

fig.1

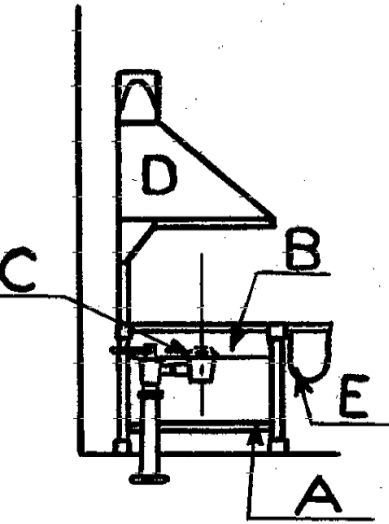


fig.2

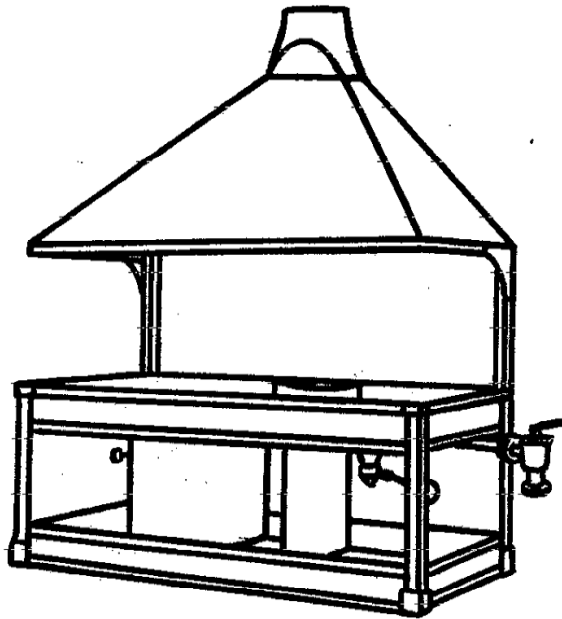


fig.3

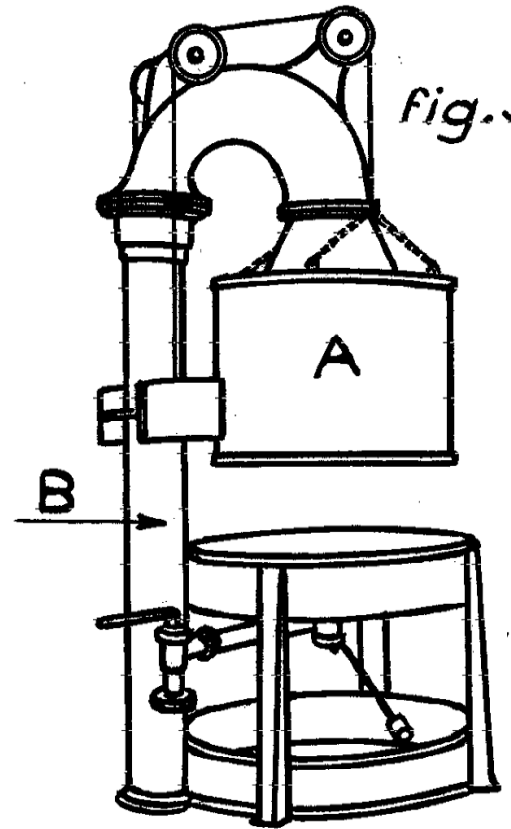


fig.4

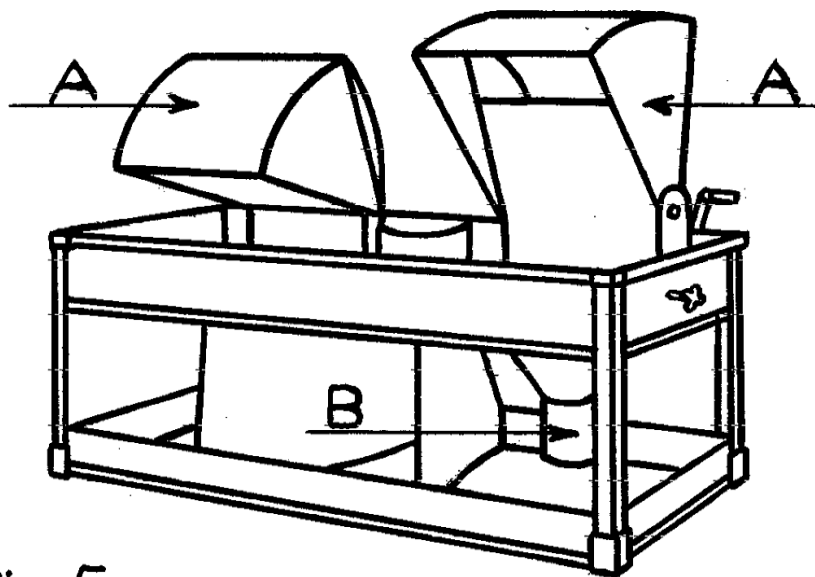


fig.5

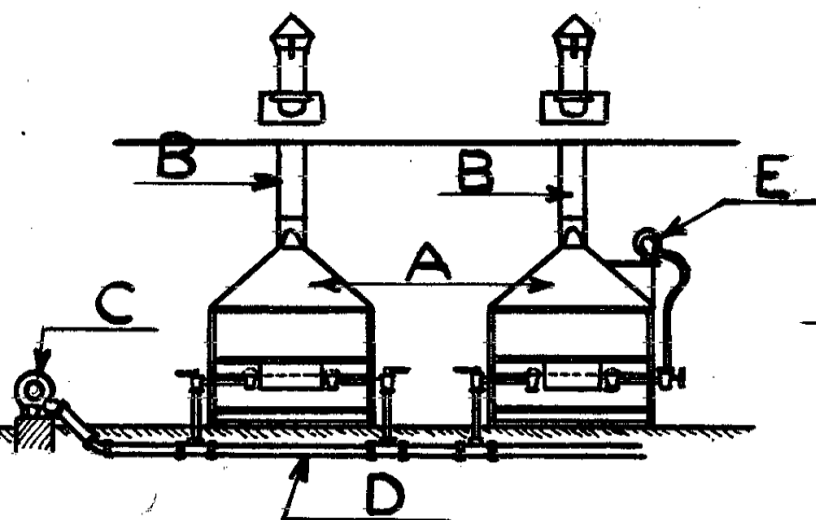
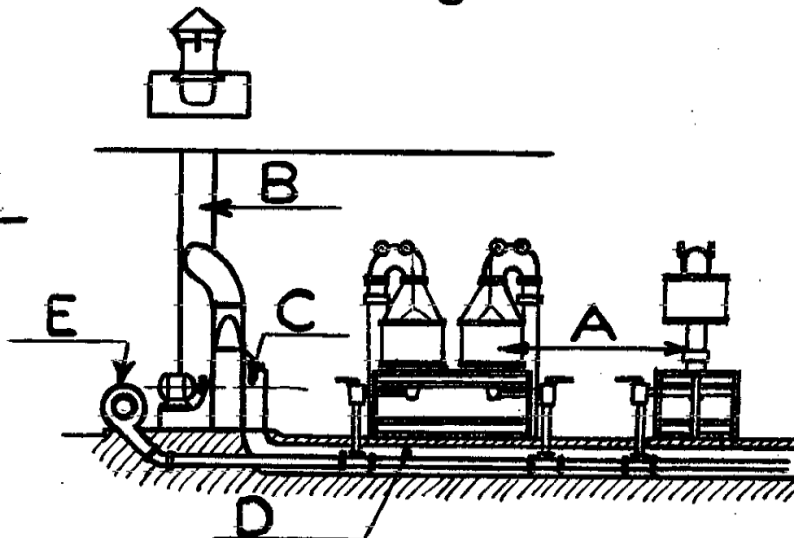


