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А. Брандтъ,

Профессоръ Института инженеровъ путей сообщенія.

КУРСЪ
ПАРОВЫХЪ МАШИНЪ

Н0138

ЛЕКЦІЙ,

читанныя въ Институтѣ инженеровъ путей сообщенія

Императора Александра I.

Чертежи (31 листъ).

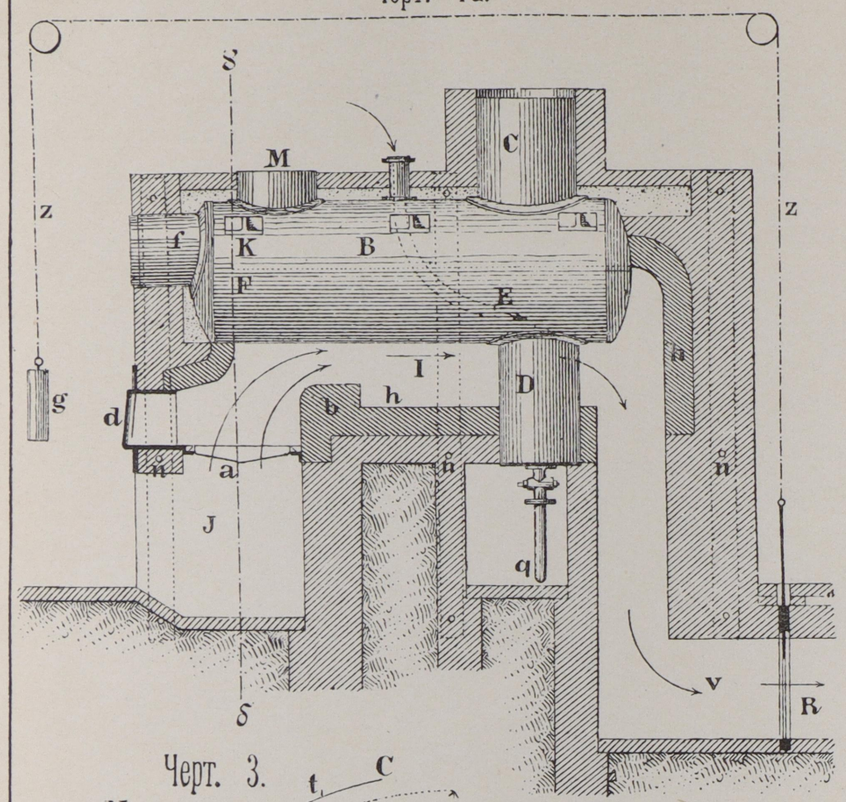
Дата 2007

БИБЛИОТЕКА
Белорусского
института инженеров
железнодорожного
транспорта

С.-ПЕТЕРБУРГЪ
Паровая Скоропечатня П. О. Яблонскаго. Лештуковъ пер., № 13.
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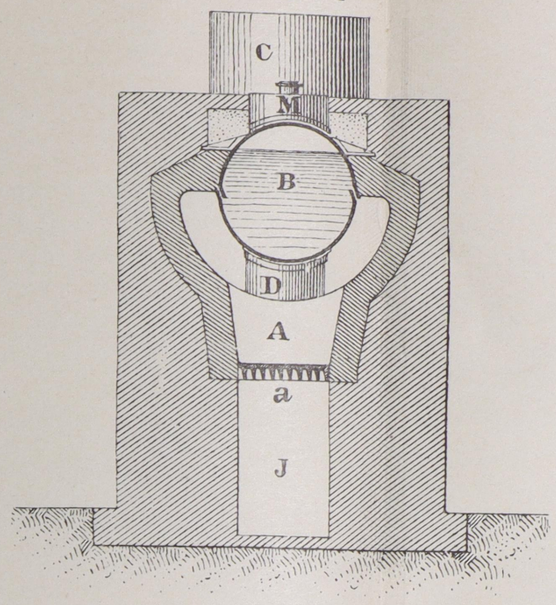
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Черт. 1а.

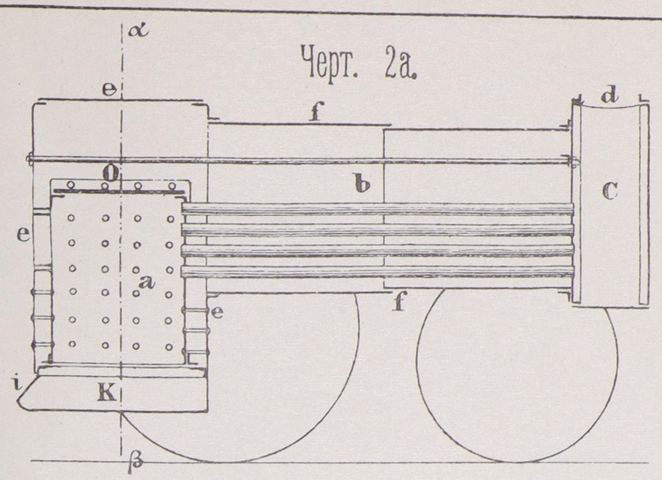


Черт. 1б.

Поперечный разрѣзъ по γ-δ.

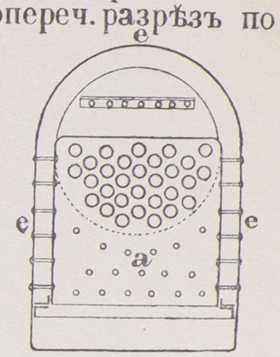


Черт. 2а.



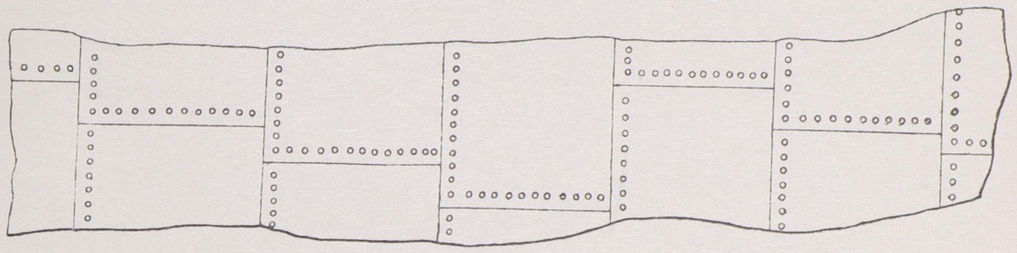
Черт. 2б.

Попереч. разрѣзъ по α-β.

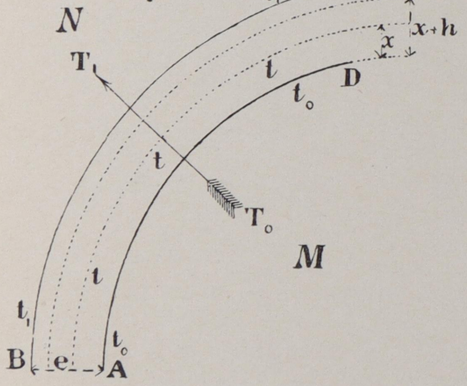


Масштабъ 3/100 *н. в.*

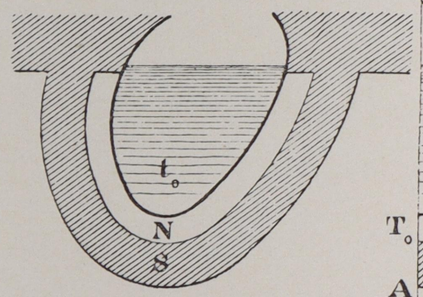
Черт. 6.

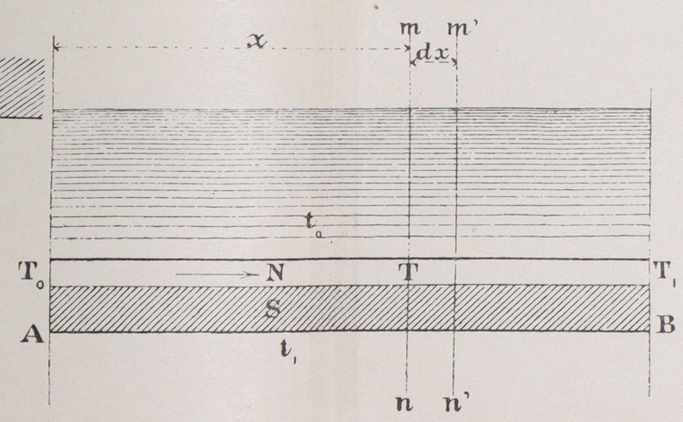


Черт. 3.

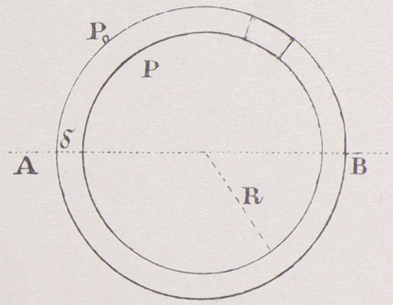


Черт. 4.

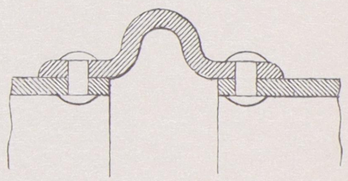




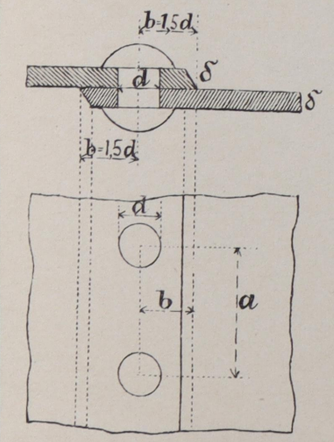
Черт. 5.



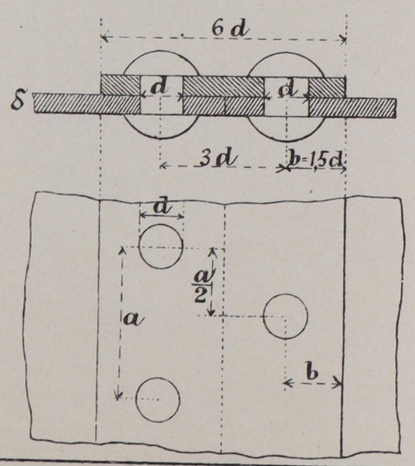
Черт. 12.



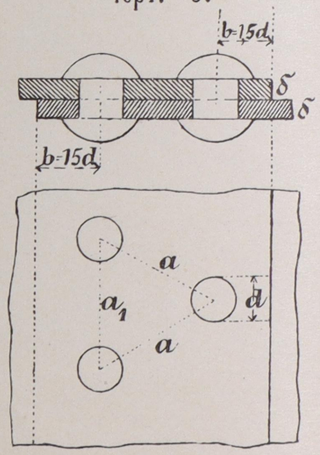
Черт. 7.



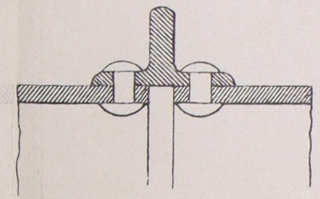
Черт 8.



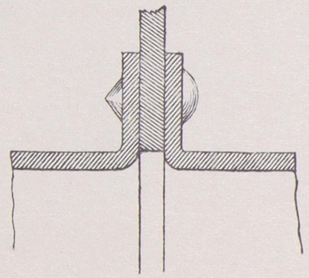
Черт. 9.



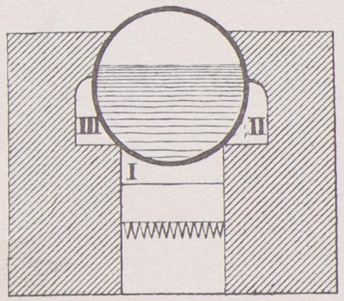
Черт. 10.



Черт. 11.

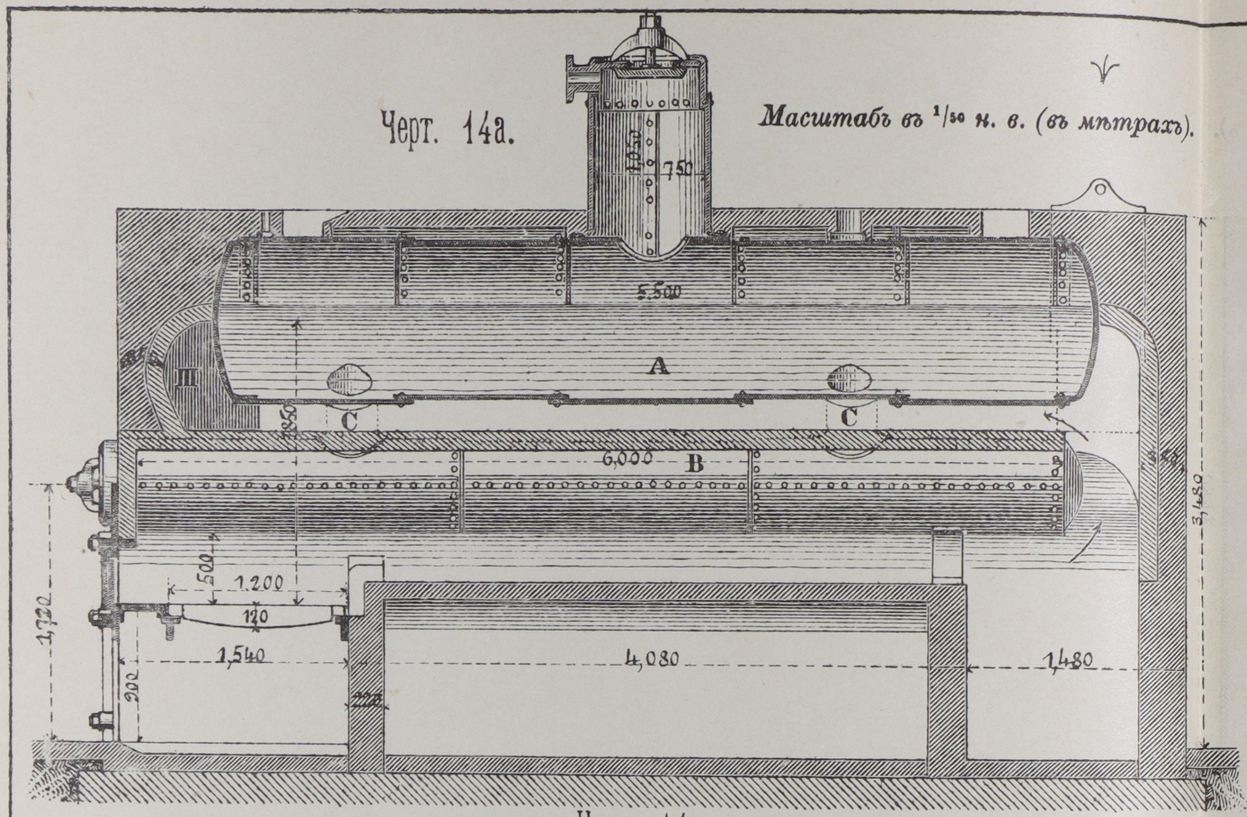


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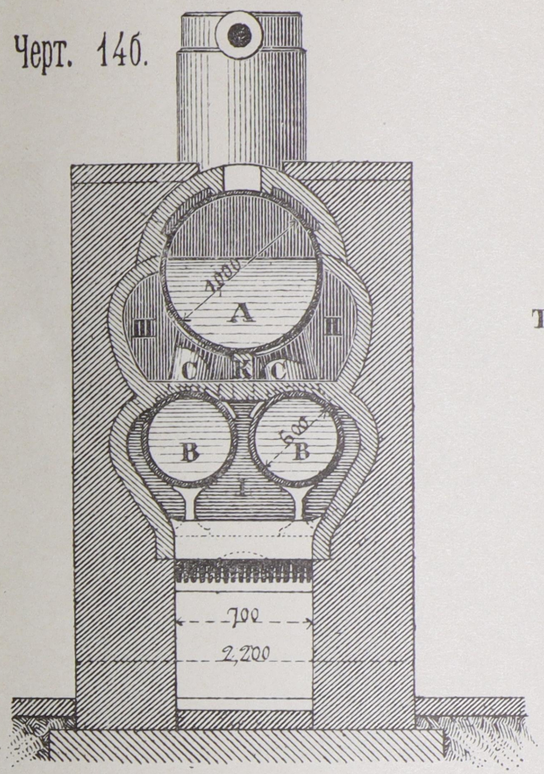


Черт. 14а.

