

THÉORIE

DÈS

MACHINES A VAPEUR,

OUVRAGE

DESTINÉ A PROUVER L'INEXACTITUDE DES MÉTHODES EN USAGE POUR ÉVALUER LES EFFETS OU LES PROPORTIONS DES MACHINES A VAPEUR, ET A Y SUBSTITUER UNE SÉRIE DE FORMULES ANALYTIQUES PROPRES A DÉTERMINER LA VITESSE D'UNE MACHINE DONNÉE SOUS UNE CHARGE CONNUE, SA CHARGE POUR UNE VITESSE FIXÉE, SA VAPORISATION POUR DES EFFETS VOULUS, SA FORCE EN CHEVAUX, SON EFFET UTILE POUR UNE CONSOMMATION CONNUE D'EAU ET DE COMBUSTIBLE, LA CHARGE OU LA DÉTENTE QU'IL FAUT LUI DONNER POUR LUI FAIRE PRODUIRE SON MAXIMUM D'EFFET UTILE, ETC., ETC.;

SUIVI D'UN

APPENDICE

CONTENANT DE COURTES NOTIONS DESTINÉES AUX PERSONNES PEU FAMILIARISÉES AVEC LES SIGNES ALGÈBRIQUES, ET AYANT POUR BUT DE LEUR RENDRE PARFAITEMENT CLAIR ET FACILE L'USAGE DES FORMULES;

PAR LE COMTE F.-M. G. DE PAMBOUR,

Ancien Élève de l'École Polytechnique, ancien Officier aux corps royaux de l'Artillerie et de l'État-Major, Membre correspondant de l'Académie royale des Sciences de Berlin, etc.

DEUXIÈME ÉDITION,

Augmentée d'un Atlas de 24 Planches et de la description des divers systèmes de Machines à vapeur en usage, d'après les dessins originaux des premiers constructeurs anglais.

ATLAS.

PARIS,

BACHELIER, IMPRIMEUR-LIBRAIRE DE L'ÉCOLE ROYALE POLYTECHNIQUE ET DU BUREAU DES LONGITUDES,
QUAI DES AUGUSTINS, 55.

1844

Fig. 1.

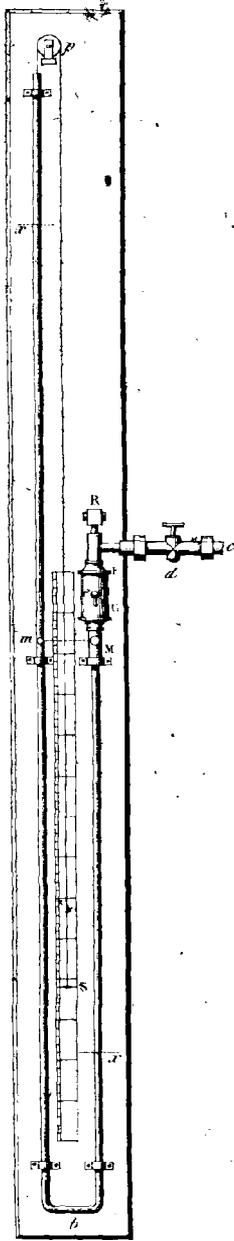


Fig. 2.

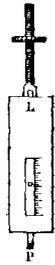


Fig. 3.

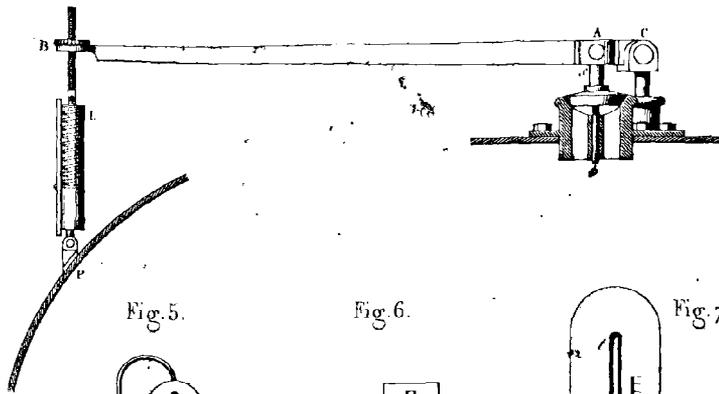


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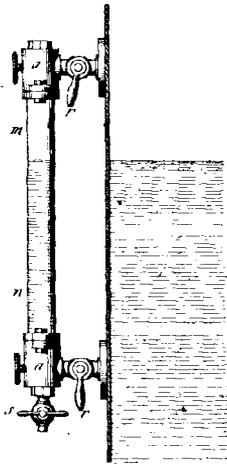


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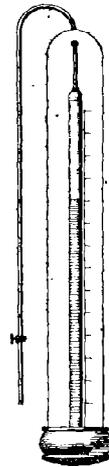


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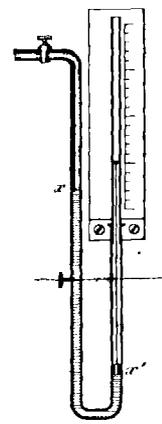


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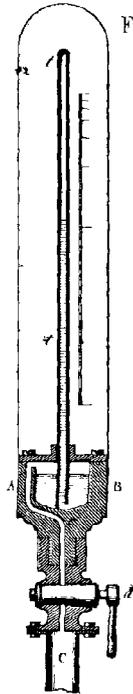


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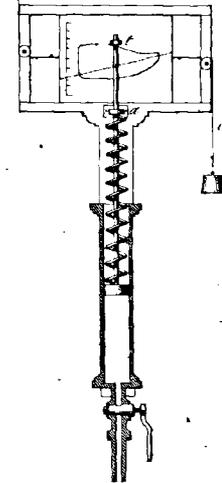
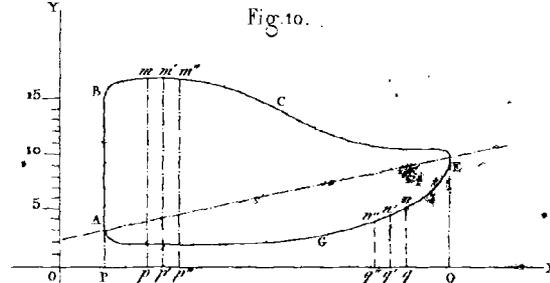


Fig. 9.



Fig. 10.



Dessiné et Gravé par E. Wormser.

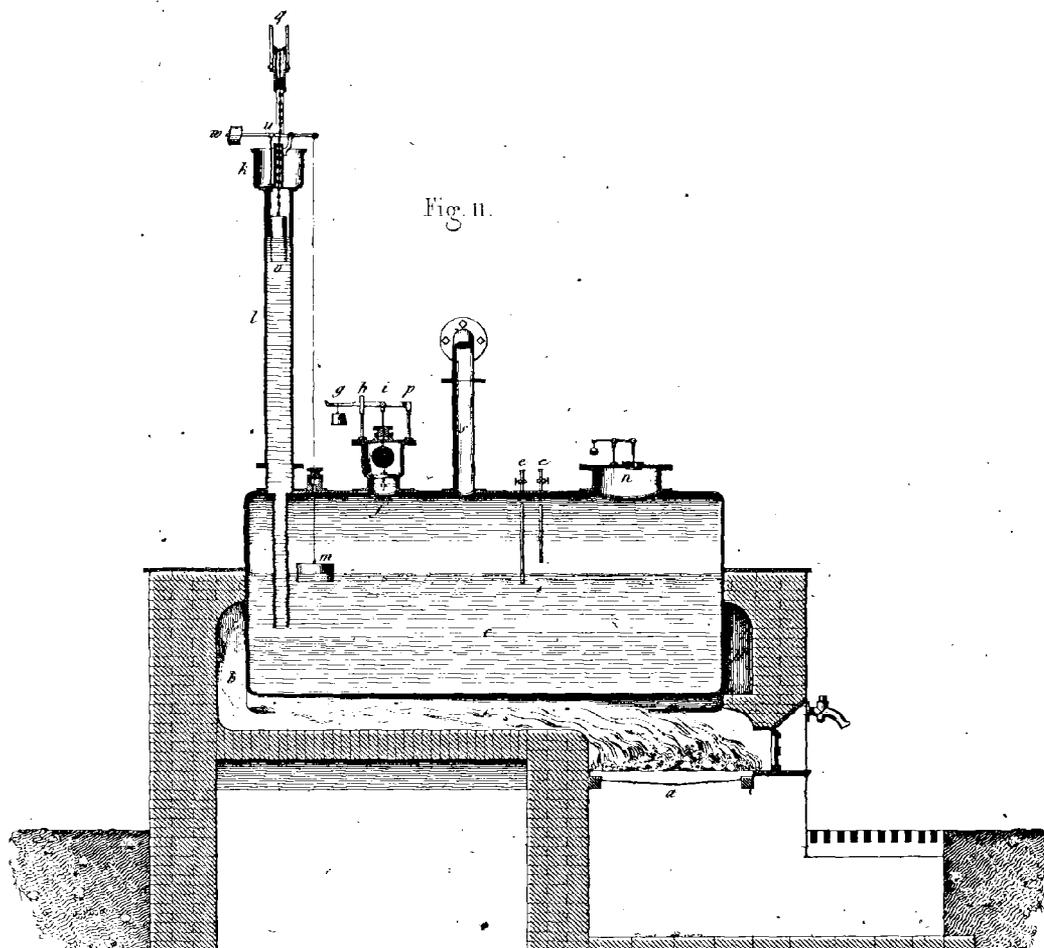


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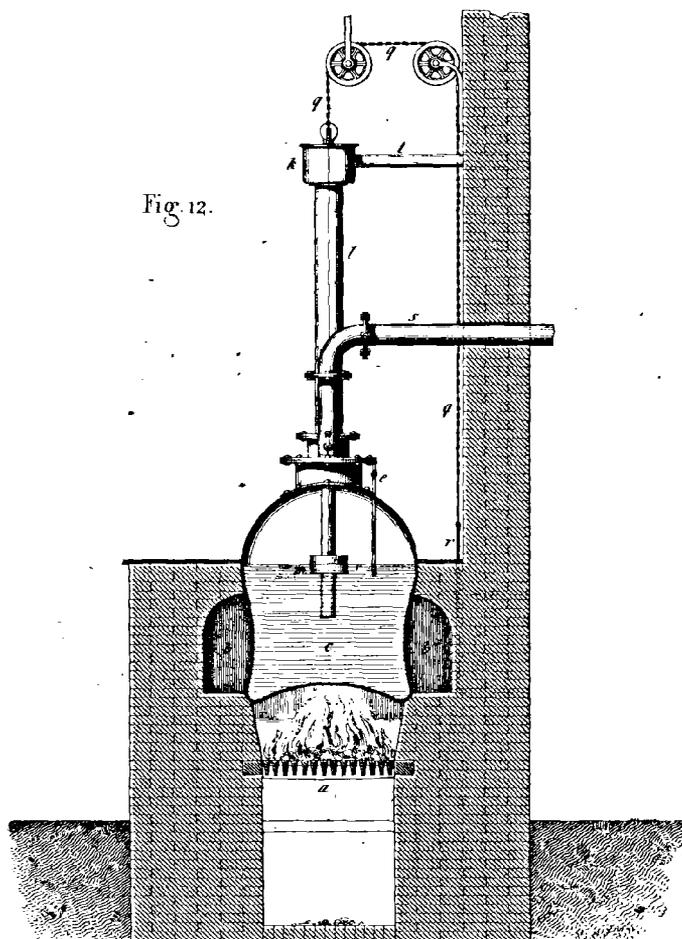


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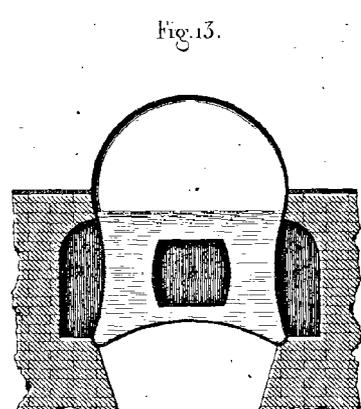


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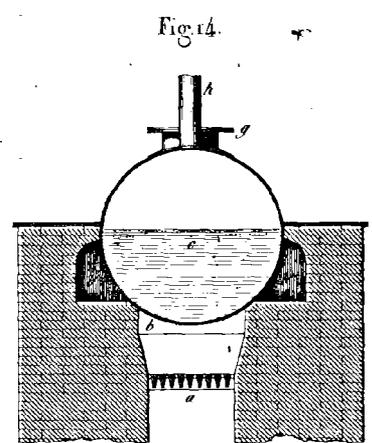


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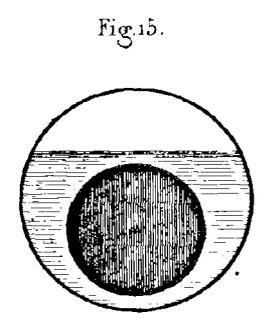


Fig. 15.

Dessiné et Gravé par E. Wormser.

Fig. 16.

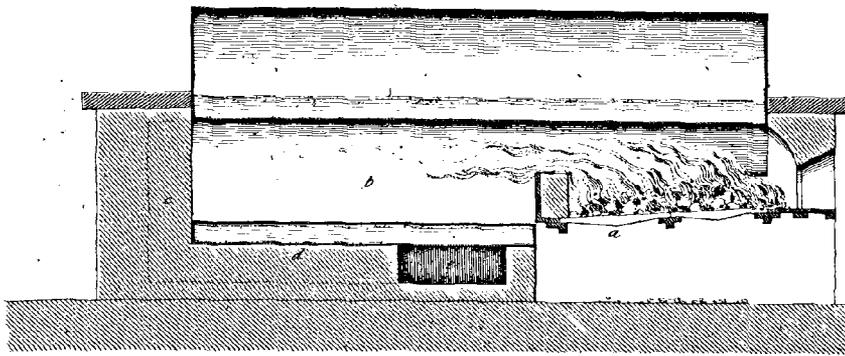


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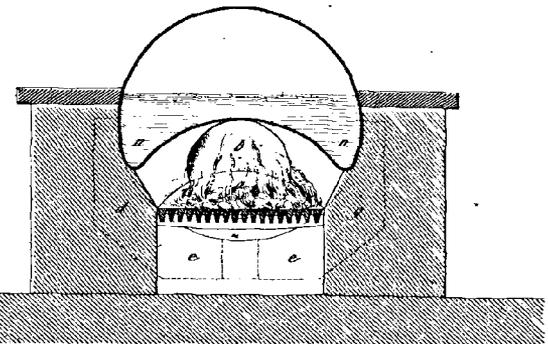


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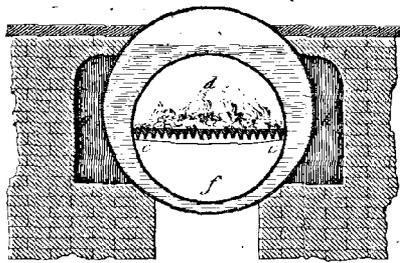


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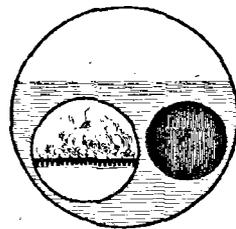


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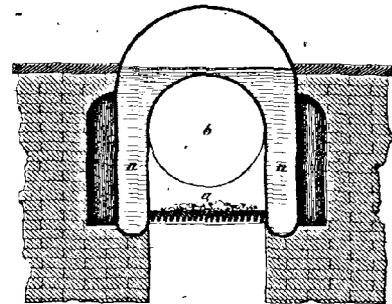


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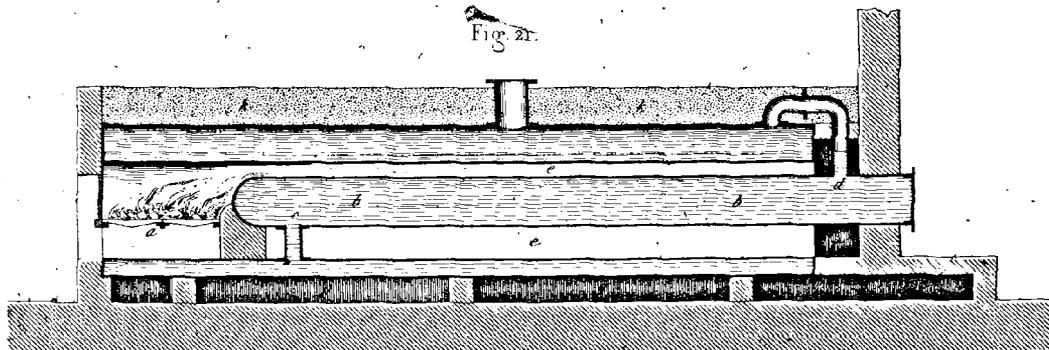
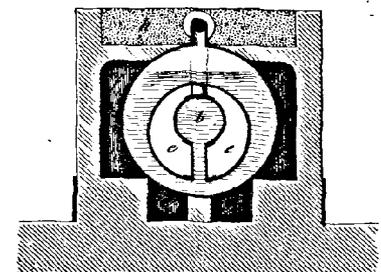


Fig. 22.



