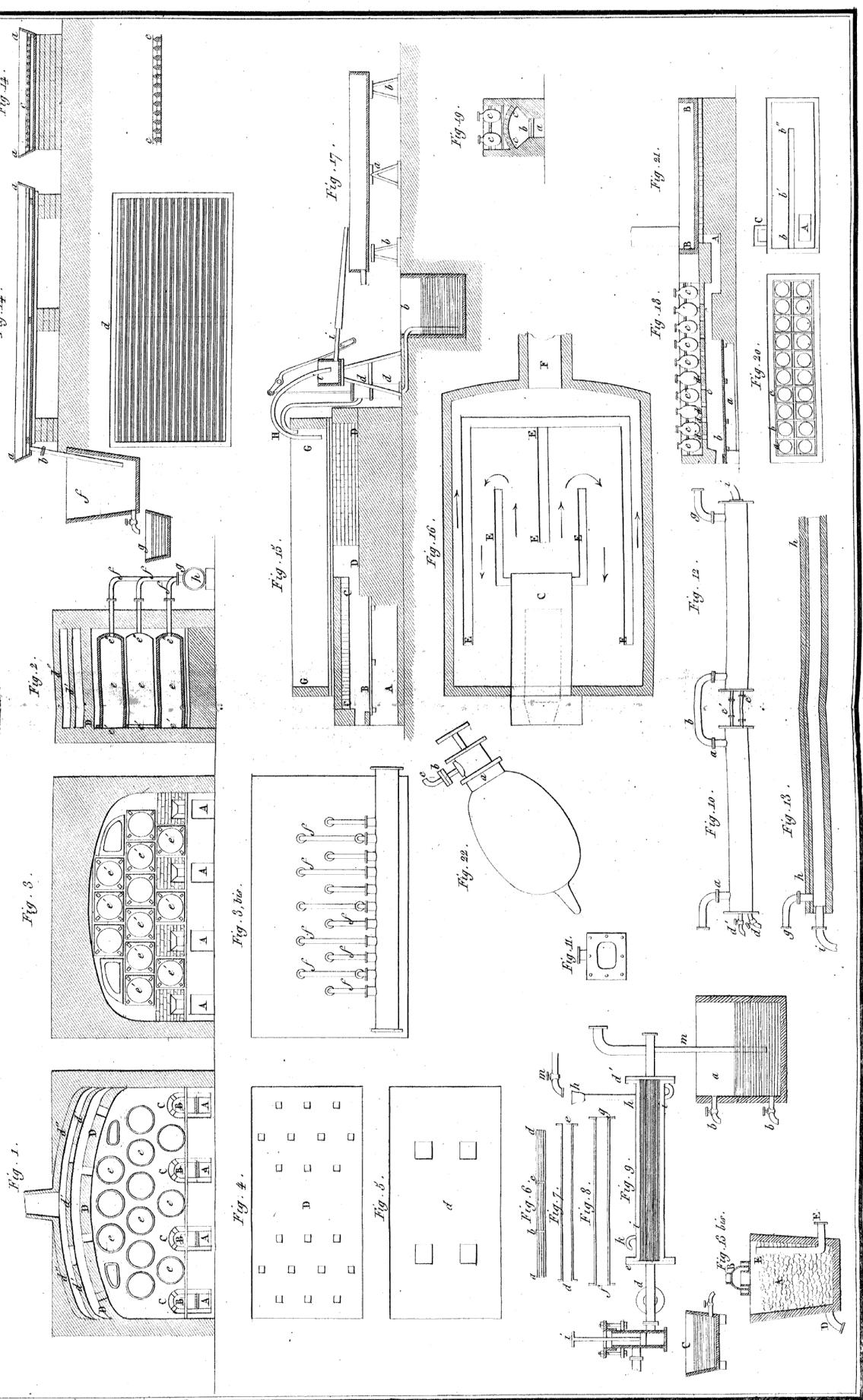
Fig. 1. Vue perspective d'une partie de ce plan dans la Manche 66.



Souffre (Fabrication)



Sel ammoniac.



Séchoirs, à chaud et à froid.

Fig. 1.

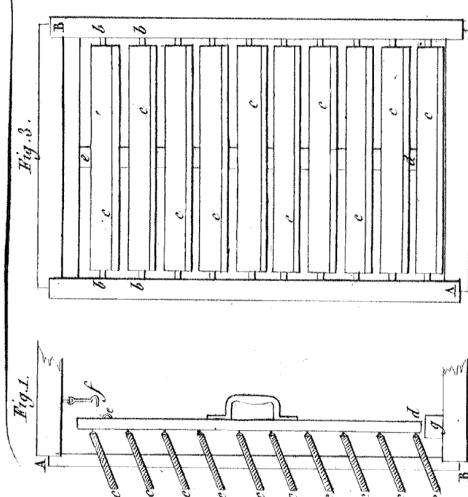
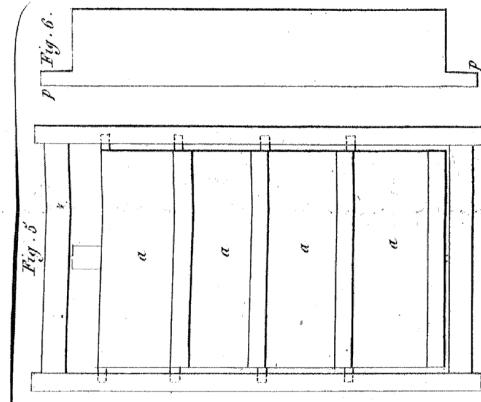


Fig. 2.



Soudure.

Fig. 2.

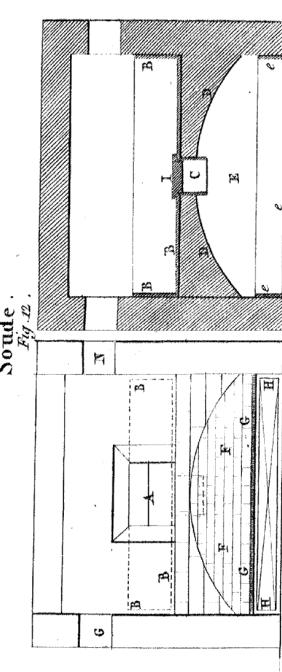


Fig. 3.

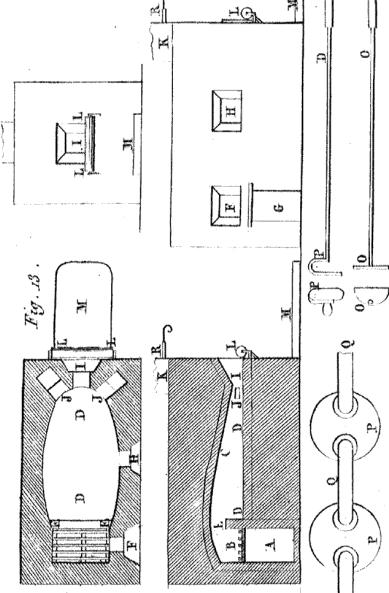


Fig. 4.

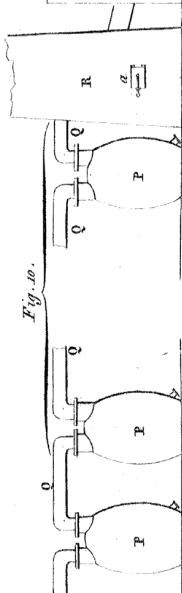
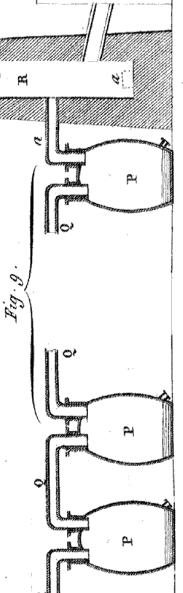


Fig. 5.



Soudure. Fig. 6.

Fig. 6.



Fig. 7.

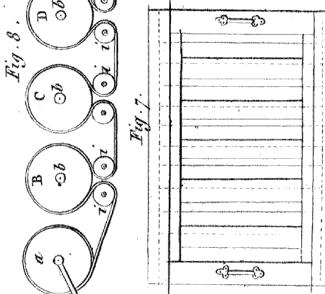
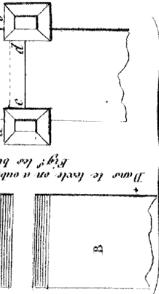


Fig. 8.

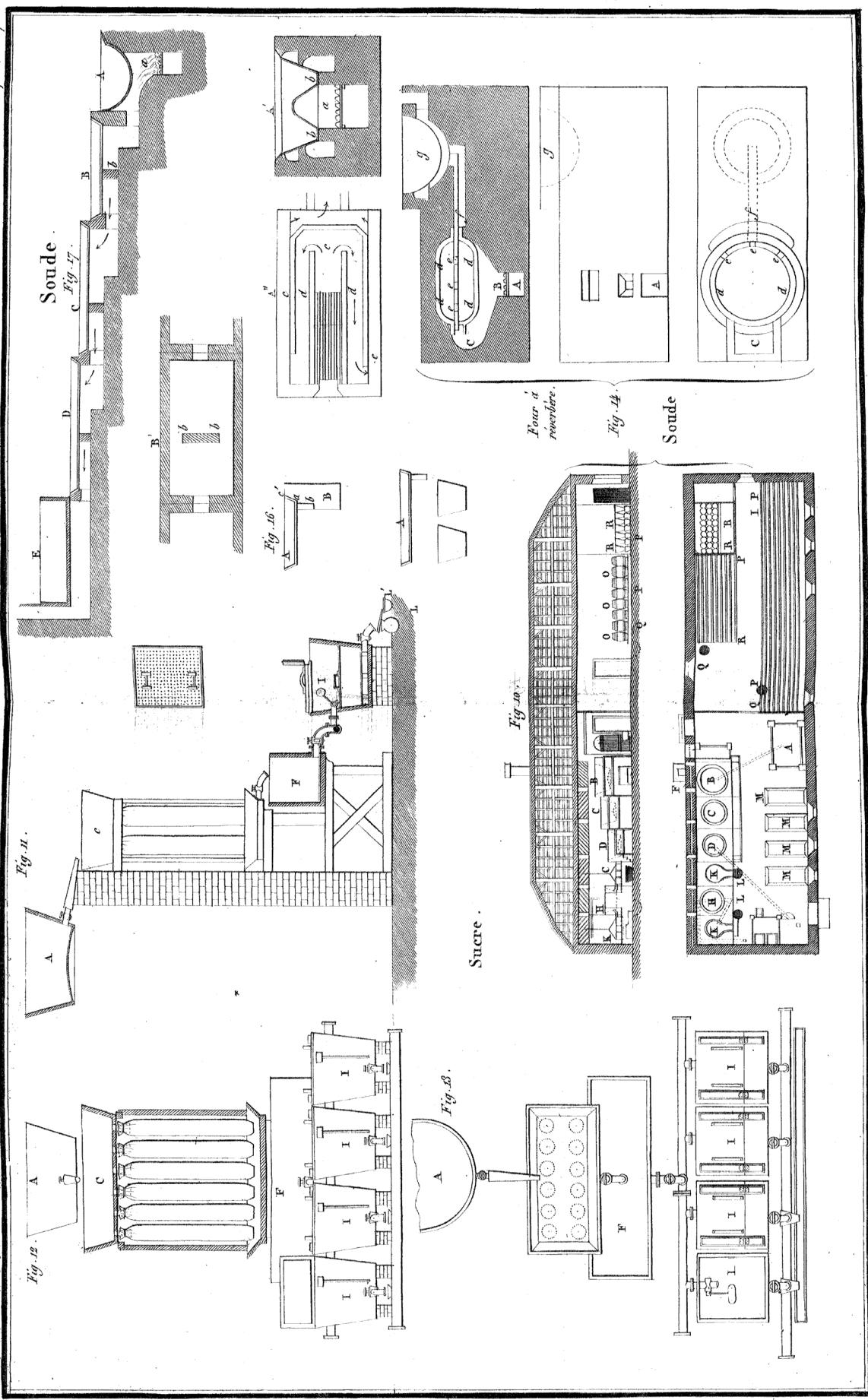


Pour la Fig. 4, moyen.

Fig. 7.



Soudure



Sucre. Laveur de betteraves.

Fig. 1.

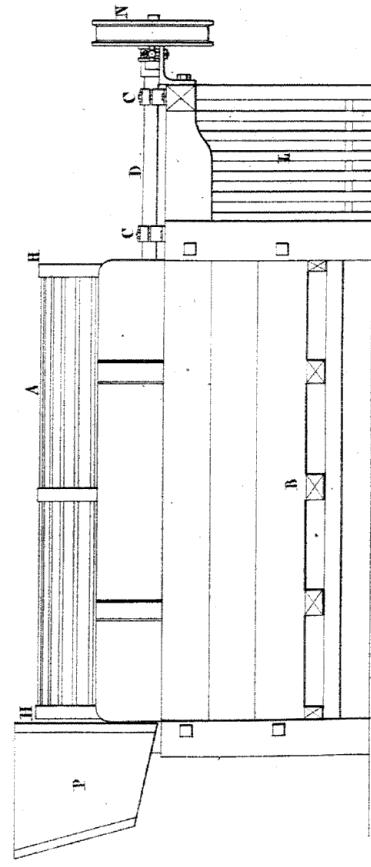


Fig. 2.

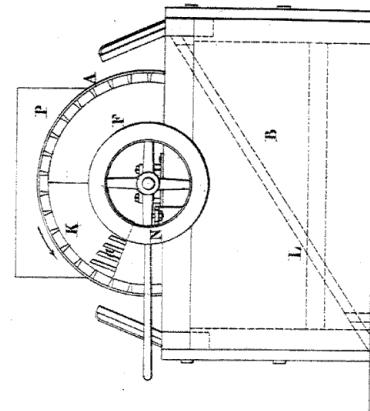


Fig. 3.

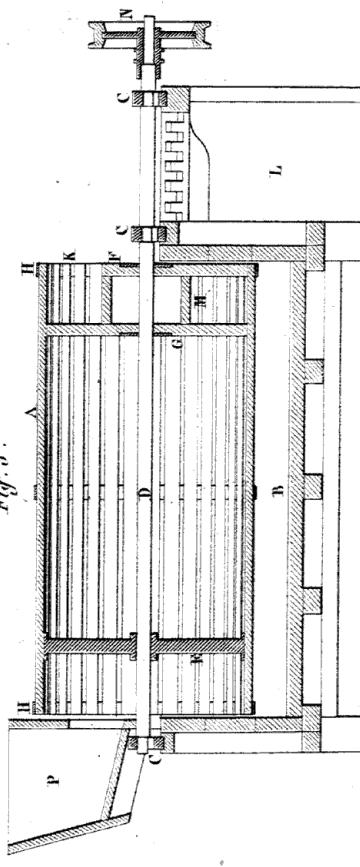


Fig. 4.