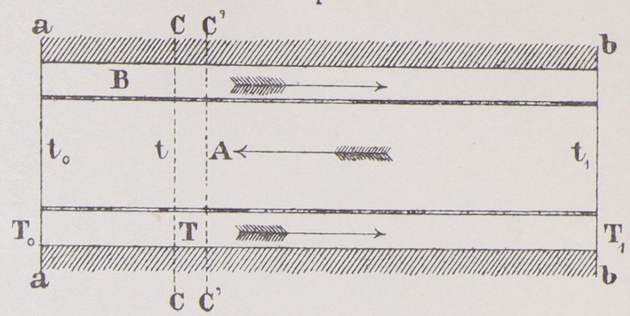
Масштабъ въ 1/50 н. в. (въ метрахъ).



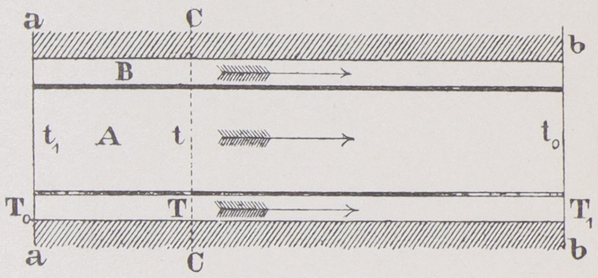
Черт. 14б.



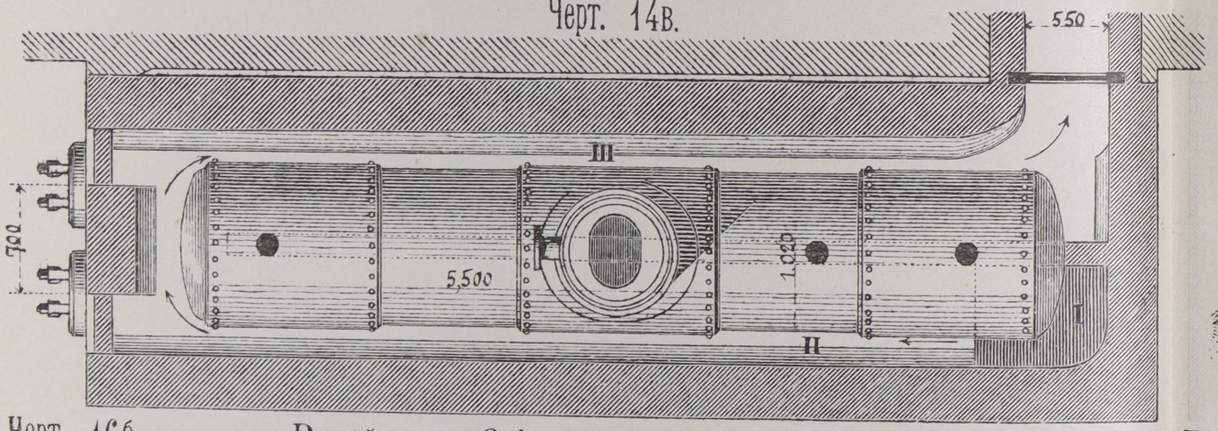
Черт. 17



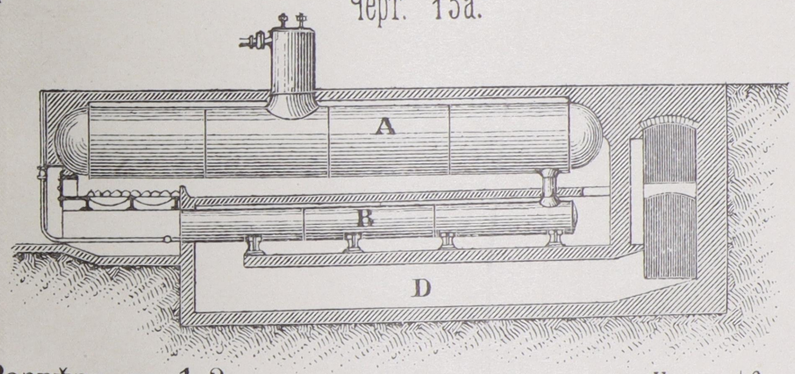
Черт. 18.



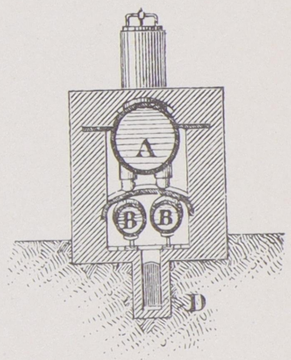
Черт. 14в.



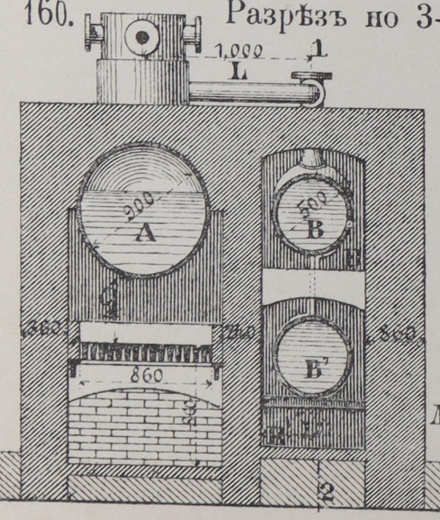
Черт. 15а.



Черт. 15б.



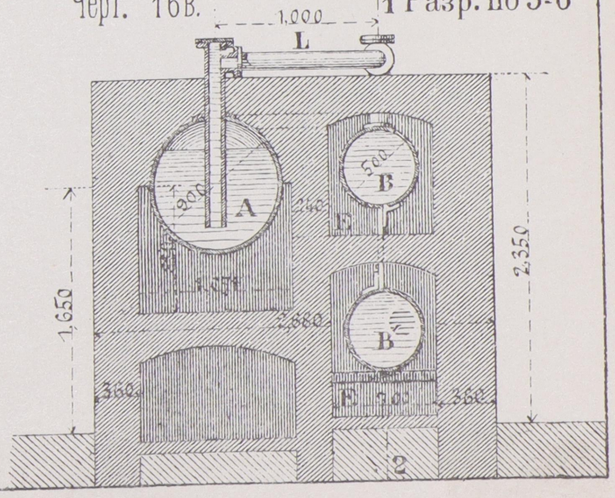
Черт. 16б. Разрѣзъ по 3-4.



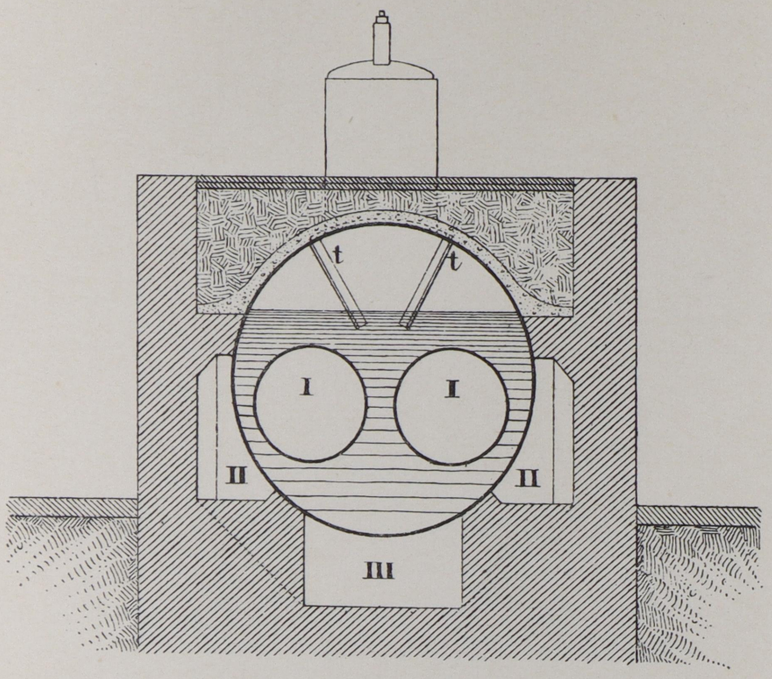
Черт. 16а. Разрѣзъ по 1-2.



Черт. 16в. Разр. по 5-6

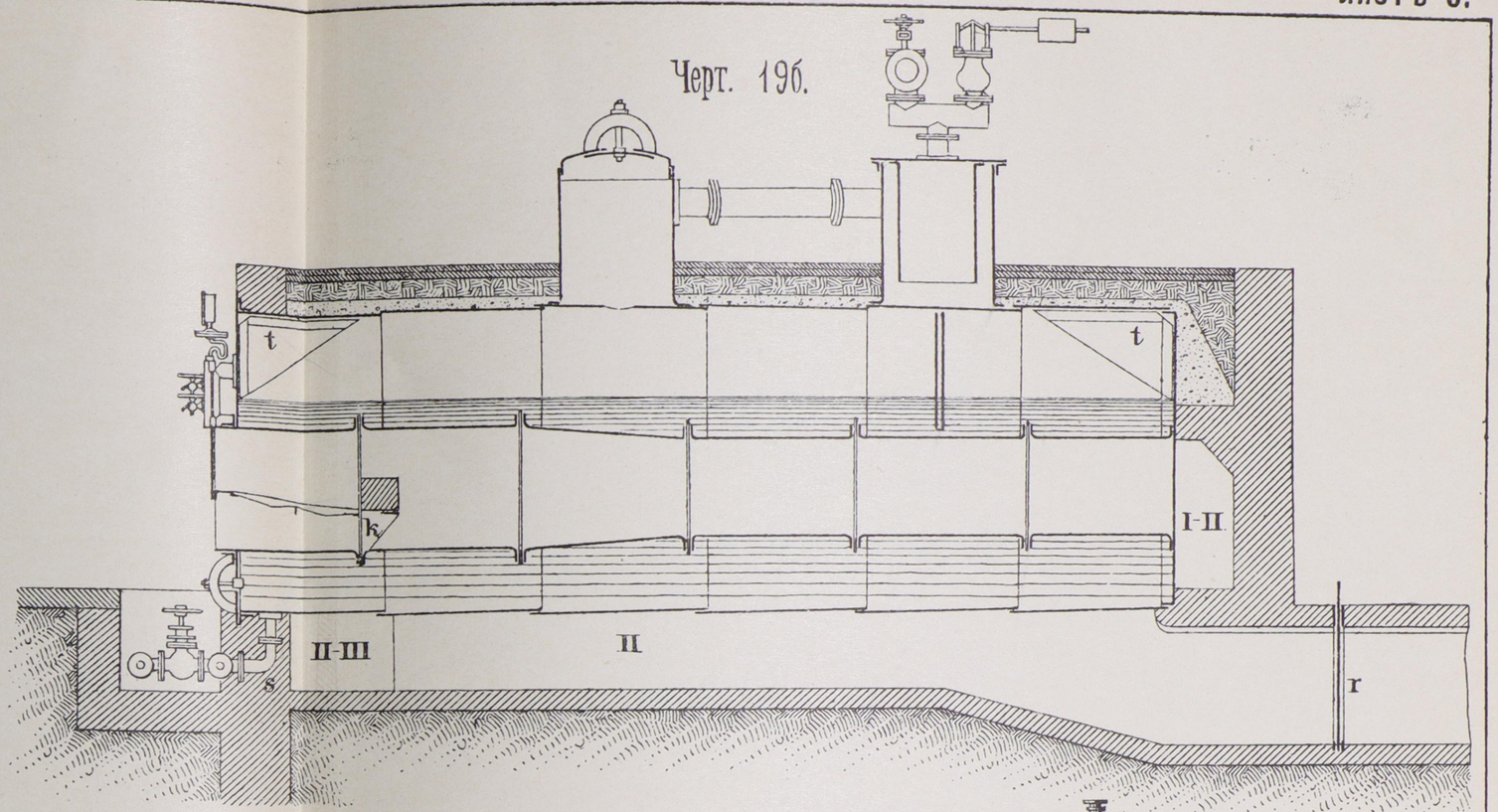


Черт. 19а.

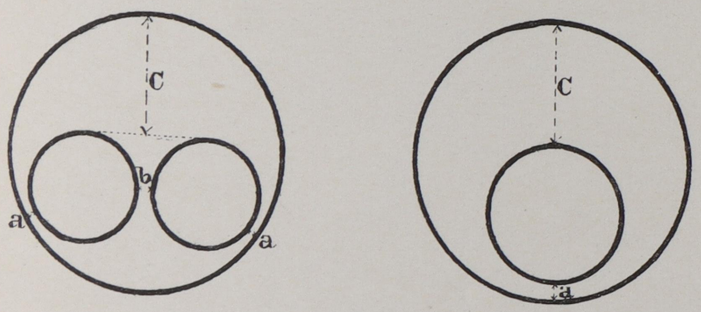


Масштабъ въ 1/50 н. в.