Dessiné et Gravé par E. Wormser.

Fig. 25.

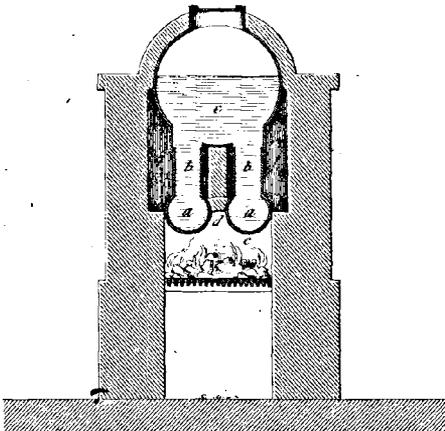


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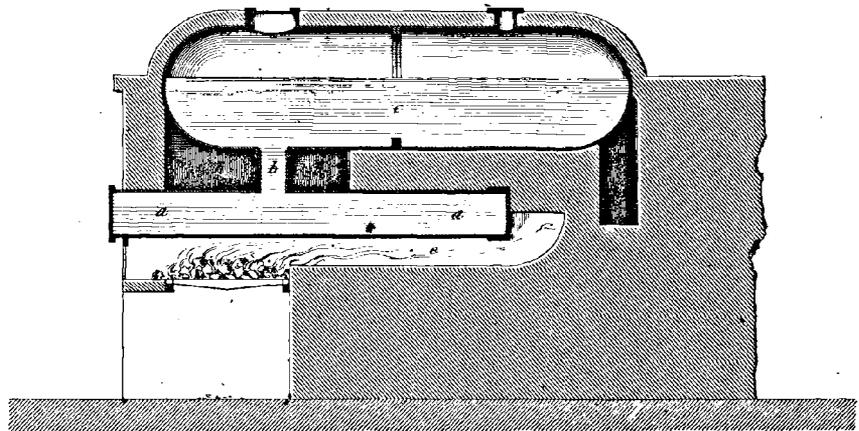


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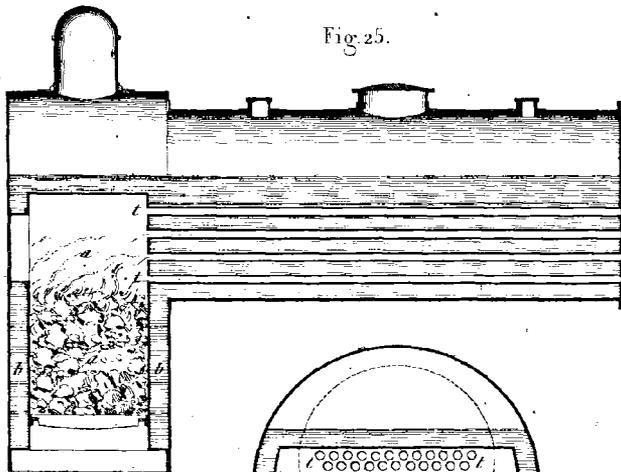


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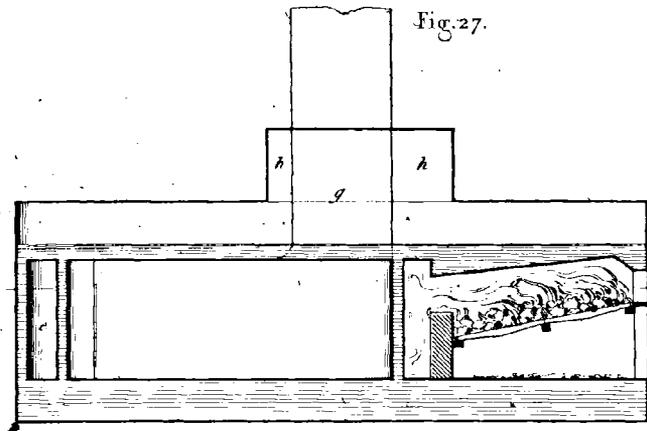


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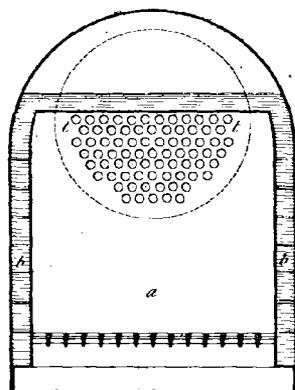
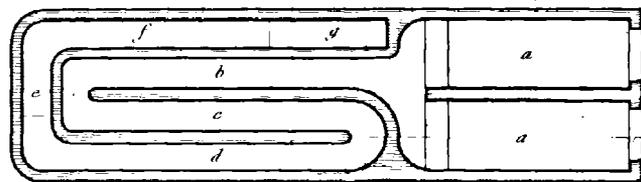
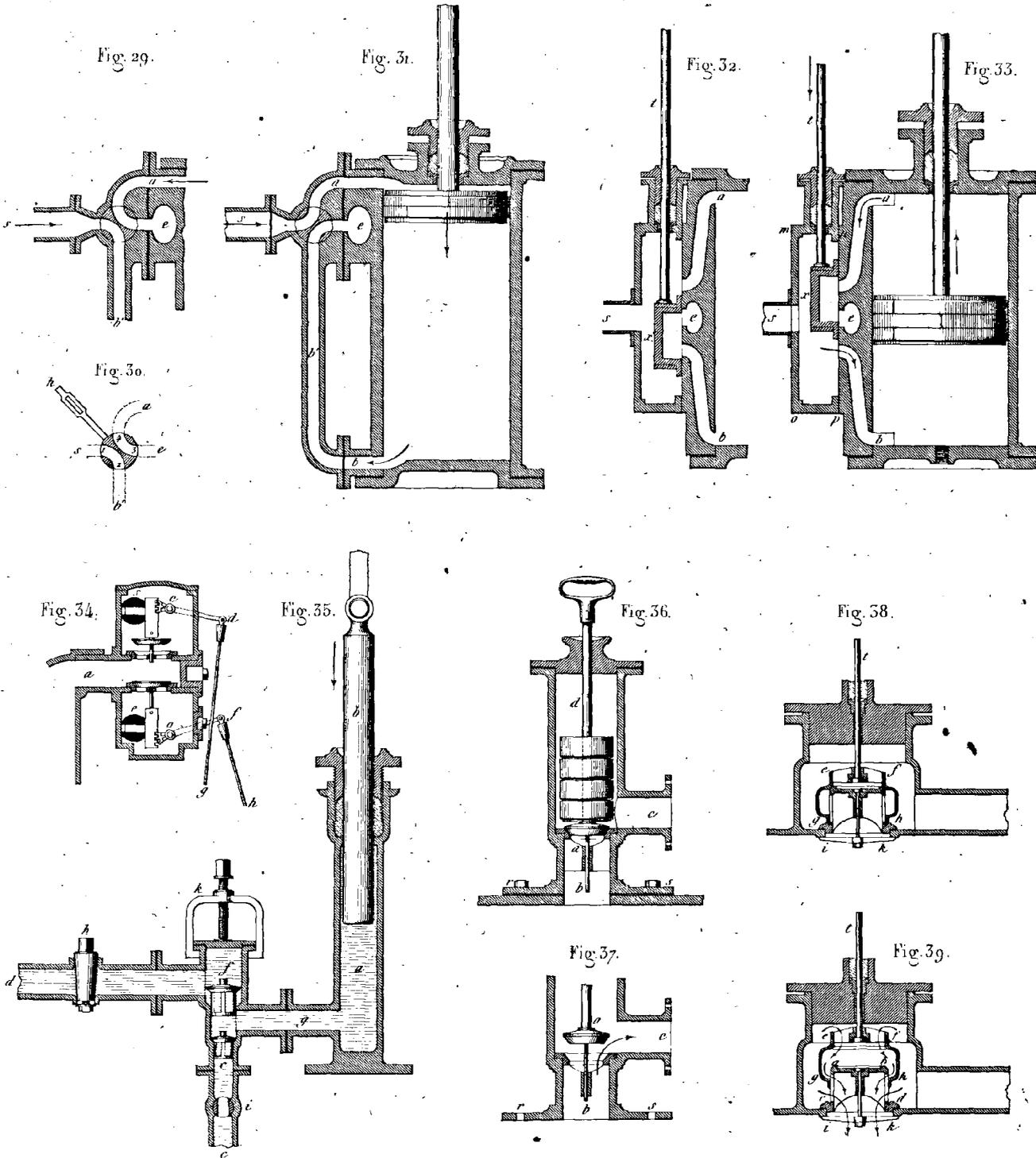


Fig. 28.



Dessiné et Gravé par E. Wormser.



Dessiné et Gravé par E. Wormser.

Fig. 40.

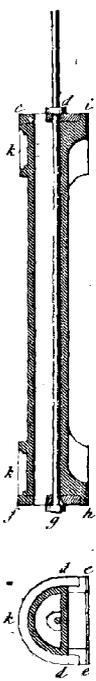


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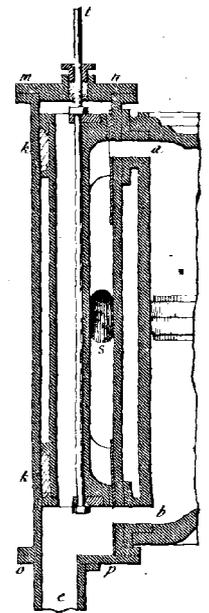


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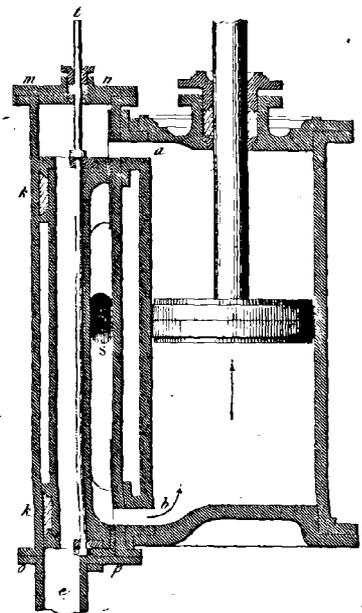


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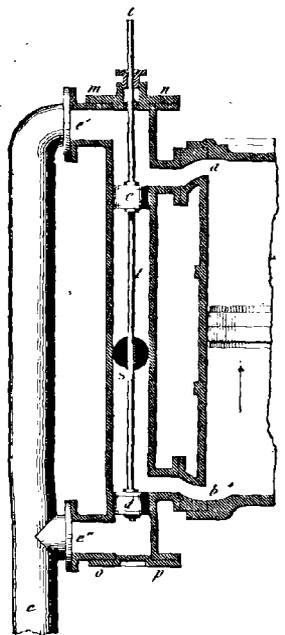


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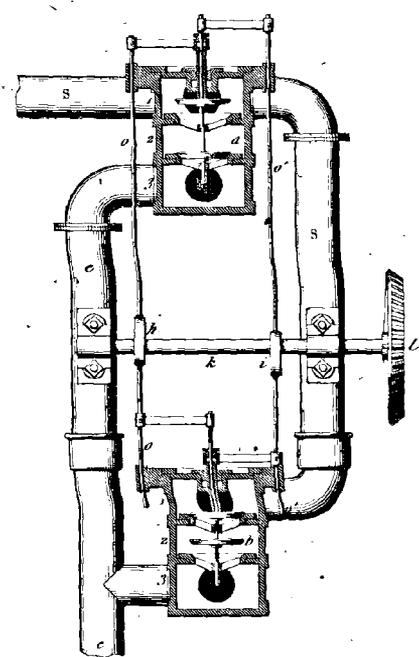


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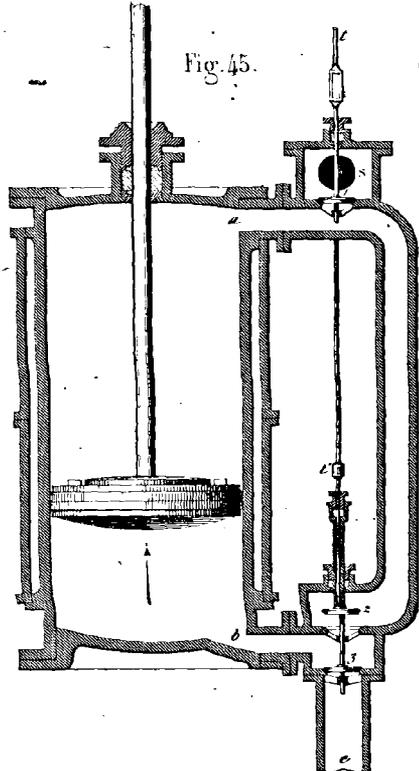
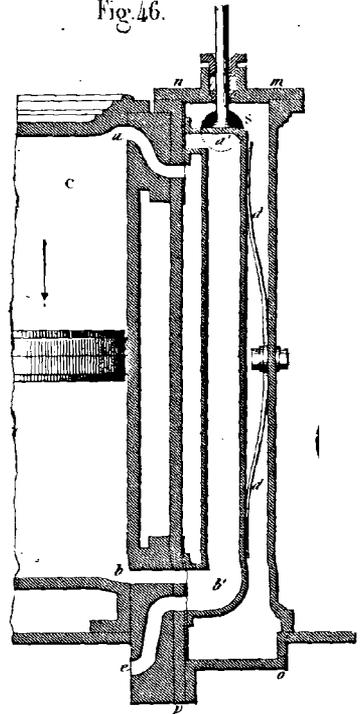


Fig. 46.



Gravé par E. Wormser.

Fig. 47.