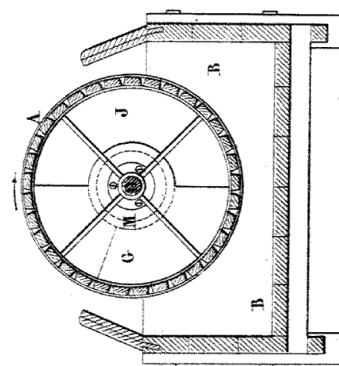
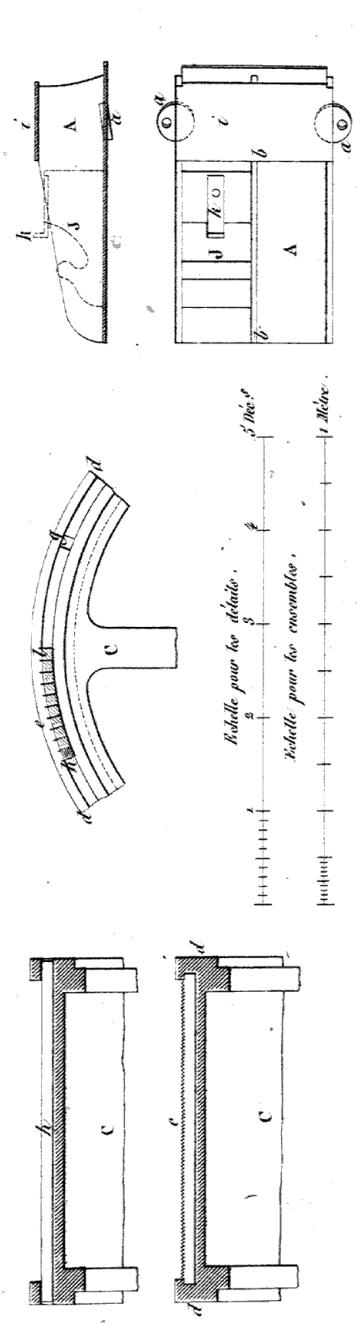
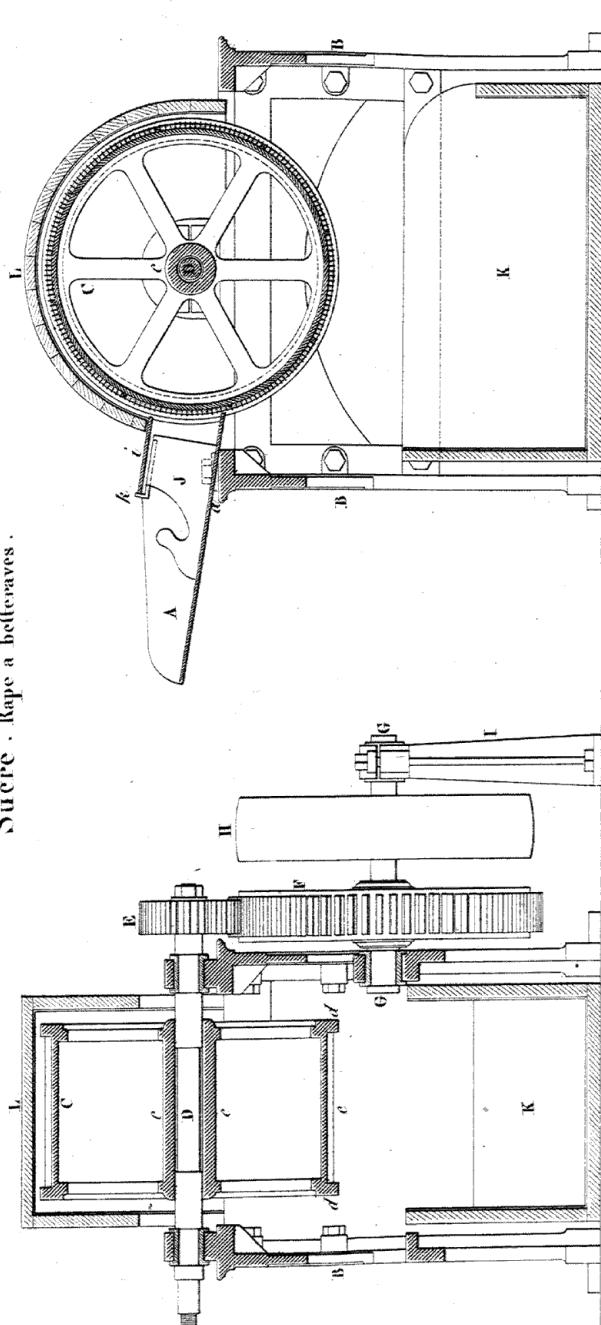


Fig. 5.

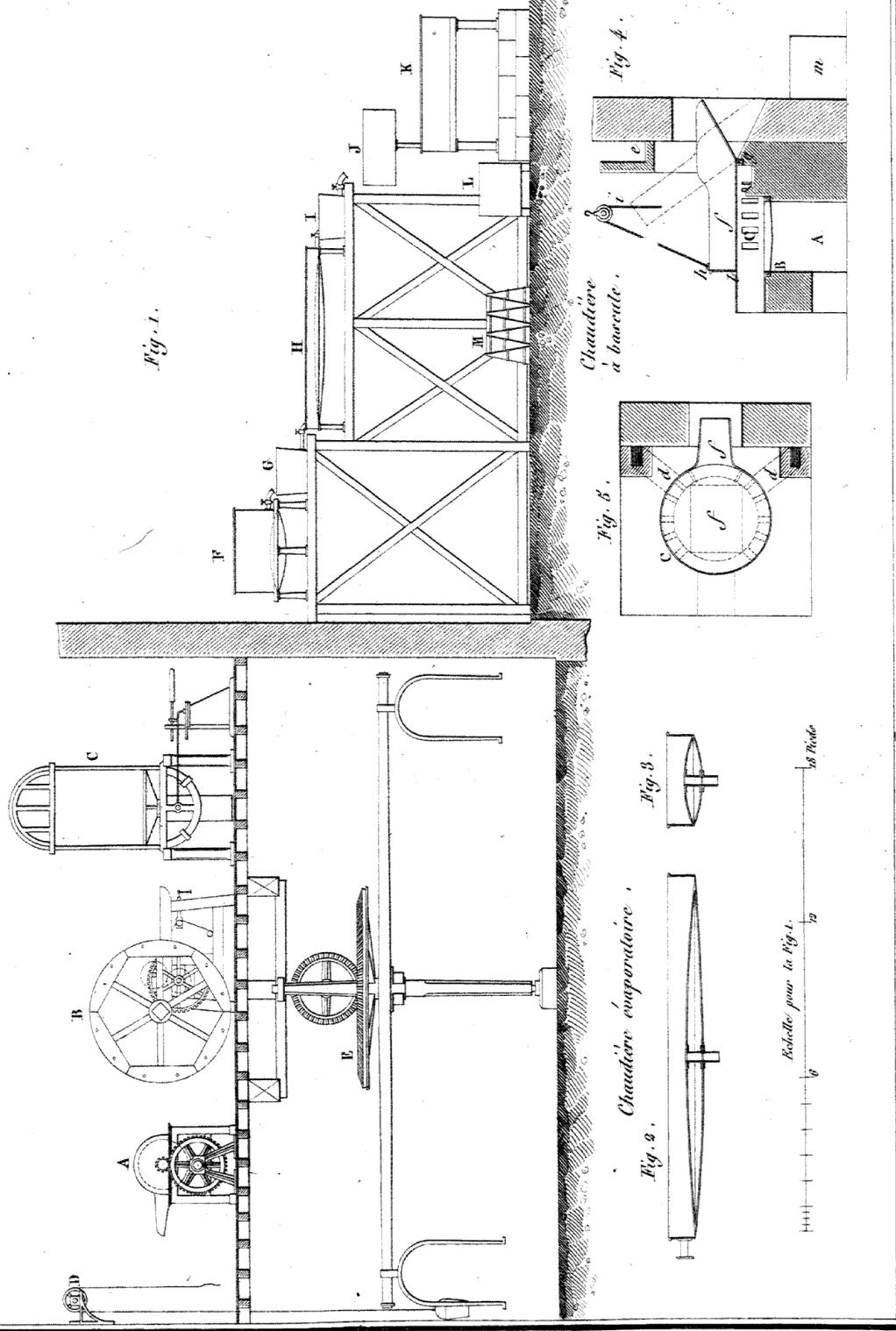


Gravé par Jodave.

Suere. Râpe à betteraves.



Sucre. Atelier de fabrication.



Gravé pour l'éditeur.

Sucre. Presse à cylindres.

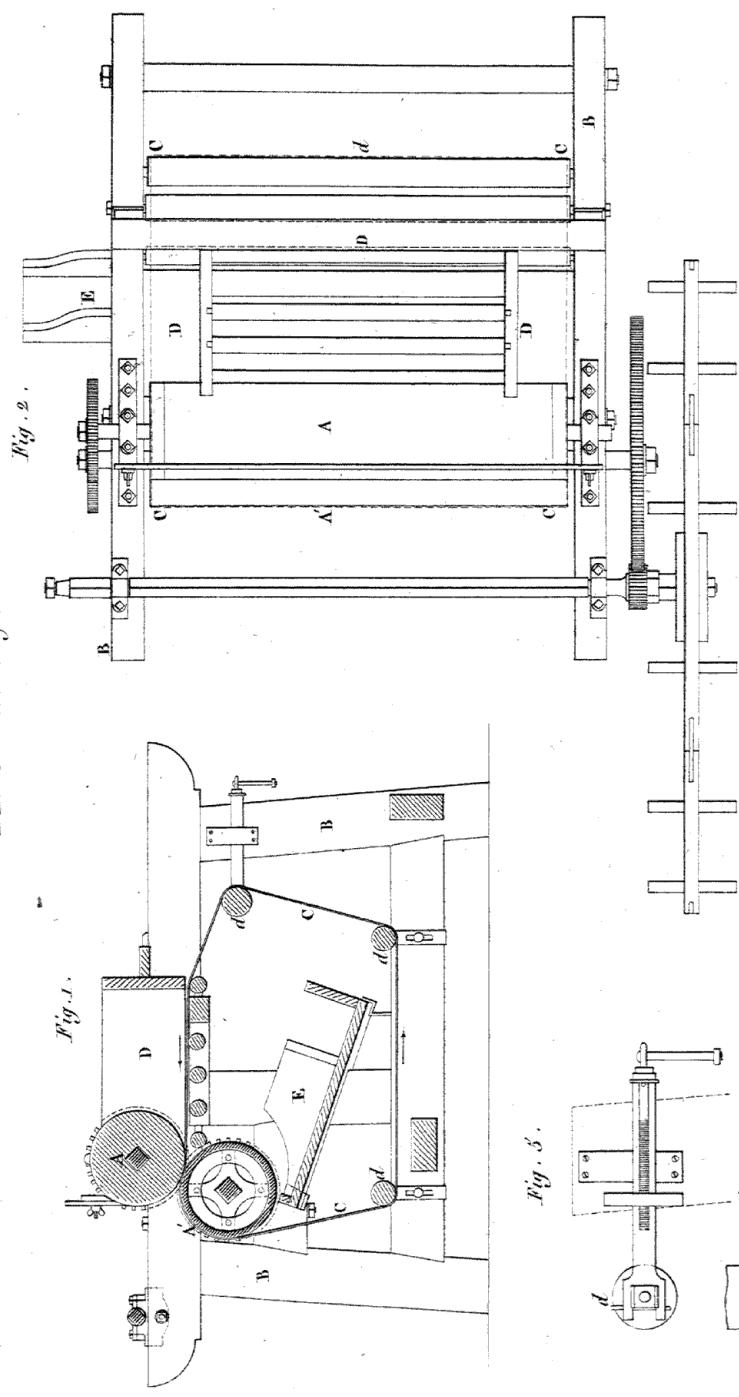


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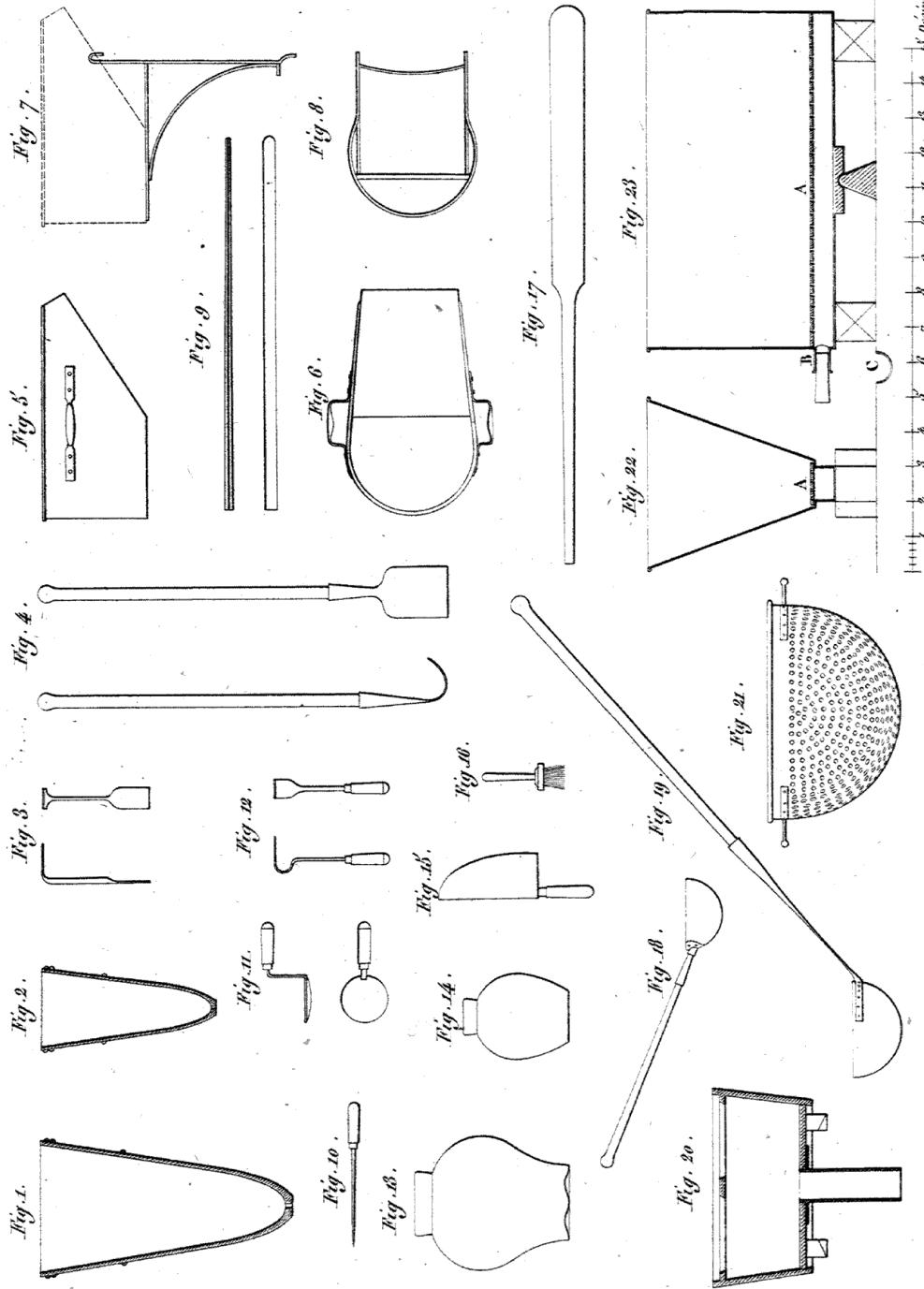
Fig. 273.

Fig. 274.

Fig. 275.

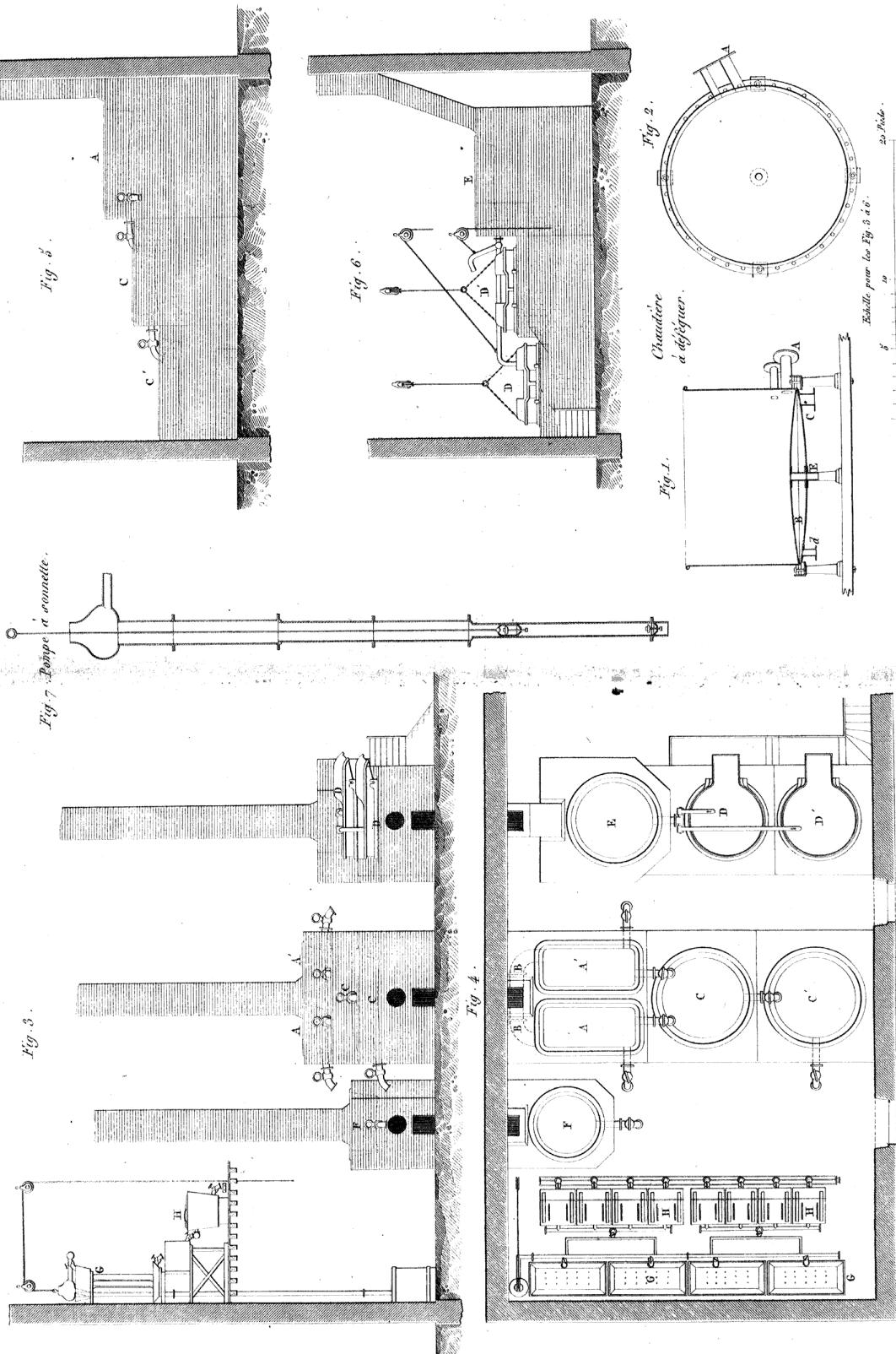
Fig. 276

Sucre. Divers ustensiles.