fig.6



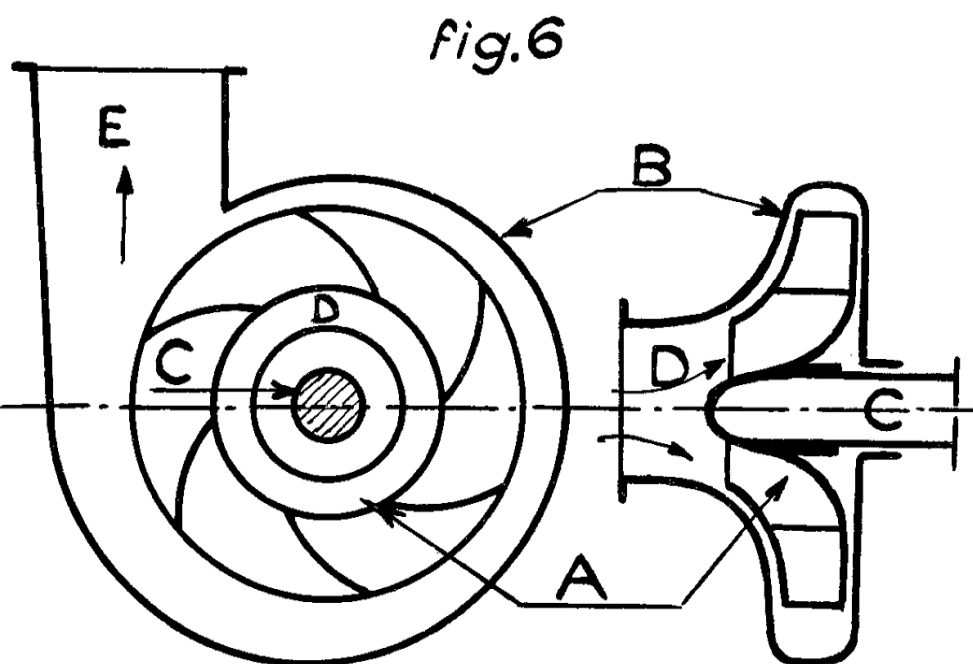
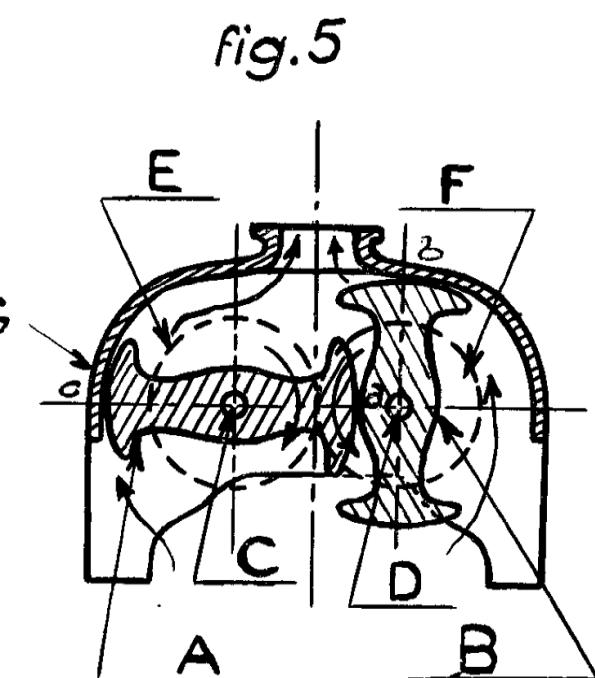
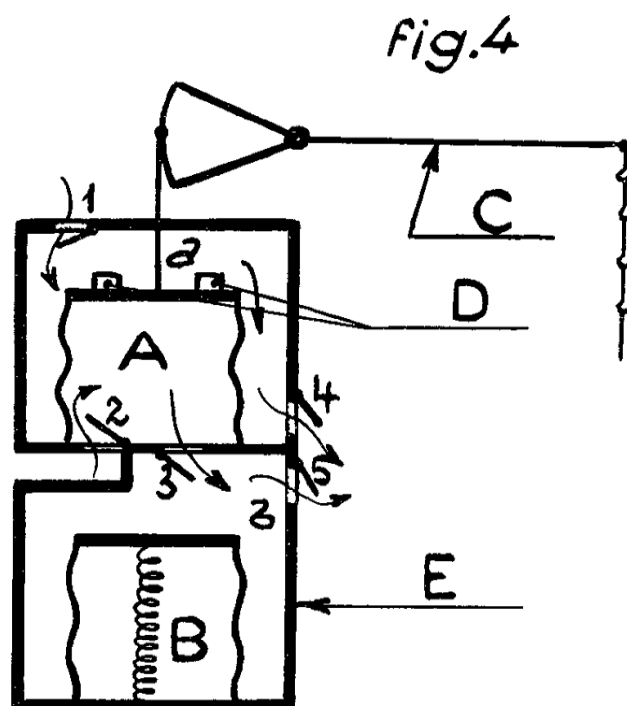
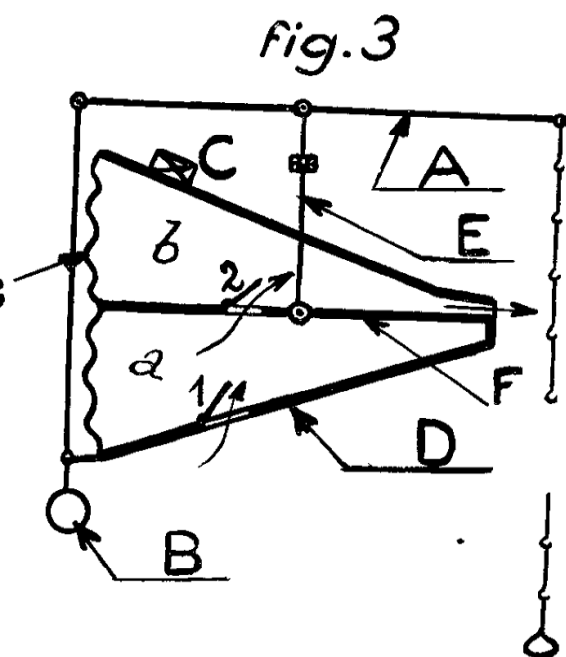
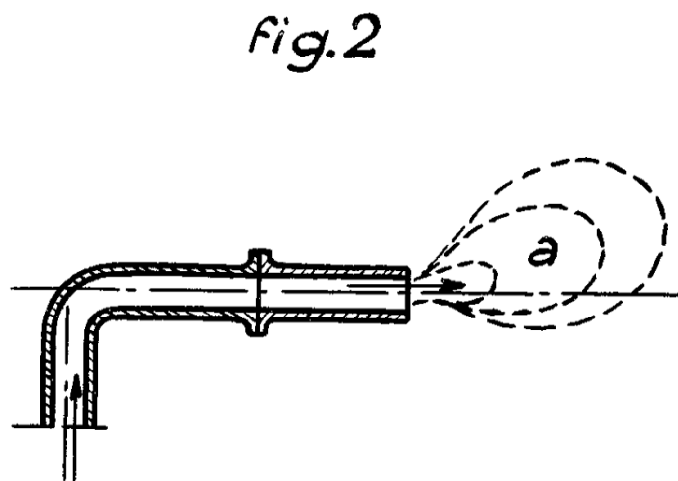
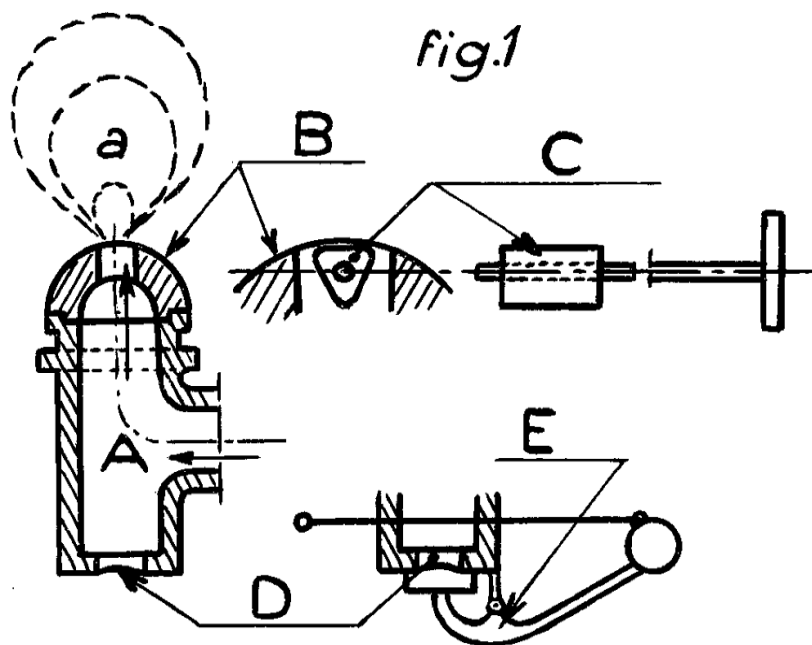