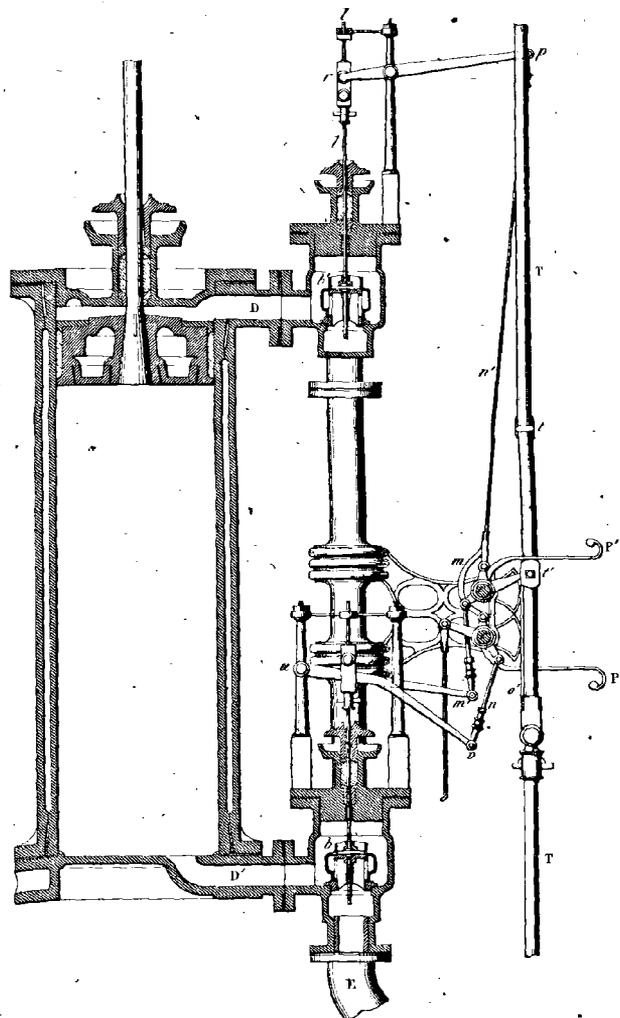


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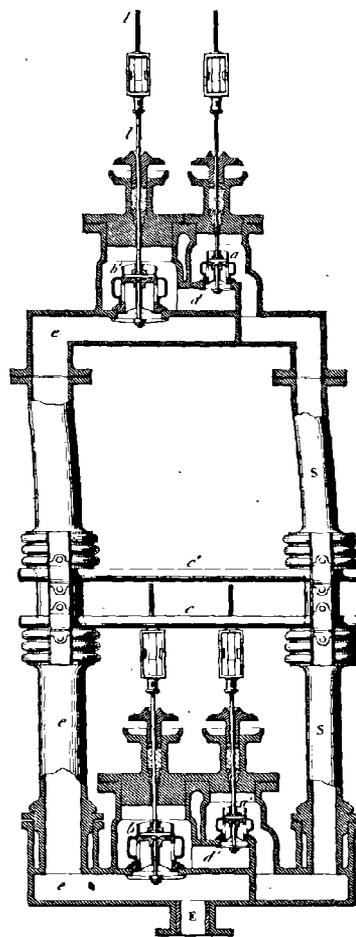


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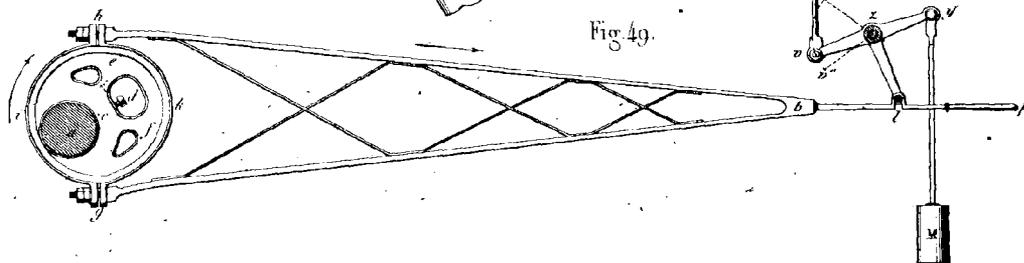


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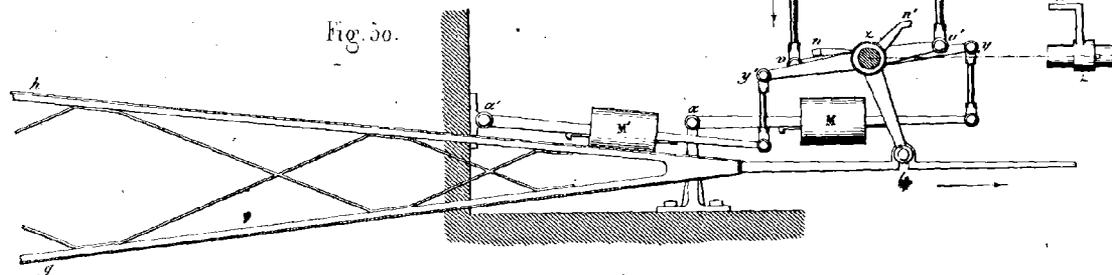
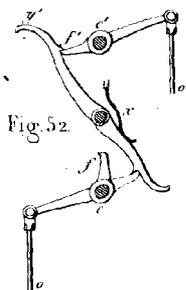
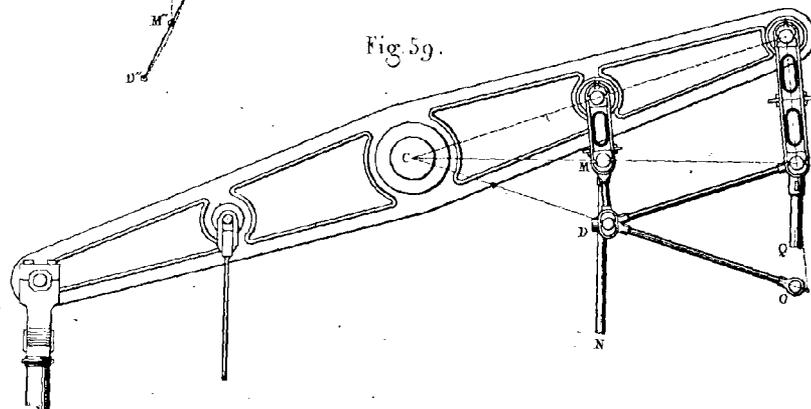
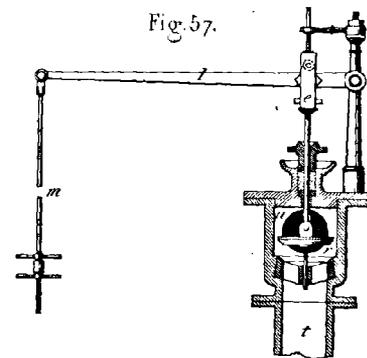
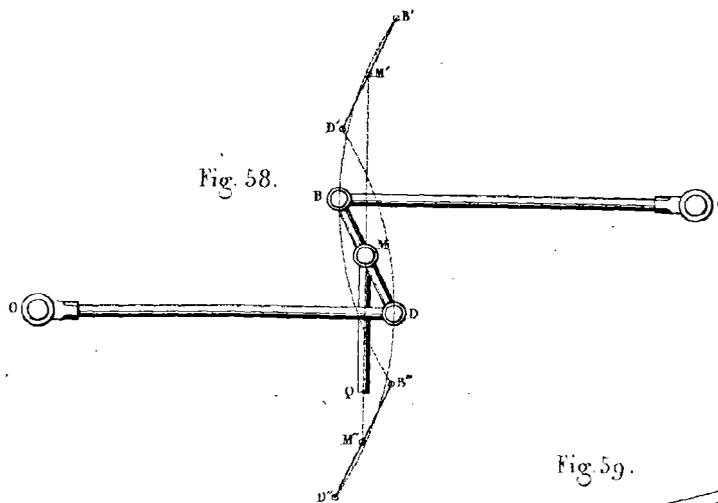
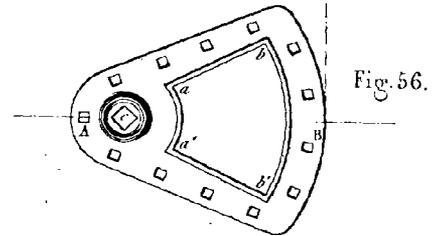
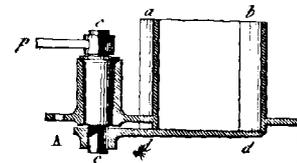
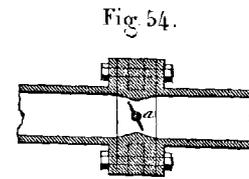
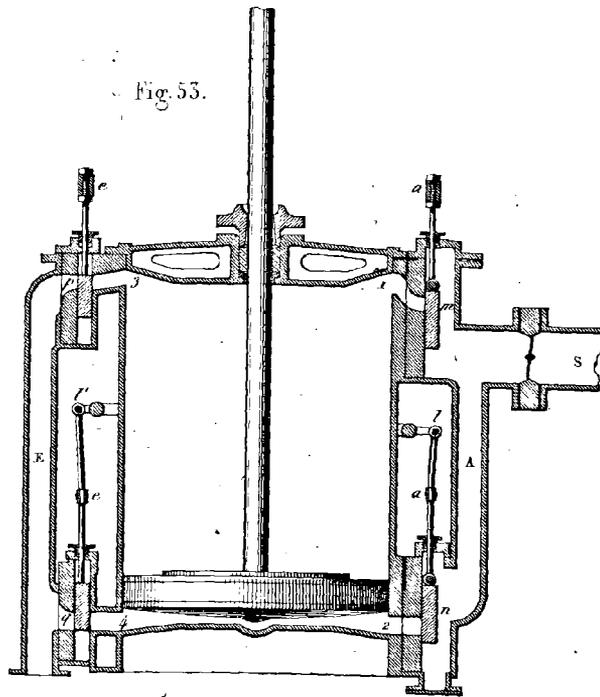


Fig. 51.





Dessiné et Gravé par F. Wormser.

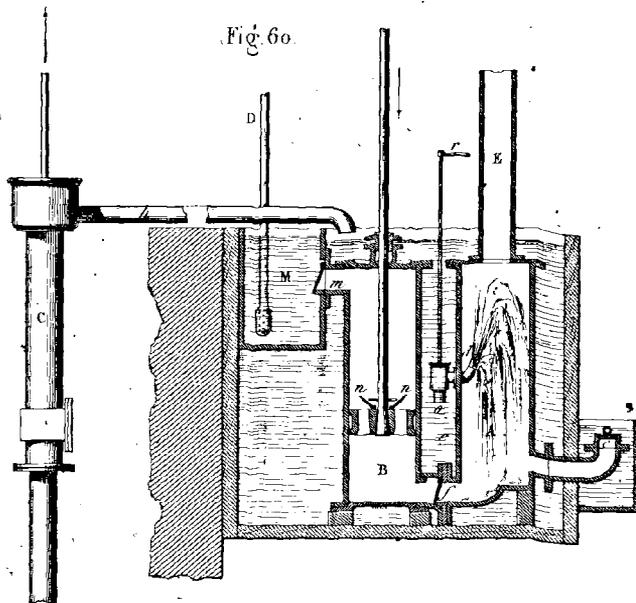


Fig. 60.

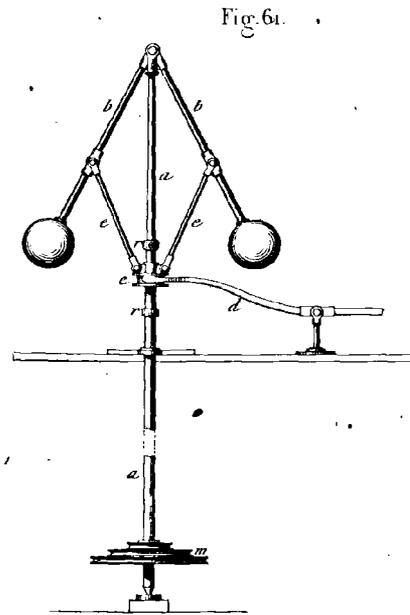


Fig. 61.

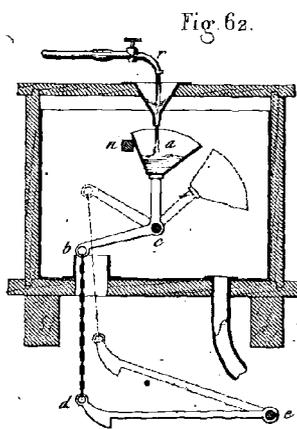


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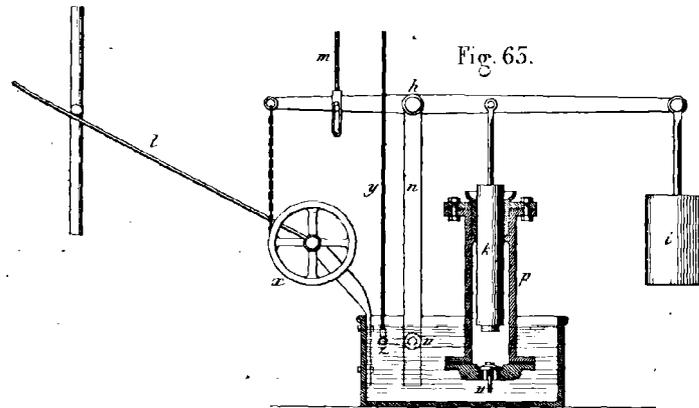


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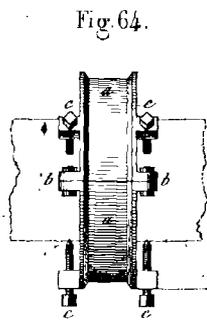


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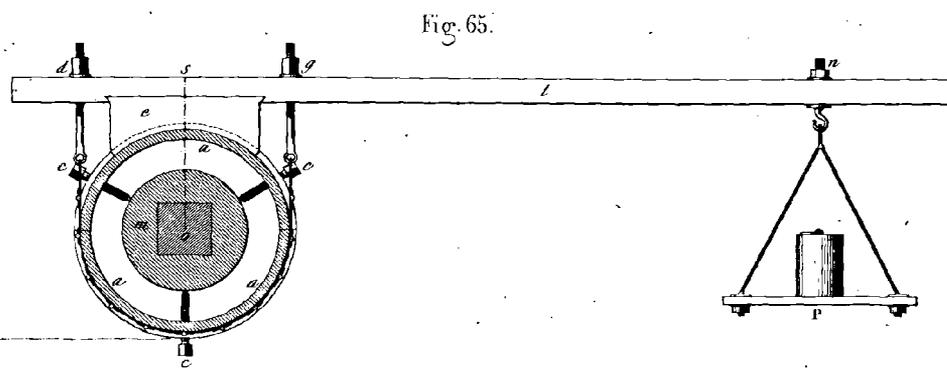


Fig. 65.

Dessiné et Gravé par E. Wormser.

Fig. 70.