Drawn par Leblanc.

Sucre. Système de filtres et de chaudières.



Sucre. Appareil à cuire les Sirops.

Fig. 1.

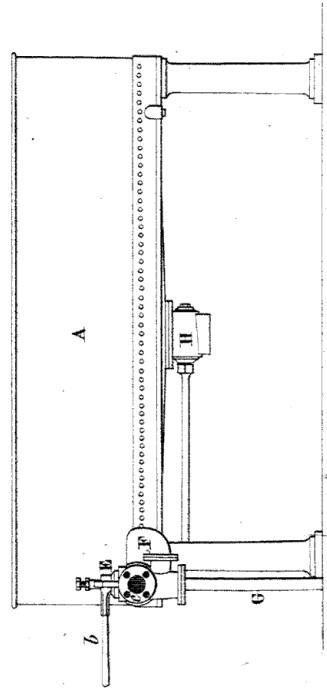


Fig. 2.

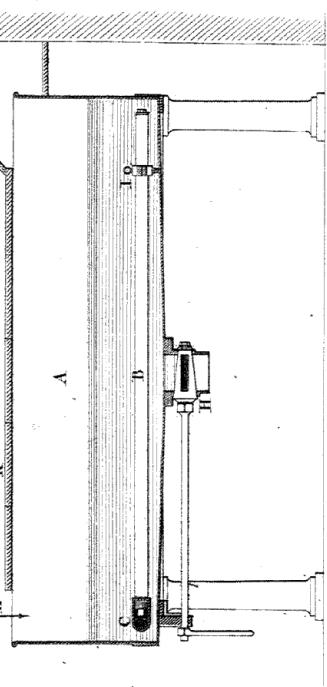


Fig. 3.

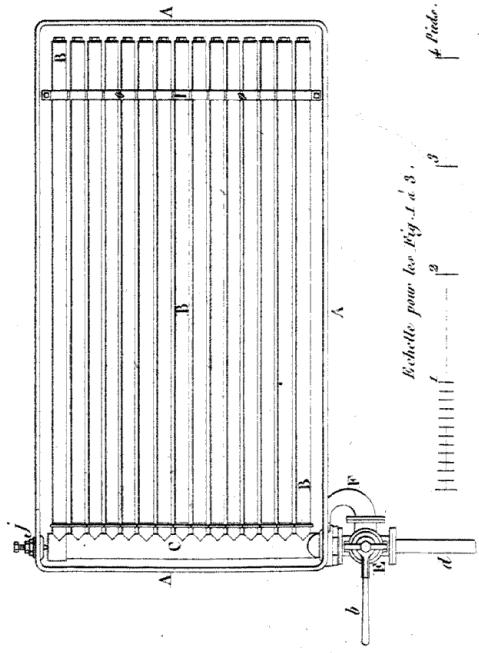


Fig. 4.

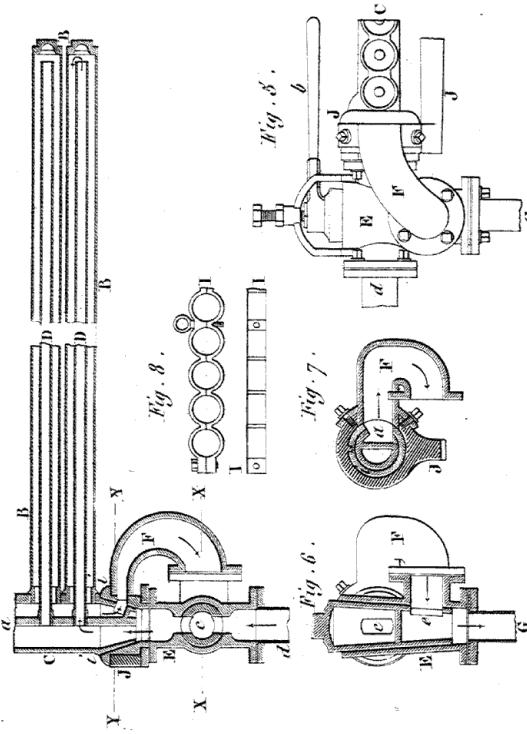


Fig. 5.

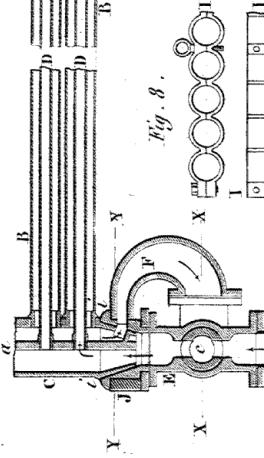


Fig. 6.

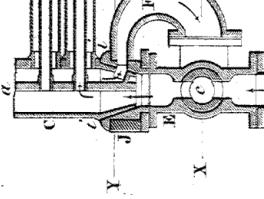


Fig. 7.

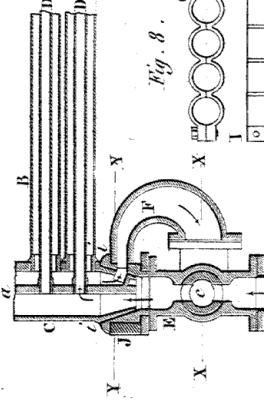


Fig. 8.

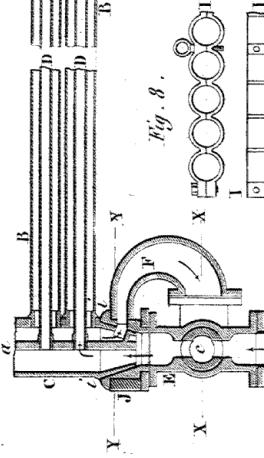


Fig. 9.

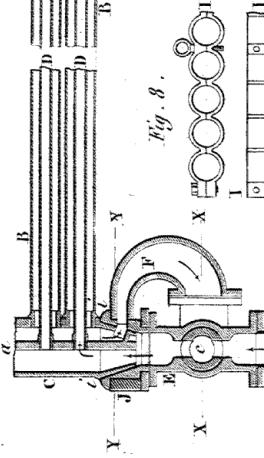


Fig. 10.

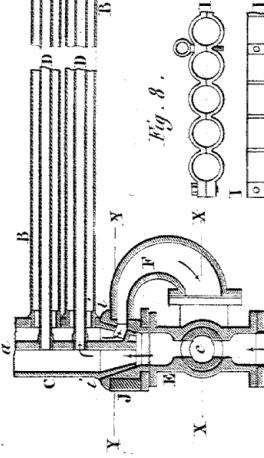


Fig. 11.

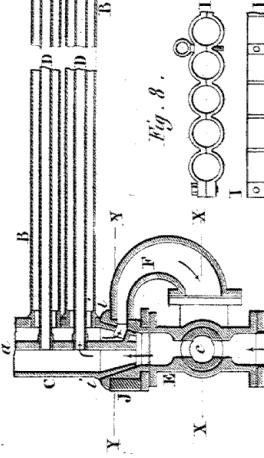


Fig. 12.

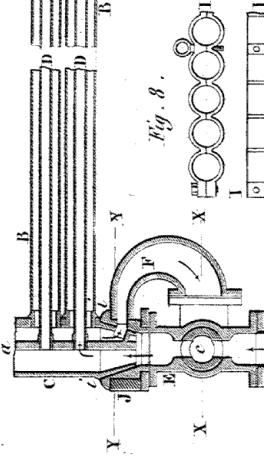


Fig. 13.

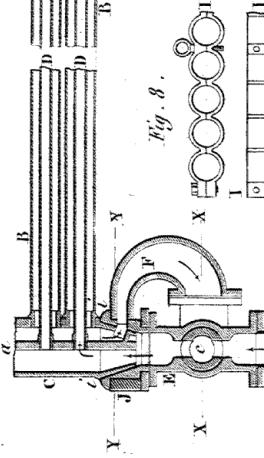


Fig. 14.

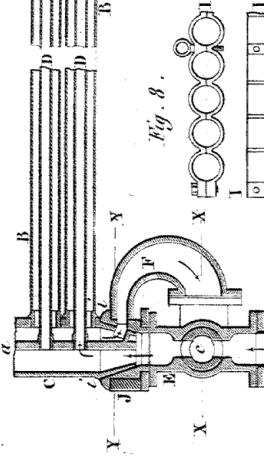


Fig. 15.

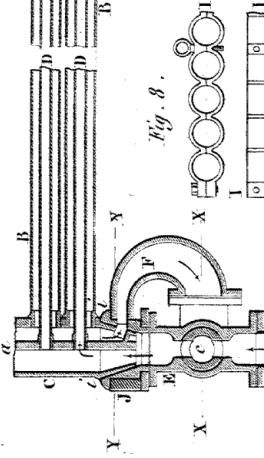


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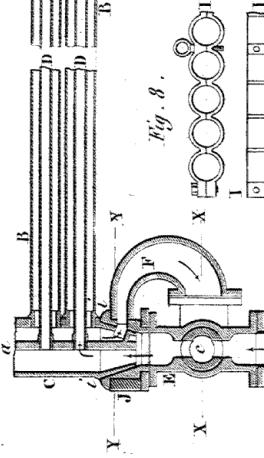


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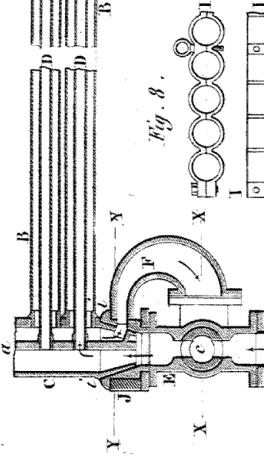


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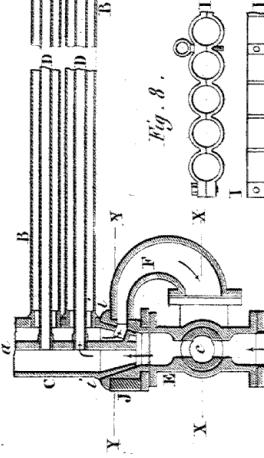


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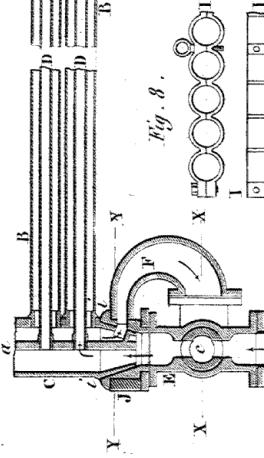


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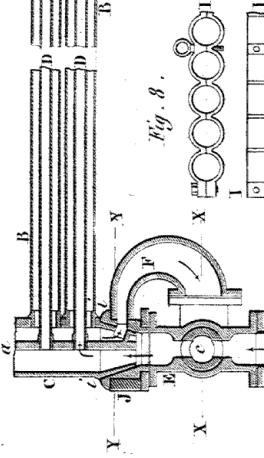


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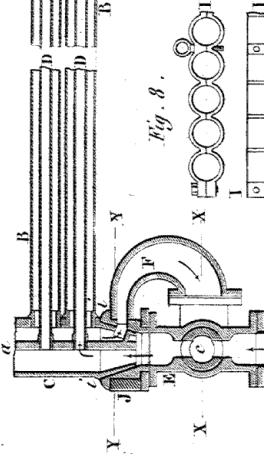


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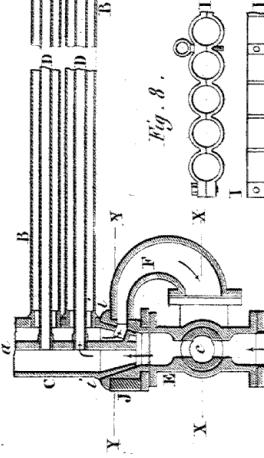


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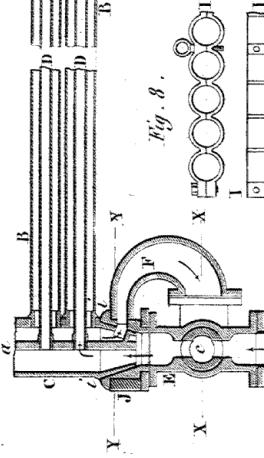


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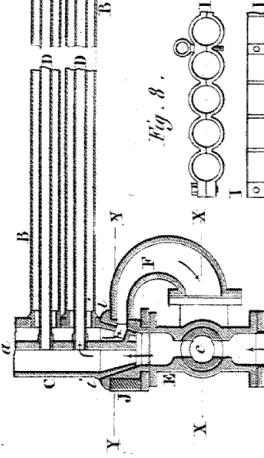


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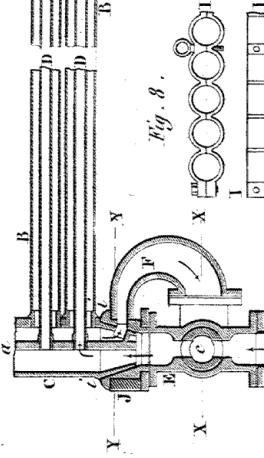


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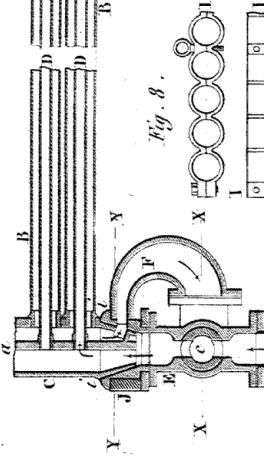


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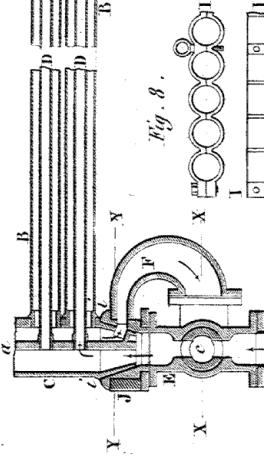


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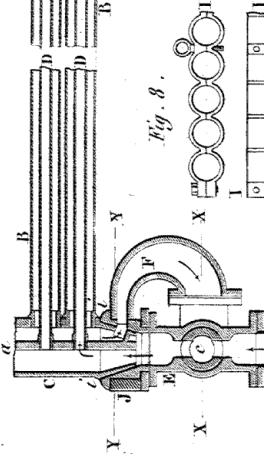


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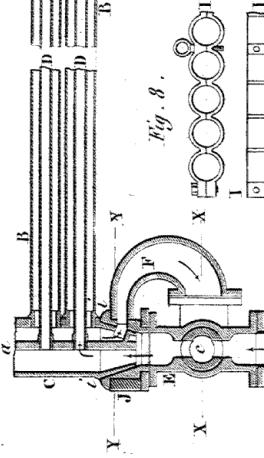


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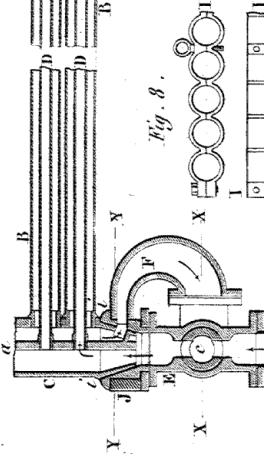