Черт. 19б.

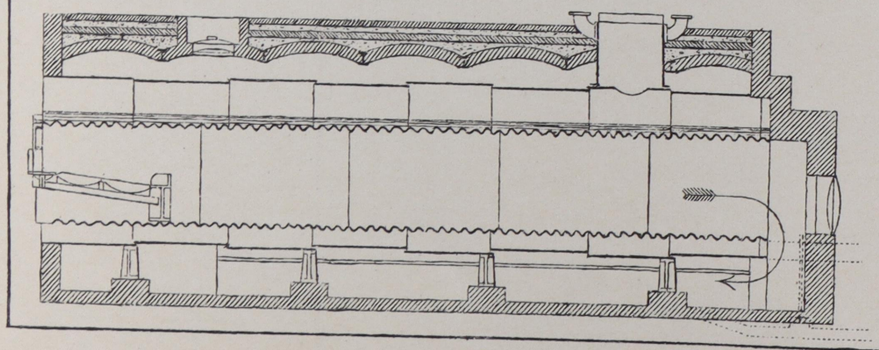


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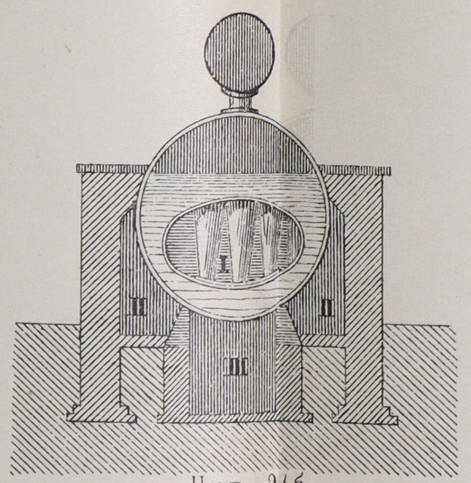


Черт. 21а.

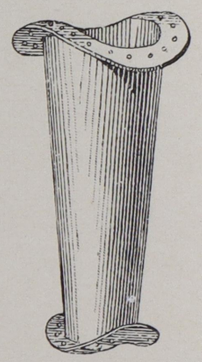
Масштабъ въ 1/100 н. в.



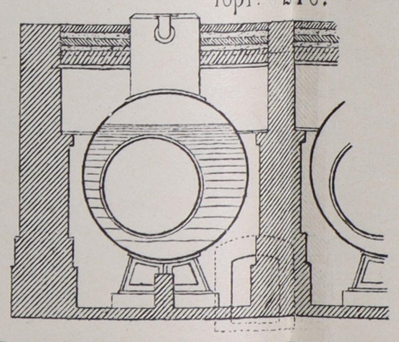
Черт. 22в. Поперечный разрѣзъ.



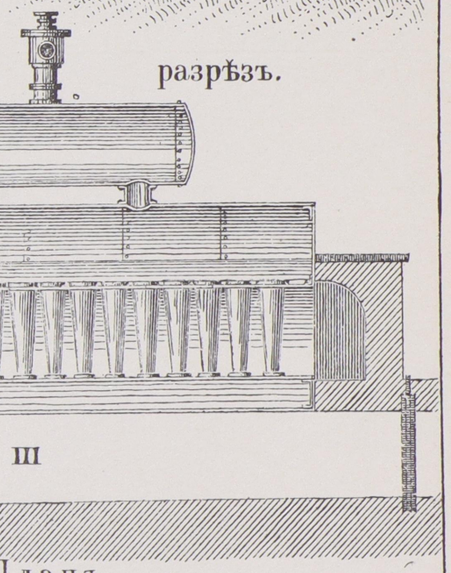
Черт. 23.



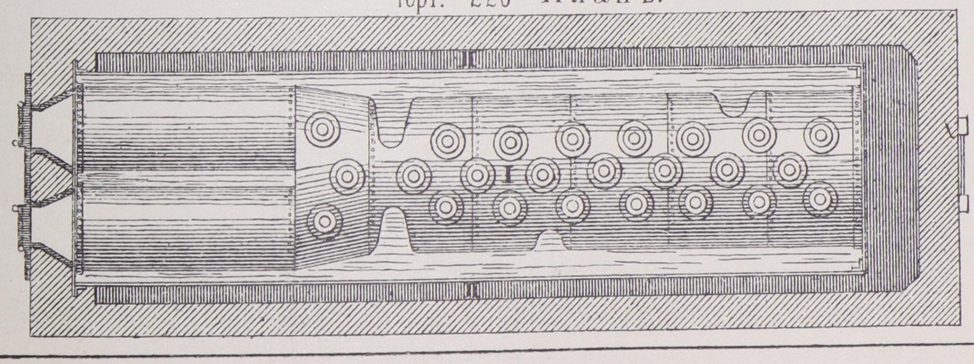
Черт. 21б.



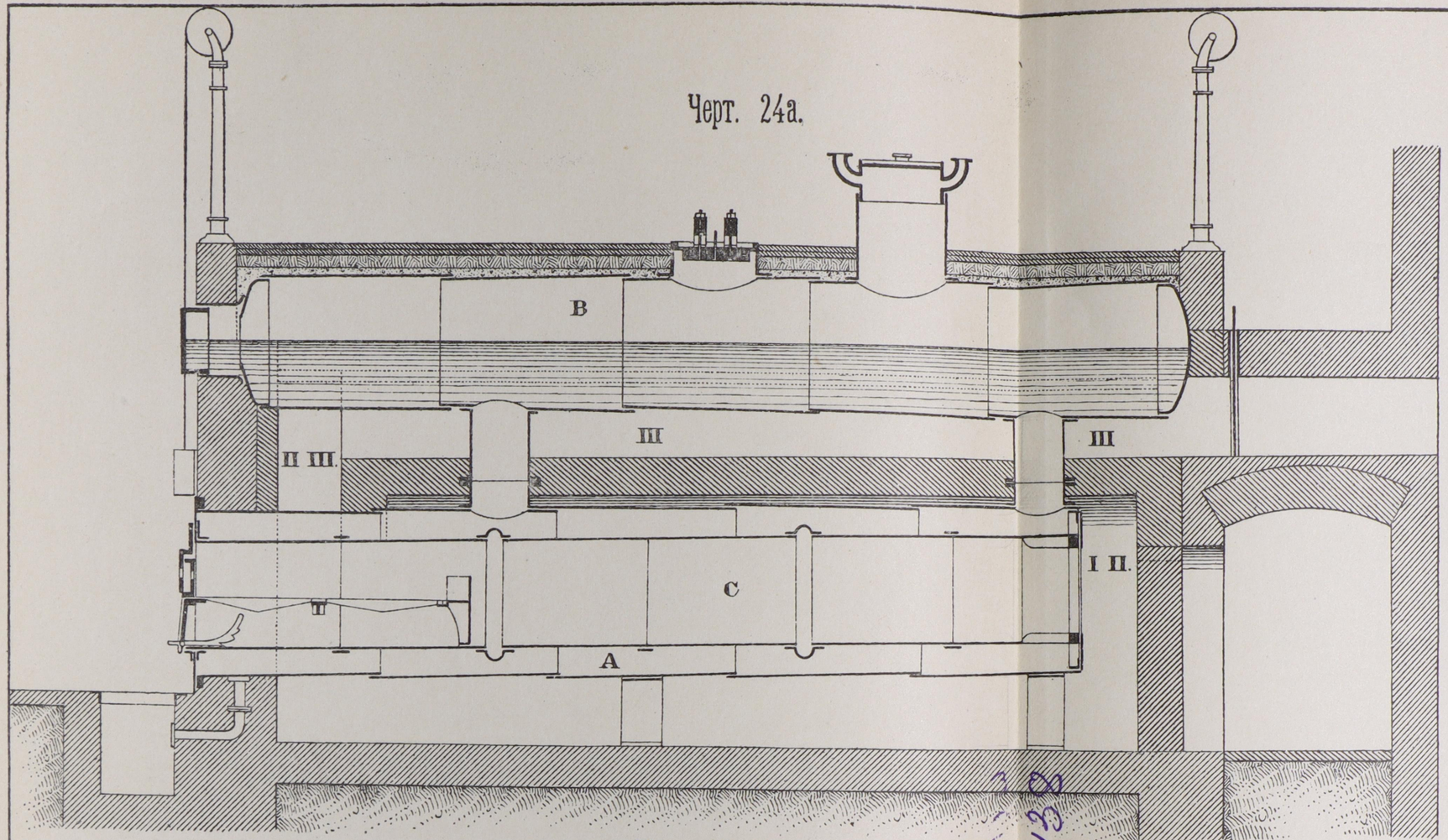
Черт. 22а Продольный разрѣзъ.



Черт. 22б Планъ.

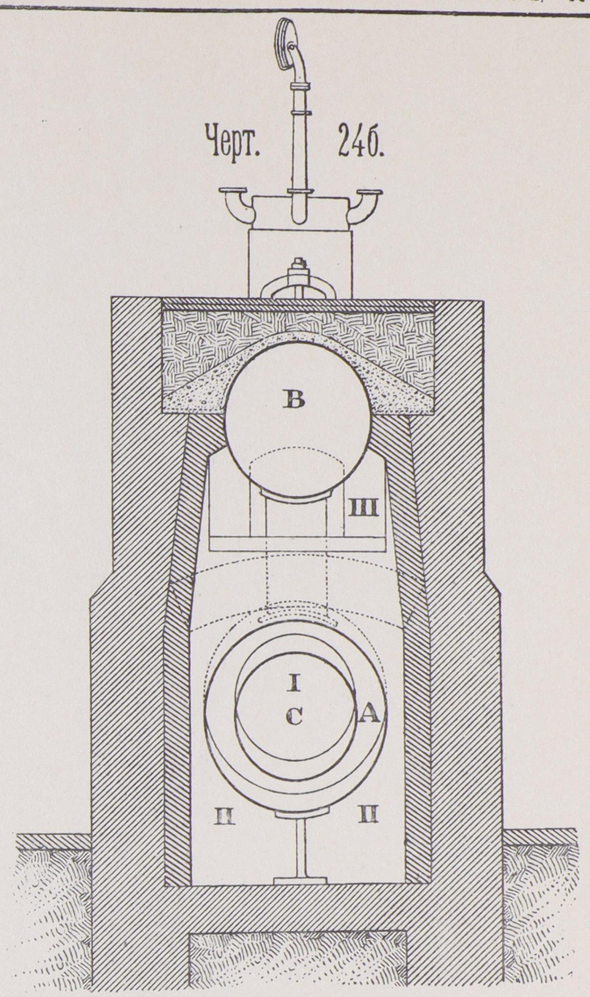


Черт. 24а.

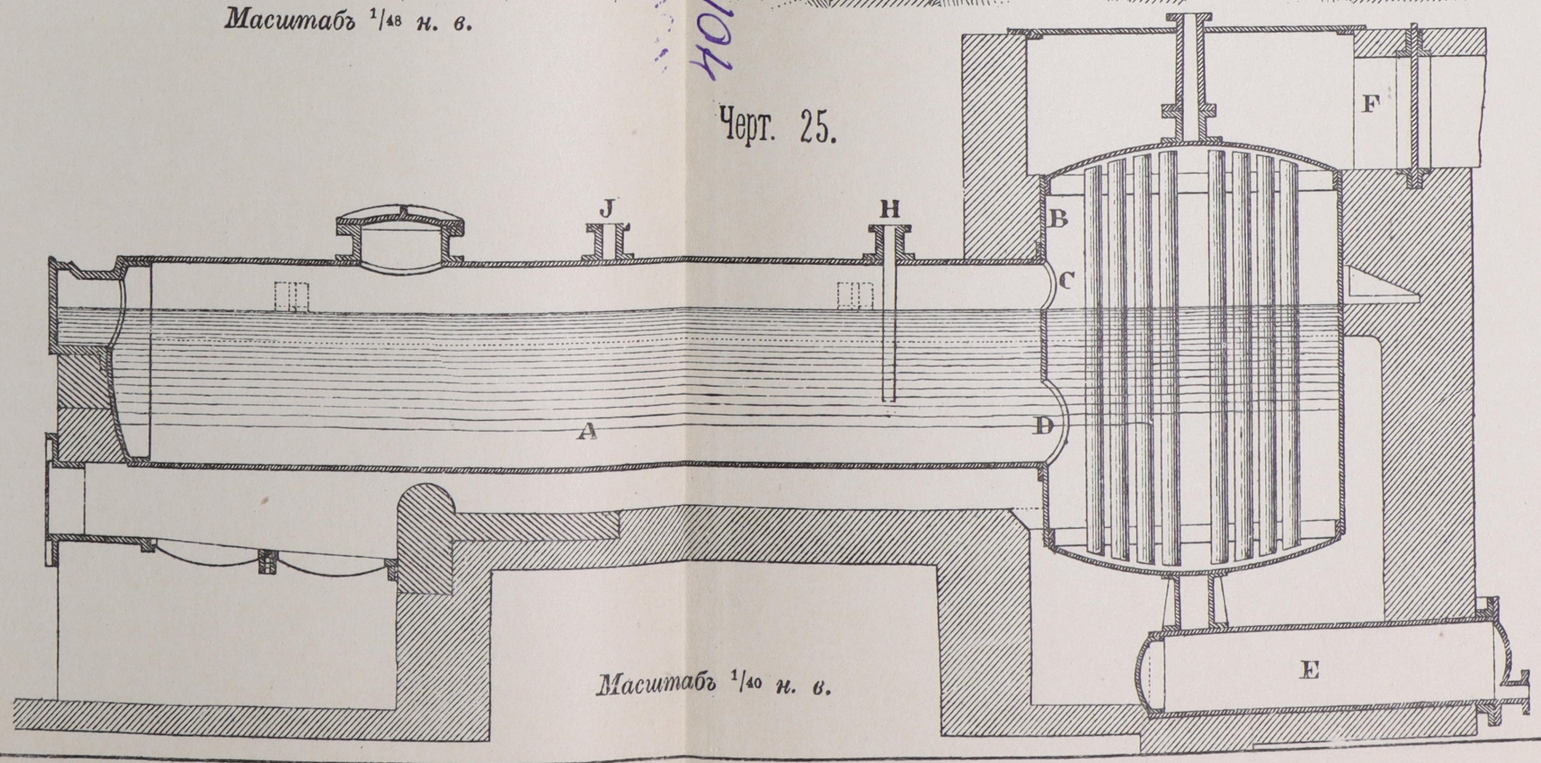


Масштабъ 1/48 н. в.