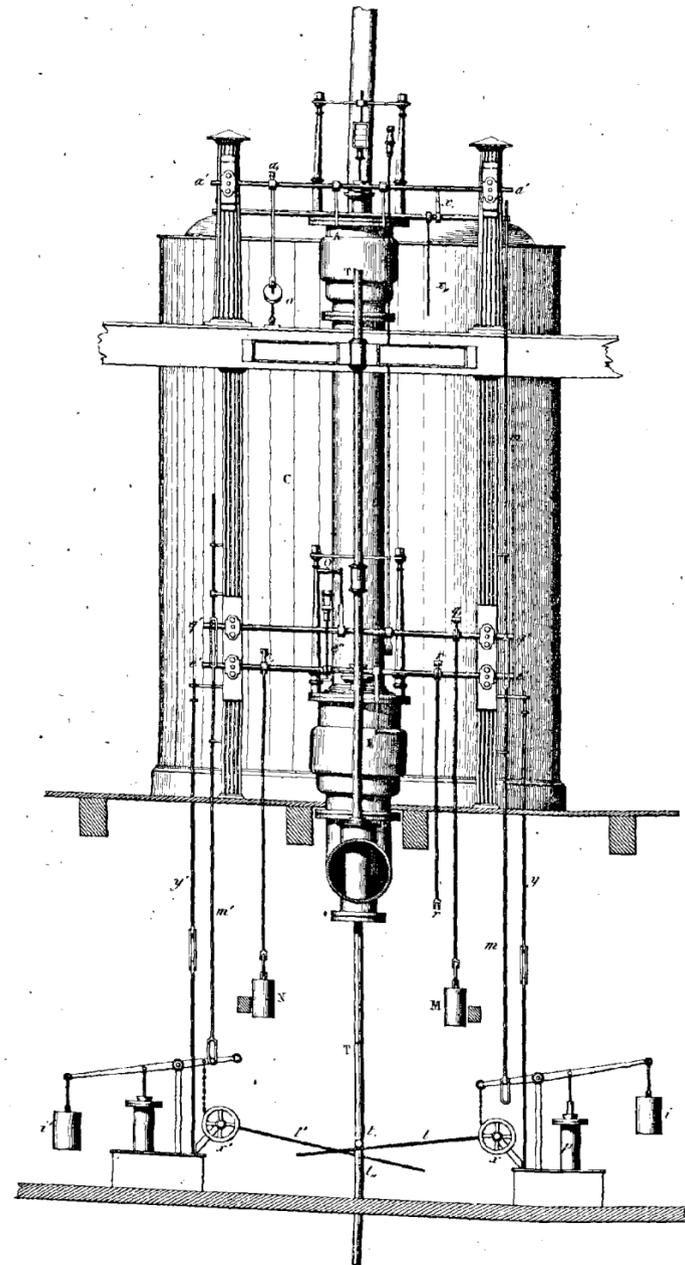


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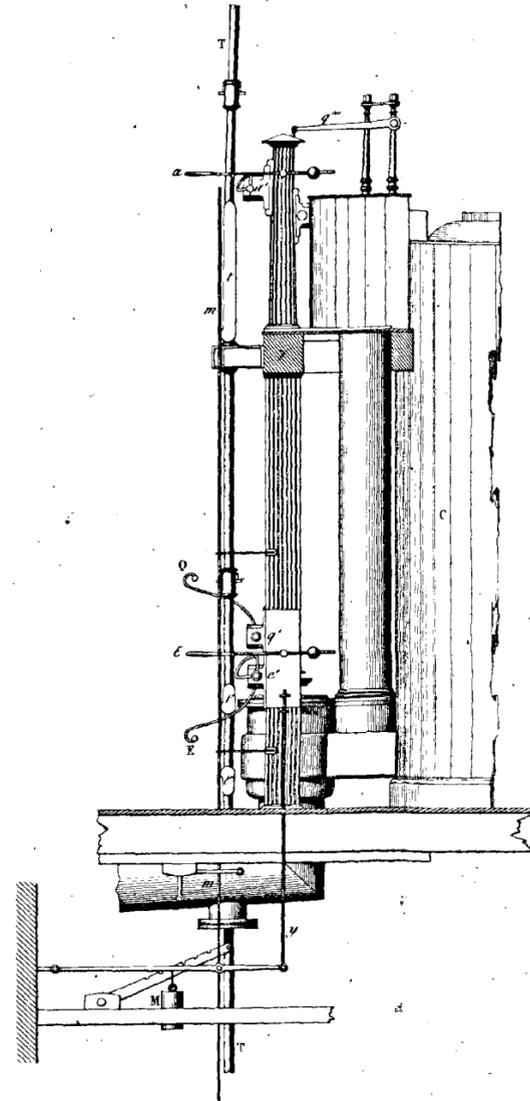
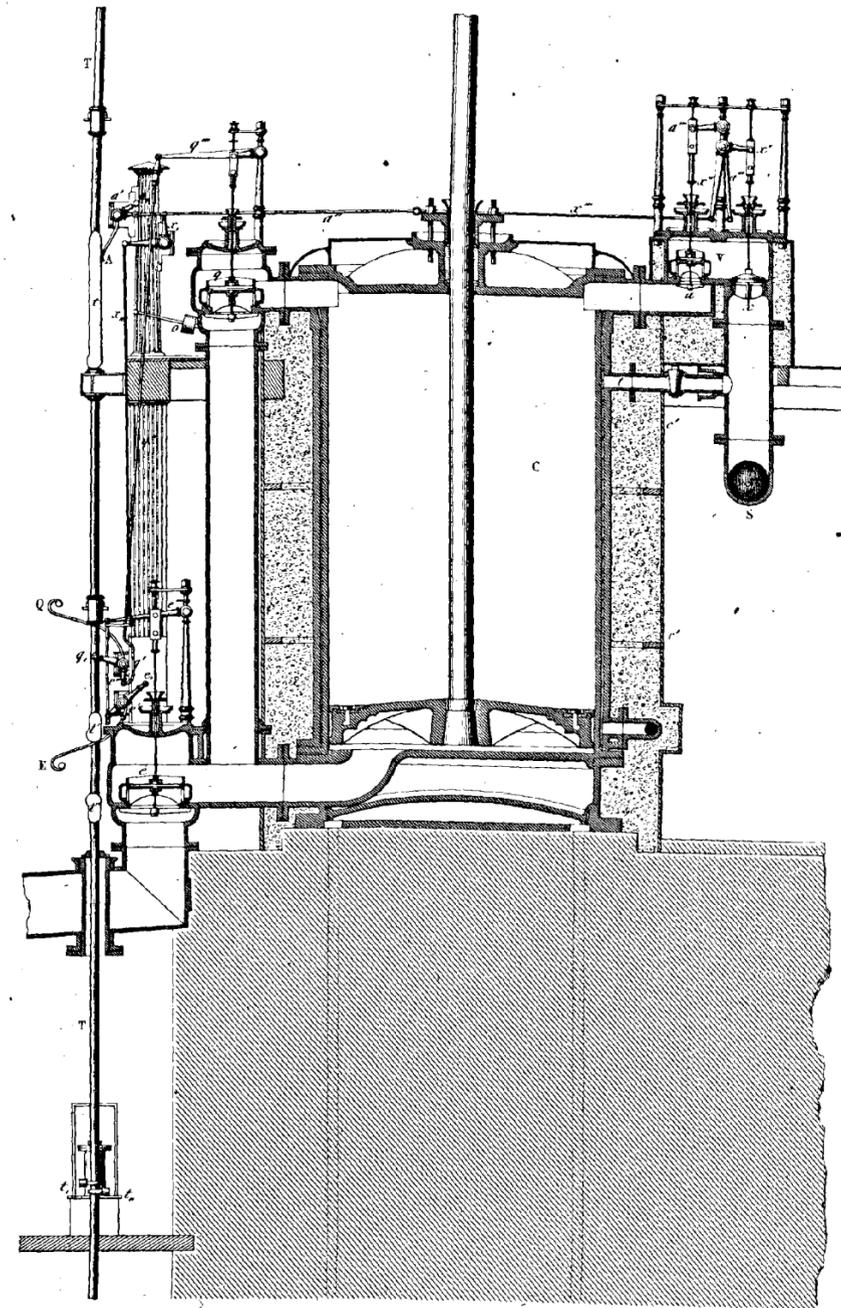
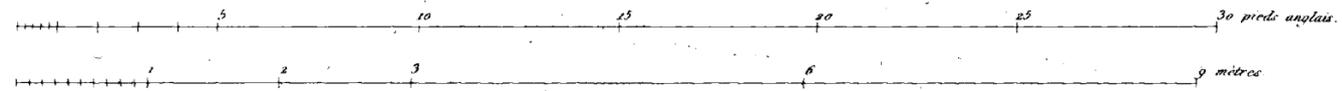
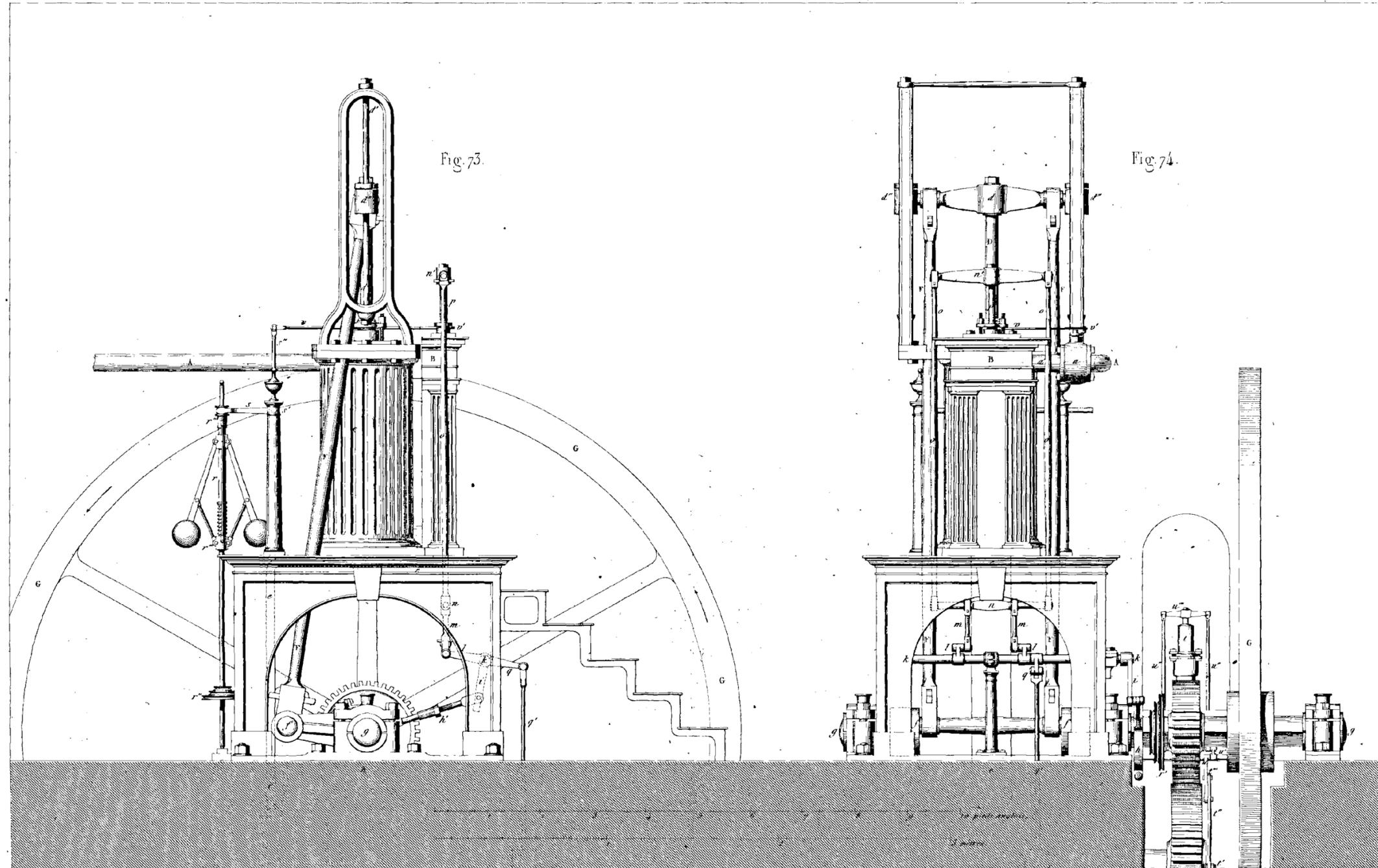


Fig. 72.



Grave par E. Wormser





Dessiné et Gravé par E. Wormser.

MACHINE LOCOMOTIVE.
CONSTRUITE PAR M. R. STEPHENSON, NEWCASTLE.

Fig. 75.

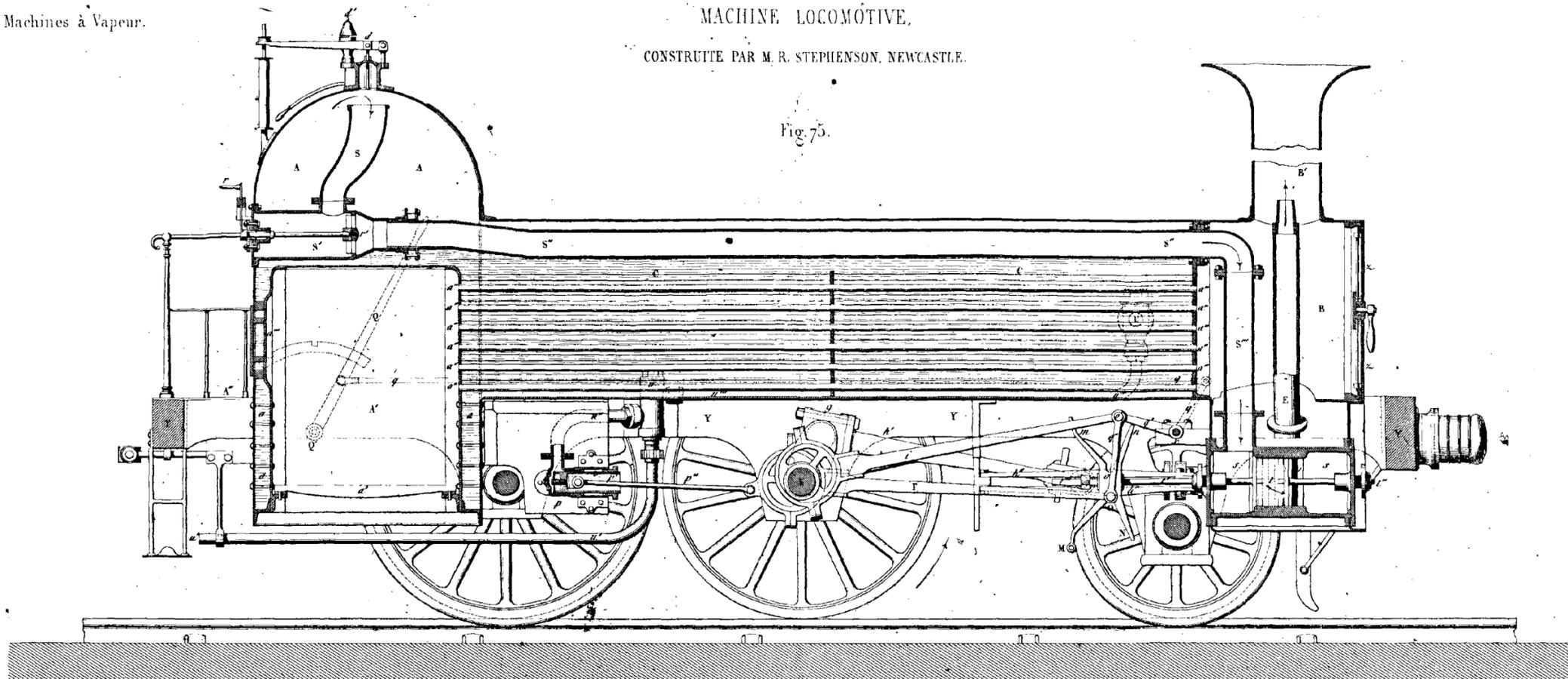
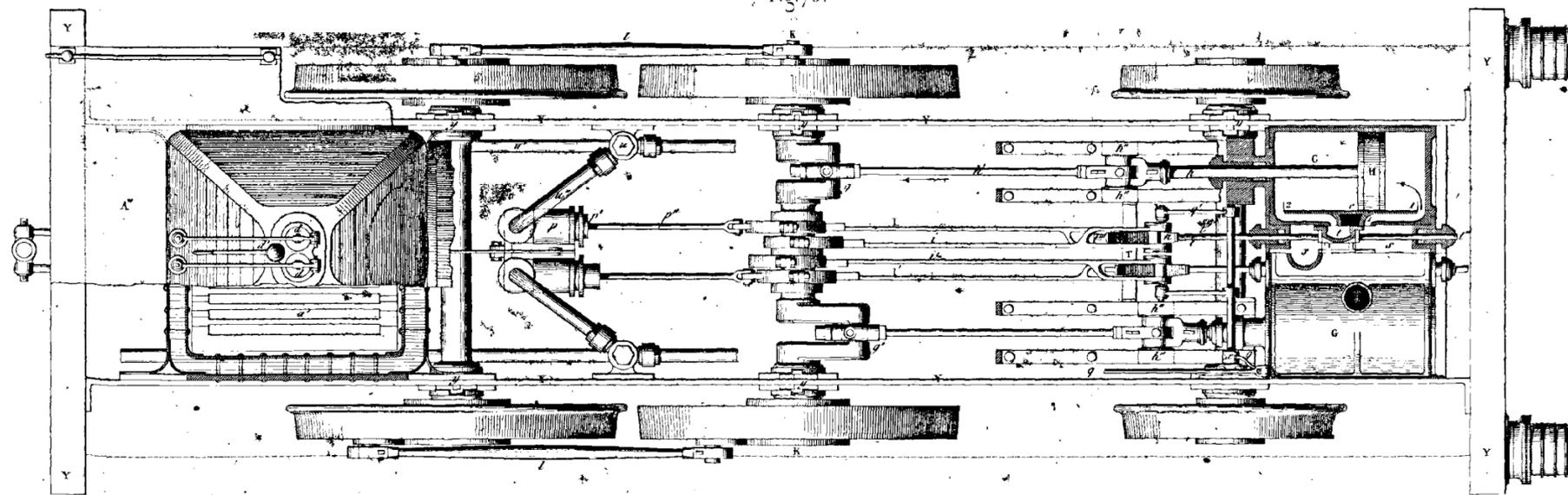


Fig. 76.



Gravé par E. Wormser.



Fig. 77.