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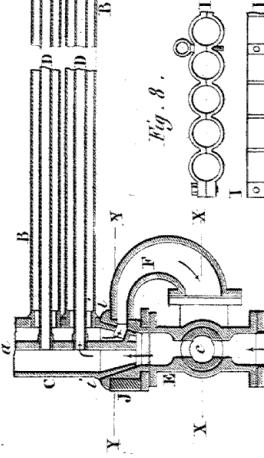


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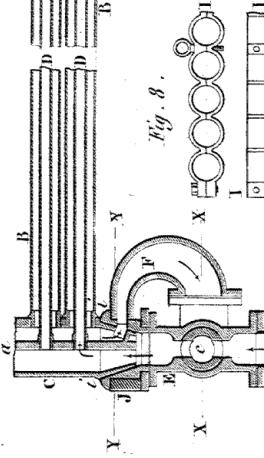


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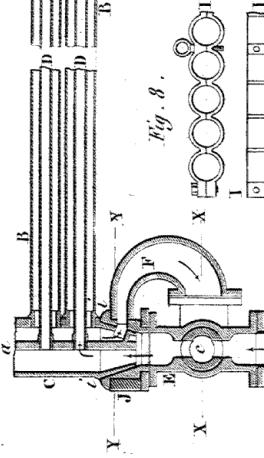


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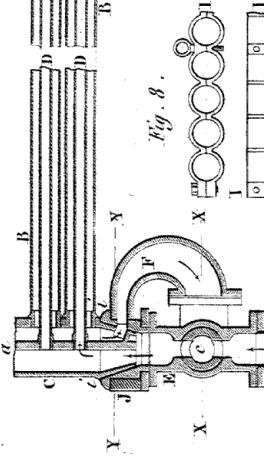


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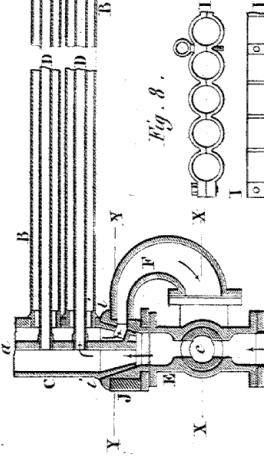


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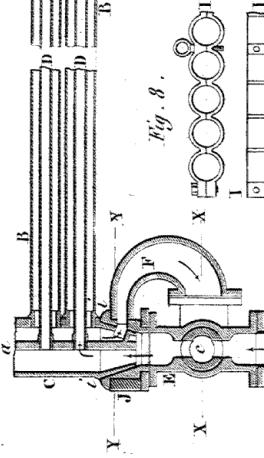


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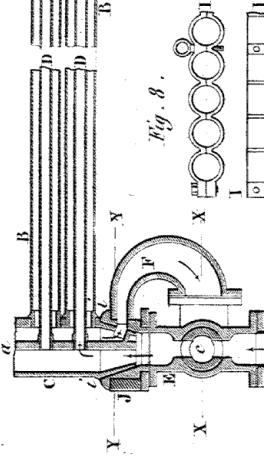


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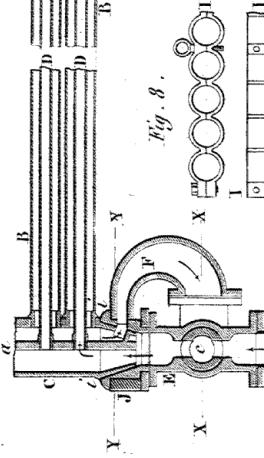


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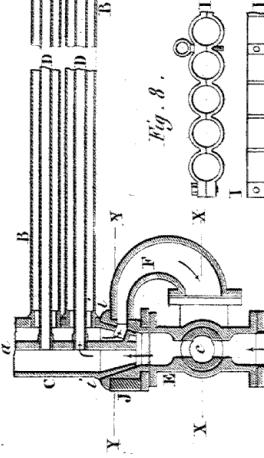


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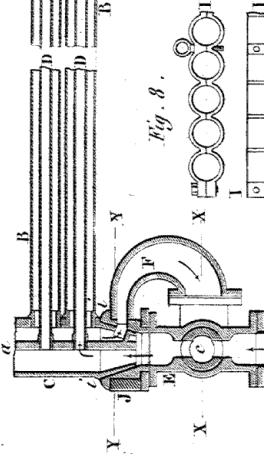


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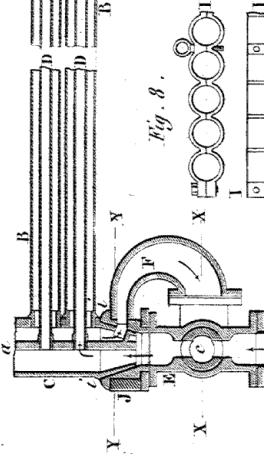


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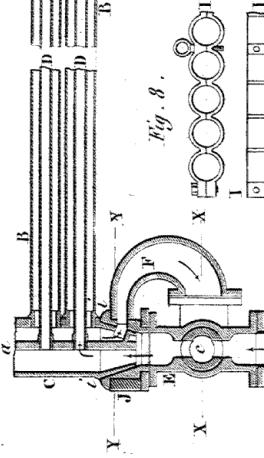


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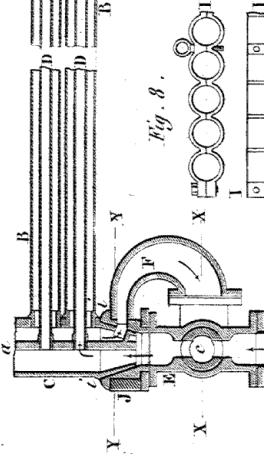


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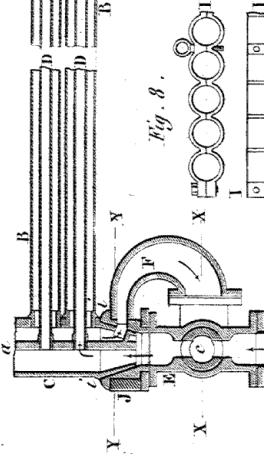


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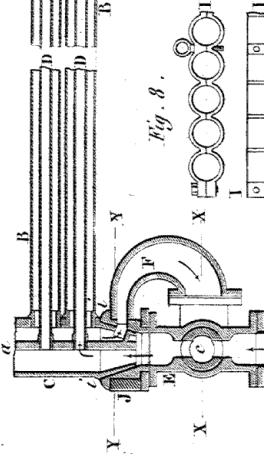


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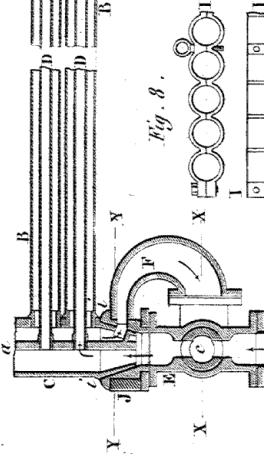


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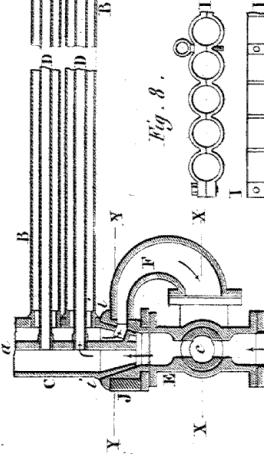


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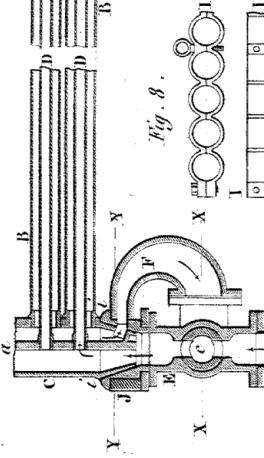


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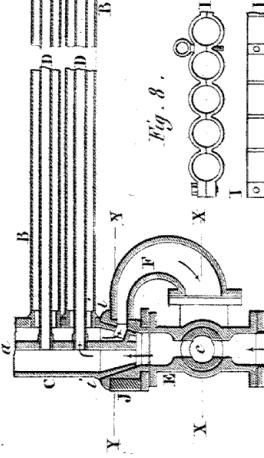


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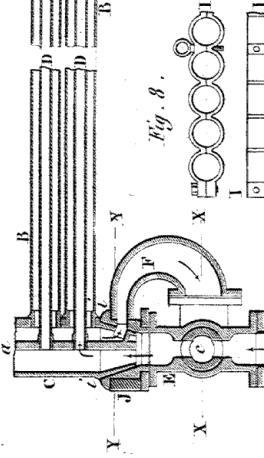


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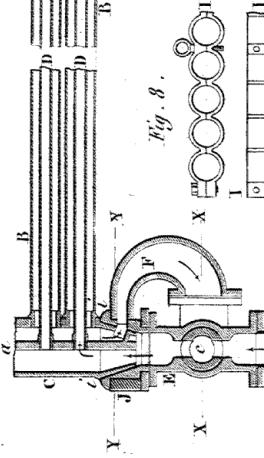
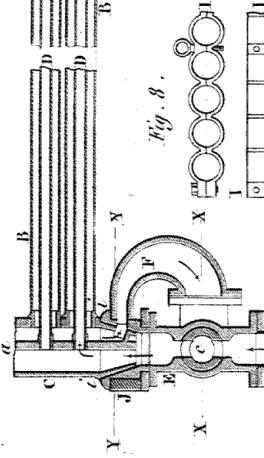


Fig. 52.



Sucre. Appareil à cuire les sirops.

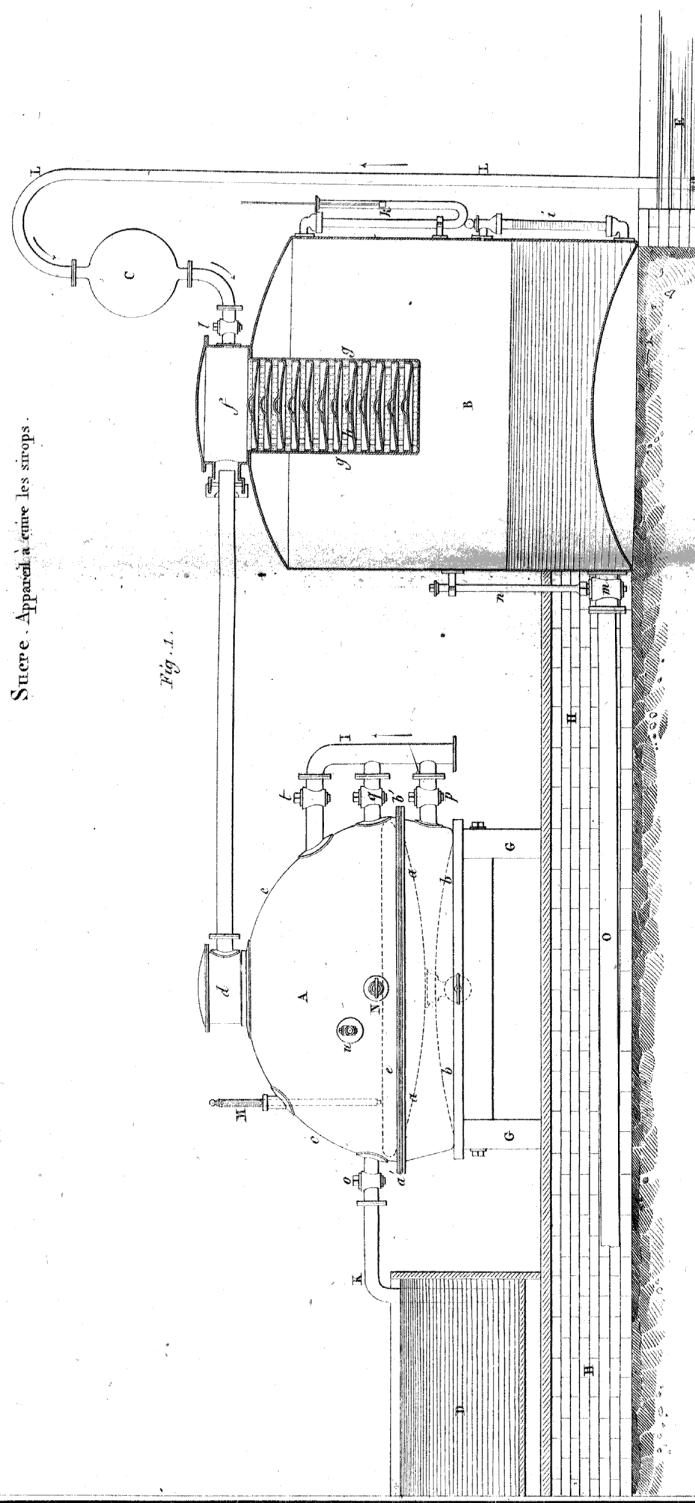


Fig. 1.

Fig. 4.

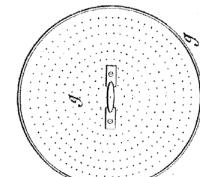
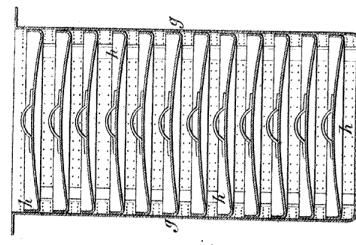


Fig. 3.



Fig. 2.

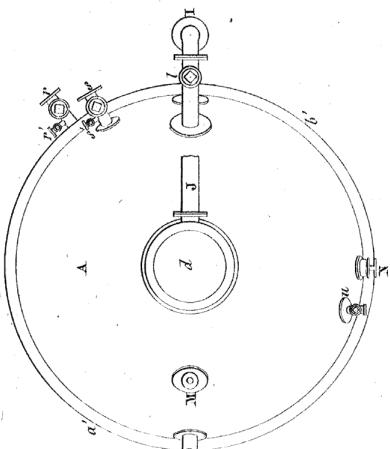


Fig. 1.

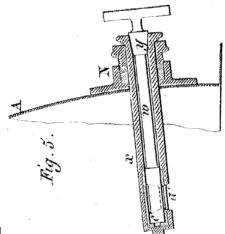


Fig. 5.

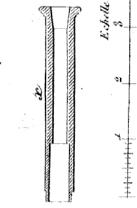


Fig. 7.

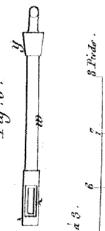


Fig. 6.

Fig. 6.

Fig. 7.

échelle pour les Fig. 1 à 3.

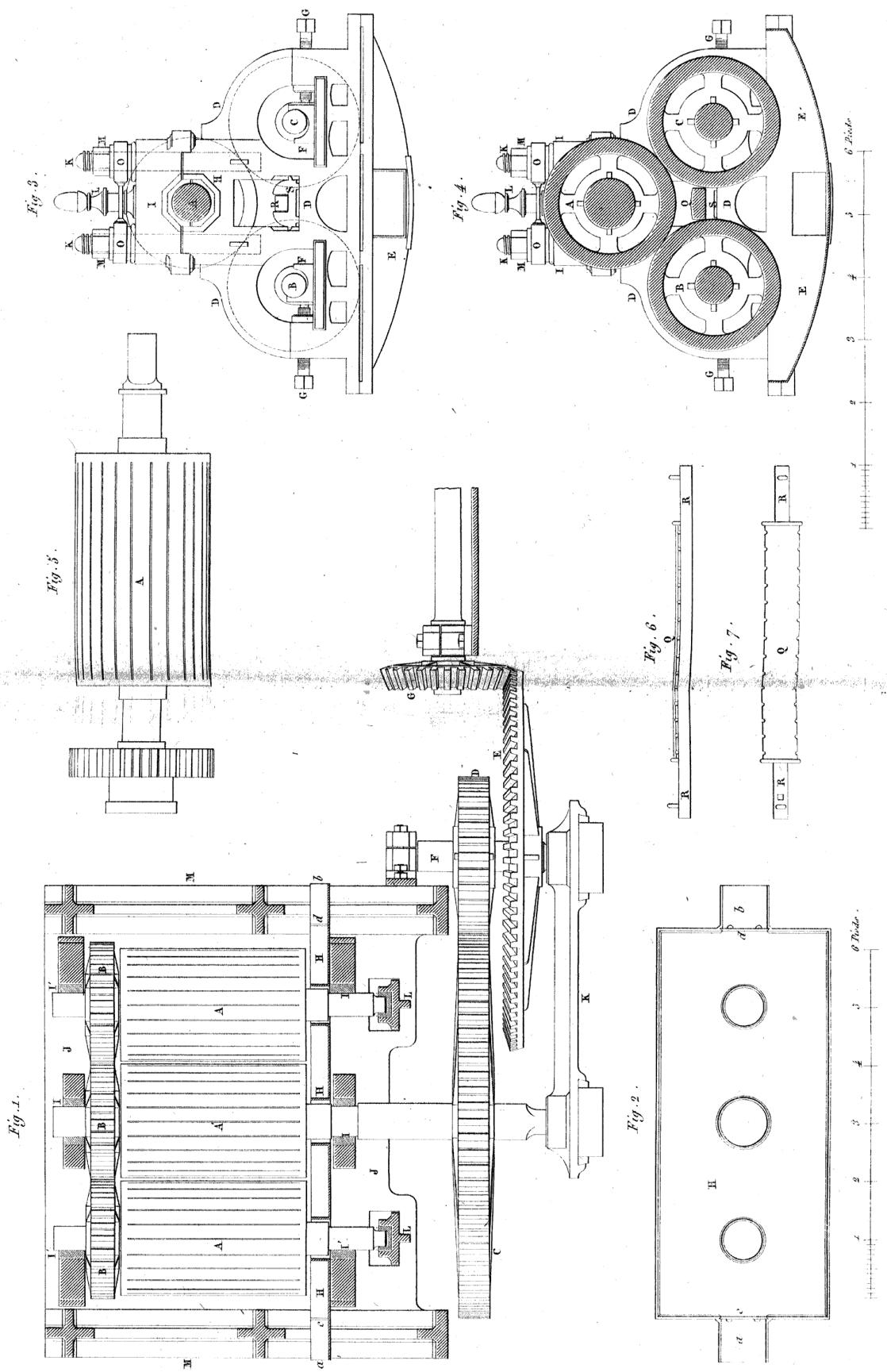
Fig. 6.