Черт. 24б.

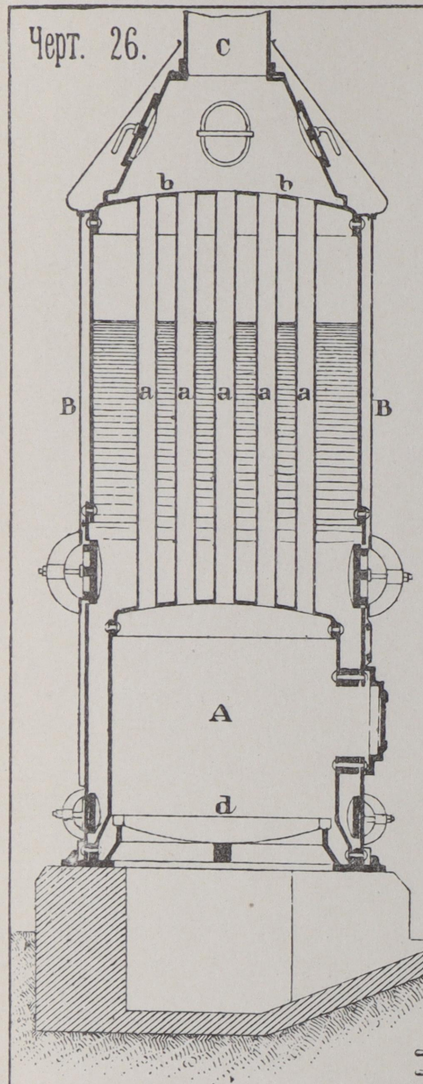


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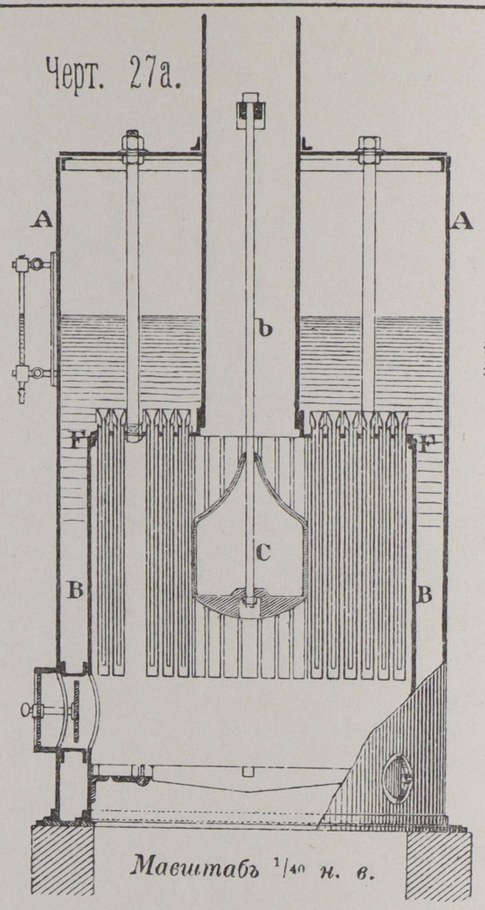


Масштабъ 1/40 н. в.

Черт. 26.

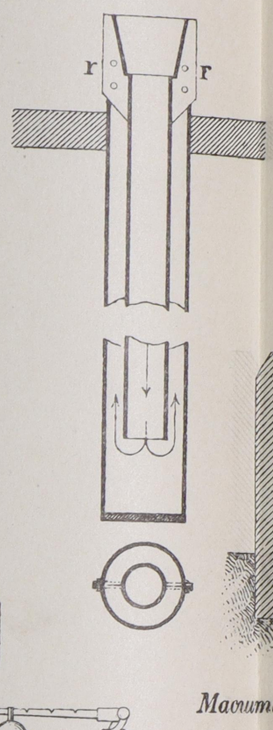


Черт. 27а.

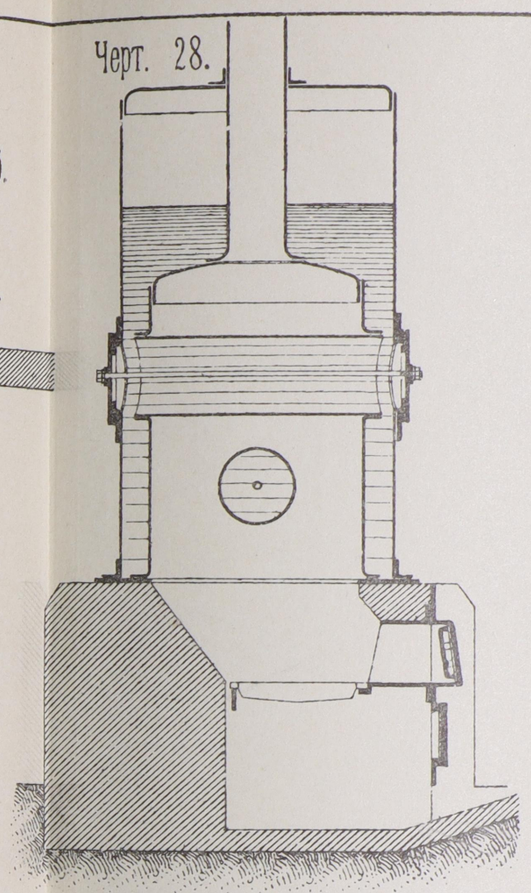


Масштабъ 1/40 н. в.

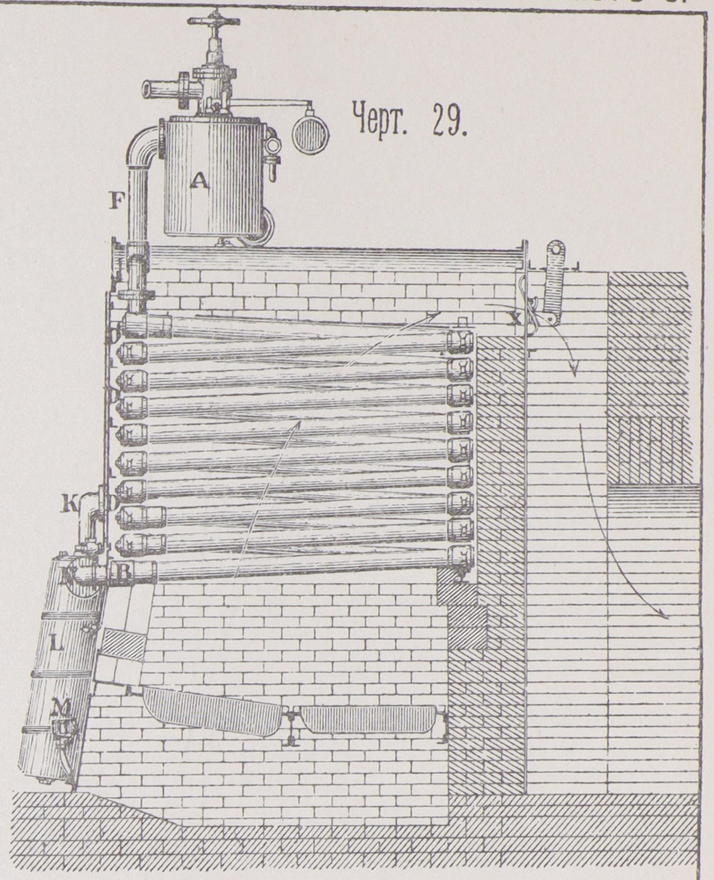
Черт. 27б.



Черт. 28.



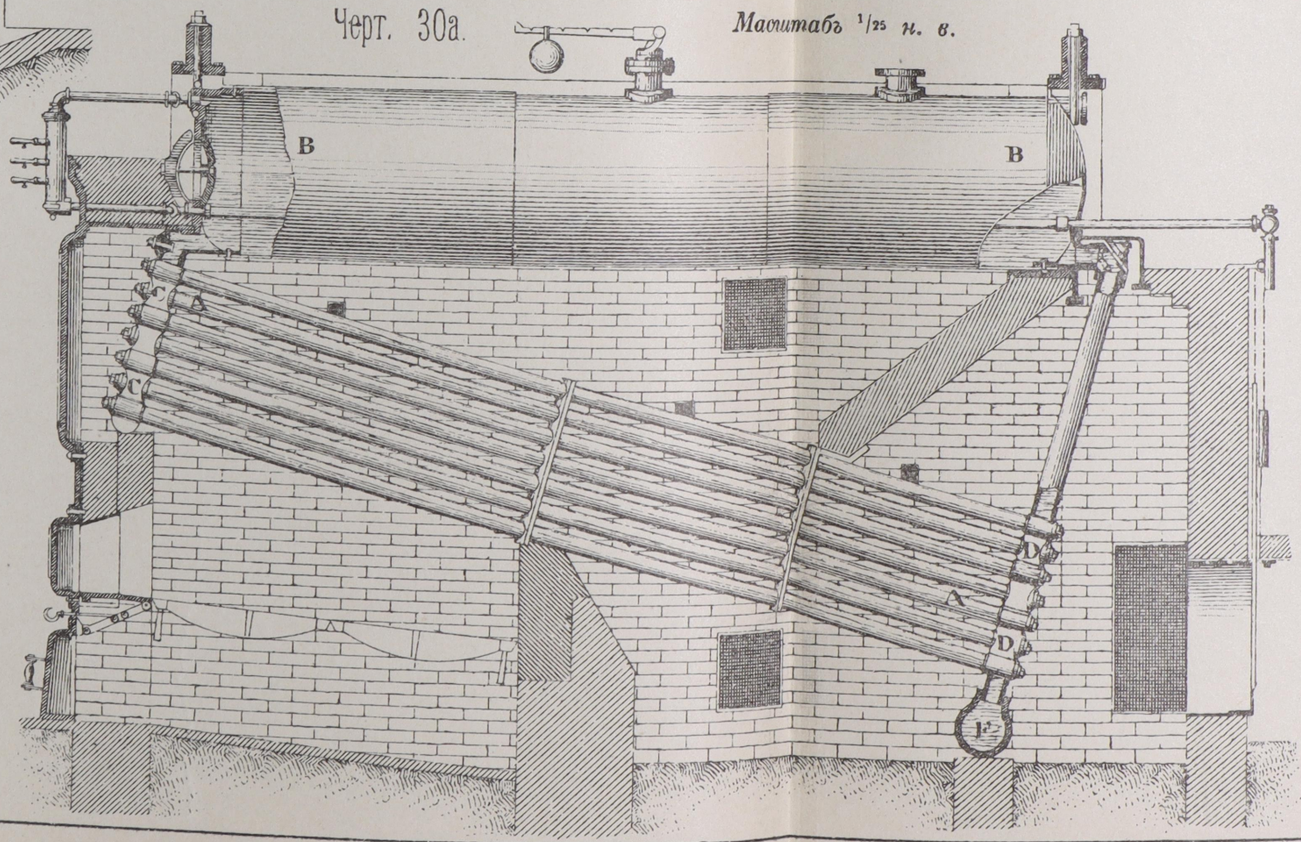
Черт. 29.



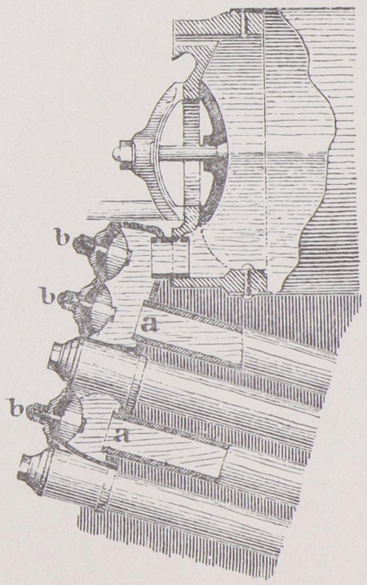
Масштабъ 1/40 н. в.

Черт. 30а.

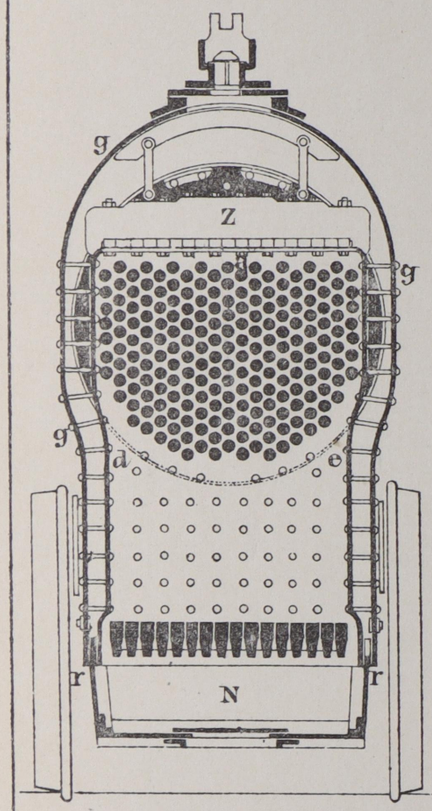
Масштабъ 1/25 н. в.