Fig.1



Fig.2



Fig.3



Fig.4



Fig.5

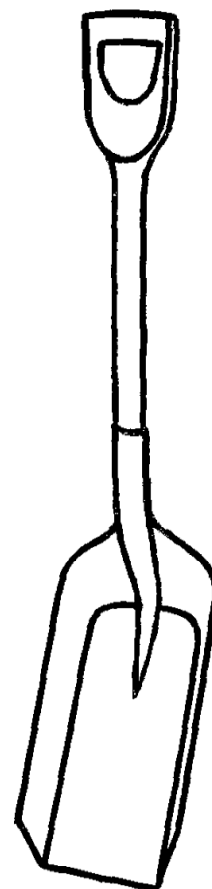


Fig.6

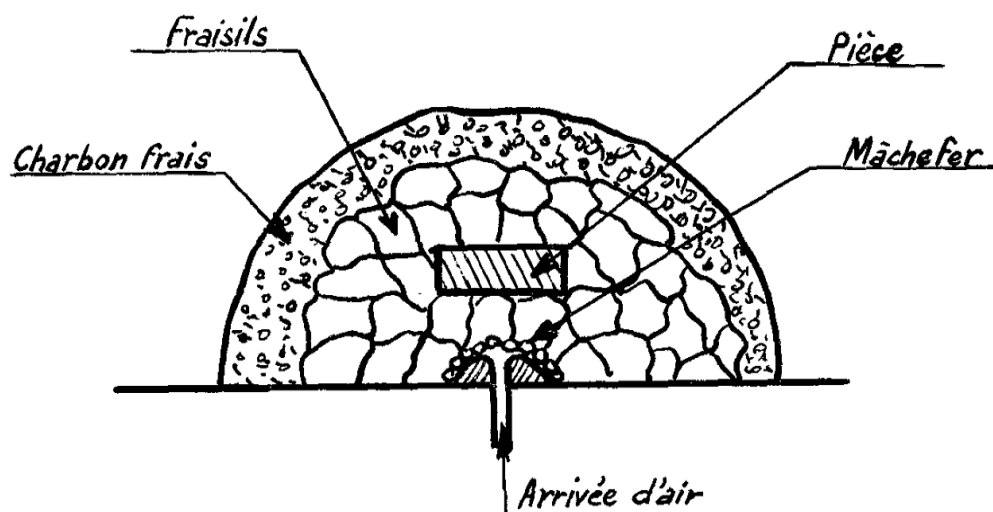


fig.1

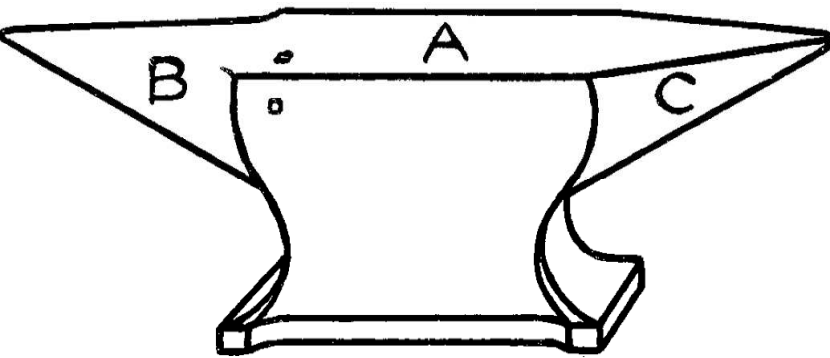


fig.2

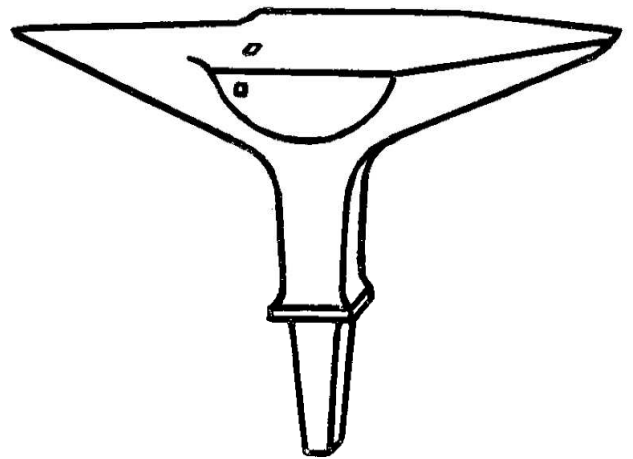


fig.3



fig.4



fig.5

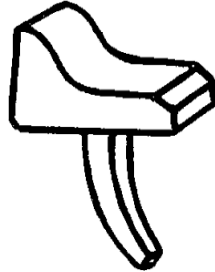


fig.6

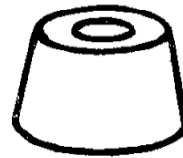


fig.7



fig.8

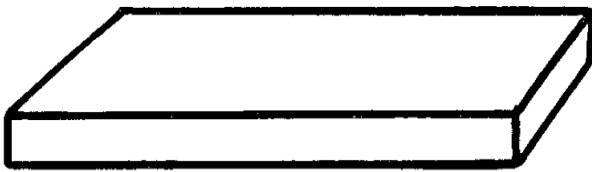


fig.10

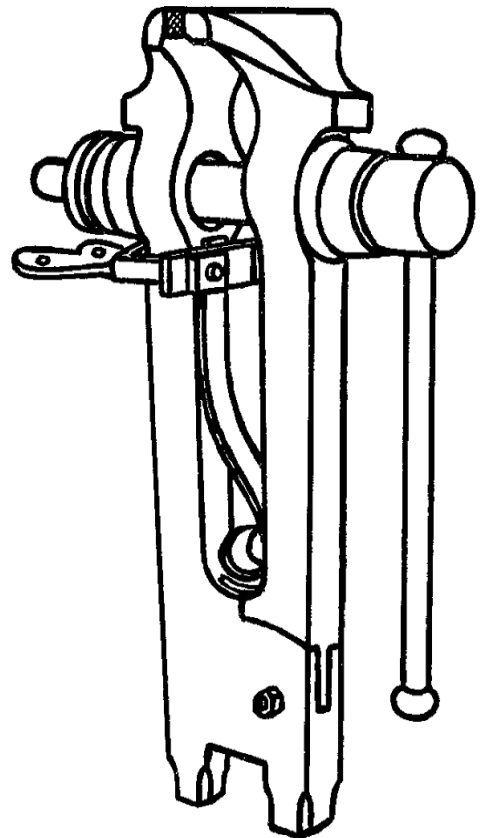


fig.9

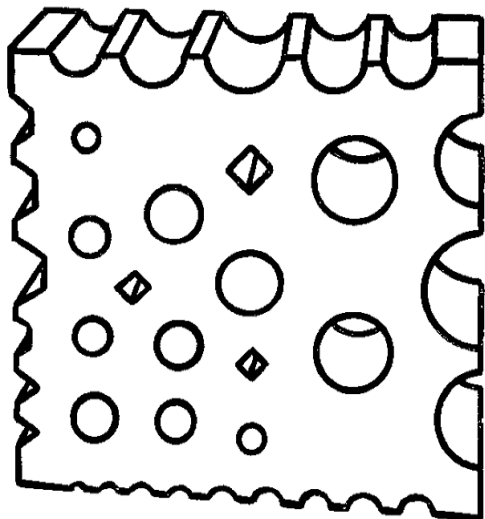


Fig.1 Fig.2 Fig.3 Fig.4 Fig.5 Fig.6 Fig.7 Fig.8 Fig.9 Fig.10

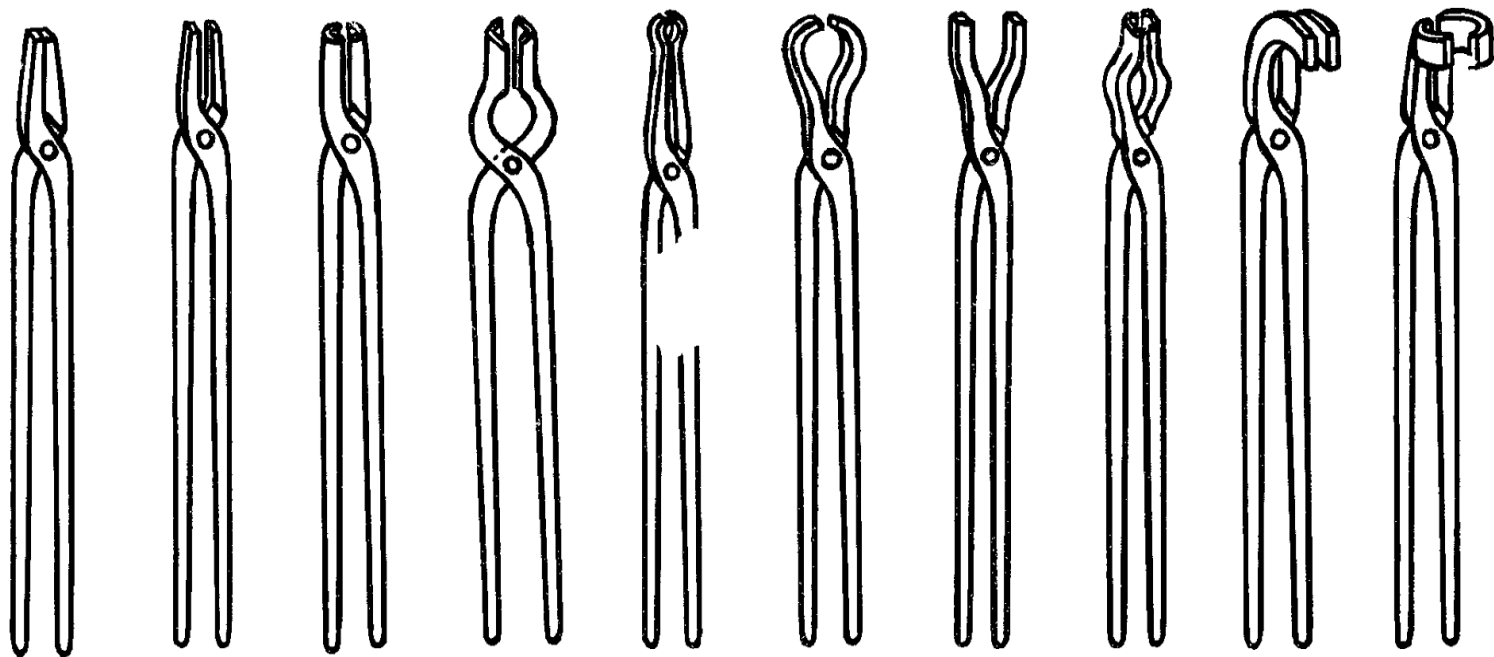


Fig.11

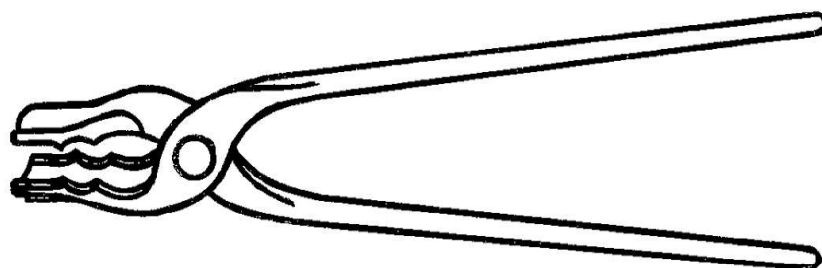


Fig.12

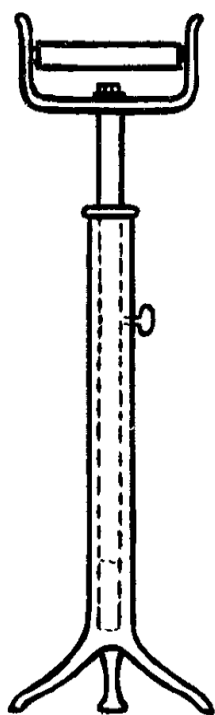


Fig.13

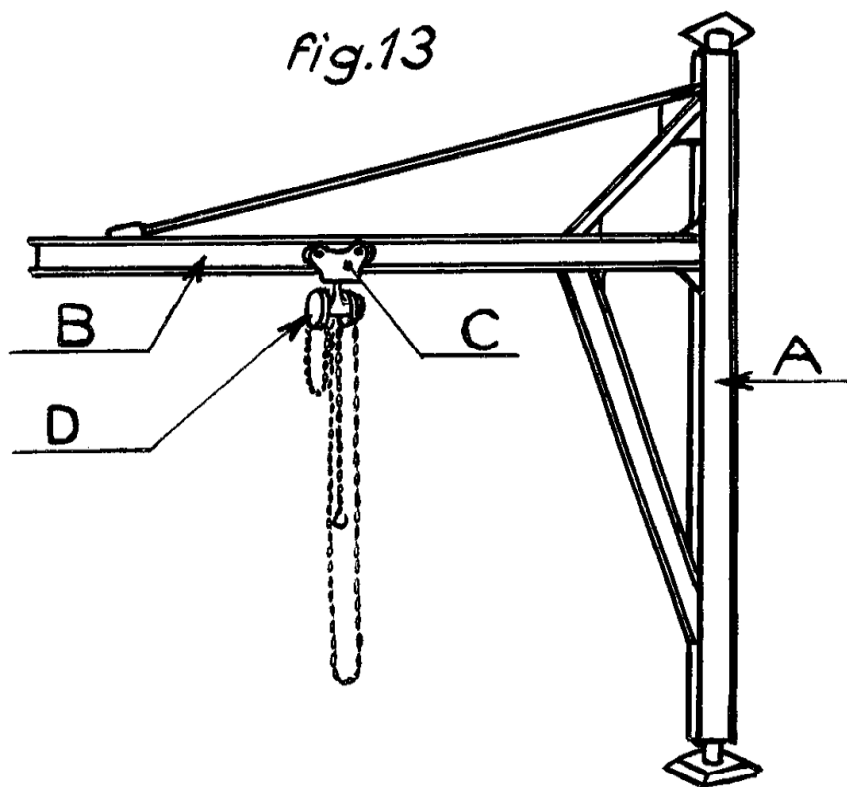


fig.1

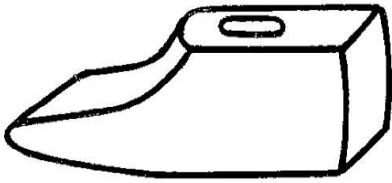


fig.2

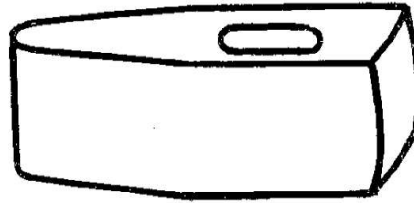


fig.3

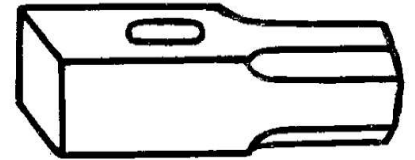


fig.4

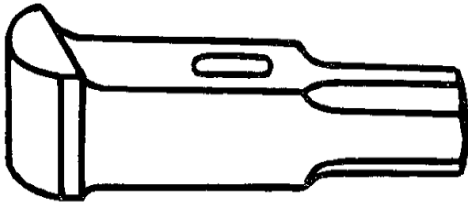


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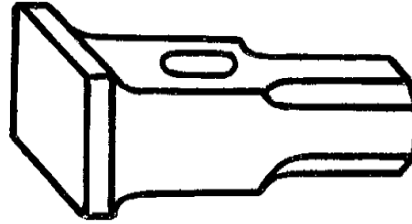


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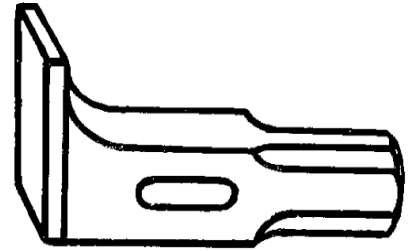


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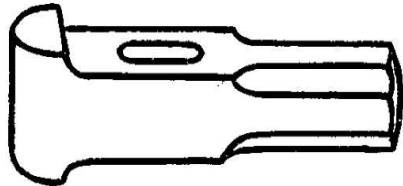


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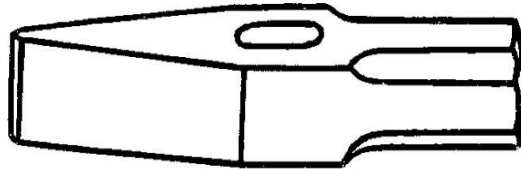


fig.9

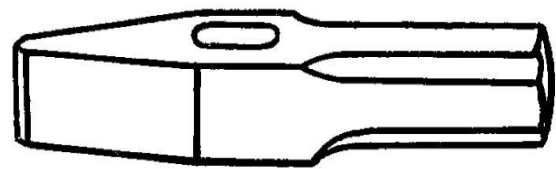


fig.10



fig.11

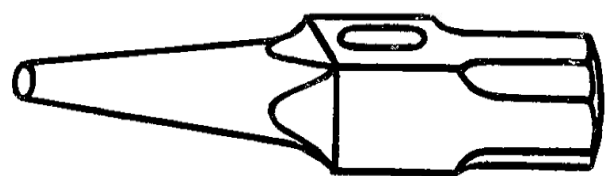


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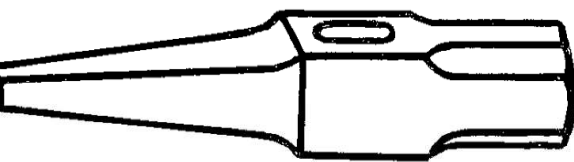


fig.13

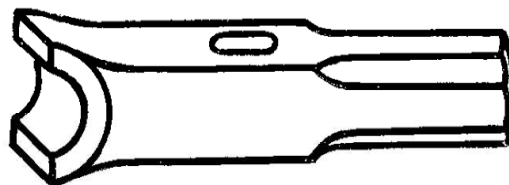


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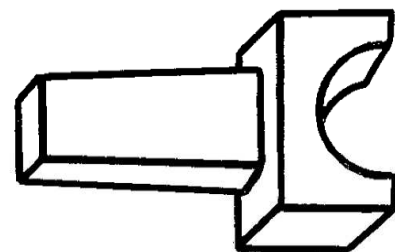


fig.15



fig.16

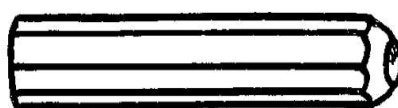
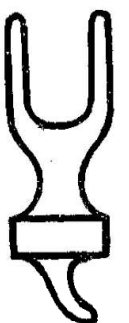


fig.17



Spaullements

Fig. 1



Fig. 1^{bis}



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 7

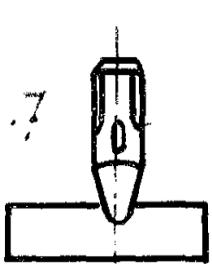


Fig. 8

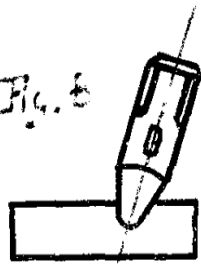


Fig. 6



Fig. 9

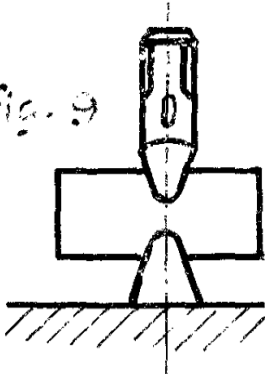


Fig. 10

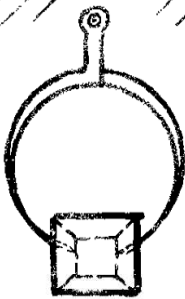
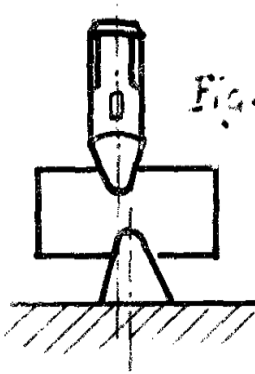