Fig. 7.

Fig. 6.

Fig. 7.

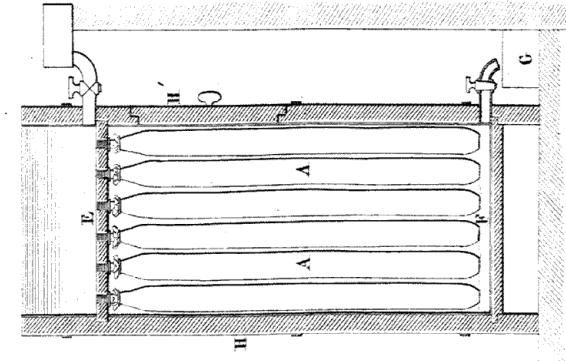
Sucre. Mouins ou Pressors des cannes à sucre.



Sure.

Filtre de Taylor.

Fig. 1.



Filtre de Dumont.

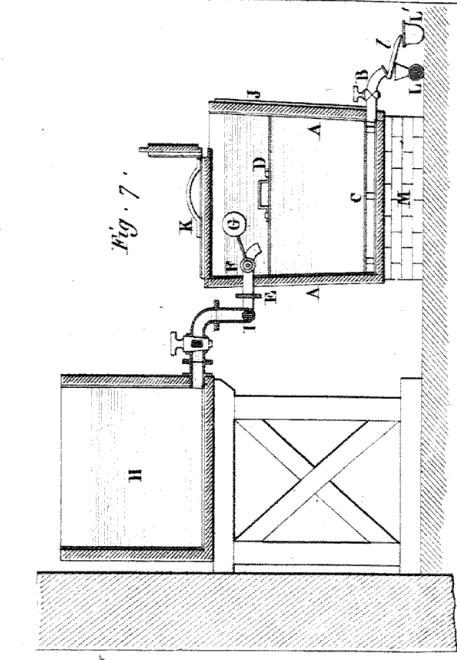


Fig. 2.

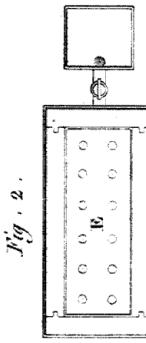


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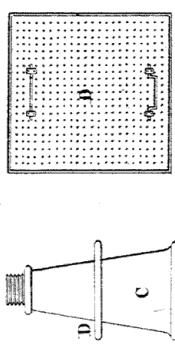


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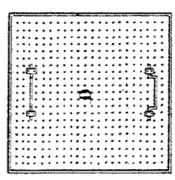


Fig. 5.

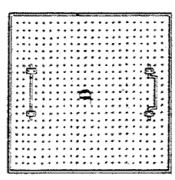


Fig. 6.

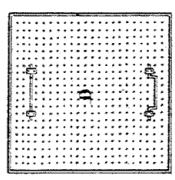


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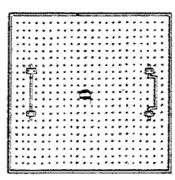


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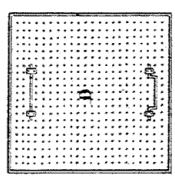


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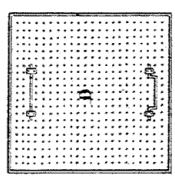


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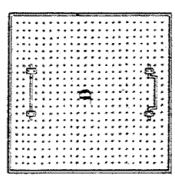


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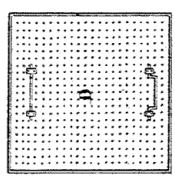


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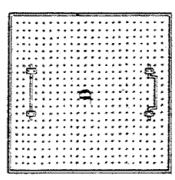


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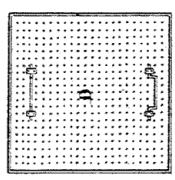


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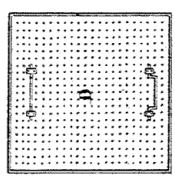


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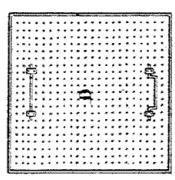


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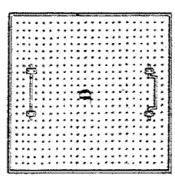


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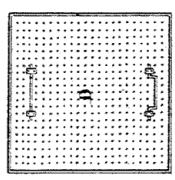


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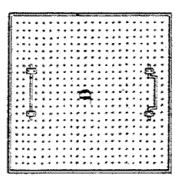


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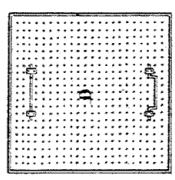


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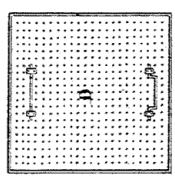


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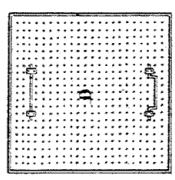


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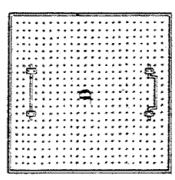


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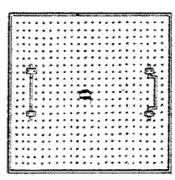


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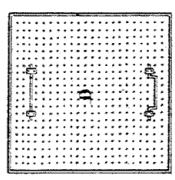


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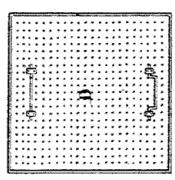


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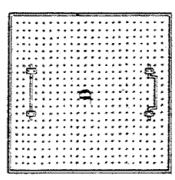


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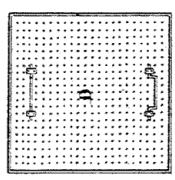


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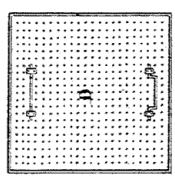


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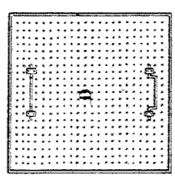


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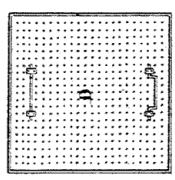


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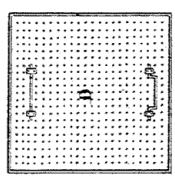


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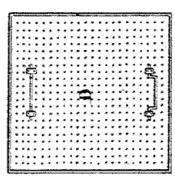


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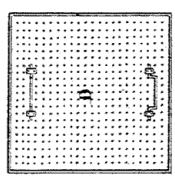


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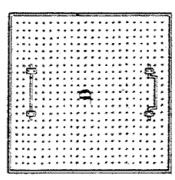


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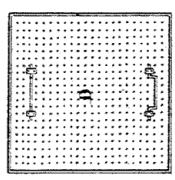


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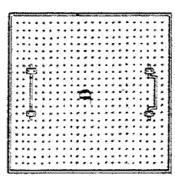


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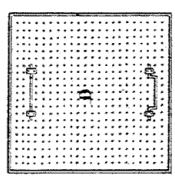


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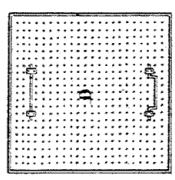


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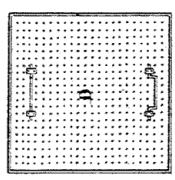


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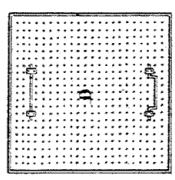


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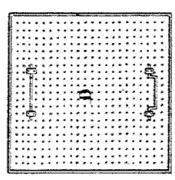


Fig. 42.

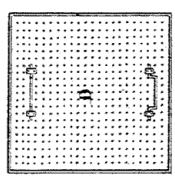


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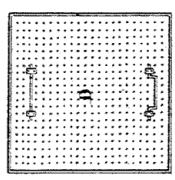


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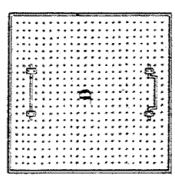


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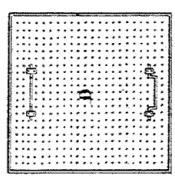


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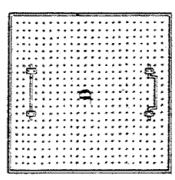


Fig. 47.

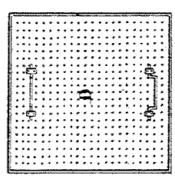


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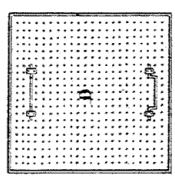


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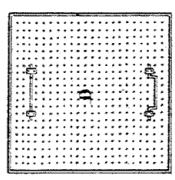


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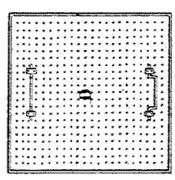


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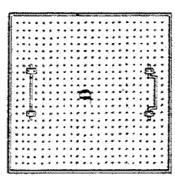


Fig. 52.

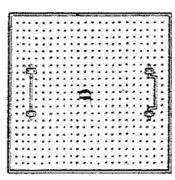


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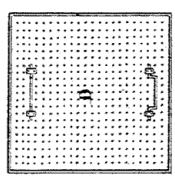


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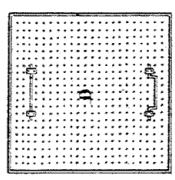


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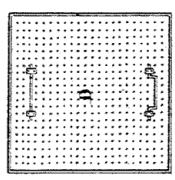


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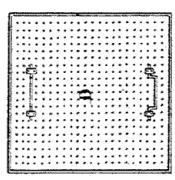


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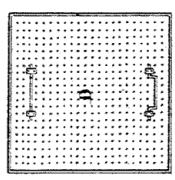


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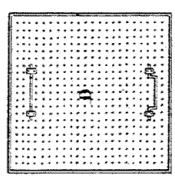


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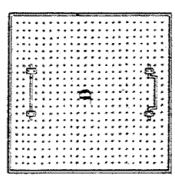


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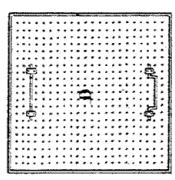


Fig. 61.

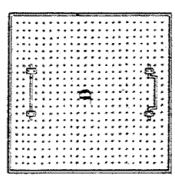


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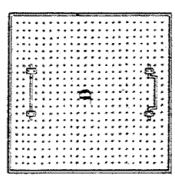


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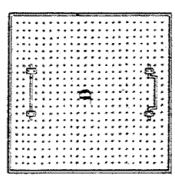


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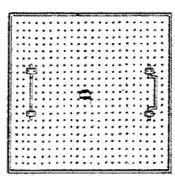


Fig. 65.

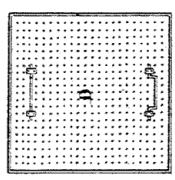


Fig. 66.

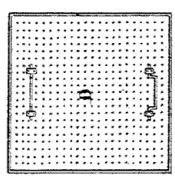


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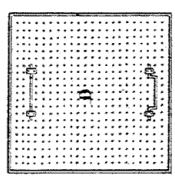


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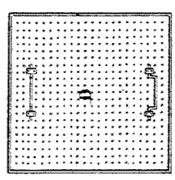


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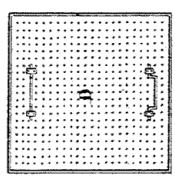


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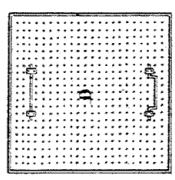


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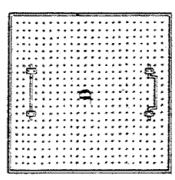


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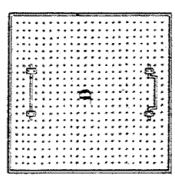


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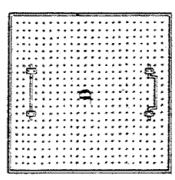


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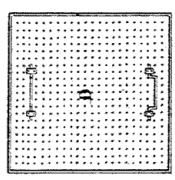


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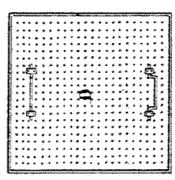


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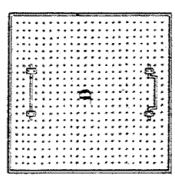


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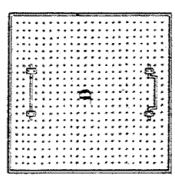


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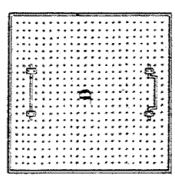


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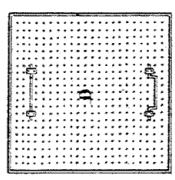


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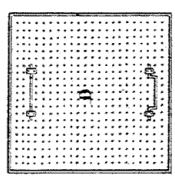


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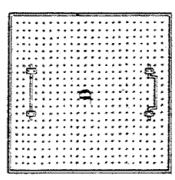


Fig. 82.

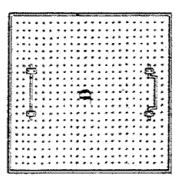


Fig. 83.

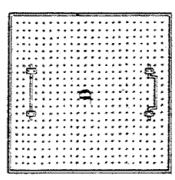


Fig. 84.

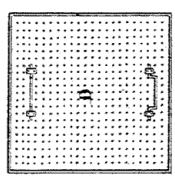


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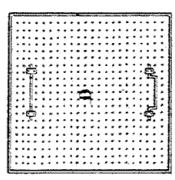


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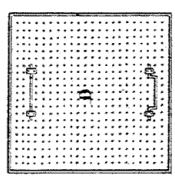


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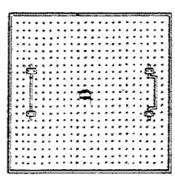
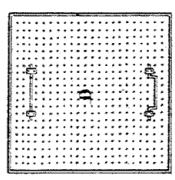


Fig. 88.



Fig

Sure. *Appareil à sacharijier la sécale*.