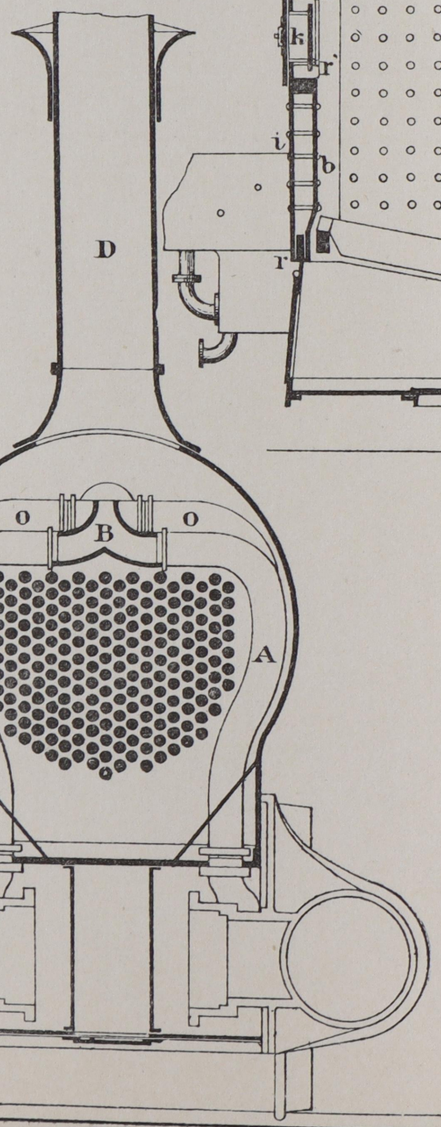
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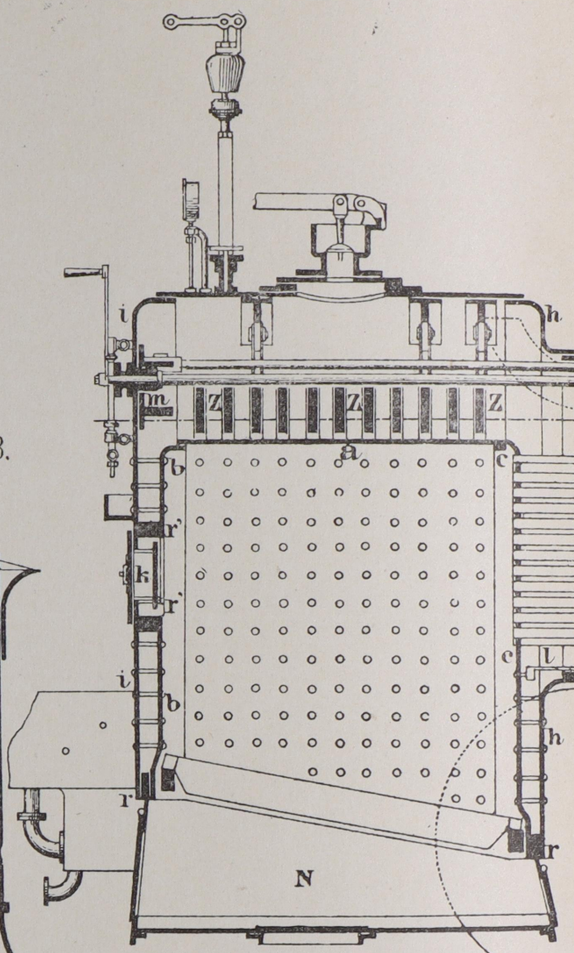


Черт. 31б.



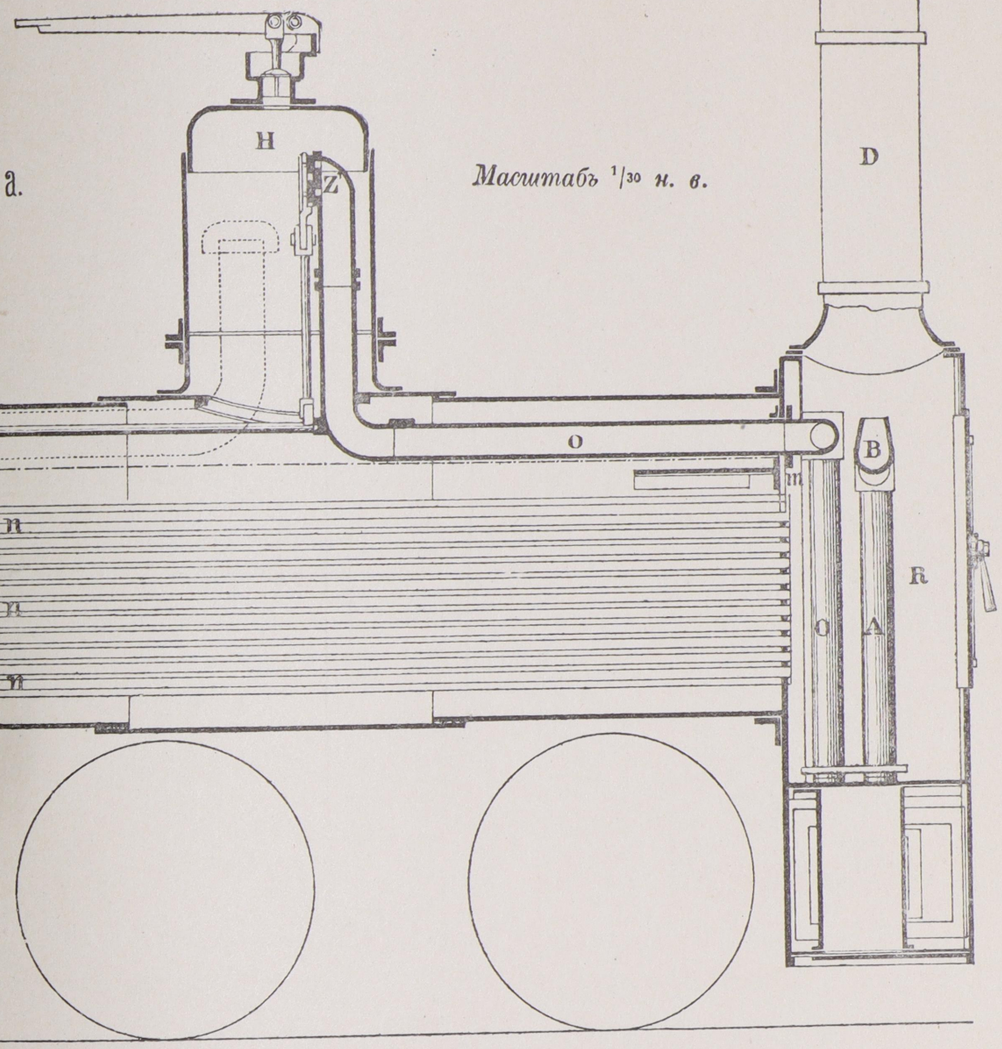
Черт. 31в.



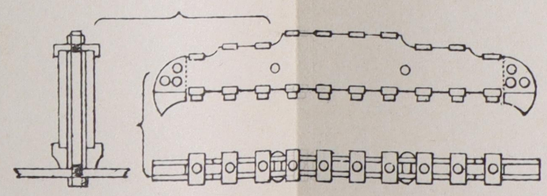


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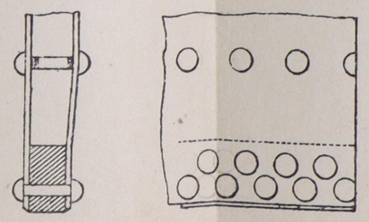
Масштабъ 1/30 н. в.



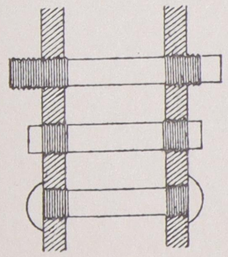
Черт. 32.



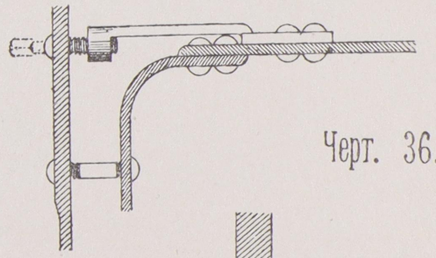
Черт. 33.



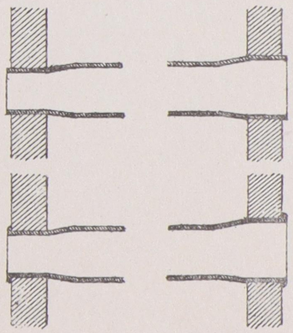
Черт. 34.



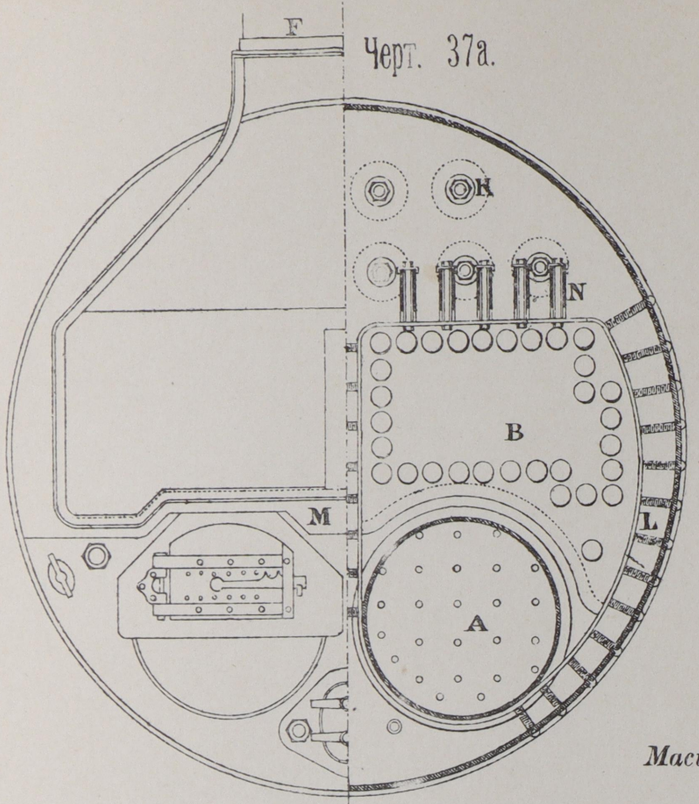
Черт. 35.



Черт. 36.

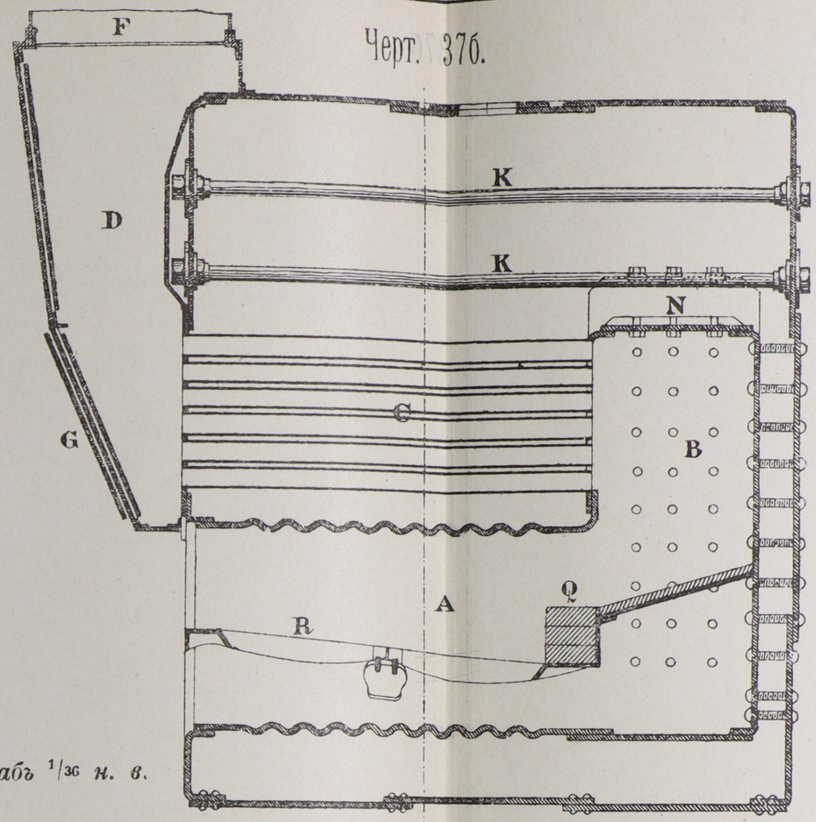


Черт. 37а.

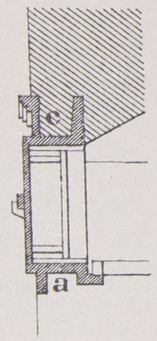


Масштабъ 1/36 н. в.

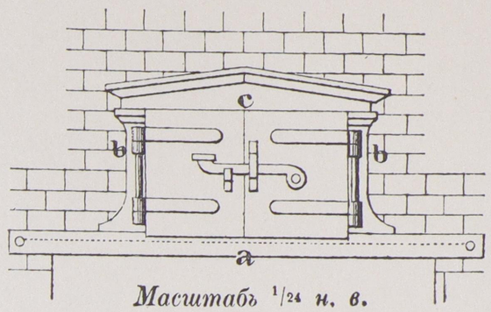
Черт. 37б.



Черт. 41а.

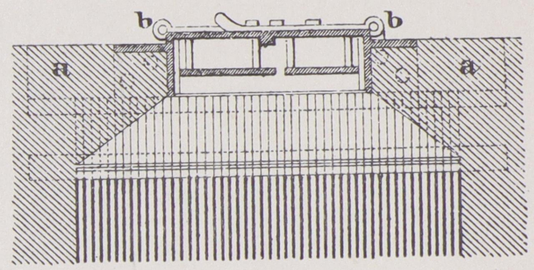


Черт. 41б.

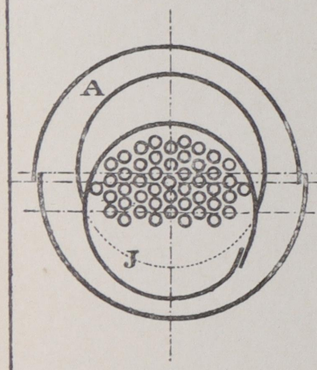


Масштабъ 1/24 н. в.

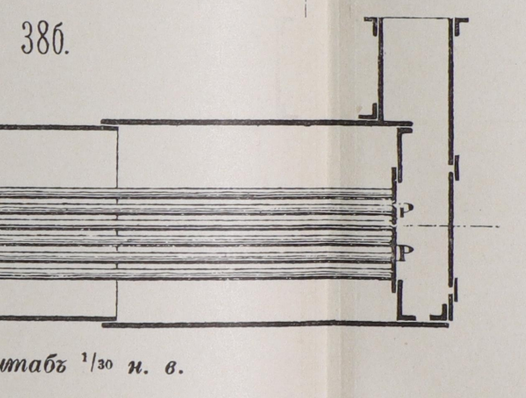
Черт. 41в.



Черт. 38а.

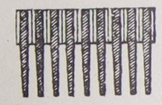


Черт. 38б.