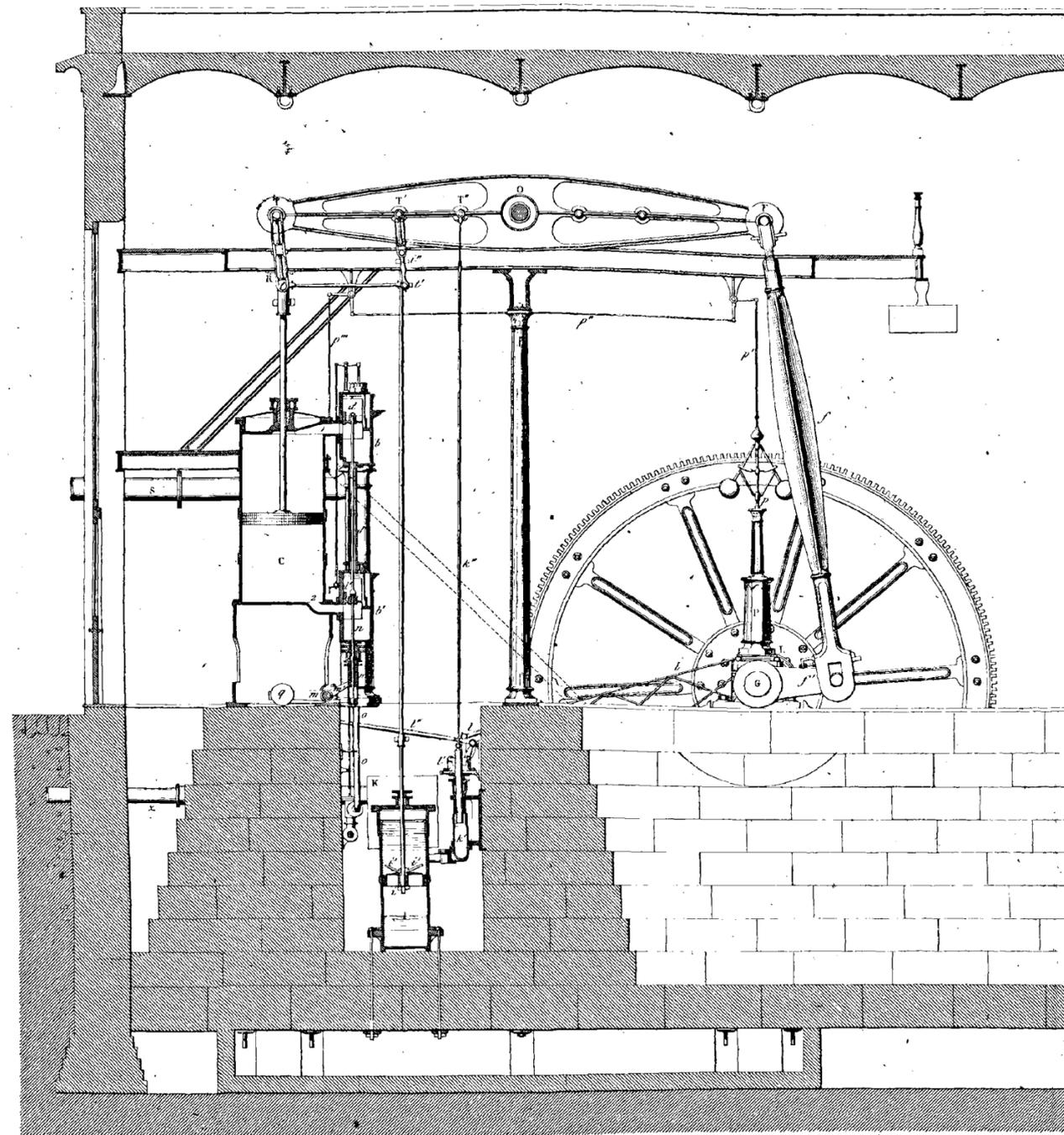


Fig. 77^{ter}

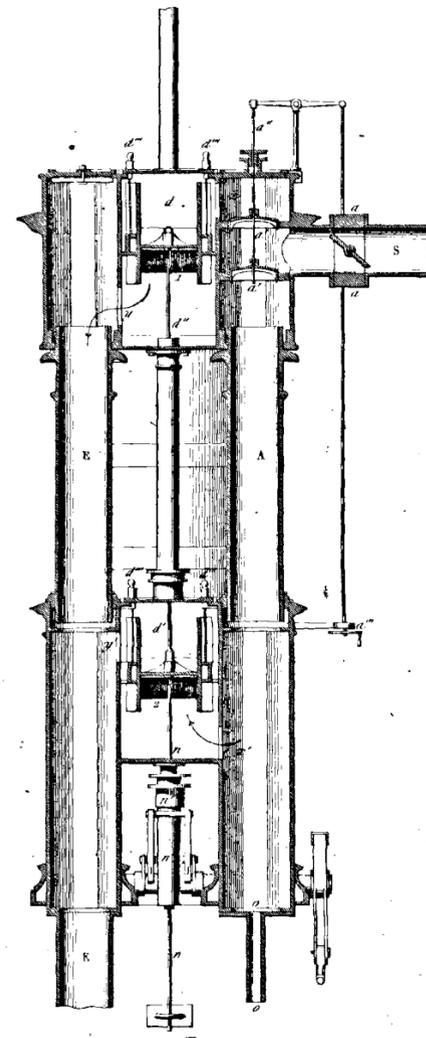
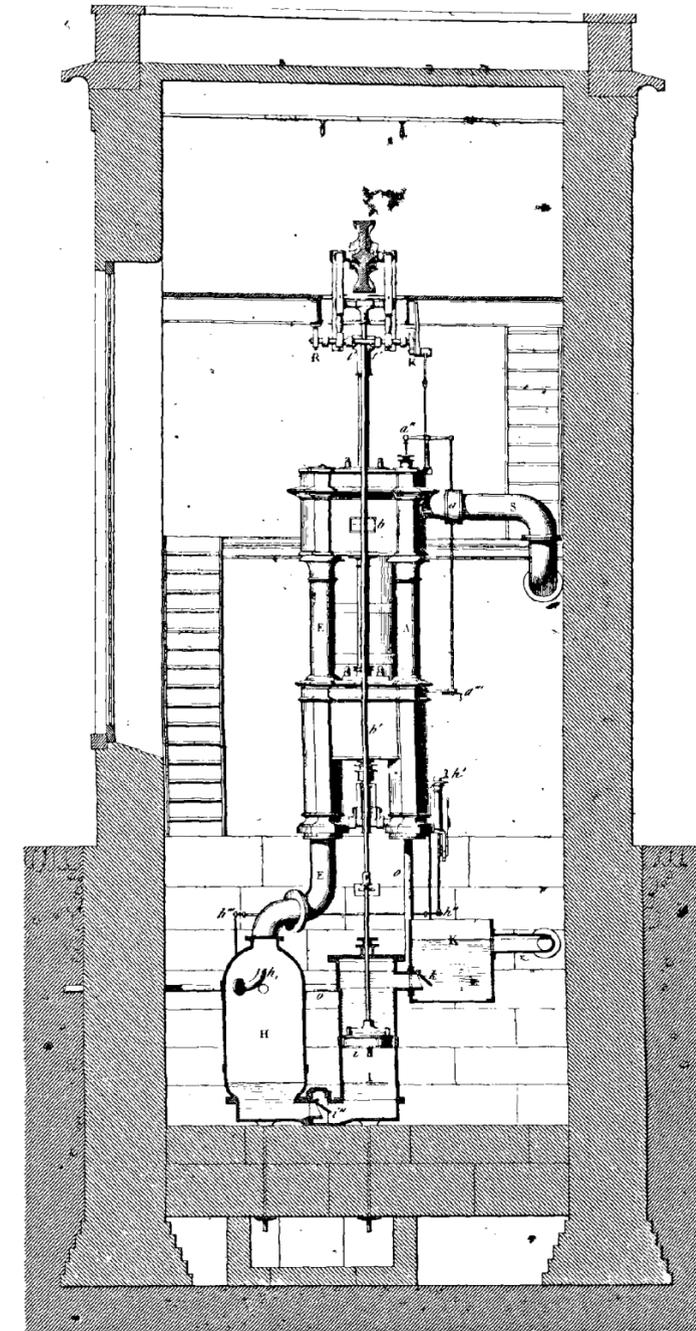
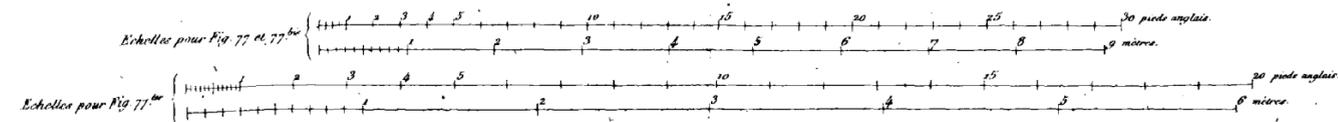
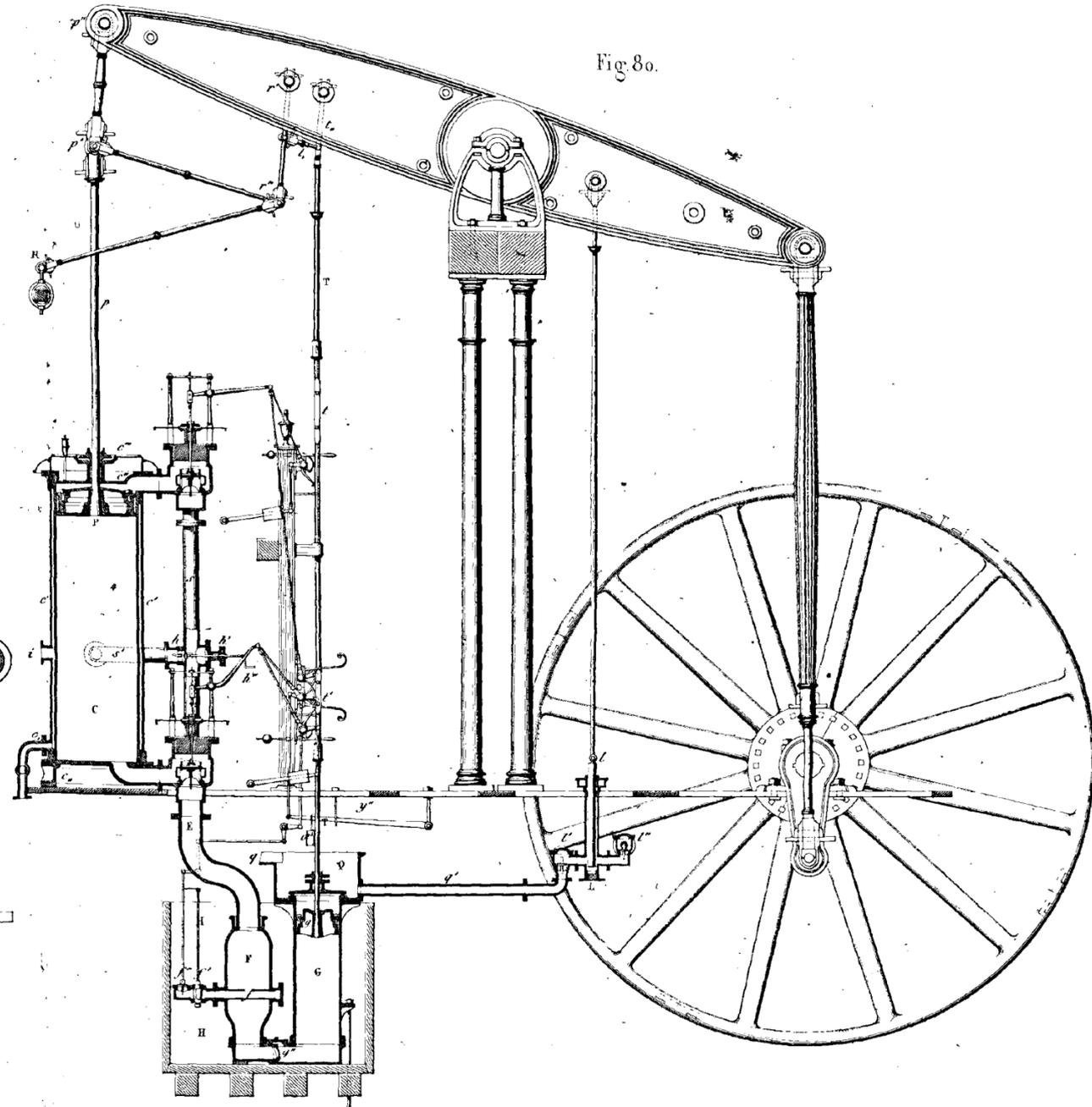
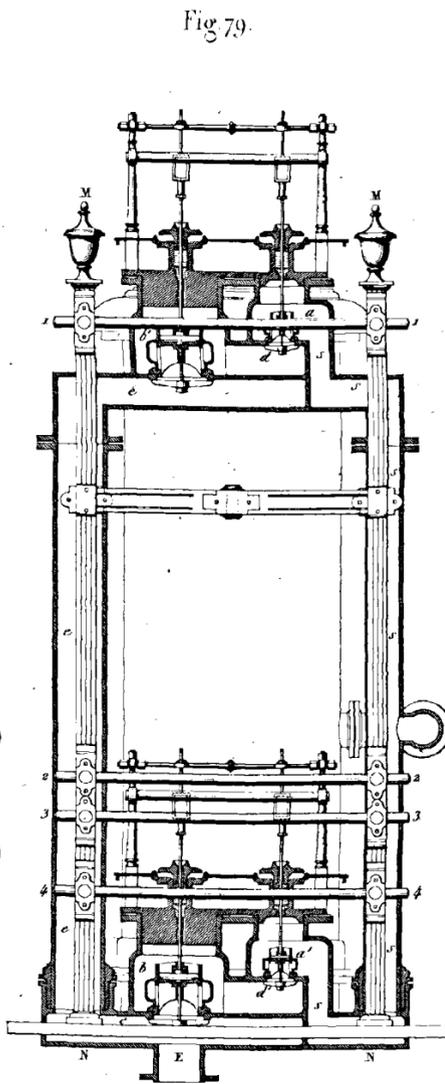
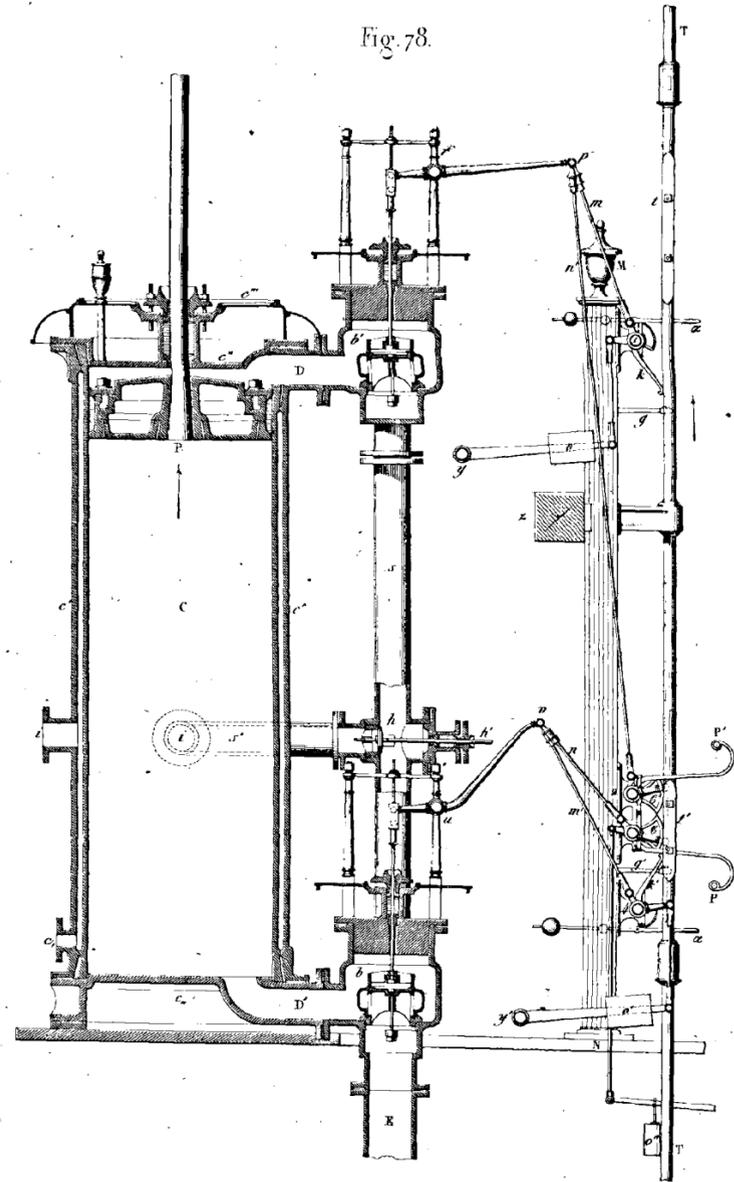


Fig. 77^{bis}



Gravé par E. Wormser.

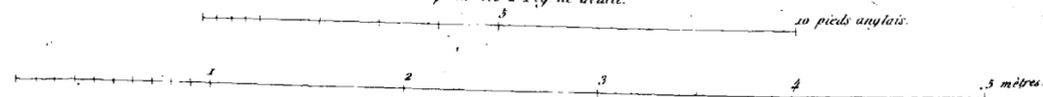




Gravé par E. Wormser.

Echelles pour les 2 Fig. de détail.

20 pieds anglais.