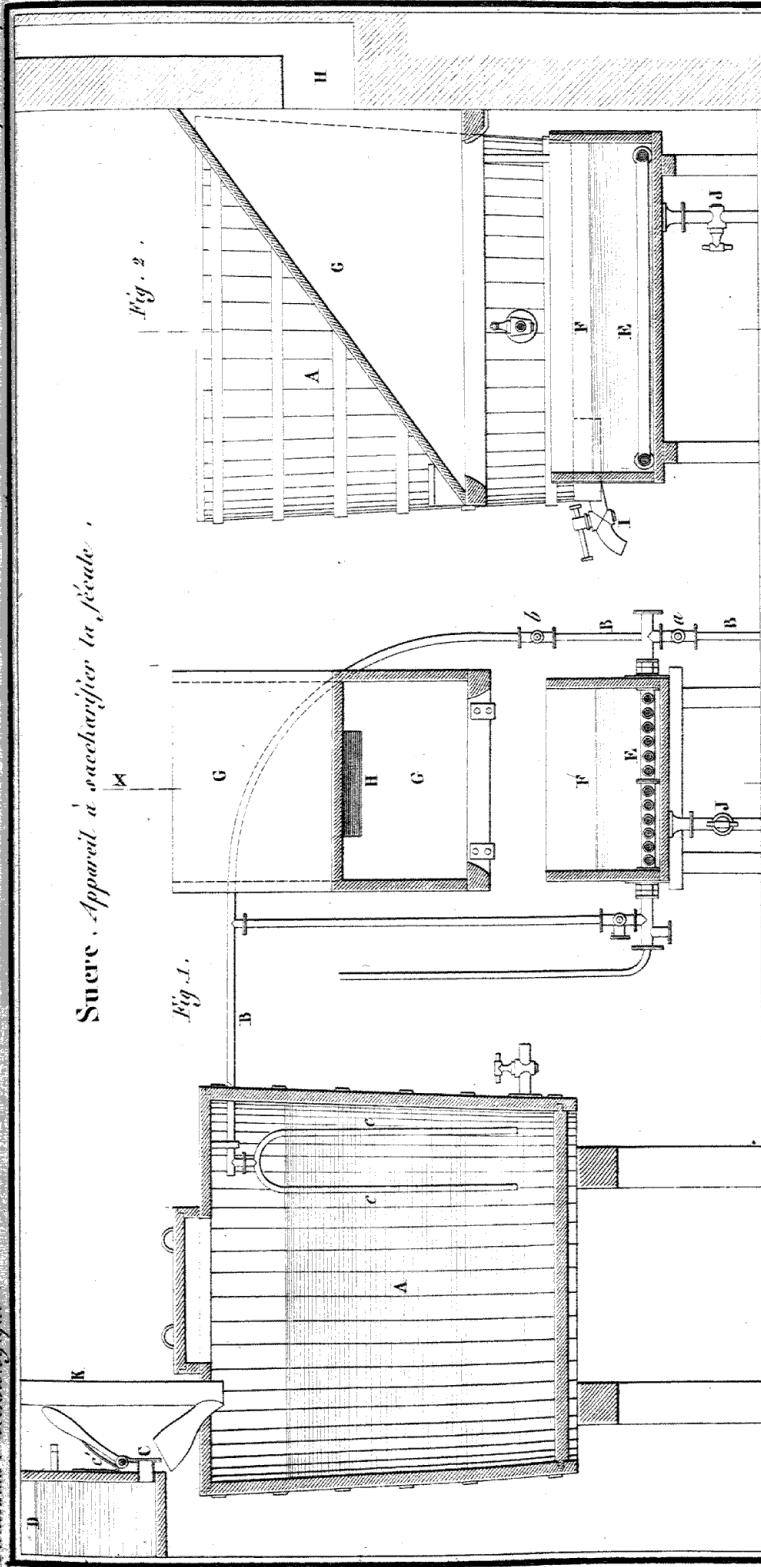
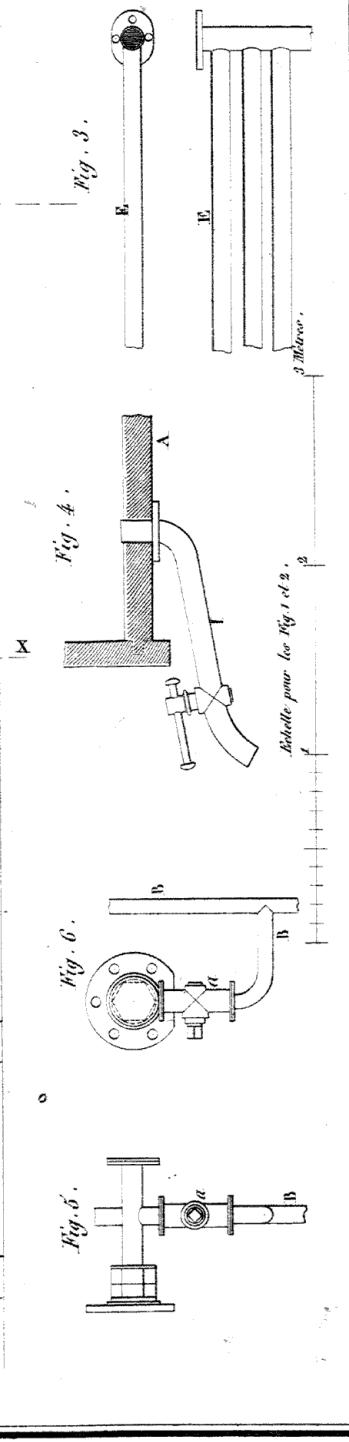


Fig. 2.



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Fabrication de la Tôle.

Fig. 1.

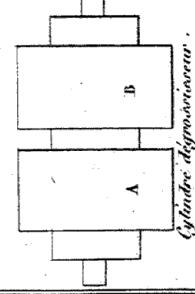


Fig. 3.

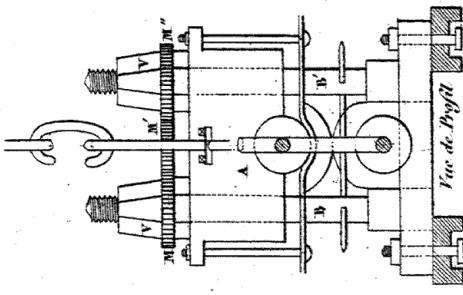


Fig. 2.

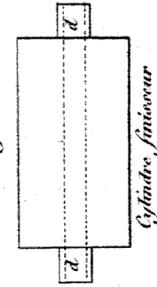


Fig. 5.

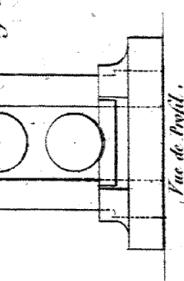


Fig. 6.

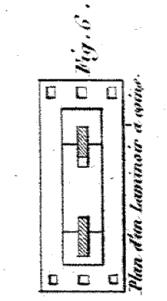


Fig. 8. Boulon dormant employé dans la fabrication de la tôle.

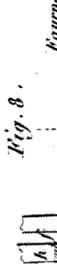
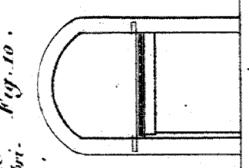


Fig. 10.



Coupe entant CD.

Fig. 10.

Coupe entant CD.

Fig. 5.

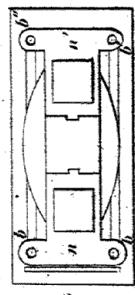


Fig. 4.

Plan d'un tamis à tôle.

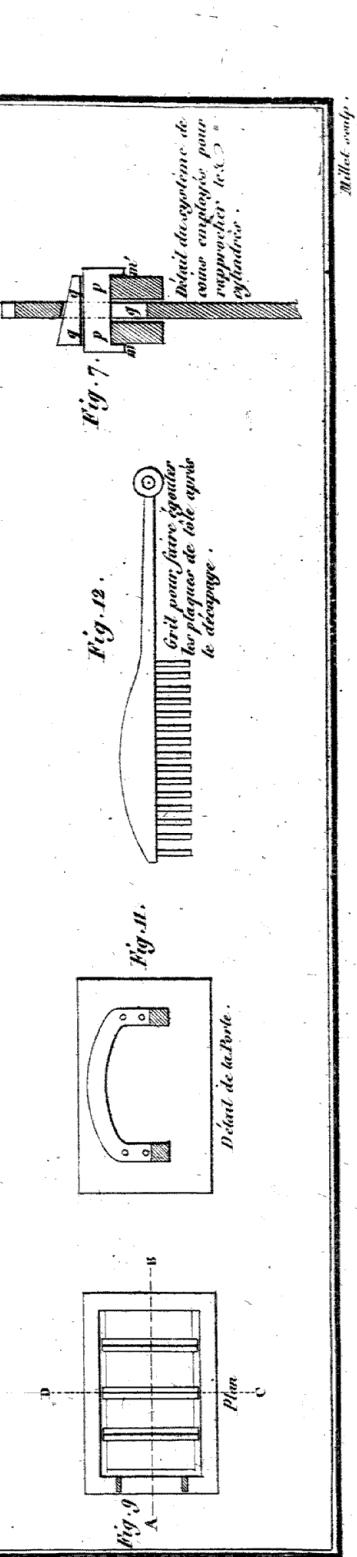
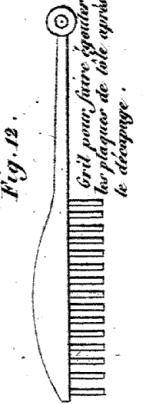


Fig. 11.



Béclat de la Presse.



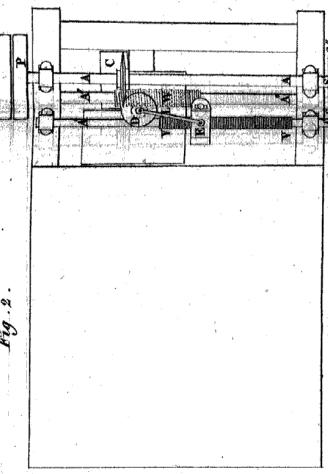
Béclat d'un opercule de cuve complèce pour rapprocher les deux cylindres.

Méth. comp.

Toiles cirées, tissus élastiques, fil de Caoutchouc.

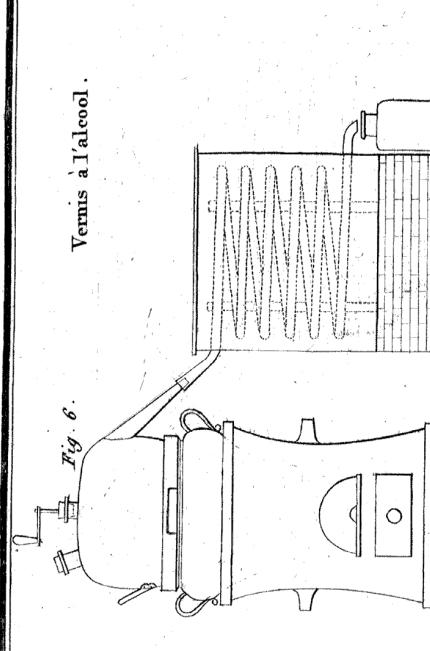
Plan de la Machine propre à dérouper
le disque de Caoutchouc.

Fig. 2.



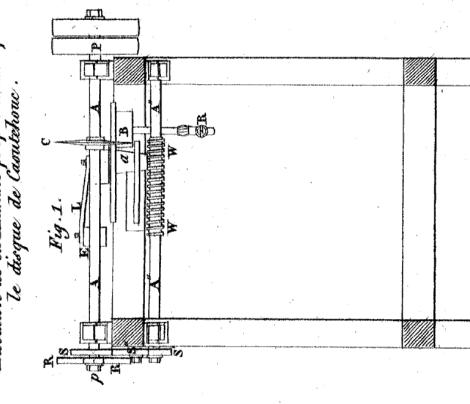
Vernis à l'alcool.

Fig. 6.



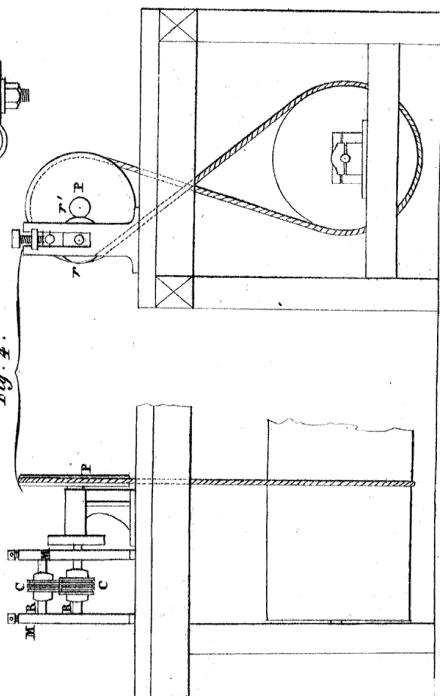
Élevation de la Machine propre à découper
le disque de Caoutchouc.

Fig. 1.



Machine propre à dérouler en fil les bandes de Caoutchouc
obtenues à l'aide de la machine représentée Fig. 1 et Fig. 2.

Fig. 4.



Fusion de la Copale.

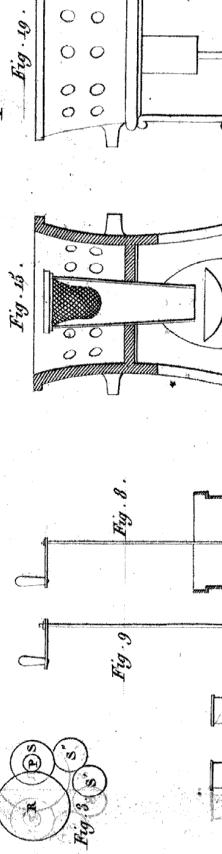


Fig. 5.

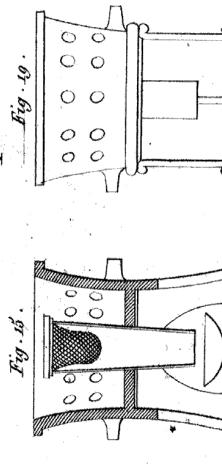


Fig. 9.

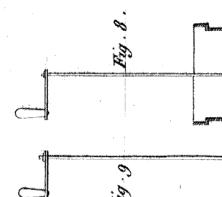


Fig. 8.

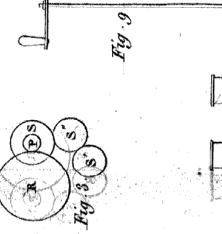


Fig. 3.

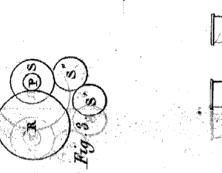


Fig. 2.



Fig. 1.

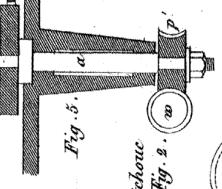


Fig. 5.

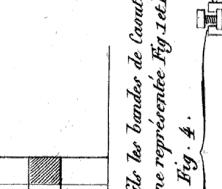


Fig. 4.

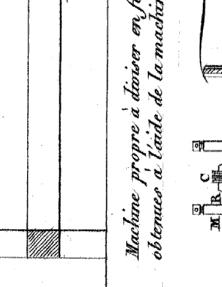


Fig. 3.

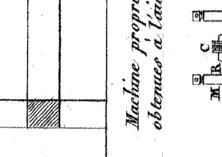


Fig. 2.

Fig. 1.

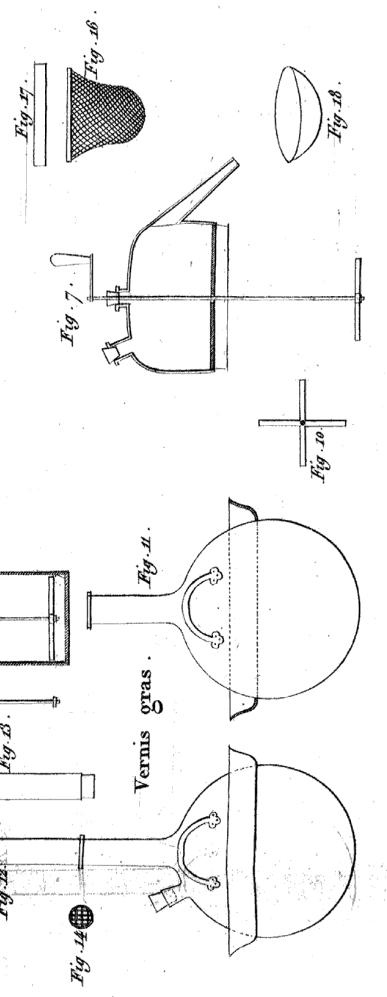


Fig. 11.



Fig. 12.



Fig. 13.



Fig. 14.



Fig. 15.



Fig. 16.

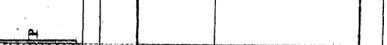


Fig. 17.

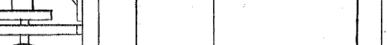


Fig. 18.