Fig. 11

Fig. 12

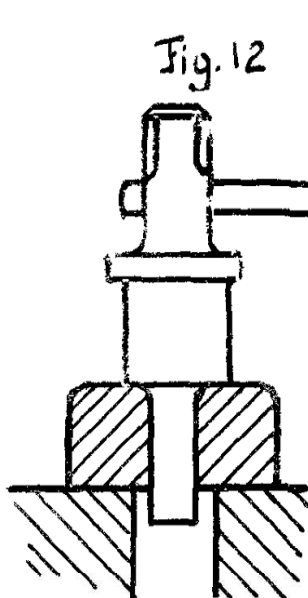
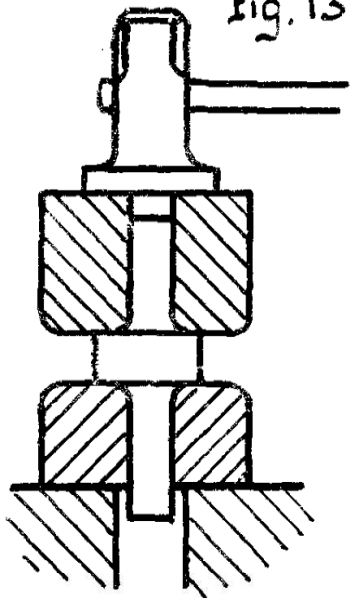


Fig. 13



— Stampage —

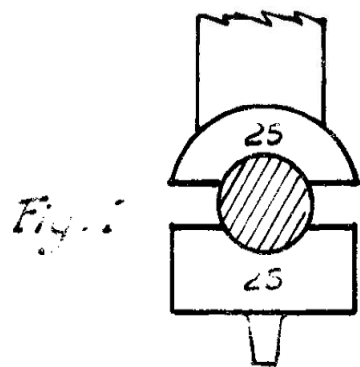


Fig. 1

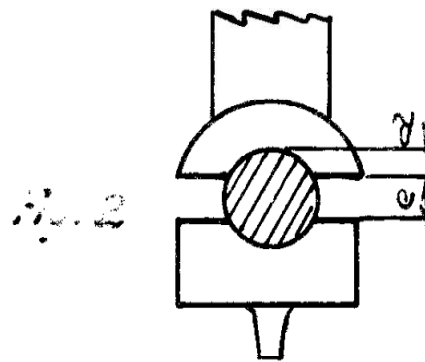


Fig. 2

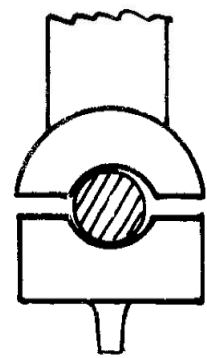


Fig. 3

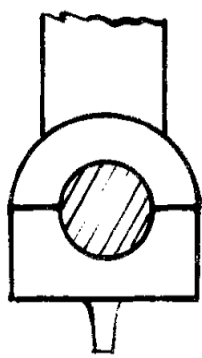


Fig. 4

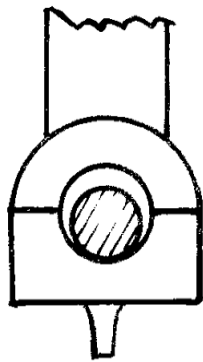


Fig. 5

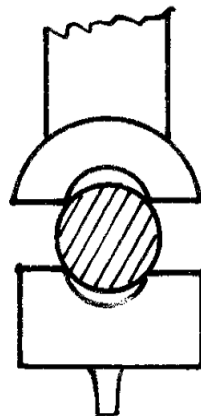


Fig. 6

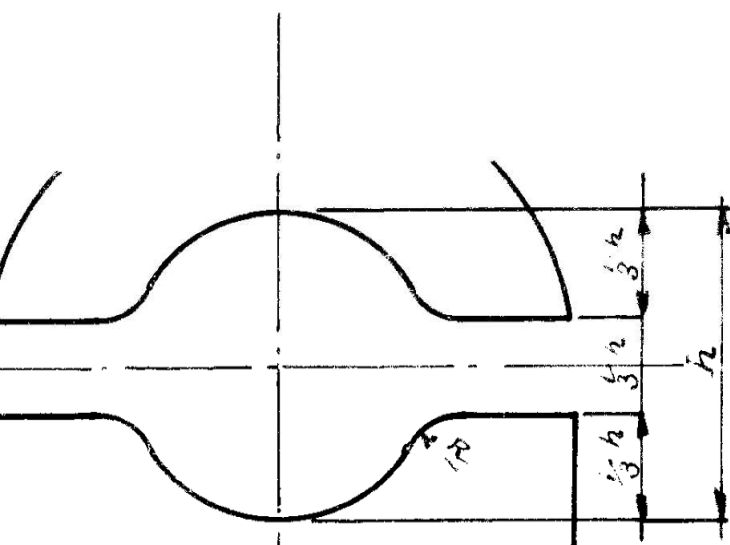
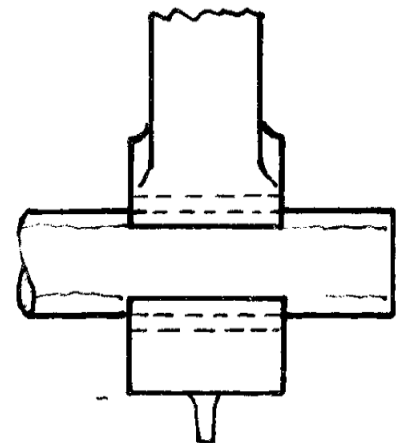


Fig. 7

h : ϕ maximum
à l'entrée
 R : ϕ minimum

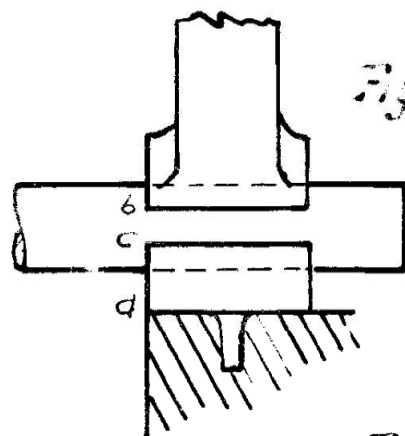


Fig. 8

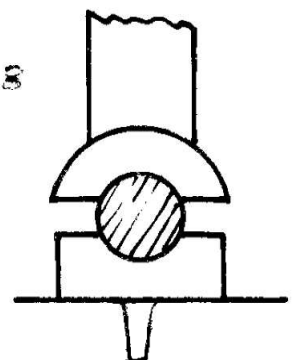
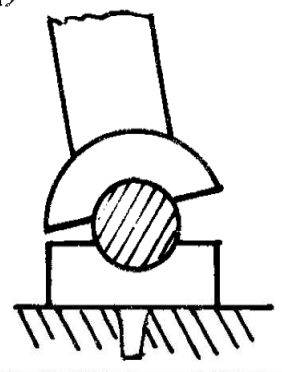
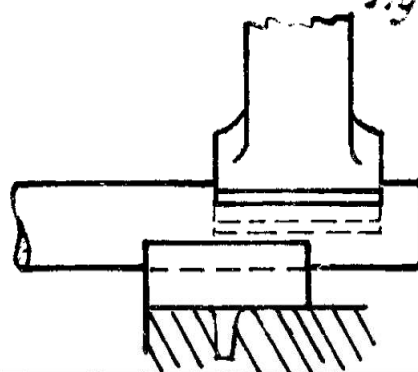