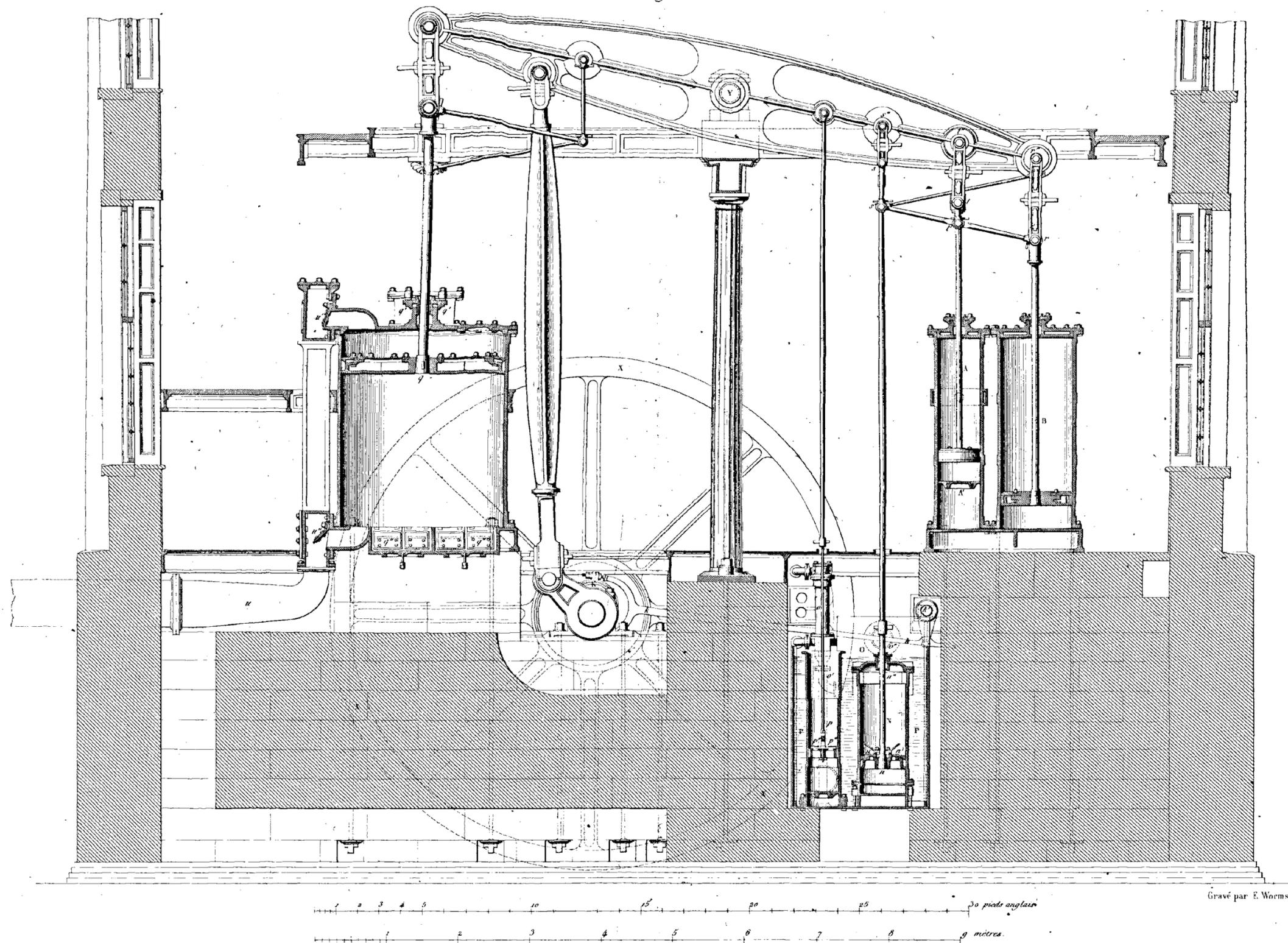
Echelles pour la Fig. d'ensemble.

20 pieds



MACHINE DE WOOLF.
CONSTRUITE PAR MM. HICK, DE BOLTON, LANCASHIRE.

Fig. 81.



Gravé par E. Woernser.

DÉTAILS D'UNE MACHINE DE WOOLF,
CONSTRUITE PAR MM. HICK, DE BOLTON, LANCASHIRE.

Fig. 82.

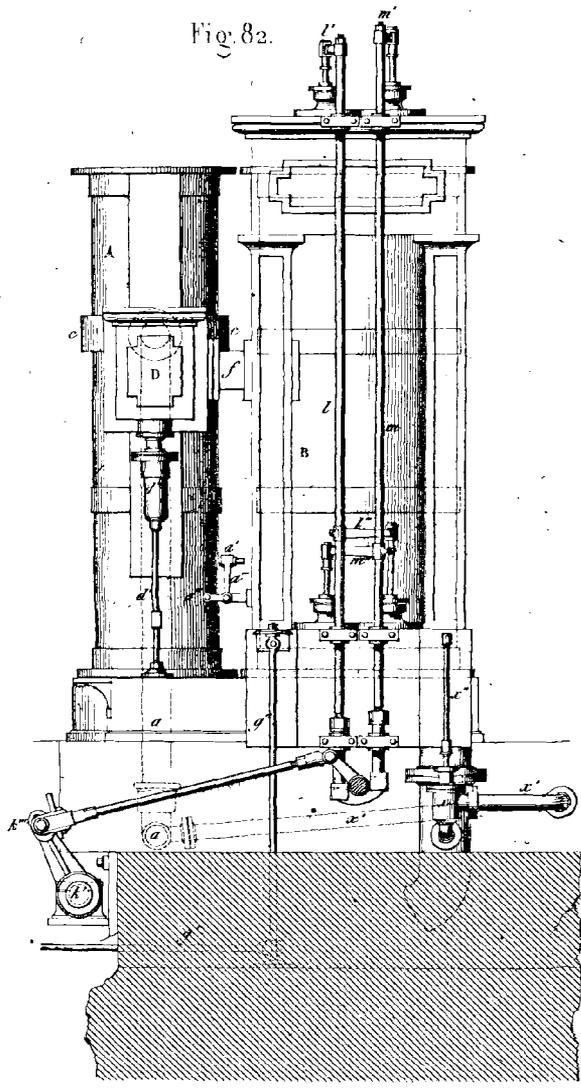


Fig. 84.

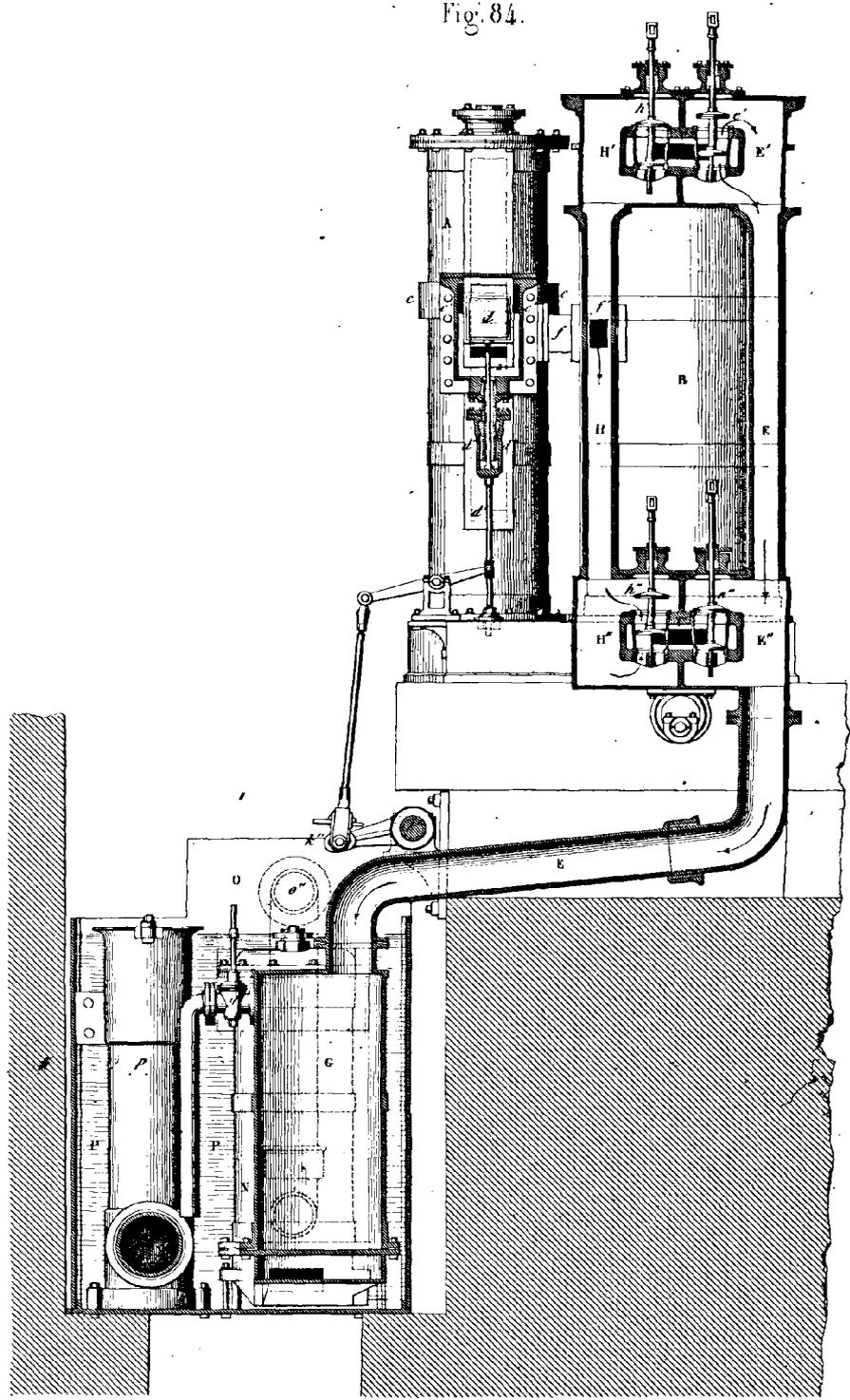
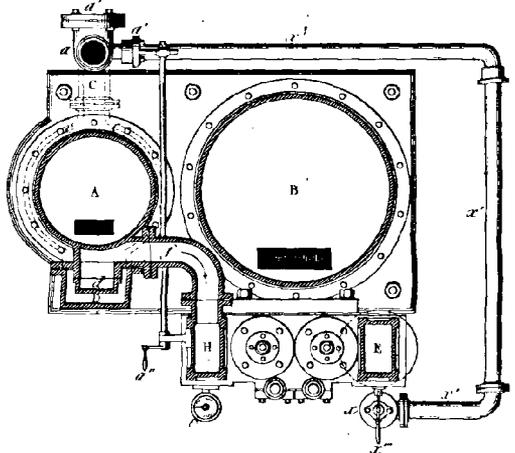
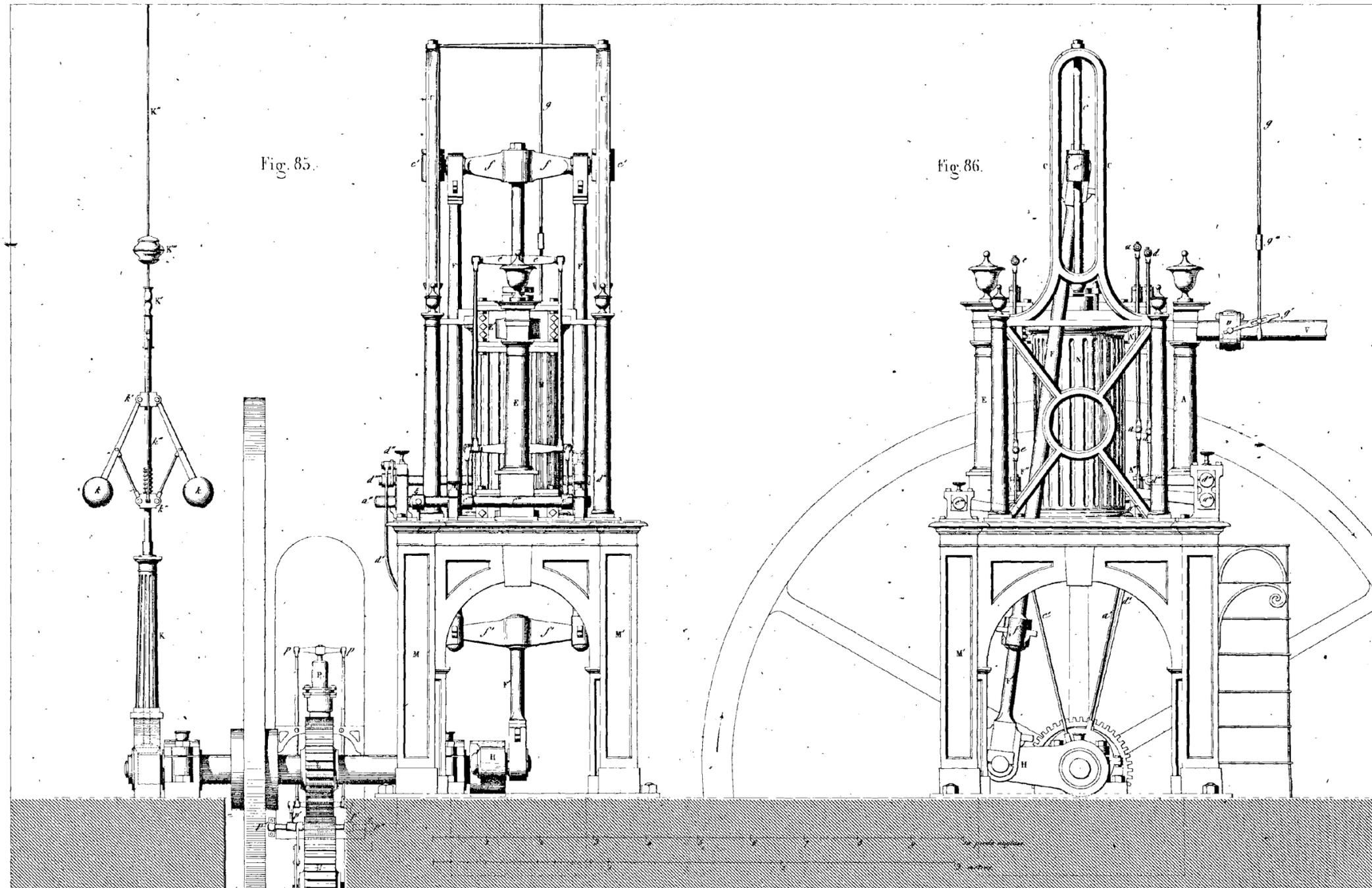


Fig. 83.



10 pieds anglais.
3 mètres.

Gravé par E. Wormser.



Dessiné et Gravé par E. Wormser.

MACHINE DE WATT A SIMPLE ACTION
CONSTRUITE PAR MM. HICK, DE BOLTON, LANCASHIRE.

Fig. 87.