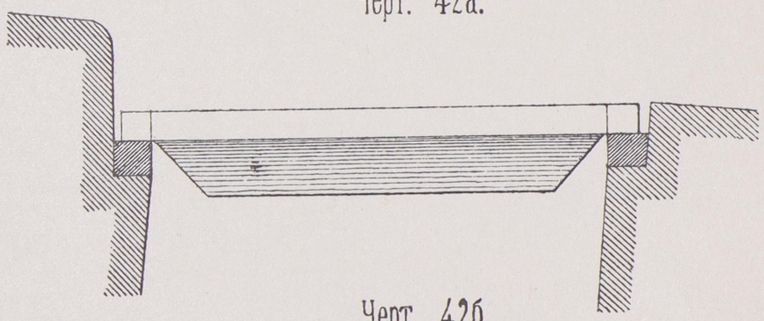


Масштабъ 1/30 н. в.

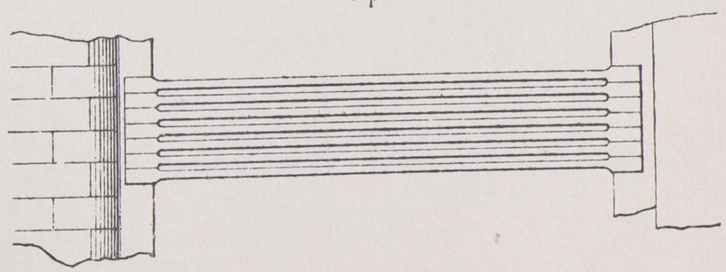
Черт. 42в.



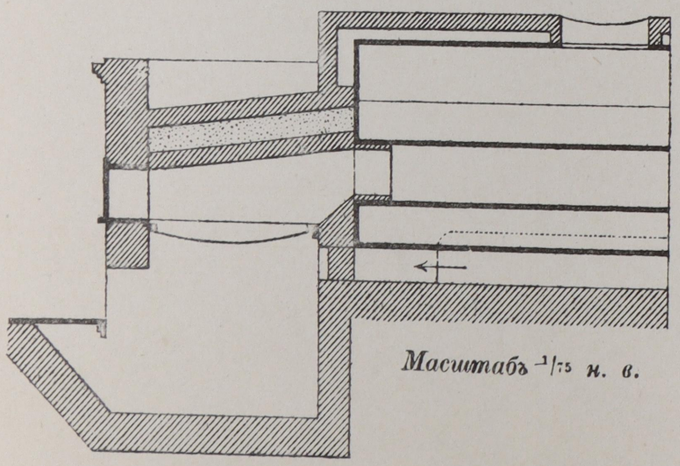
Черт. 42а.



Черт. 42б.

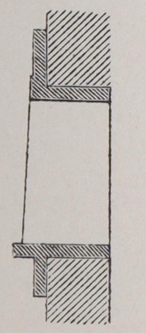


Черт. 39.

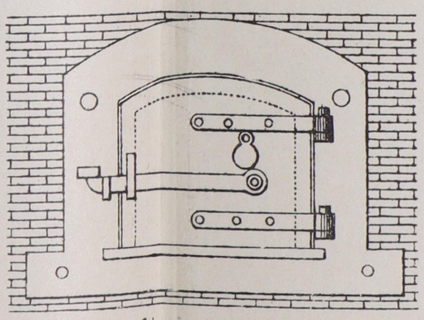


Масштабъ 1/75 н. в.

Черт. 40а.



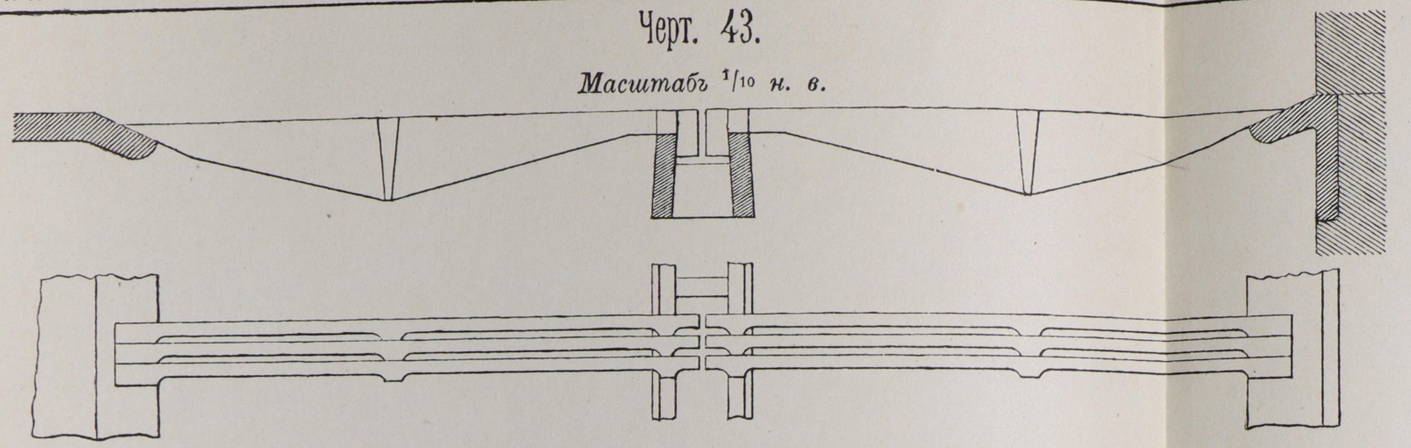
Черт. 40б.



Масштабъ 1/15 н. в.

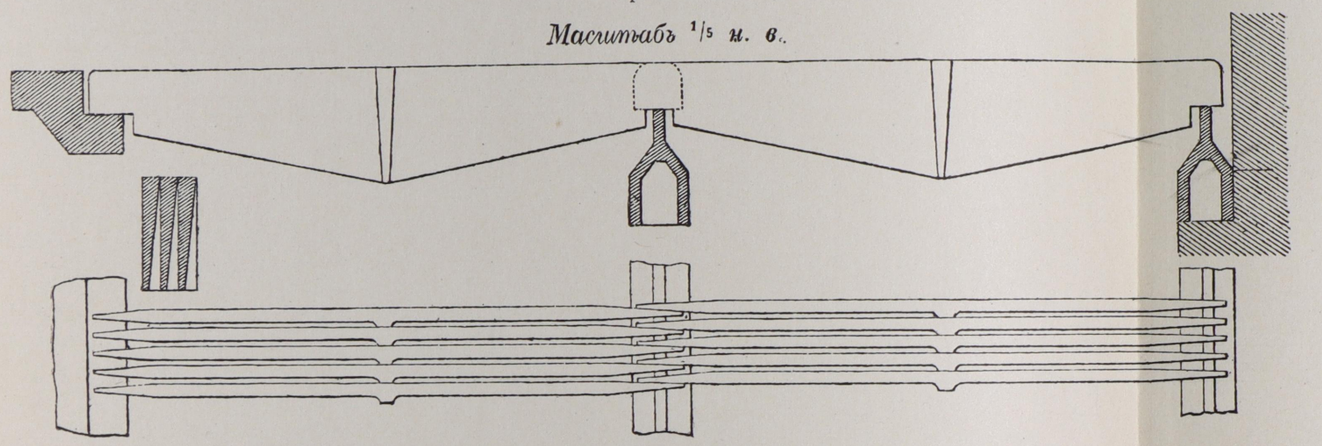
Черт. 43.

Масштабъ 1/10 н. в.

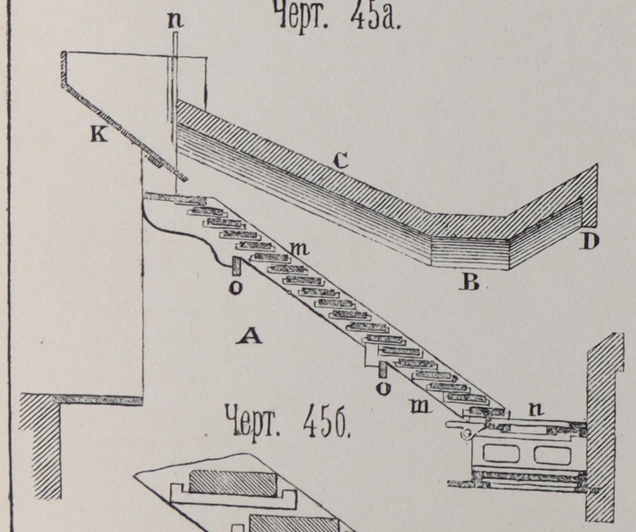


Черт. 44.

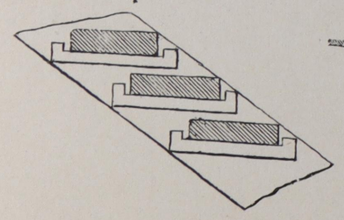
Масштабъ 1/5 н. в.



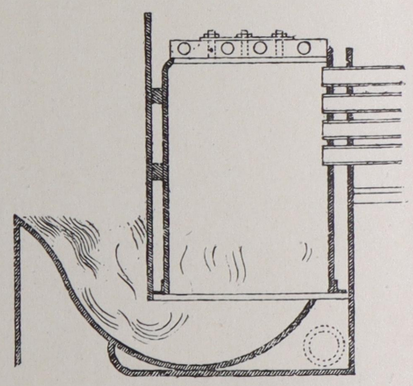
Черт. 45а.



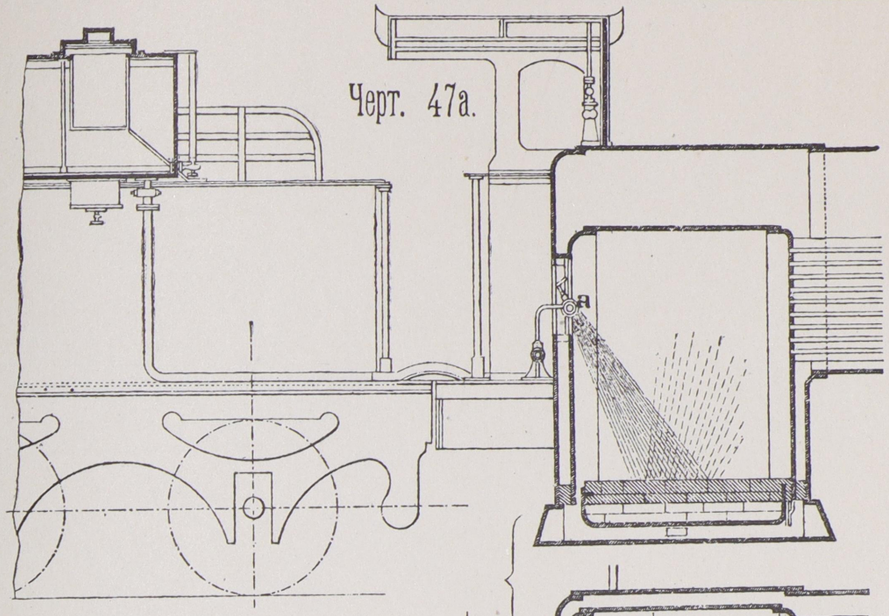
Черт. 45б.



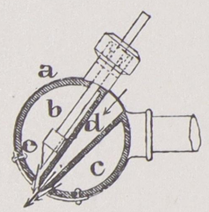
Черт. 46.



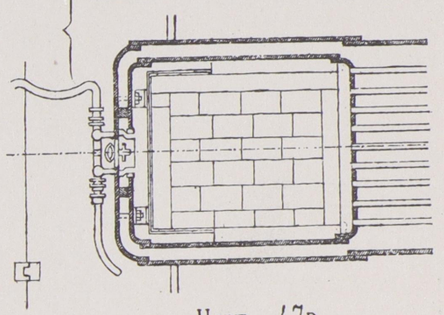
Черт. 47а.



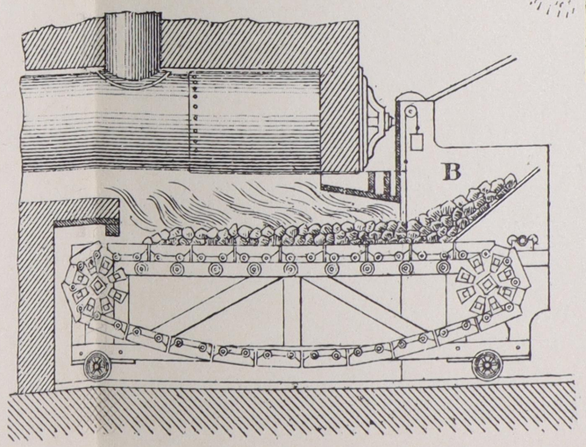
Черт. 47б.

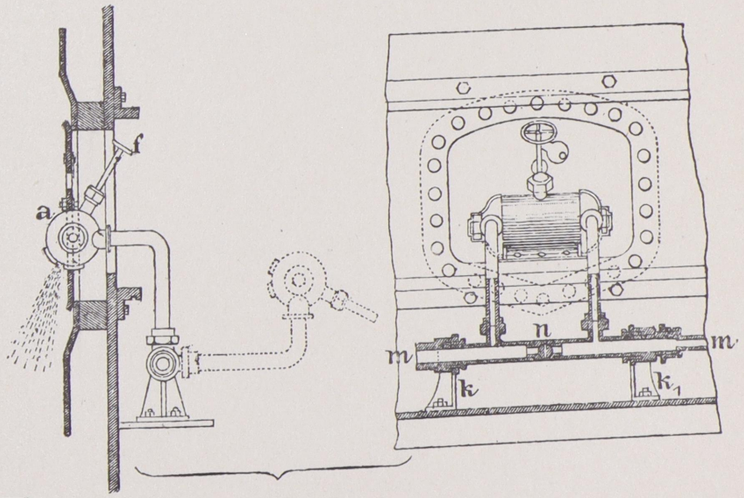


Черт. 47в.

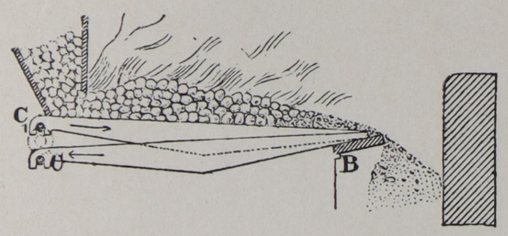


Черт. 48.

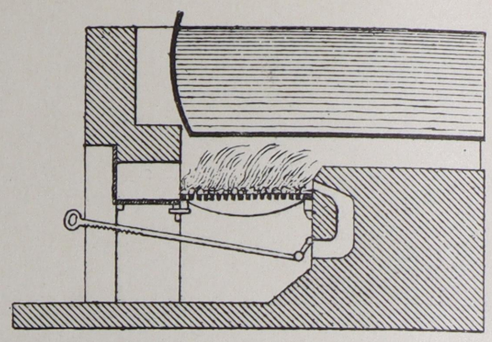




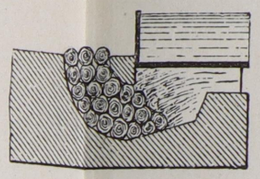
Черт. 49.