Fig. 9



Torsion



Fig. 1



Fig. 2



Fig. 3



Fig. 4

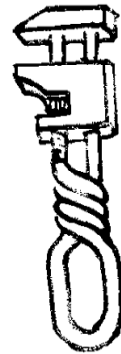


Fig. 5

Refoulage

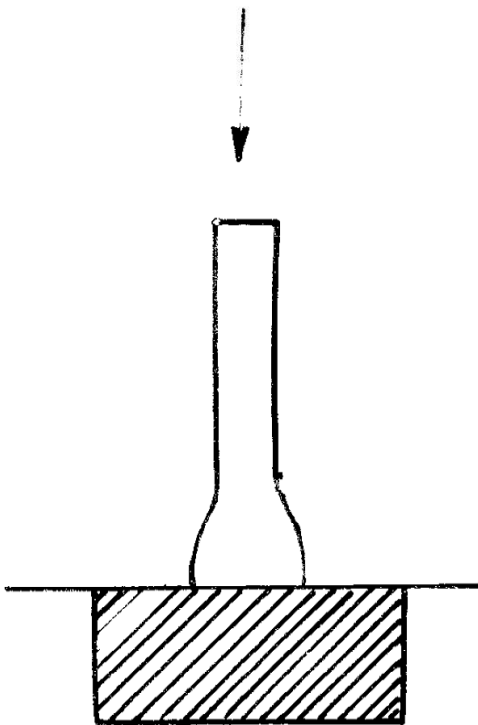


Fig. 6



Fig. 7

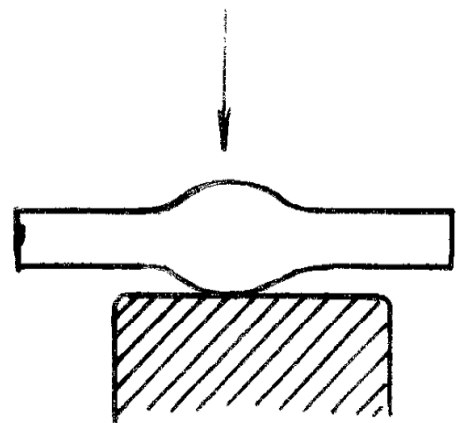


Fig. 8

— Coudes —

Fig. 1

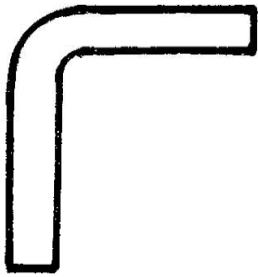


Fig. 2

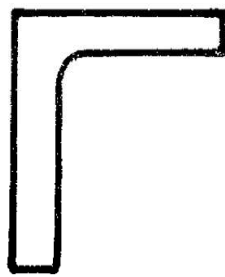


Fig. 3

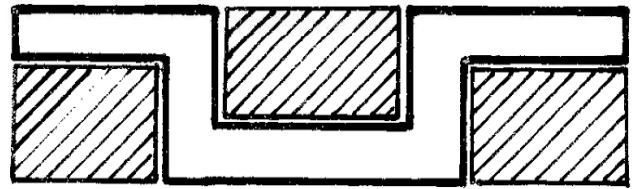


Fig. 4

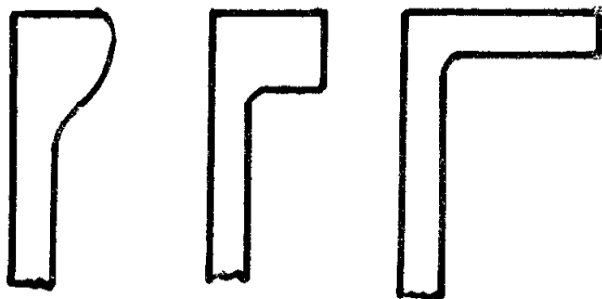


Fig. 5

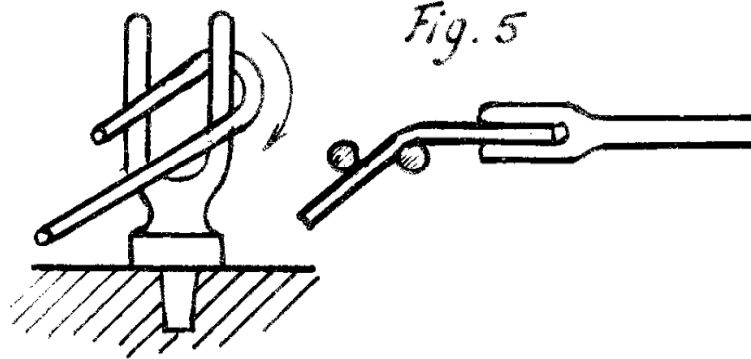


Fig. 7

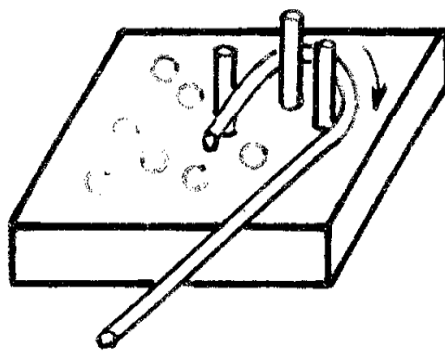


Fig. 8

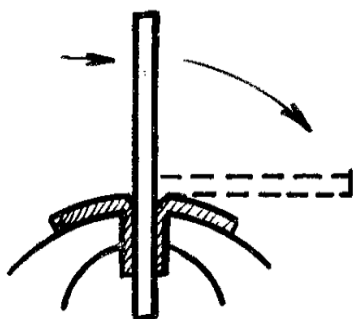
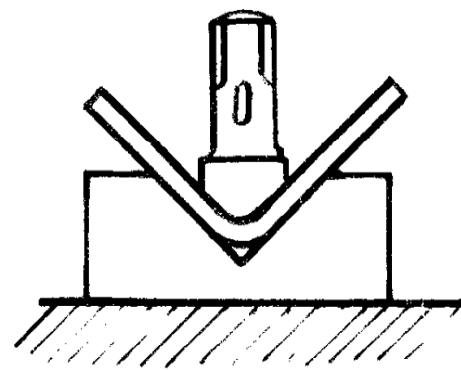


Fig. 6

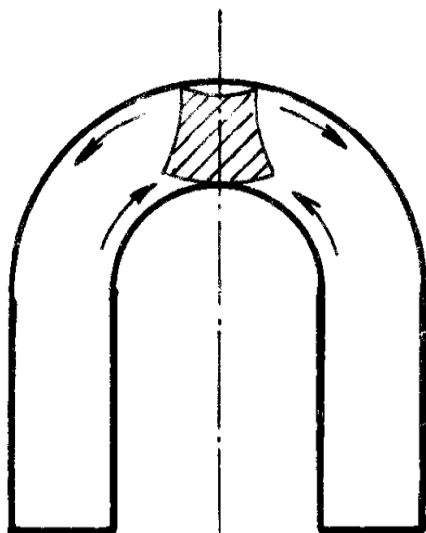


Fig. 9

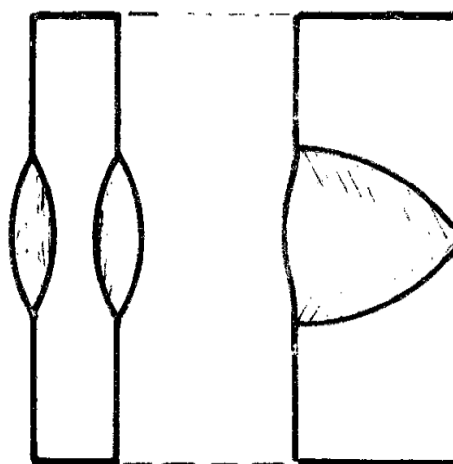


Fig. 10



Fig. 11

Perçage — Mandrinage

Fig. 1



Fig. 2

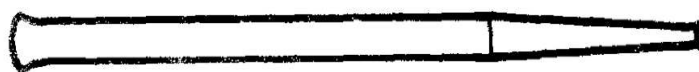


Fig. 3

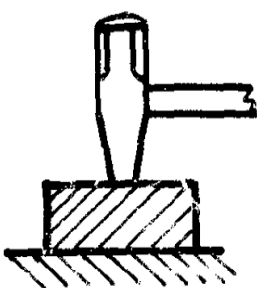
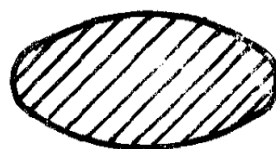
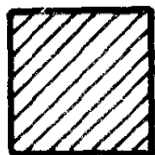
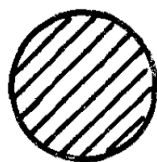


Fig. 4

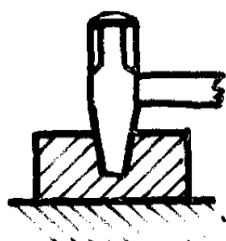


Fig. 5

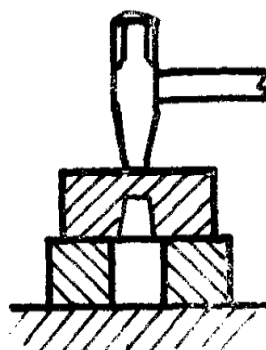


Fig. 6

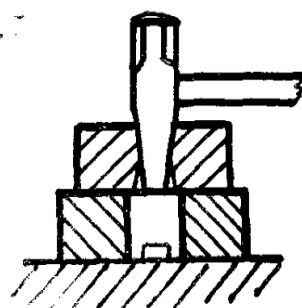


Fig. 7



Fig. 8

Fig. 9

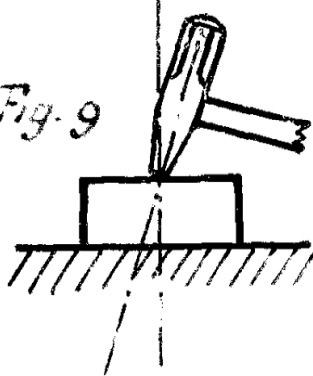


Fig. 10

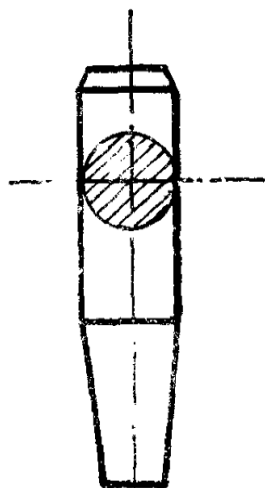
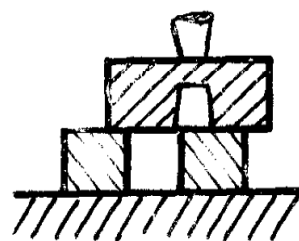


Fig. 11

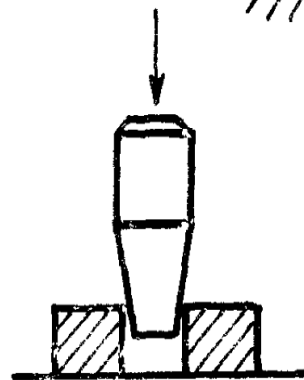


Fig. 12

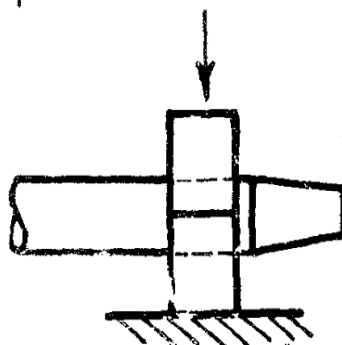
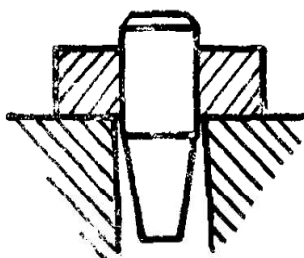


Fig. 13

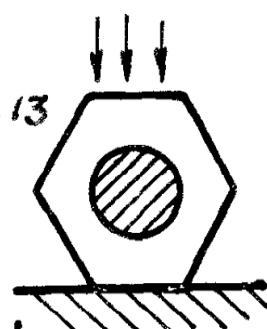


Fig. 14

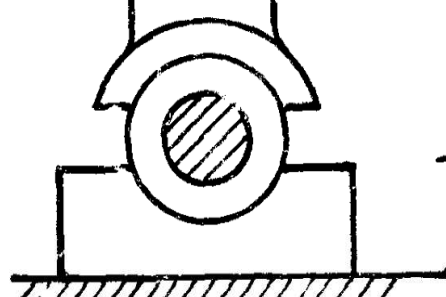


Fig. 1

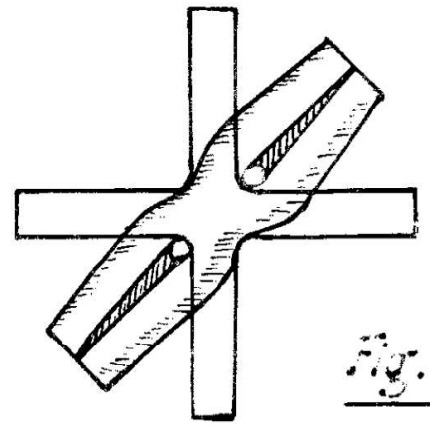
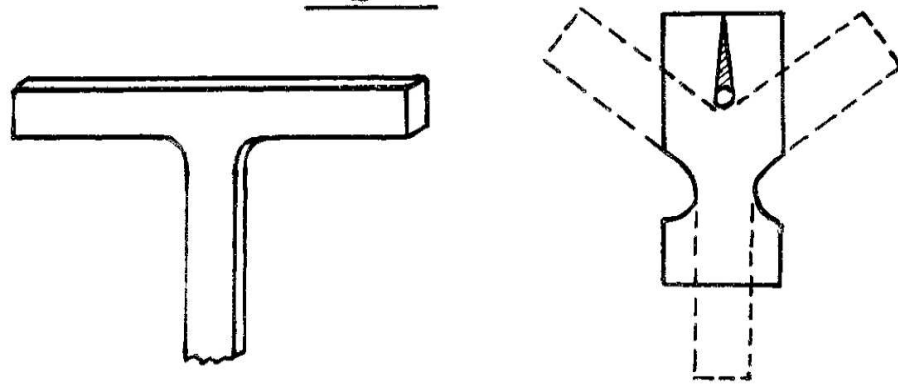