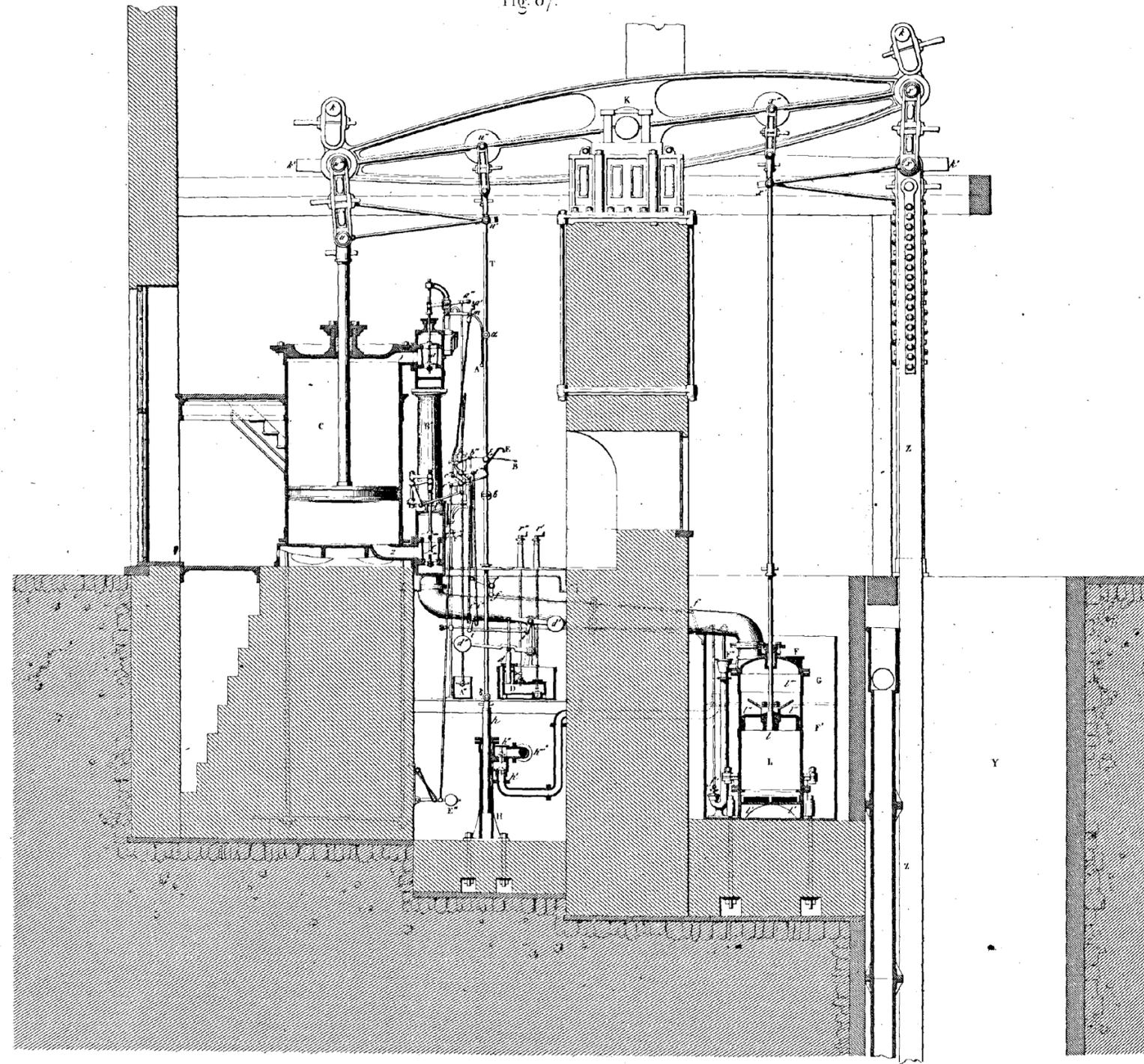
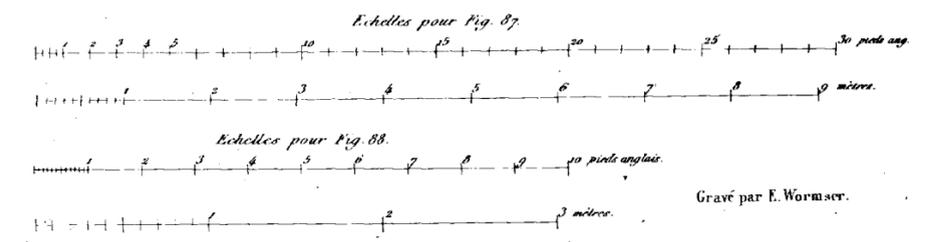
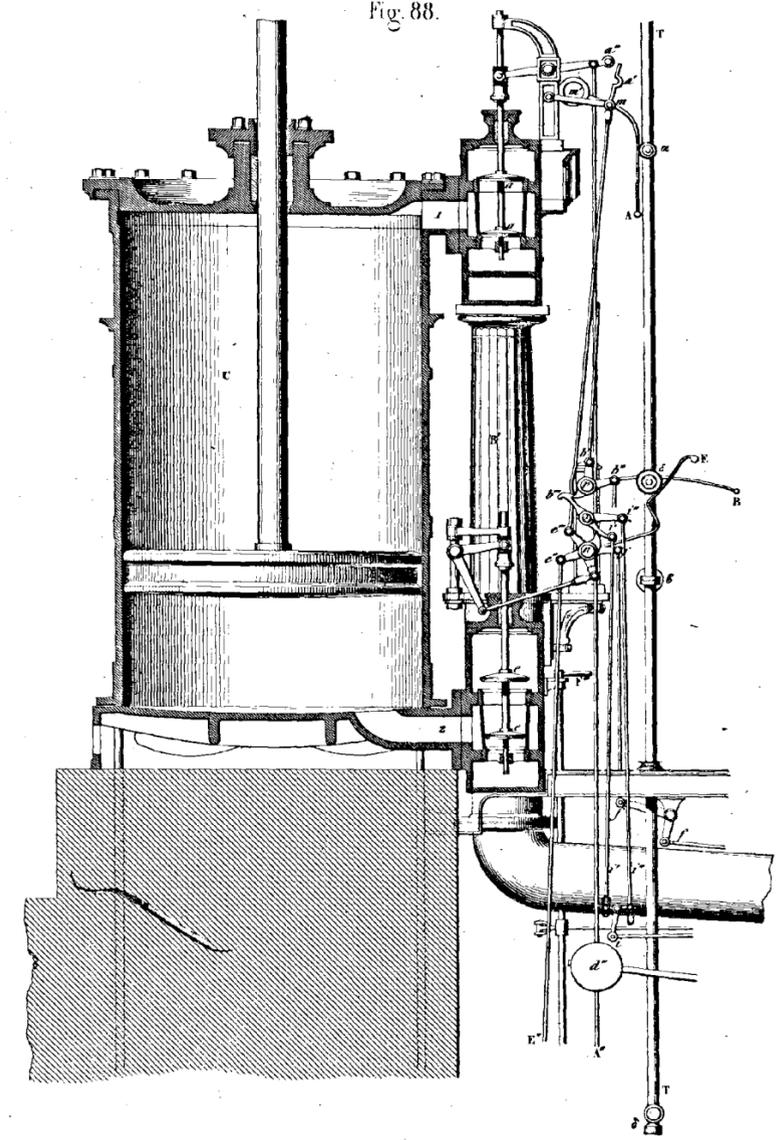
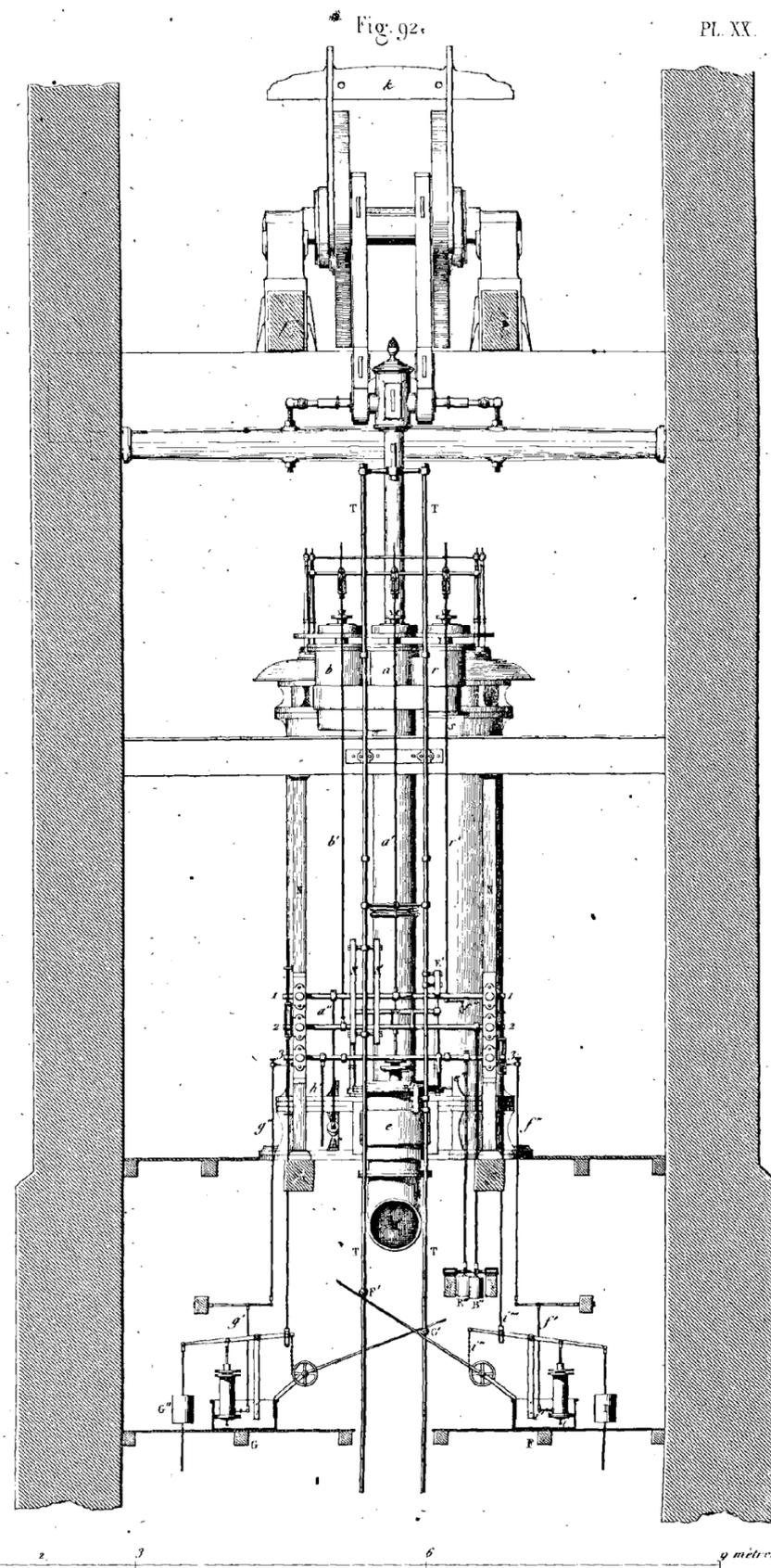
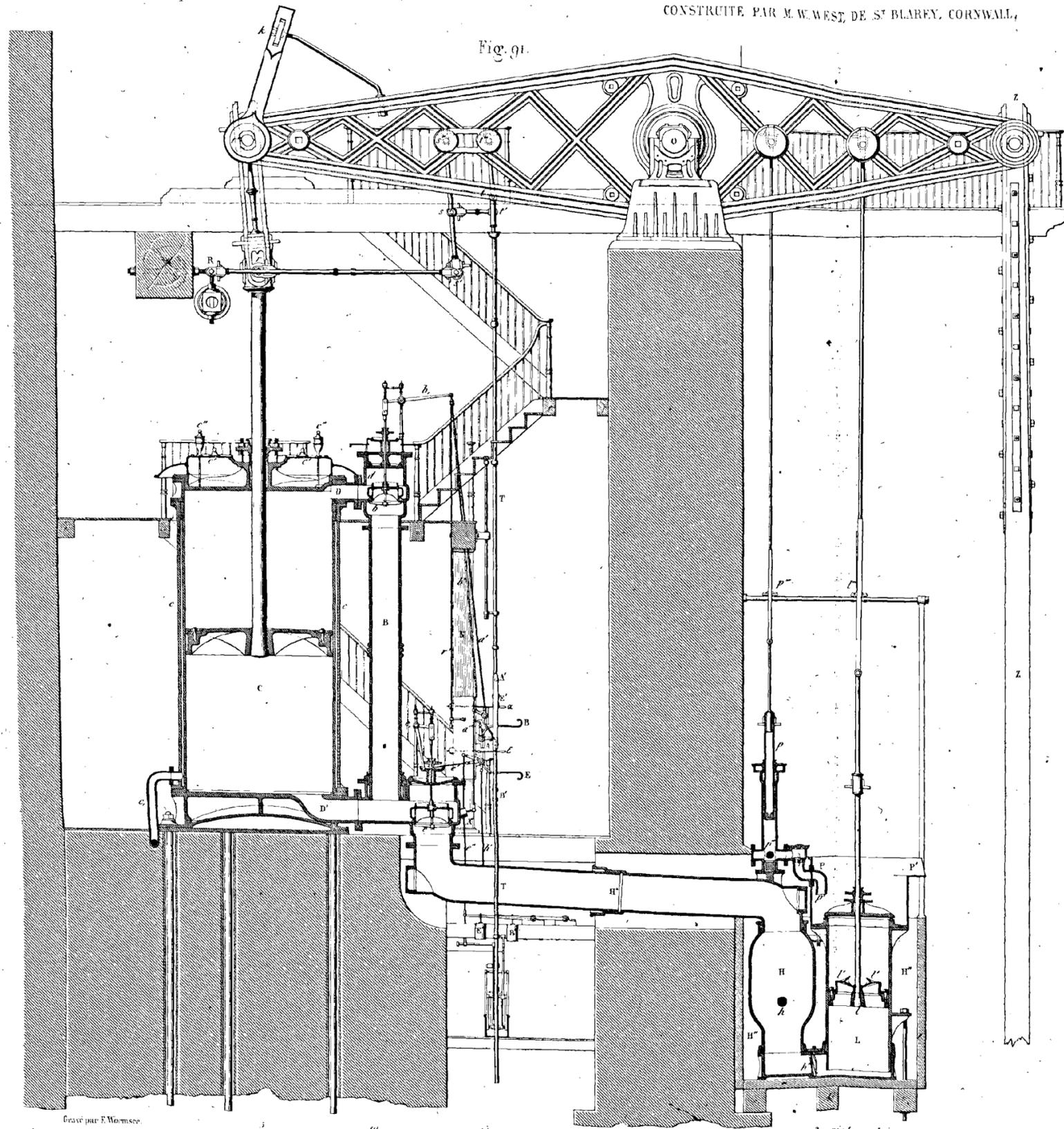
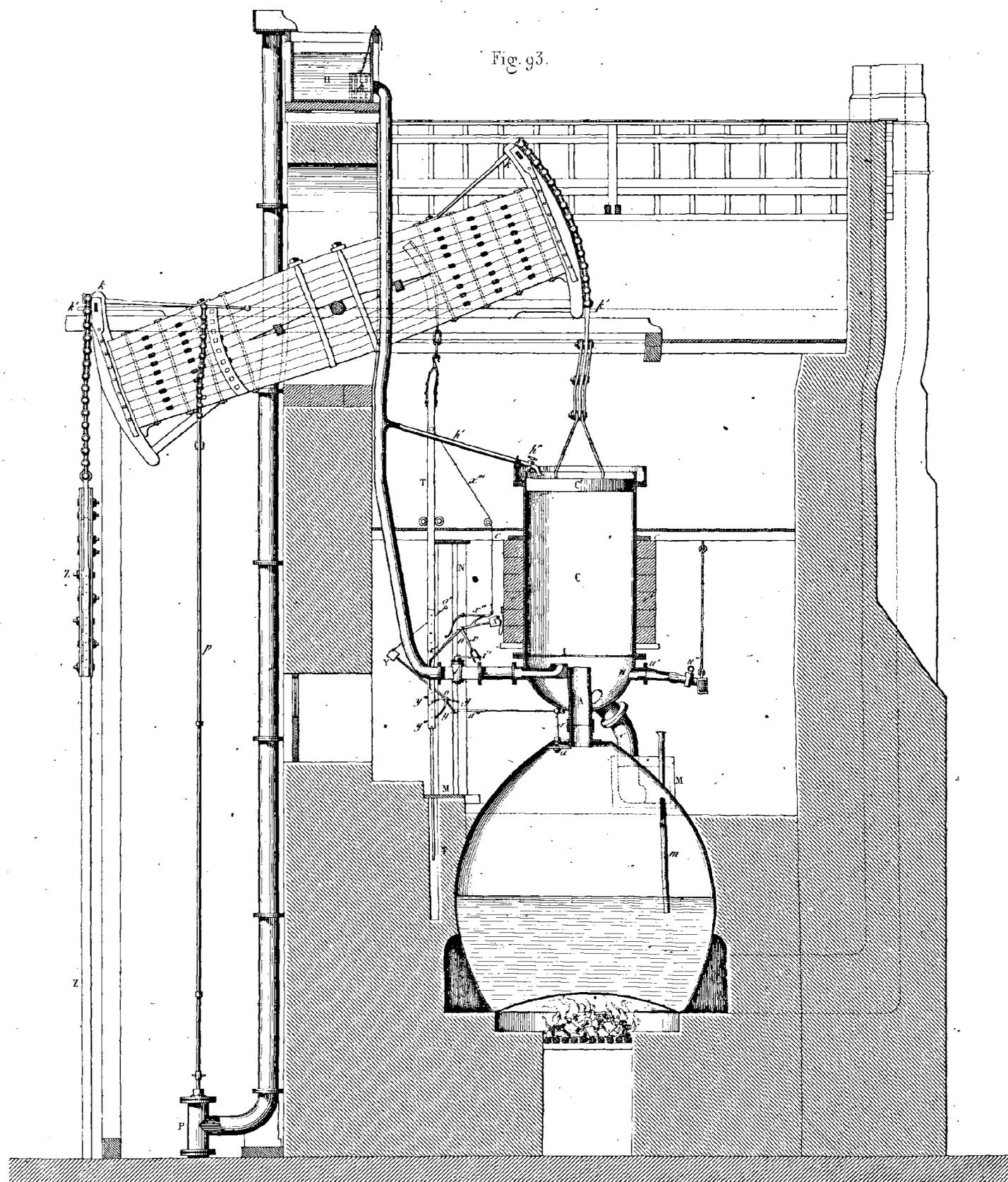


Fig. 88.