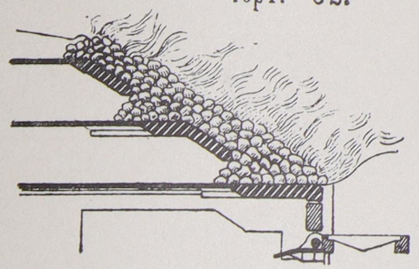
Черт. 50.



Черт. 51

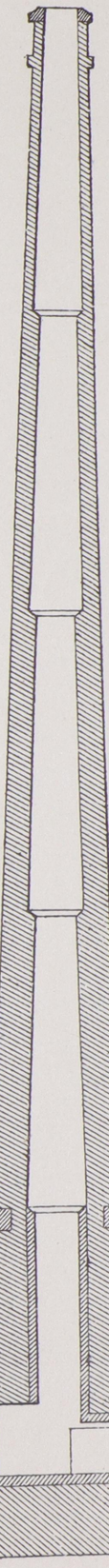


Черт. 52.



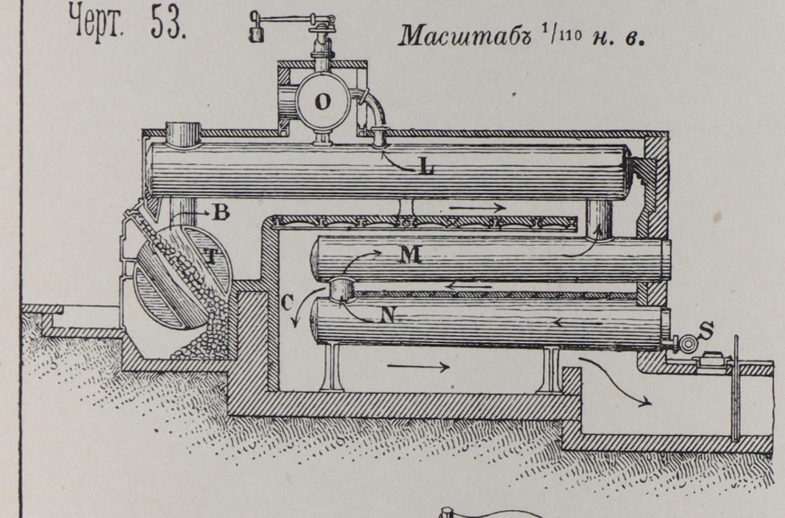
Черт. 61.

Масштабъ 1/100 *н. в.*



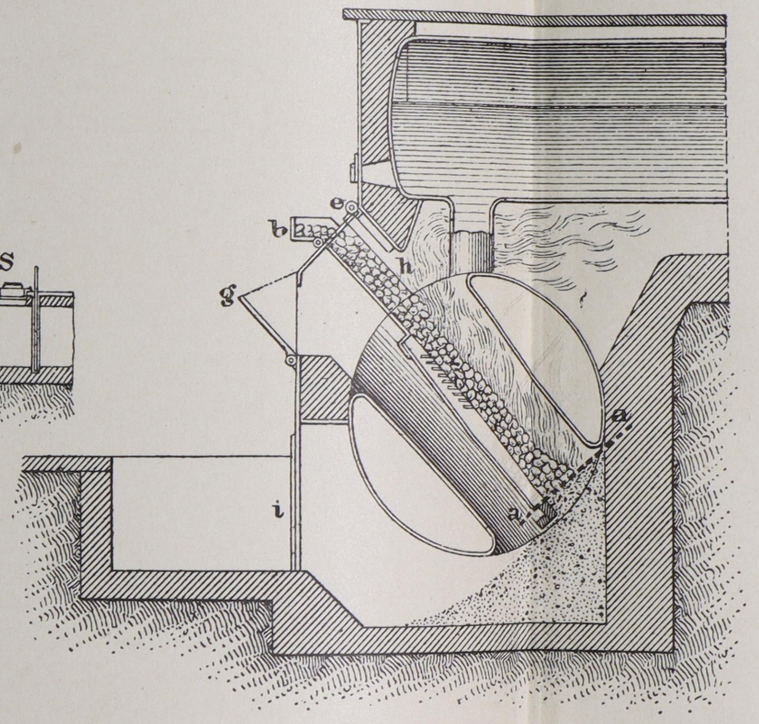
Черт. 53.

Масштабъ 1/110 *н. в.*

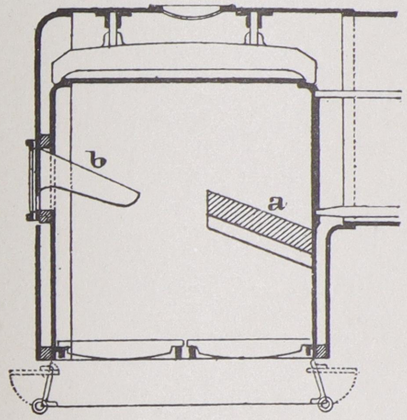


Черт. 54.

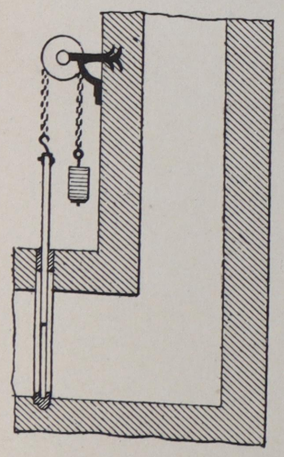
Масштабъ 1/65 *н. в.*



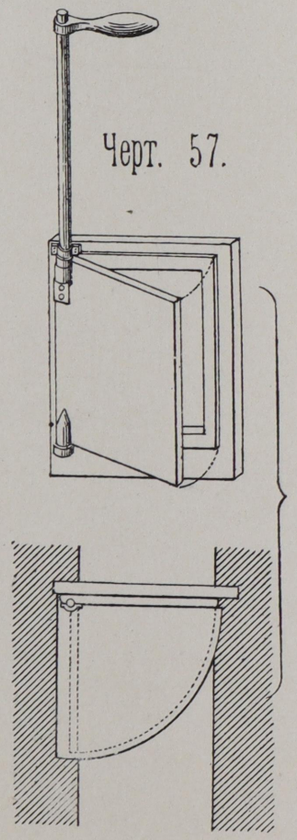
Черт. 55.



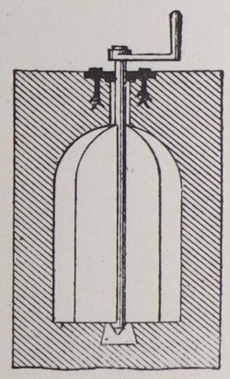
Черт. 56.



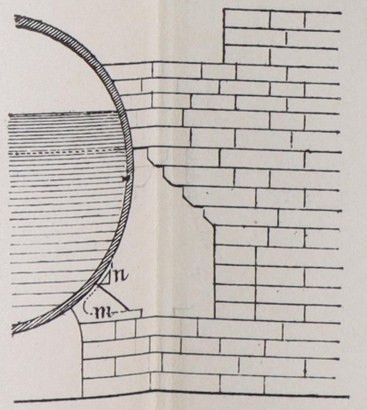
Черт. 57.



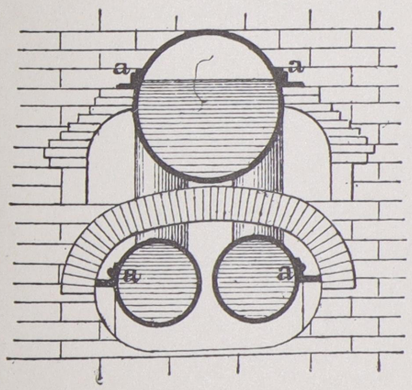
Черт. 58.



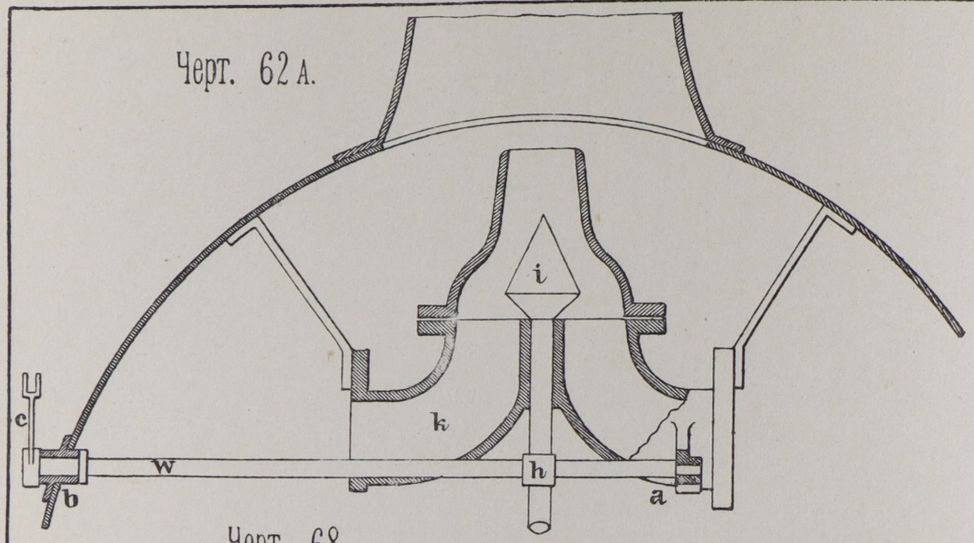
Черт. 59.



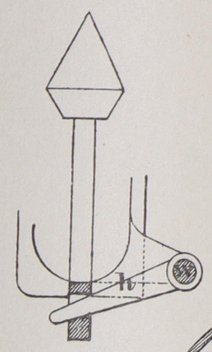
Черт. 60.



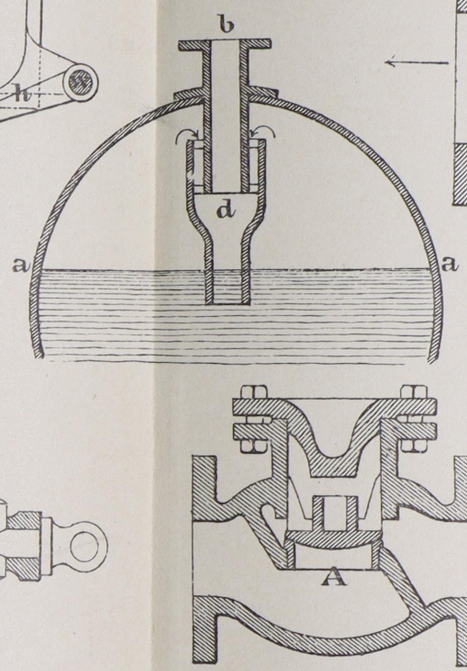
Черт. 62 A.



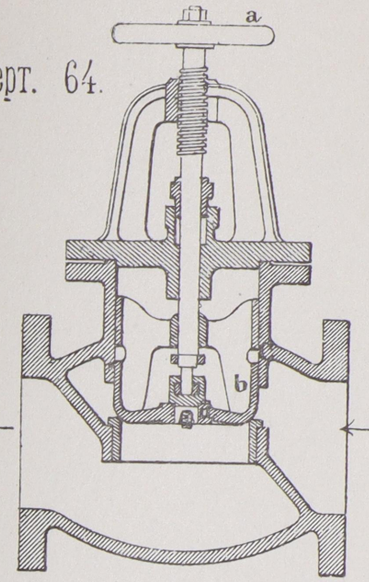
Черт. 62 B.



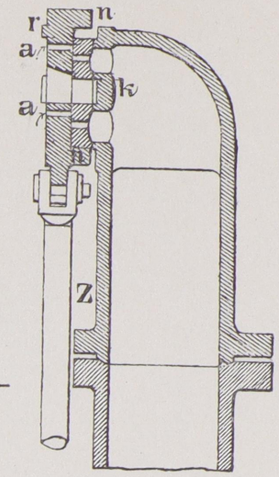
Черт. 63.



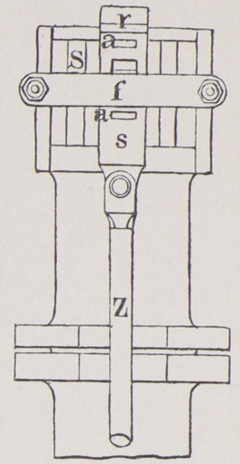
Черт. 64.



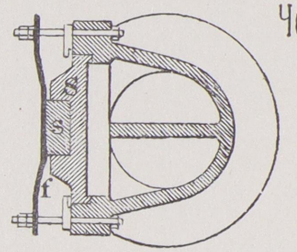
Черт. 65 A



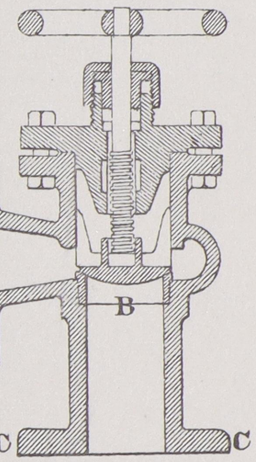
Черт. 65 B



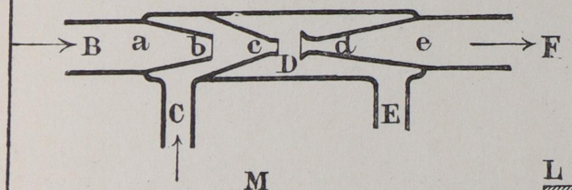
Черт. 65 C.