Fig. 2

Fig. 3

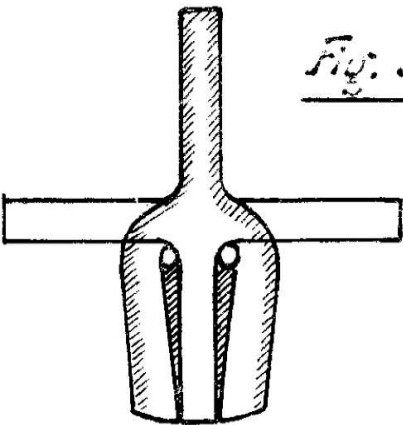


Fig. 4

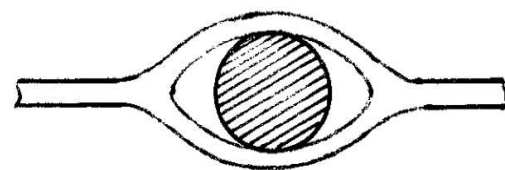
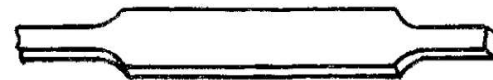
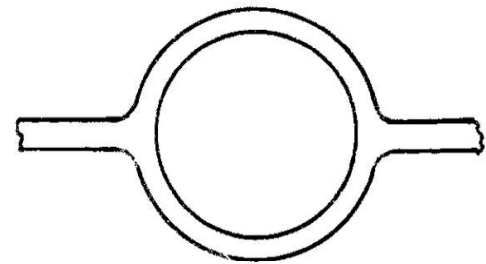
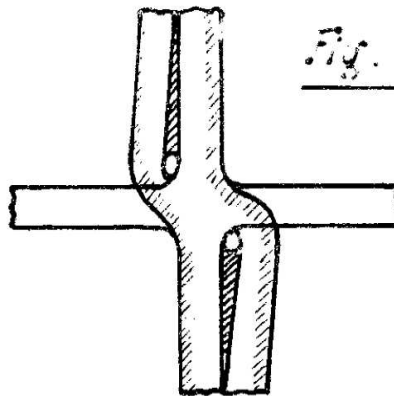
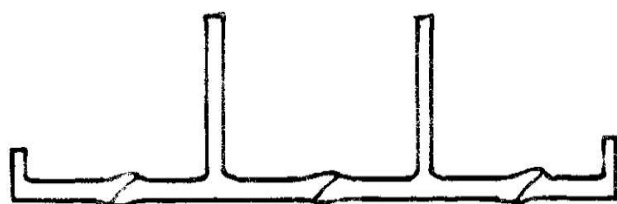
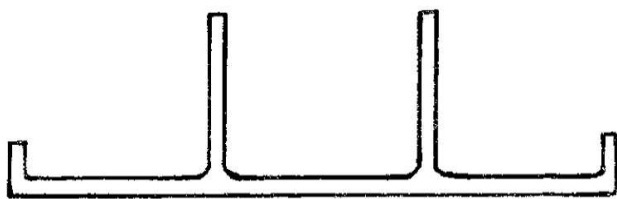


Fig. 5

Anneau

obtenu par perçage
fendage et biffonnage

Pièce à souder



Pièce obtenue par soudures



Fig. 6 Pièce obtenue par
perçage, fendage

PERÇAGE

FENDAGE

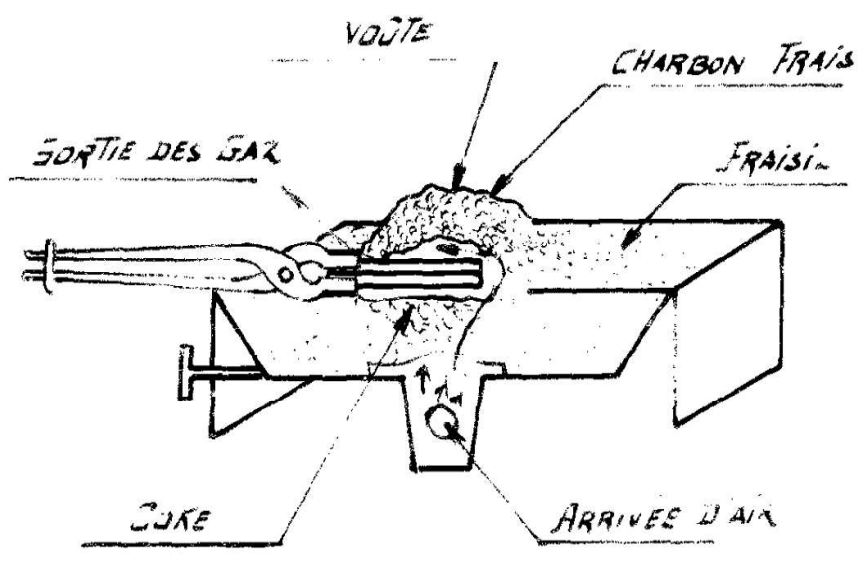


Fig. 1

SOUDEURES

Exécution

Applications

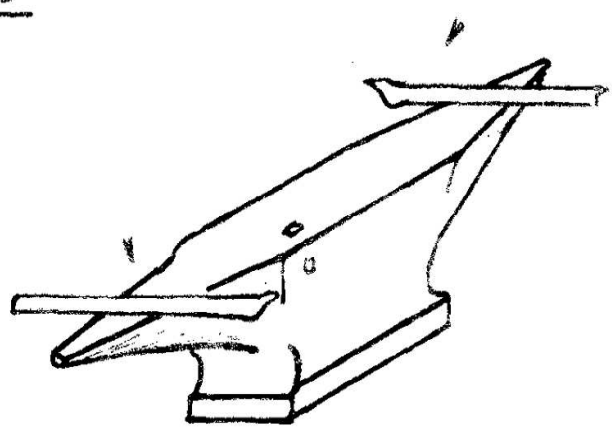


Fig. 2

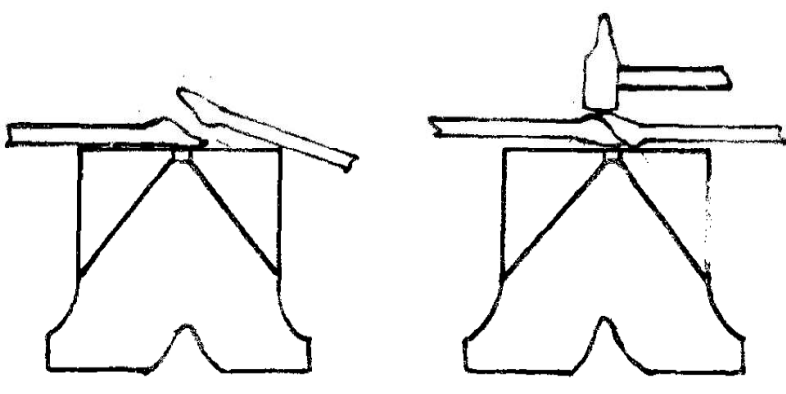
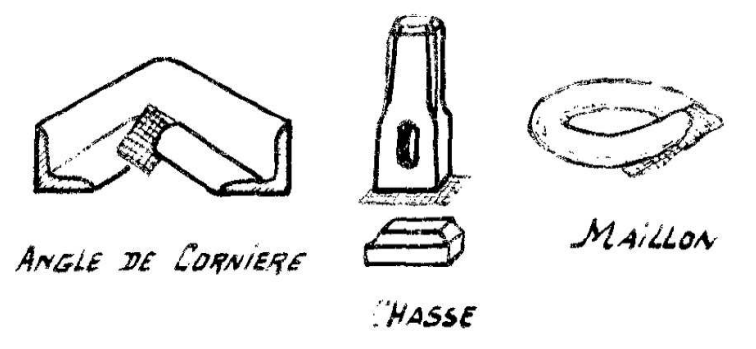


Fig. 3

Fig. 4

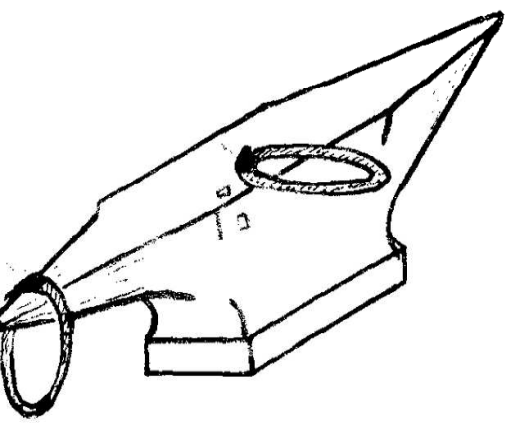
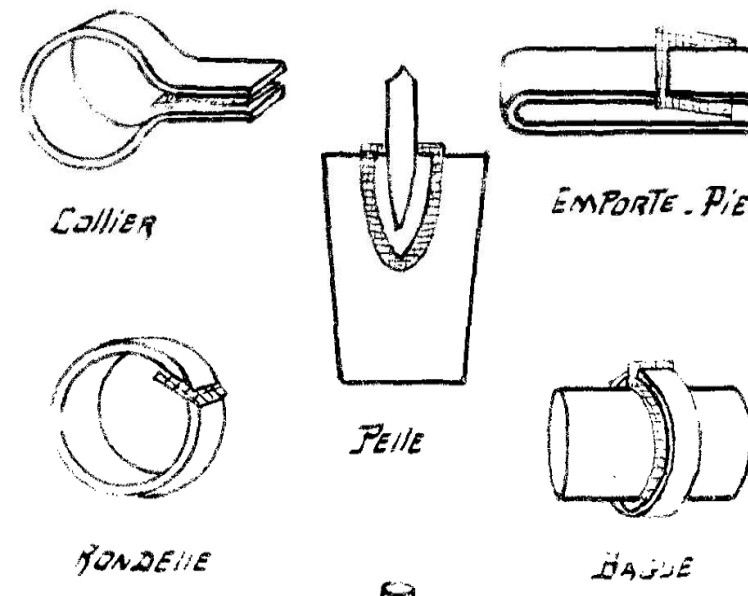


Fig. 5

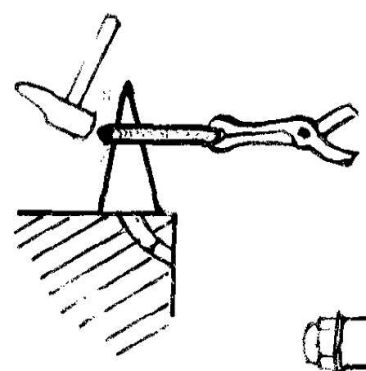
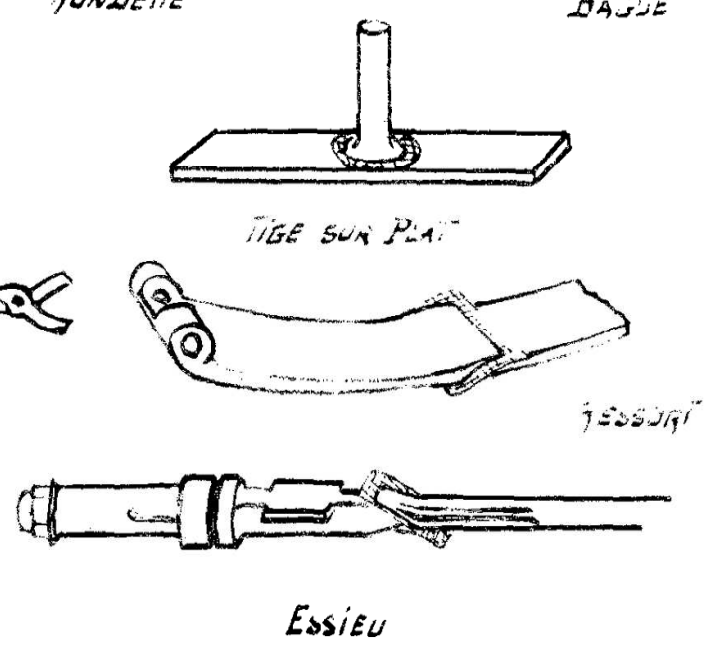