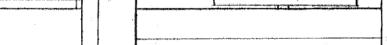
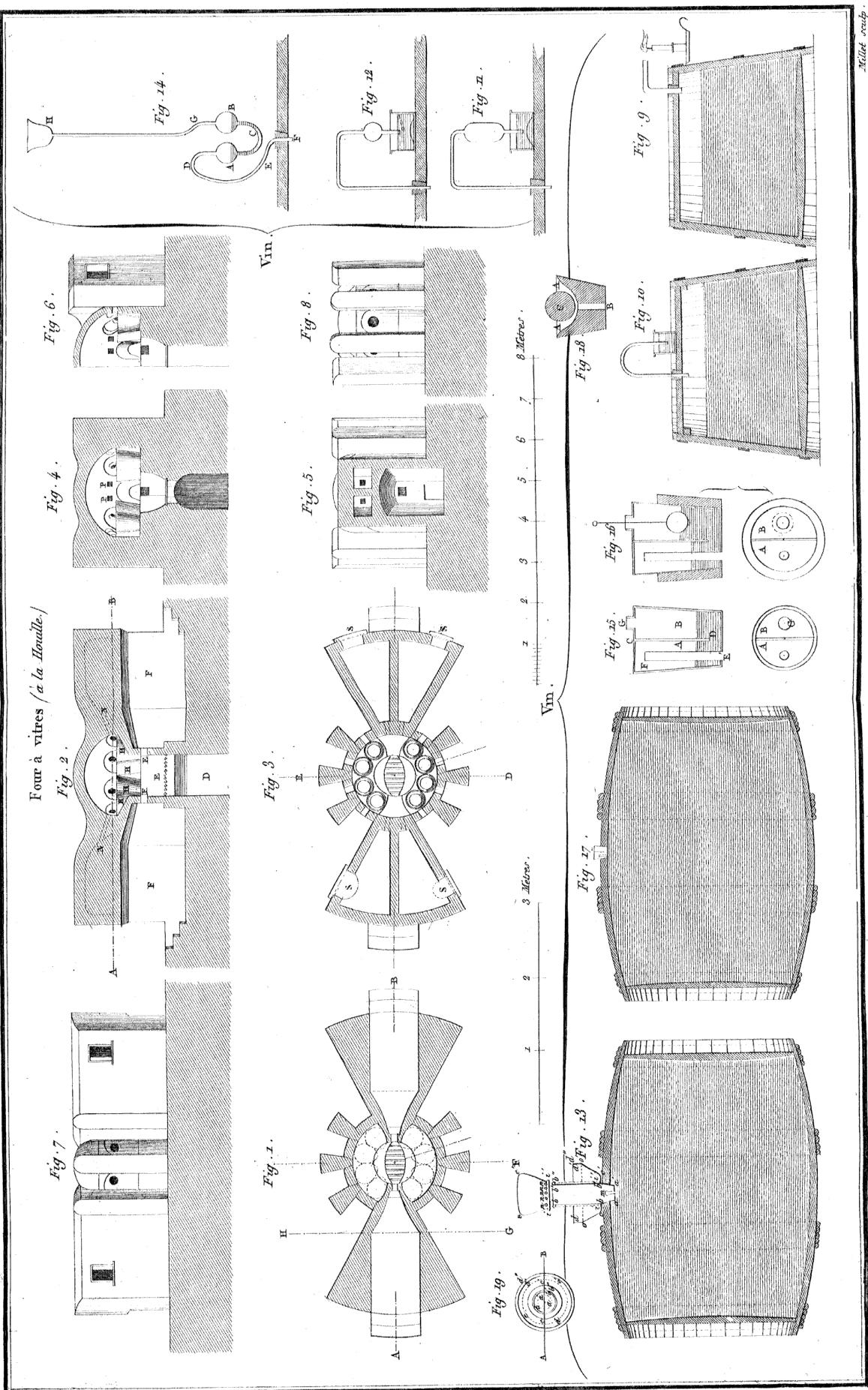


Fig. 19.



Fig. 20.



Verre à vitres (*au bois*)

Fig. 3.

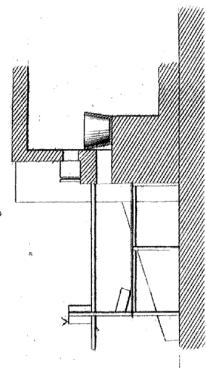


Fig. 1.

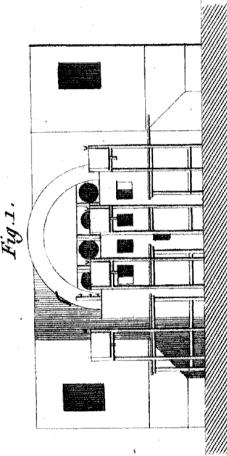


Fig. 6.

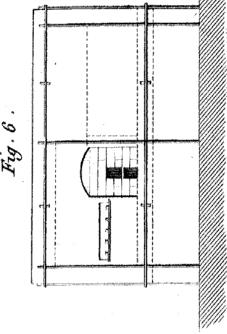


Fig. 8.

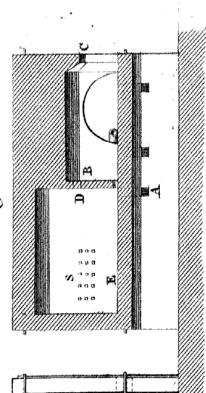


Fig. 2.

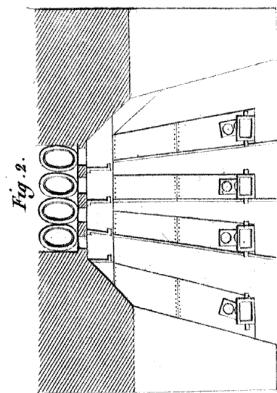


Fig. 4.

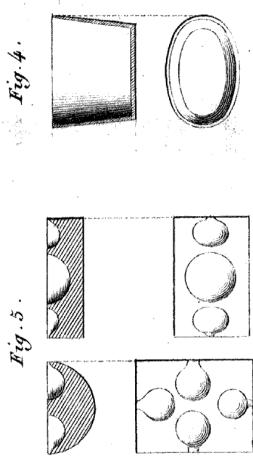
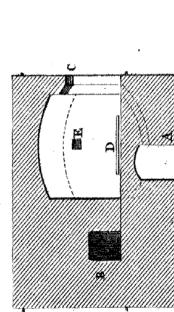
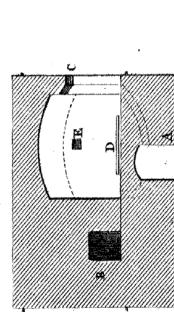


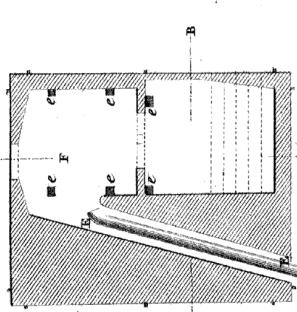
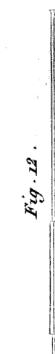
Fig. 9.



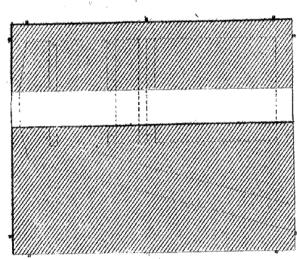
212



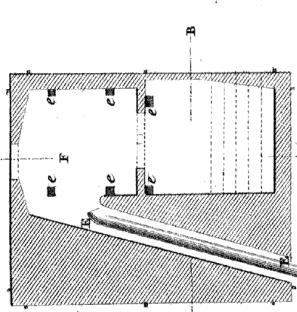
102



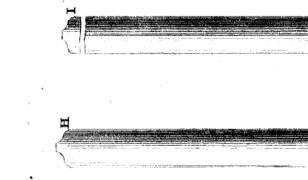
C



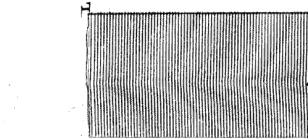
26



Facsimiles des Vitres



A technical line drawing of a rectangular frame. Inside the frame, there is a central vertical column with two horizontal cross-bars. The top horizontal bar has two small rectangular protrusions labeled 'e'. The bottom horizontal bar has two similar protrusions labeled 'e'. The left side of the frame has a vertical section with two horizontal protrusions labeled 'e'. The right side of the frame has a vertical section with two horizontal protrusions labeled 'e'. The top edge of the frame is labeled 'B' at the center. The bottom edge of the frame is labeled 'D' at the center. The left edge of the frame is labeled 'C' at the center. The right edge of the frame is labeled 'A' at the center. The entire drawing is rendered in black and white with cross-hatching for shading.

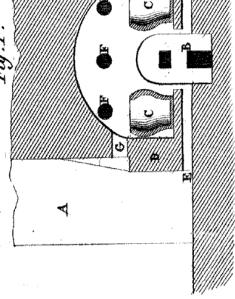


D. 2000.001

Verre en tables.

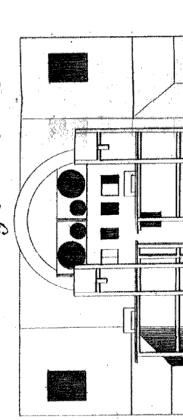
Four à bouillies.

Fig. 1.



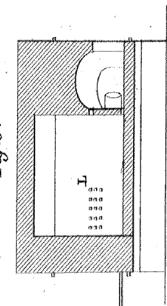
Four à verre en tables.

Fig. 3.



Four à étendre le verre en tables.

Fig. 5.



Four à étendre le verre en tables.

Fig. 6.

Fig. 2.

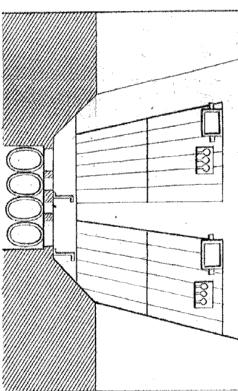
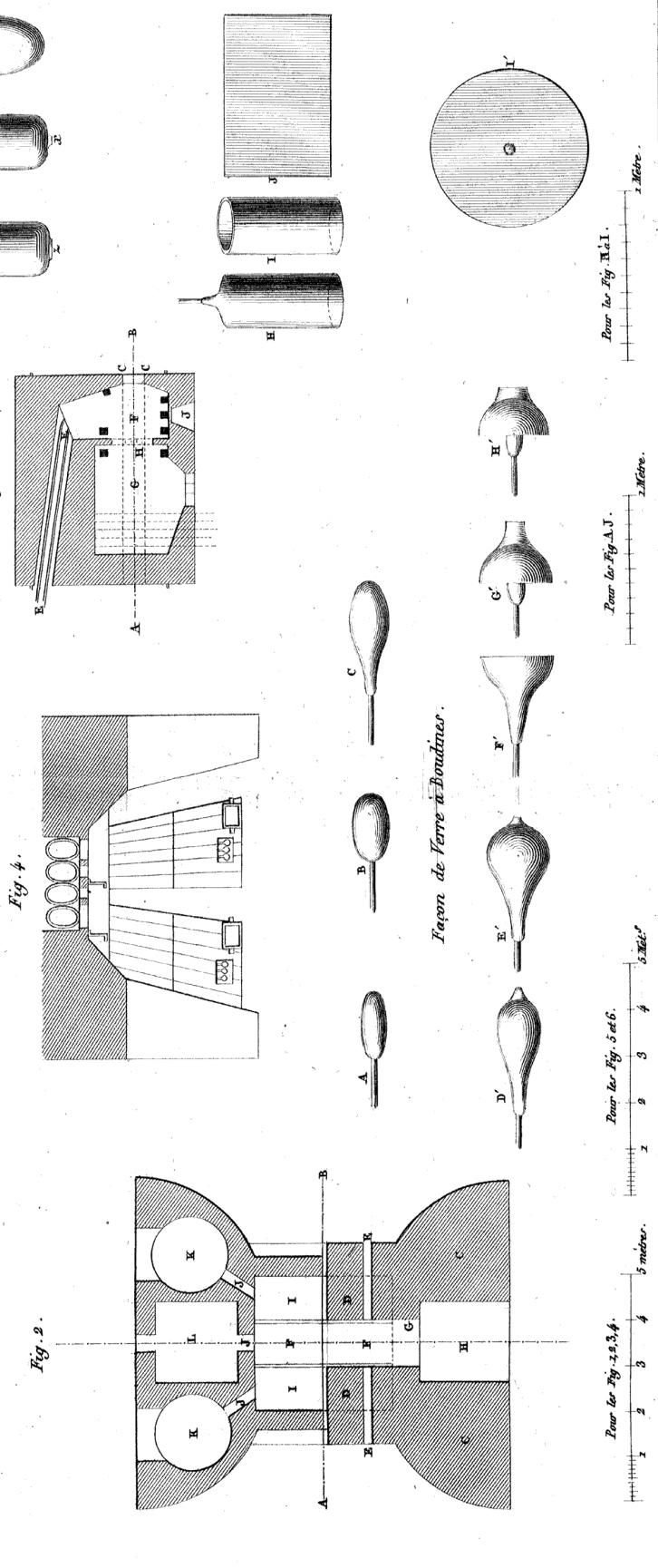
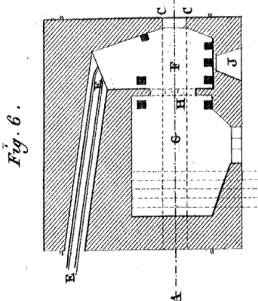


Fig. 4.



Four à glaces coulées.

Fig. 1.

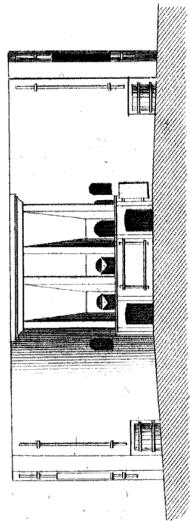


Fig. 2.

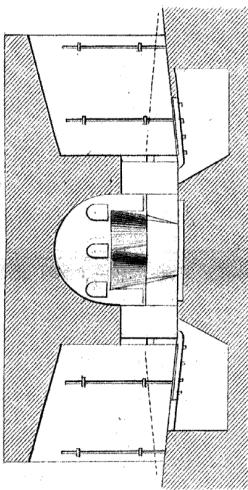


Fig. 3.

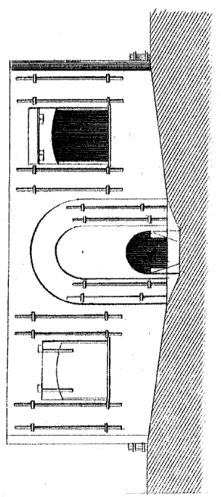


Fig. 4.

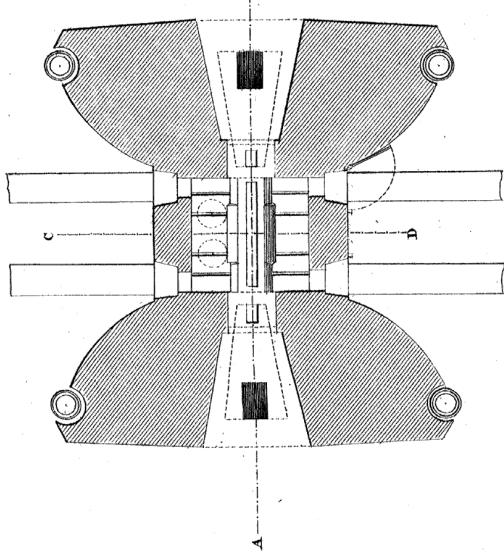


Fig. 5.

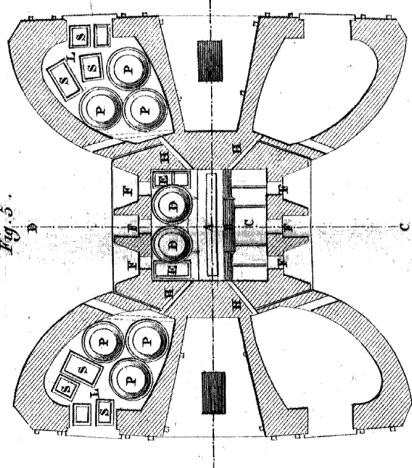
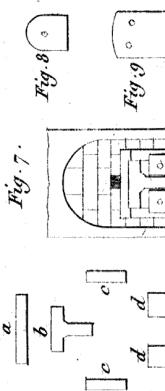
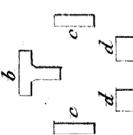
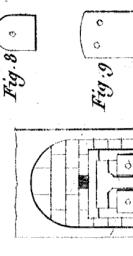
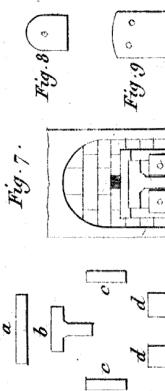
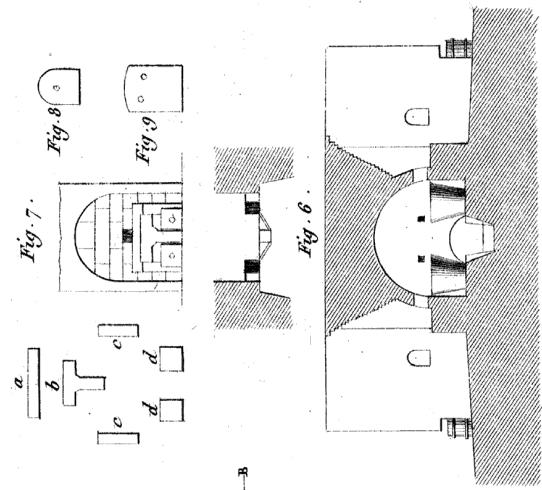


Fig. 6.