MACHINE DE CORNWALL, A SIMPLE ACTION
CONSTRUITE PAR M. W. WEST, DE ST BLAKEY, CORNWALL,





Gravé par F. Wormser.



CONSTRUITE PAR MM. FAWCETT ET PRESTON, LIVERPOOL.

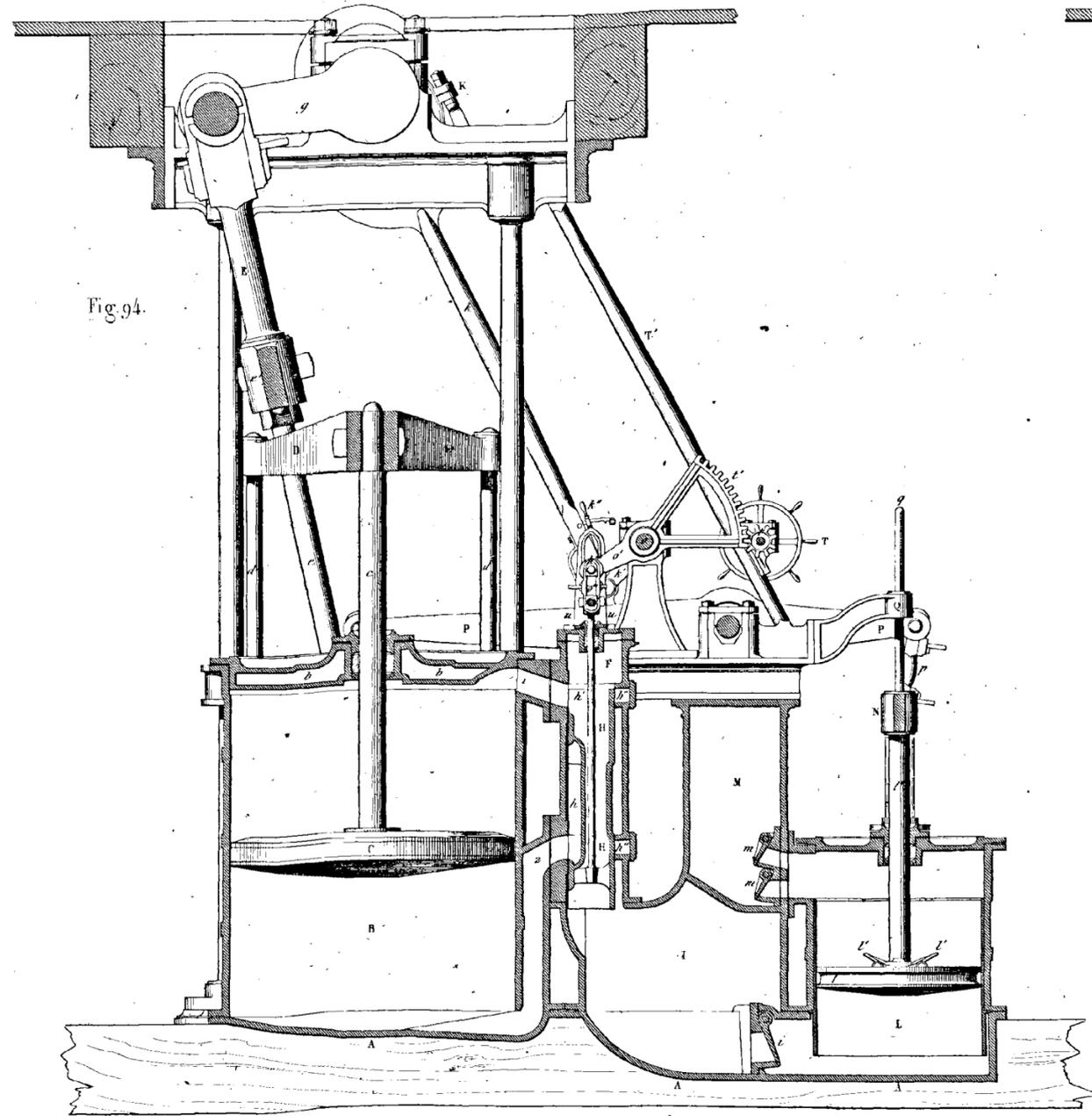


Fig. 94.

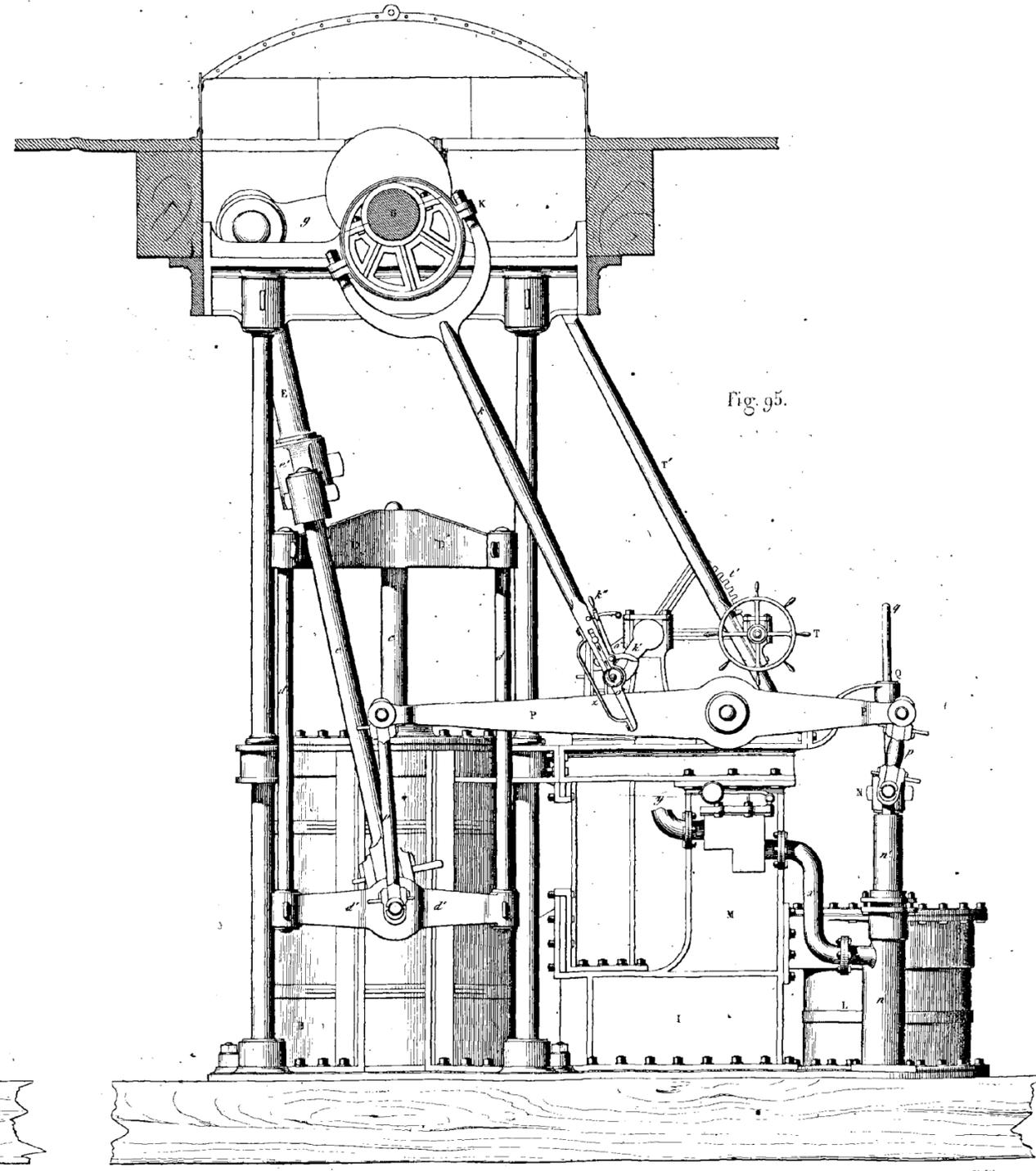
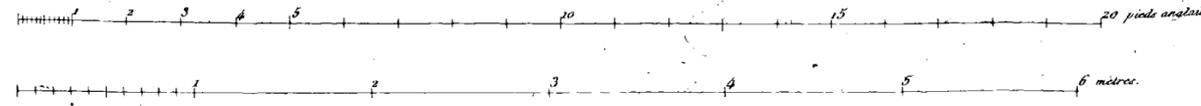
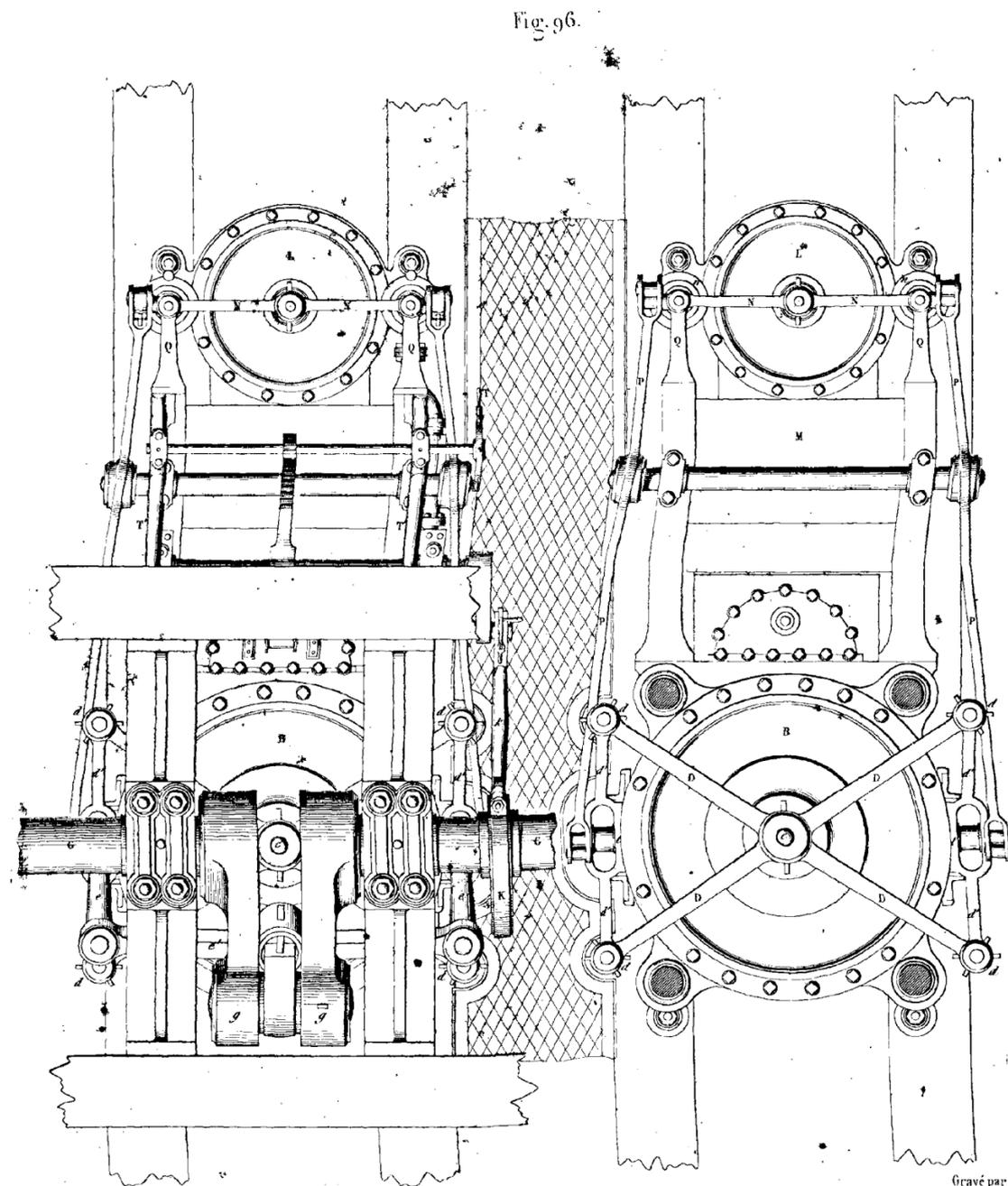
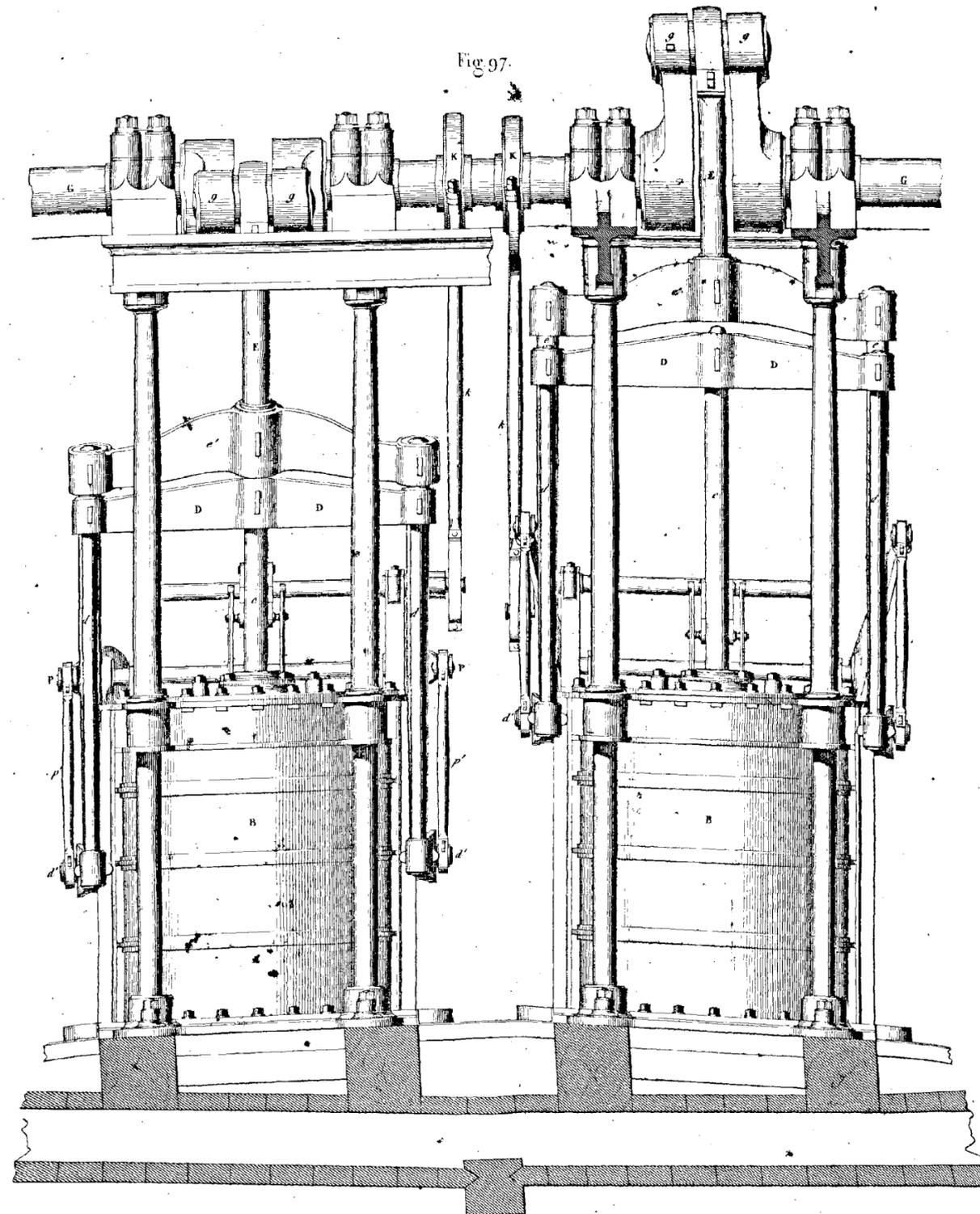


Fig. 95.

Gravé par E. Wormser.



CONSTRUITE PAR MM. FAWCETT ET PRESTON, LIVERPOOL.



Gravé par E. Wormser.