Fig. 6



SOUDEURES

amorces

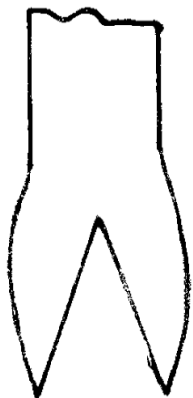


Fig. 4

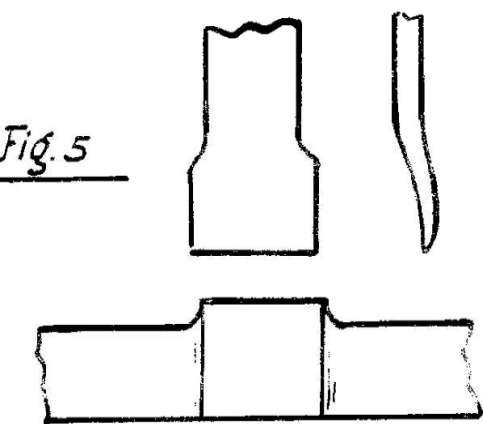
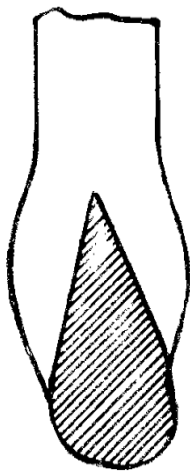


Fig. 5



Fig. 6



Fig. 7

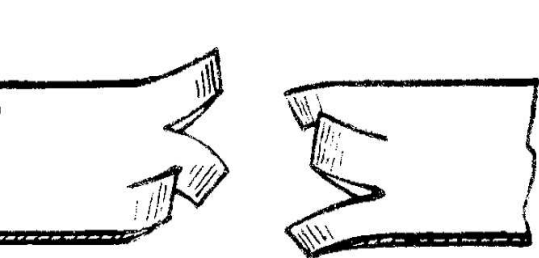


Fig. 8

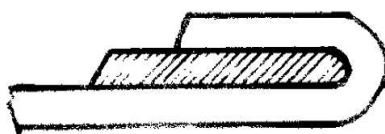


Fig. 9

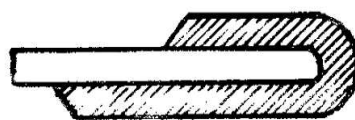


Fig. 10



Fig. 11

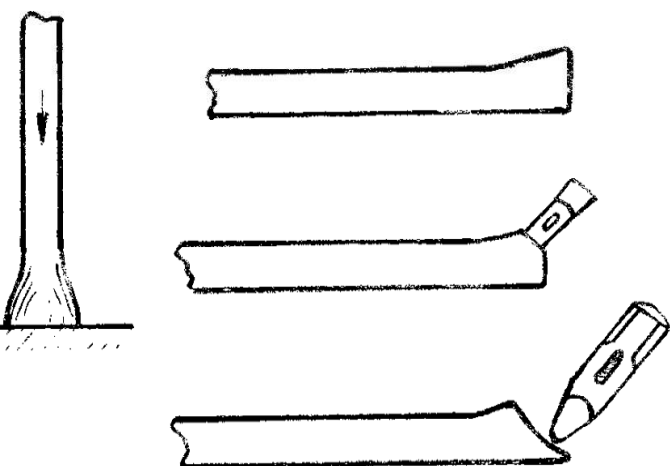


Fig. 14 confection d'une amorce.

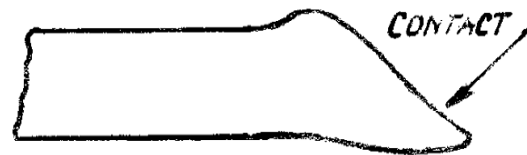


Fig. 1

face de
CONTACT



Fig. 2 bon contact



Fig. 3 mauvais contact

Etirage ..

fig. 1



fig. 2

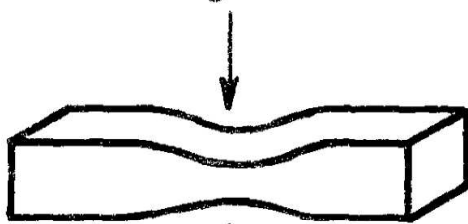


fig. 3

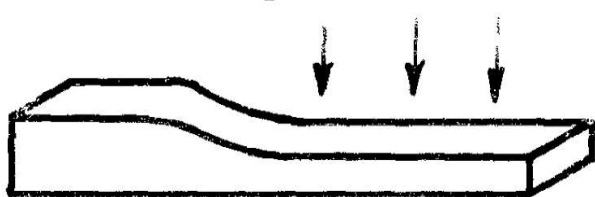


fig. 4

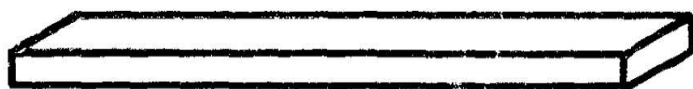


fig. 5

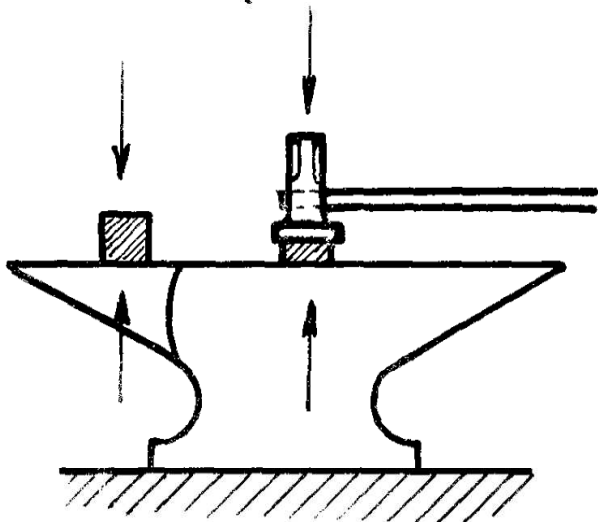


fig. 6



fig. 7

fig. 8

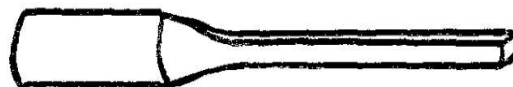


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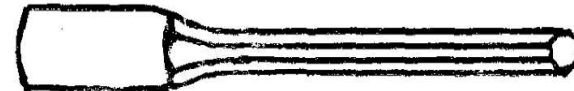


fig. 10



fig. 11

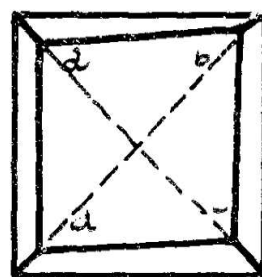
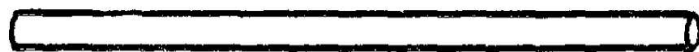


fig. 12

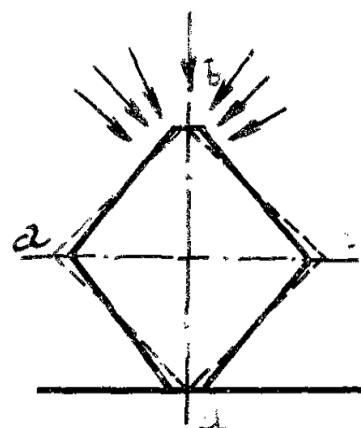


fig. 13

Fig. 1

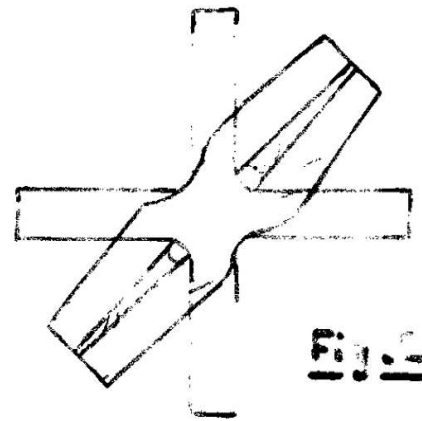
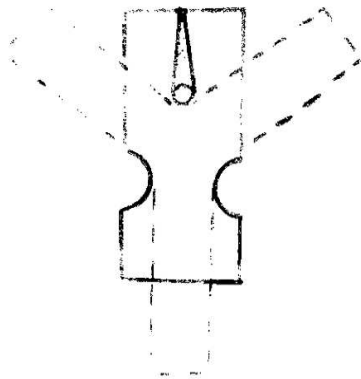
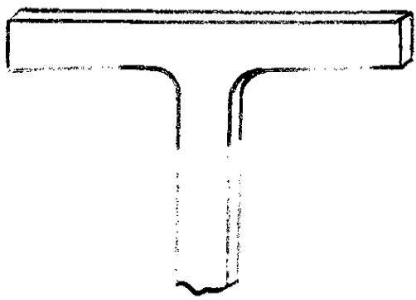


Fig. 3

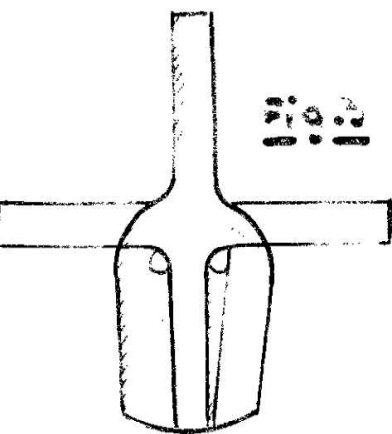


Fig. 4

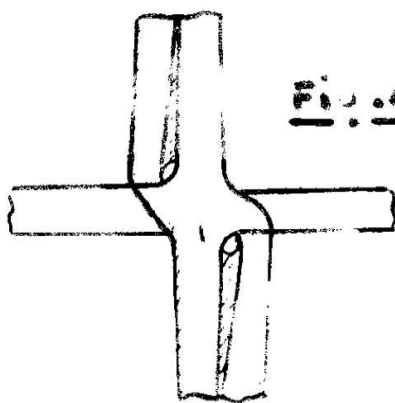


Fig. 5

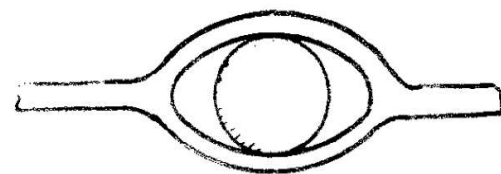
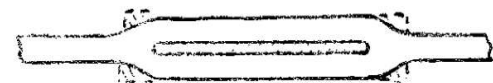
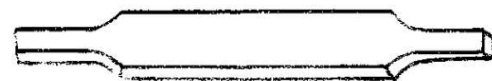
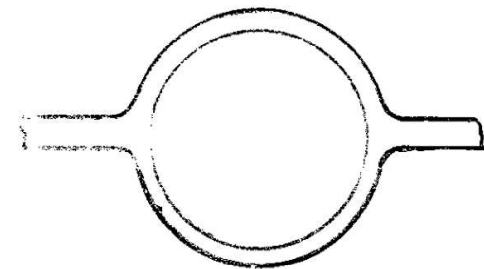
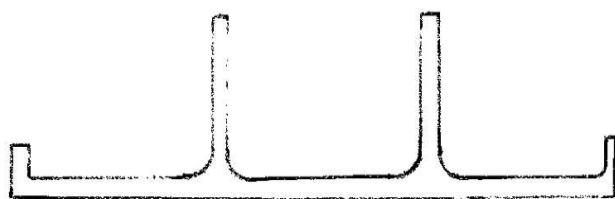
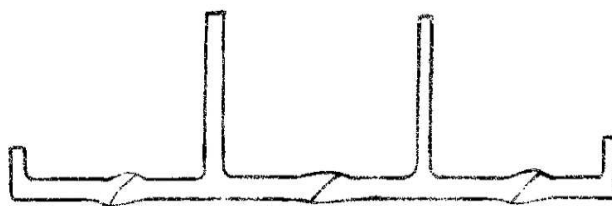