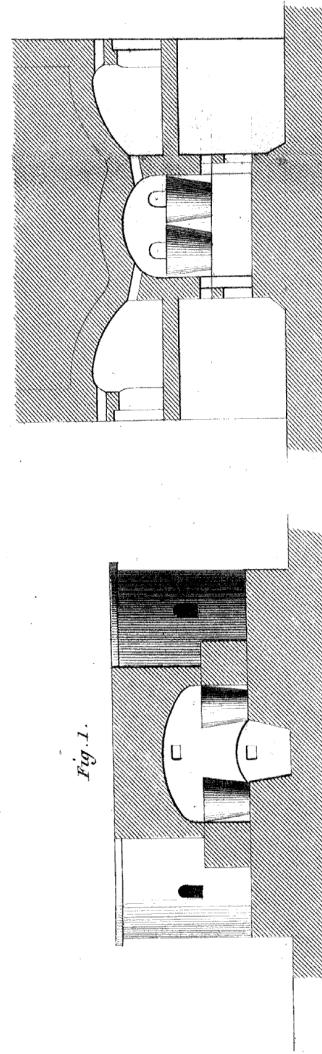
24 Pieds

12 Mètres

Verrerie allemande.

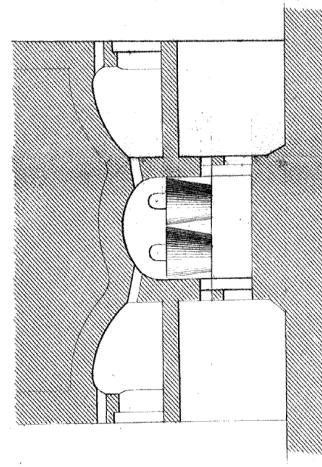
Four à bouteilles,
(chauffé au bois.)

Fig. 1.



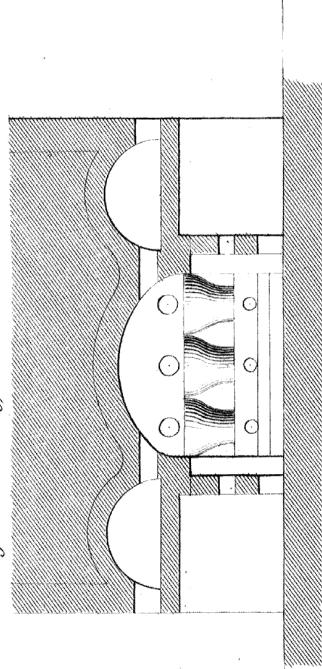
Four à bouteilles,
chauffé au bois.

Fig. 2.



Four à bouteilles,
chauffé au bois.

Fig. 3.



Verrerie allemande.

Four à bouteilles,
chauffé au bois.

Fig. 4.

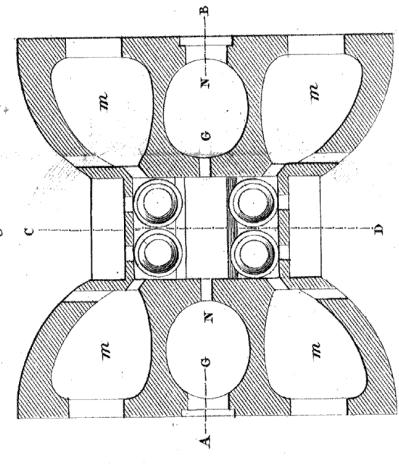


Fig. 5.

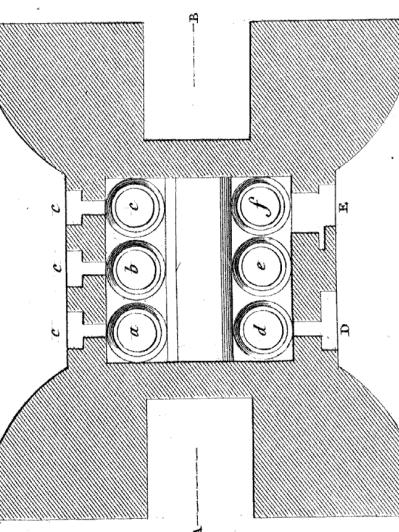
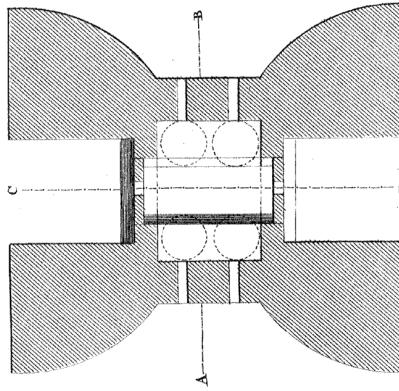
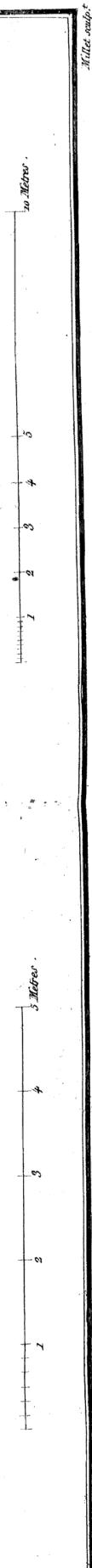


Fig. 6.



Vins (Fabrication.)

Appareil Collardien pour mesurer la résistance des bouteilles et autres vases de verre.

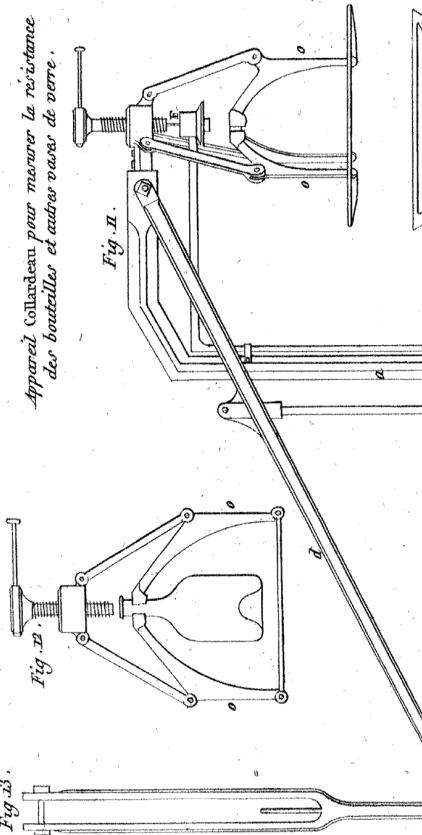


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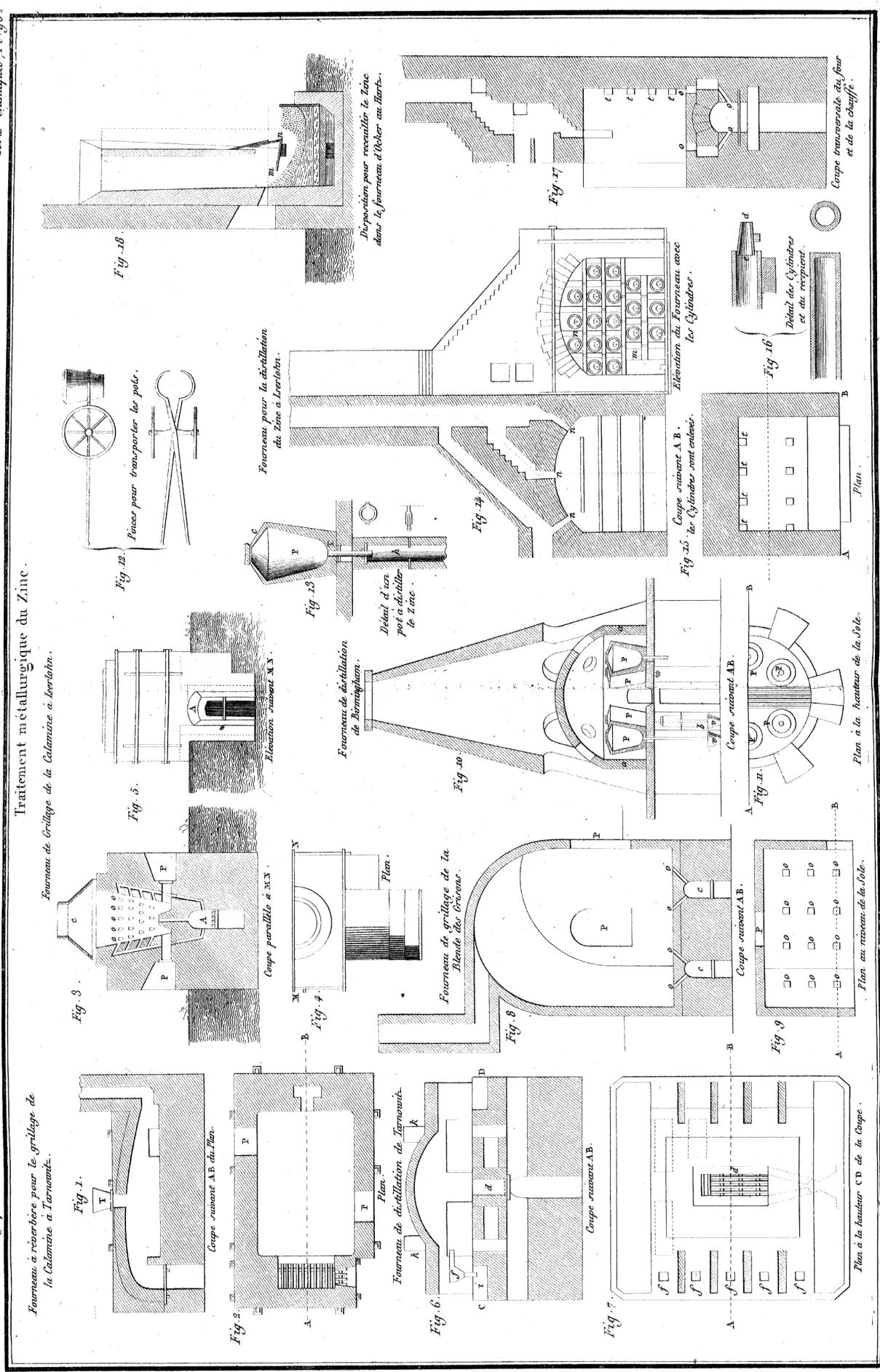
Fig. 280.

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Fig. 282.

Fig. 283.

Fig. 284.



ARTS CHIMIQUES.

DÉTAIL DES PLANCHES.

Nos. d'ordre.

1. Appareil pour la fabrication du vinaigre radical par le verdet, fabrication de l'acide pyroligneux.
2. Appareil pour la fabrication de l'acide nitrique et de l'acide hydrochlorique.
3. Appareil pour la fabrication de l'acide sulfurique.
4. Appareils de chimie.
5. Argent, amalgamation.
6. Assainissement, tuyaux ventilateurs, mesure de la vitesse de l'air.
7. Bagasse, bière, bleu, briquettes.
8. Blanchiment, blanchissage.
9. Borax, bronze.
10. Caléfacteur et cuisine, chaleur, rayonnement.
11. Carbonates d'ammoniaque, céruse.
- 11 bis. Chaleur, cheminées et poèles.
12. Chaleur, calorifères.
13. Chaleur et combustible, calorimètre de glace, calorimètre d'eau, charbon.
14. Chaux (fours à).
15. Colle forte, cristal, cheminées.
16. Chlorate de potasse, chloromètre, moulin à cacao.
17. Cirier.
18. Coupellation, coupelles, cuves.
19. Cuir de Russie, cuisine salubre.
20. Désinfection, eudiométrie, travail du fer.
21. Distillation, digesteur.
22. Eaux minérales artificielles.
23. Gazomètre.
24. Éclairage au gaz.
25. Éclairage au gaz ligth.
26. Éclairage au gaz ligth de la houille, décolorimètre, et partie de la planche 25.
27. Étain, travail de l'étain en Angleterre, lavage de l'étain en Saxe.
28. Étuve, gazomètre, gélatine.
29. Fonte (fusion des minéraux de fer), haut fourneau au charbon de bois, haut fourneau au coke.
30. Fonte, affinage de la fonte, plan d'une affinerie.
31. Fonte moulée (travail de la), fourneau à réverbère, fourneau à manche.
32. Fourneaux des chaudières à vapeur.
33. Fourneaux pour le traitement du minerai de cuivre.
34. Fourneaux pour l'affinage du cuivre.
35. Fourneaux pour le cristal.
36. Fourneaux de laboratoire, fourneaux de cuisine.
37. Préparation et coulage des glaces, plan d'une halle, coupe du four.
38. *Idem.* *Idem.* plan géométral du four.
39. *Idem.* *Idem.* chariot à tenailles, grande et petite cuvettes, potence.
40. Goudron, hydrogène carboné, houblon.
41. Incubation artificielle et régulateur du feu.
42. Moulin pour broyer l'indigo, laboratoire de chimie.
43. Laboratoire de chimie.
- 43 bis. Laiton, fourneaux à laiton et à recuire les feuilles de laiton.
44. Liège, mastic.
45. Orseille, manganèse, nitrate d'argent fondu.
46. Traitement du mercure.
47. *Idem.* *Idem.*
48. Métallurgie (préparation mécanique du minerai)
49. Mines (exploitation des).
- 50 et 51 une seule planche. Mortiers et noirs.
52. Phosphore, potassium, pipettes.

Nos. d'ordre.

53. Pierres à fusil, moulin à tailler et polir les agathes, les pierres précieuses.

54. Fourneaux employés dans le traitement du minerai de plomb.

55. Plâtre, pomme de terre, piquette.

56. Peintures vitrifiables.

57.

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60. **Poteries, arts chimiques et céramiques.**

61. Four à cuire les poteries, four à cuire les céramiques, four à cuire les grès.

62. Four à cuire les grès, four à cuire les céramiques, four à cuire les grès.

63. Four à cuire les grès, four à cuire les céramiques, four à cuire les grès.

64. **Poudre à canon (fabrication).**

65. **Fabrication du savon.**

66. **Réfrigérant des brasseurs.**

67. **une seule planche. Résine, rhum, salle de spectacle (salubrité).**

68 et 69 **une seule planche. Résine, rhum, salle de spectacle (salubrité).**

70. **Salines.**

71 et 72 **une seule planche. Fabrication du savon.**

73. **Soufre (fabrication).**

74. **Sel ammoniac (fabrication).**

75. **Séchoirs à chaud et à froid, soude.**

76. **Soude, sucre.**

77. **Sucre, laveur de betteraves.**

78. **Sucre, râpe à betteraves.**

79. **Sucre, atelier de fabrication.**

80. **Sucre, presse à cylindres.**

81. **Sucre, divers ustensiles.**

82. **Sucre, système de filtres et de chaudières, pompe à sonnette, chaudière à dégouler.**

83. **Sucre, appareil à cuire les sirops.**

84. **Sucre, appareil à cuire les sirops.**

85. **Sucre, moulins ou pressoirs des cannes à sucre.**

86. **Sucre, filtres de Taylor, filtres de Dumont.**

87. **Sucre, appareil à saccharifier la fécale.**

88. **Fabrication de la tôle.**

89. **Toiles cirées, tissus élastiques, fil de caoutchouc, vernis à l'alcool, vernis gras, fusion de la copale.**

90. **Four à vitres, à la houille, vin (ustensiles pour la fabrication).**

91. **Verre à vitres (au bois).**

92. **Verre en tables.**

93. **Four à glaces coulées.**

94. **Verrerie allemande.**

95. **Vin (fabrication du).**

96. **Traitement métallurgique du zinc.**