Fig. 5 Annexe obtenue
par perçage, fendage, ligon.
Illeg



Pièce obtenue

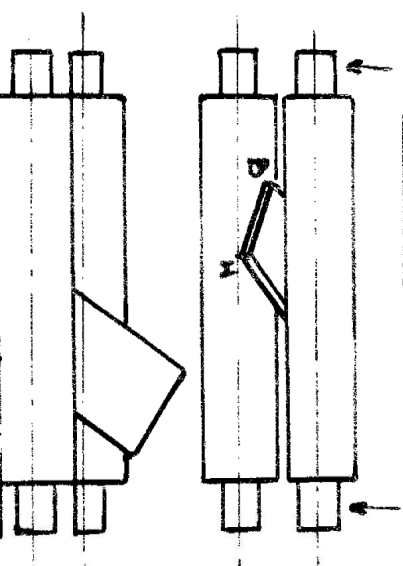
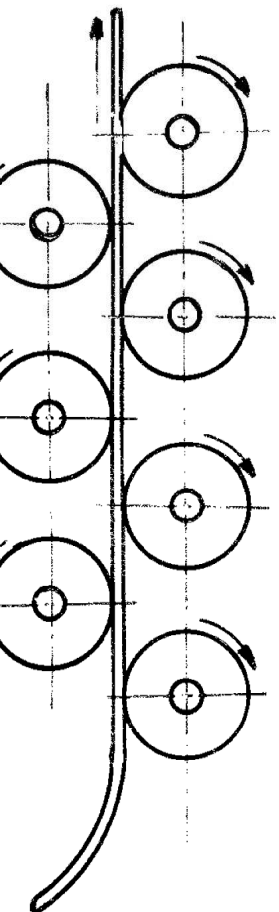
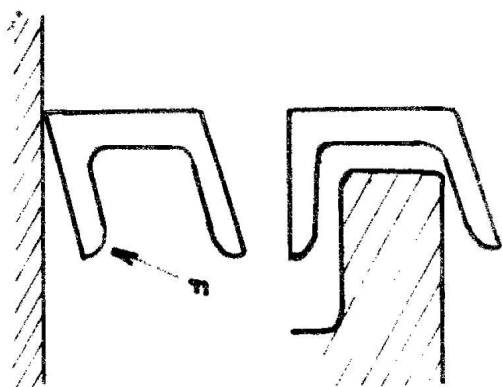
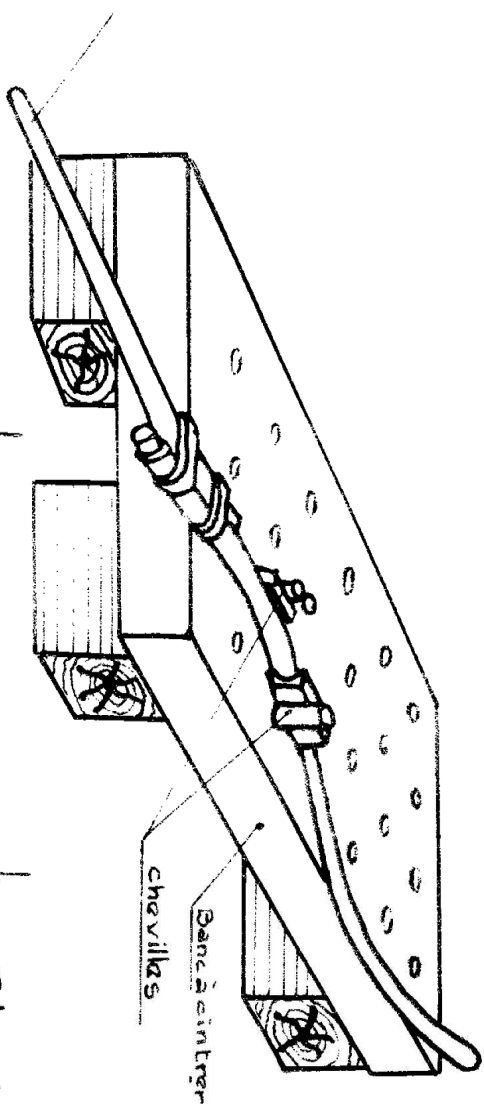
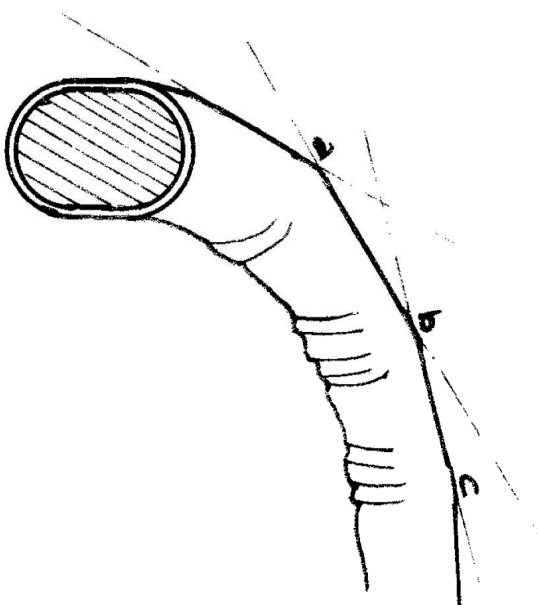
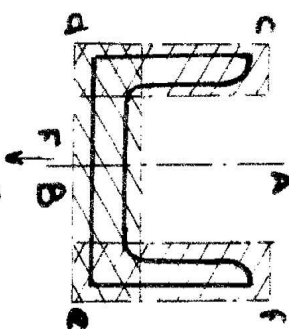
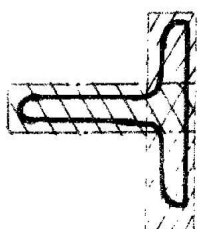
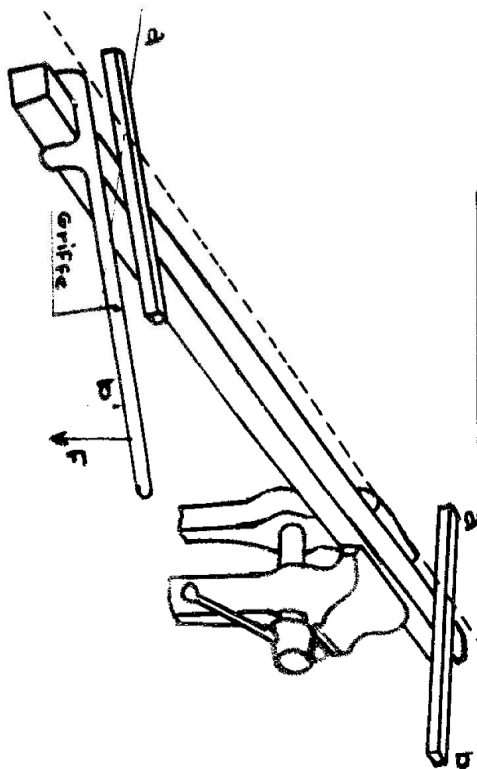


Pièce obtenue par soudure

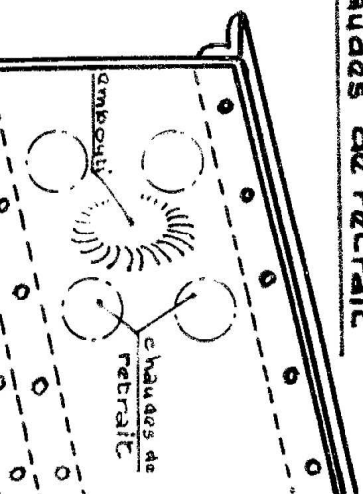


Fig. 6 Pièce obtenue par perçage
fendage.

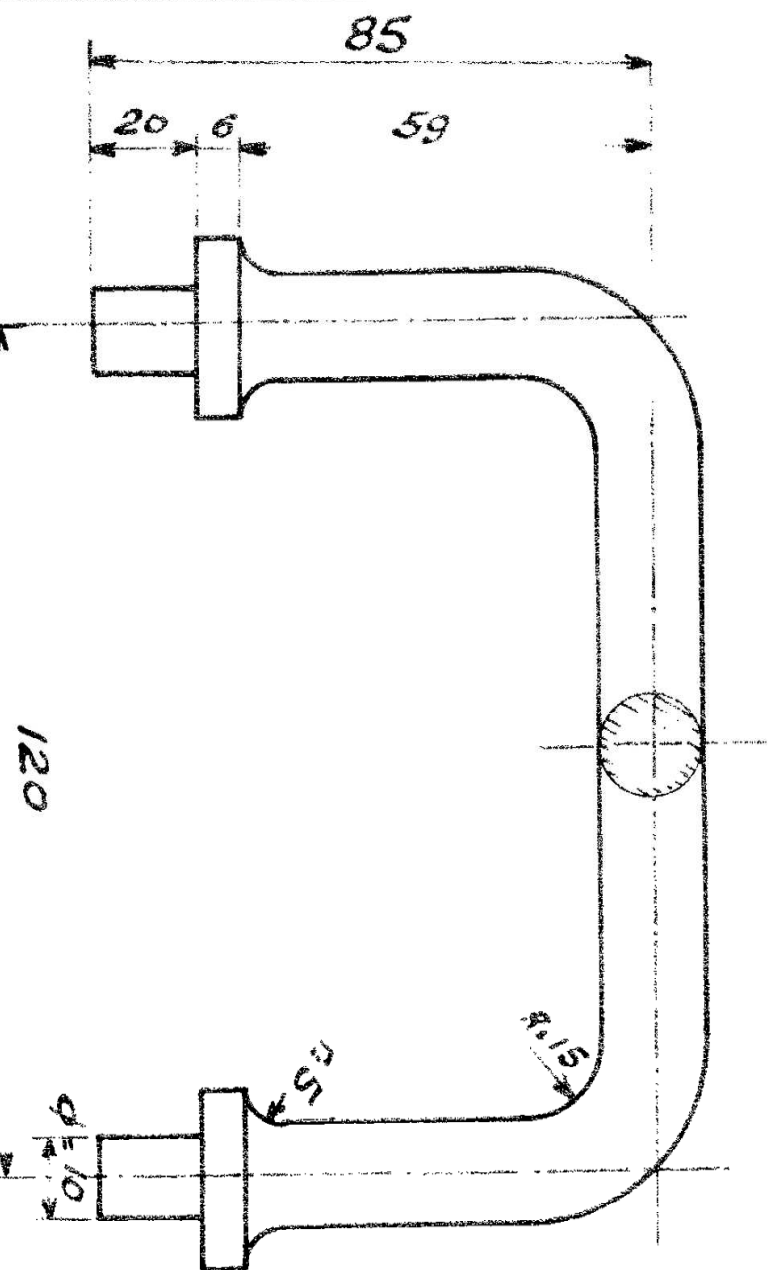
- Perçage -
- Fendage -



Chaudas de retrait



POIGNÉE avec EMBASES



BUT: Exercice de cintrage sur fer à section cylindrique. Préparation d'une ébauche de poignée

Exécution: Choix de l'échantillon

Calcul du développement du corps de poignée. Opérations de coupe.

- 1^o Dégager et étirer le corps (étampage)
- 2^o Dégager les embases former, et régulariser dans une bûche et des mordaches soignées.

3. inter au griffon, verifier les cotes.

Outillage: Outillage collective.

χ^2 bolonmiere $\phi = 16$, $\text{mod} 24$, $\phi = 15$