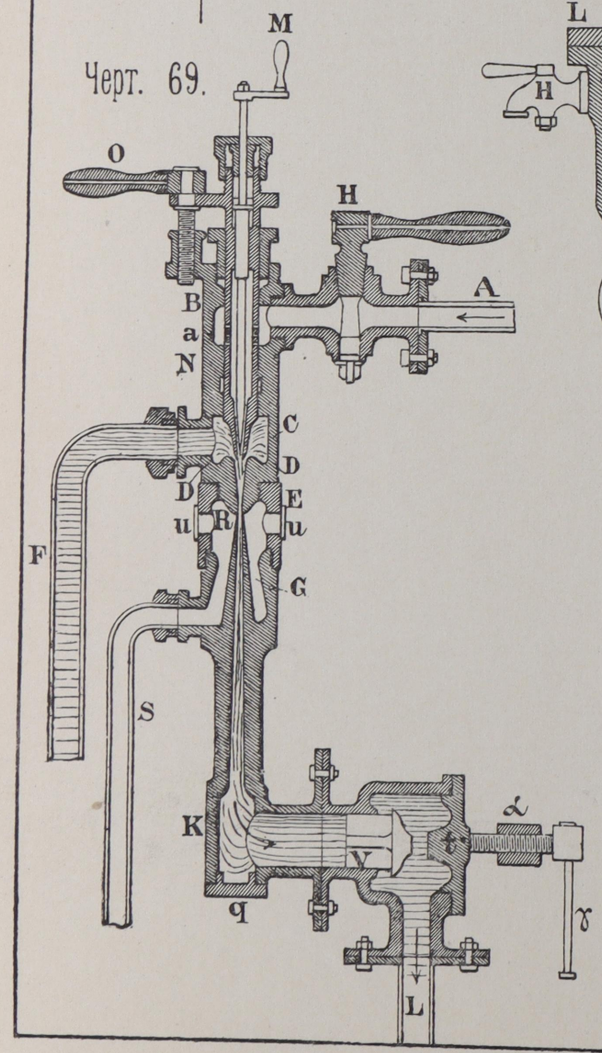
Черт. 67.



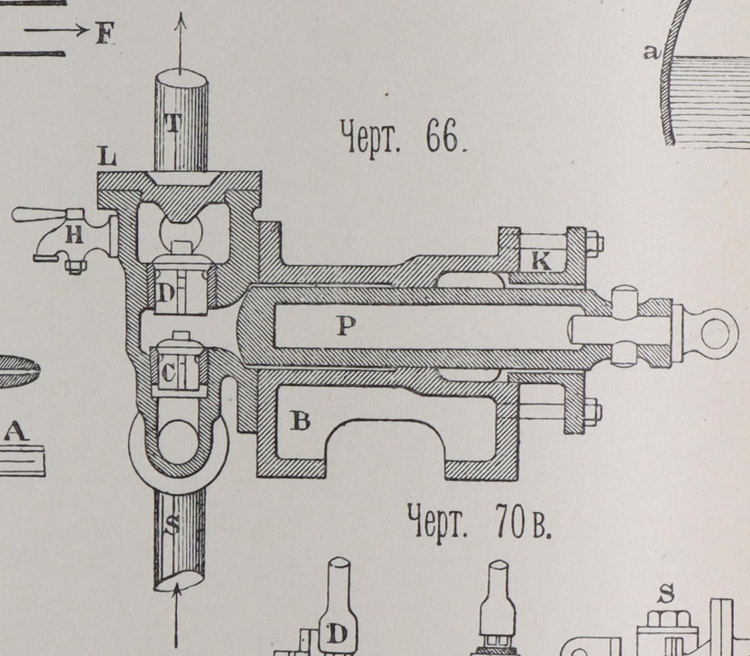
Черт. 68.



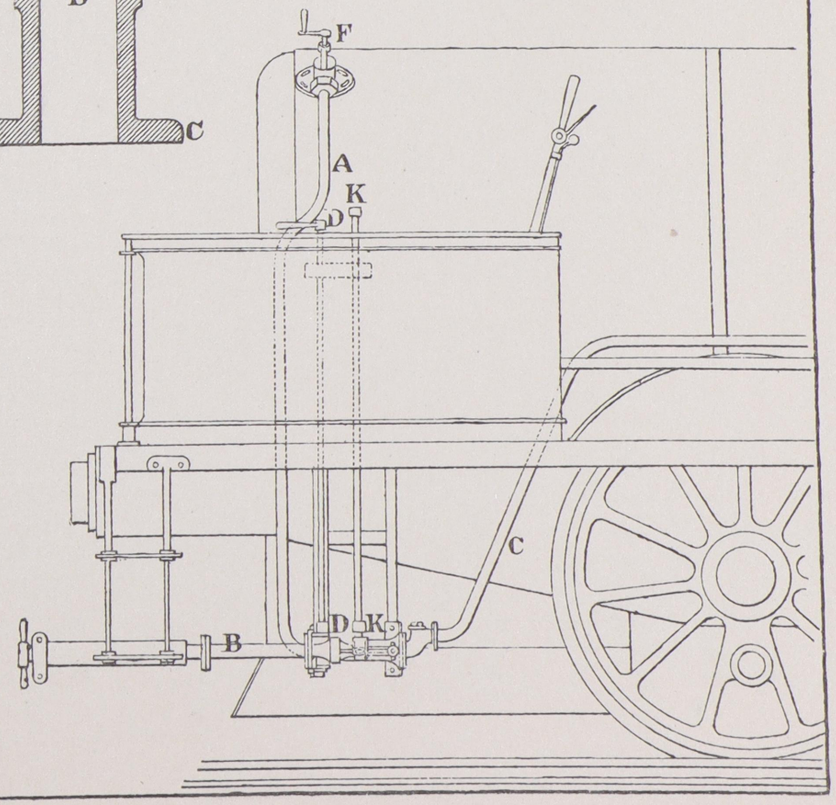
Черт. 69.



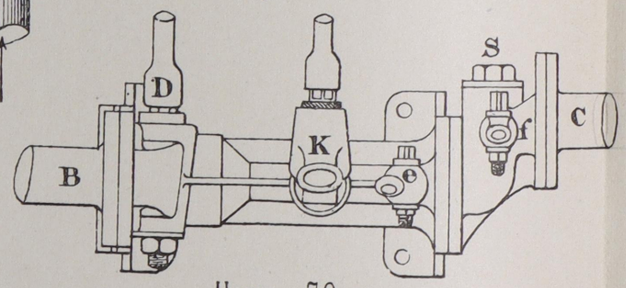
Черт. 66.



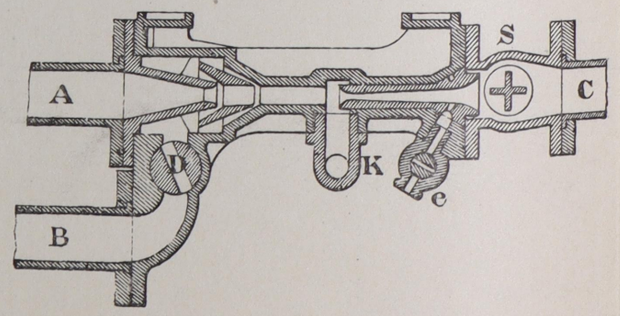
Черт. 70 A.



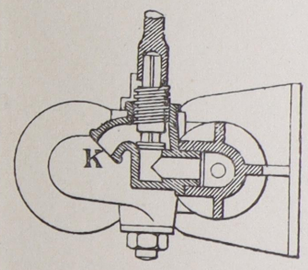
Черт. 70 B.



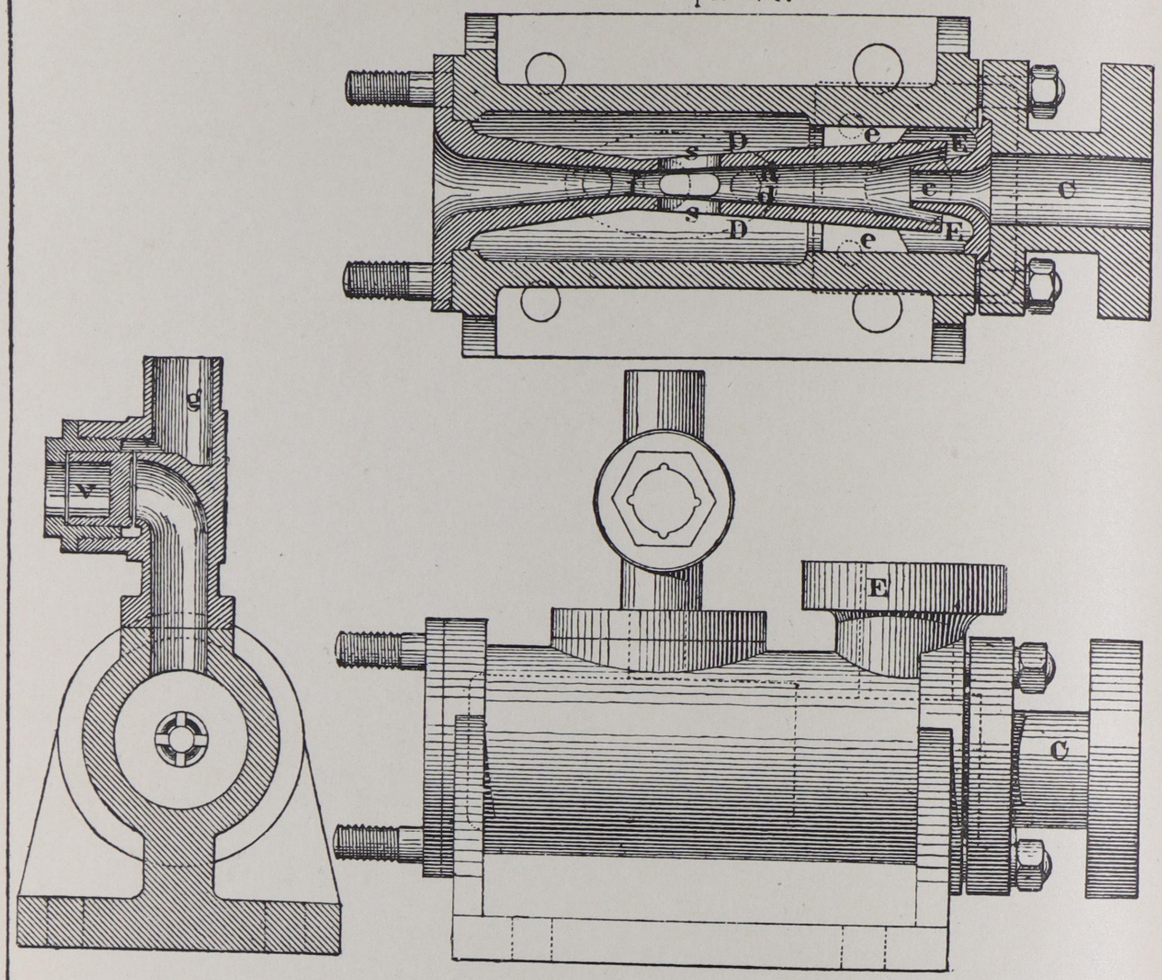
Черт. 70 C.



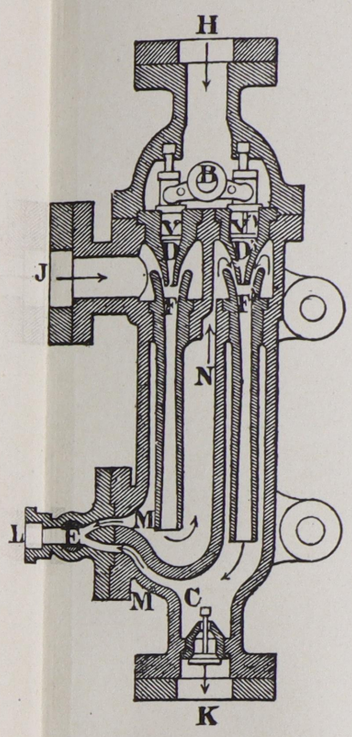
Черт. 70 D



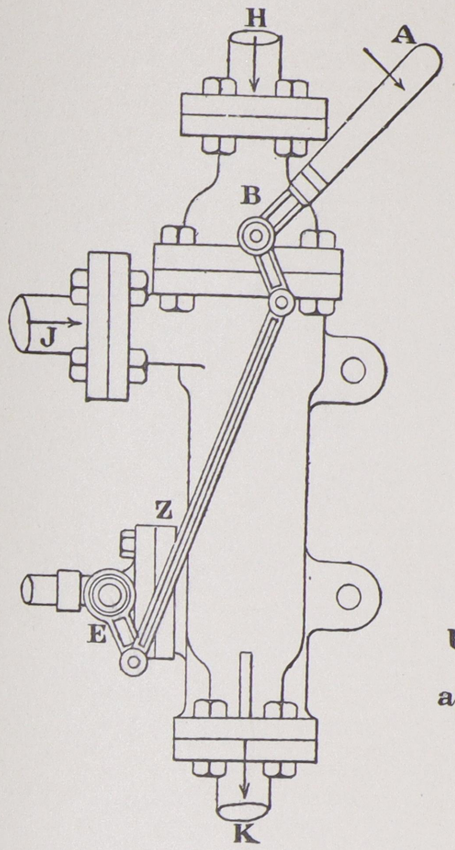
Черт. 71.



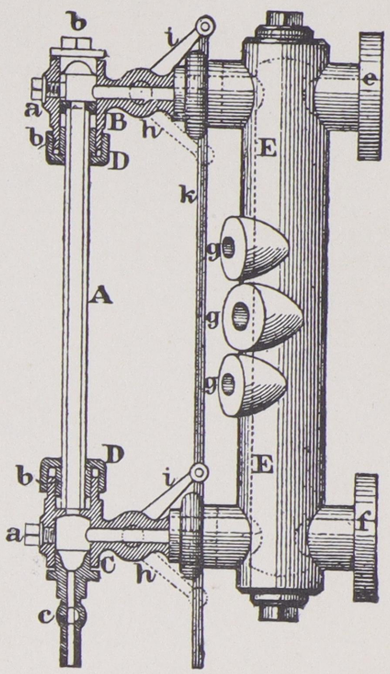
Черт. 72 a.



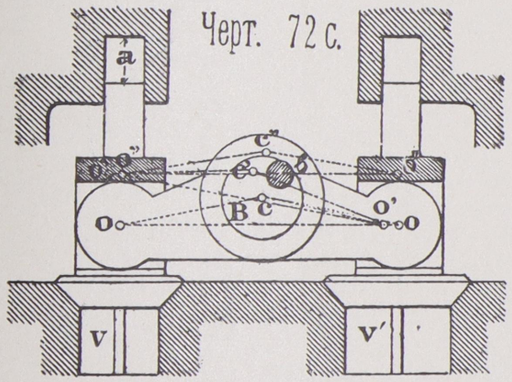
Черт. 72 b.



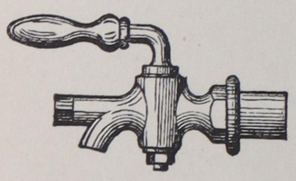
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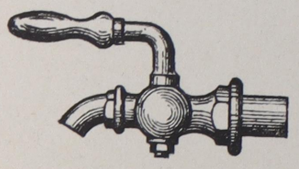
Черт. 72 c.



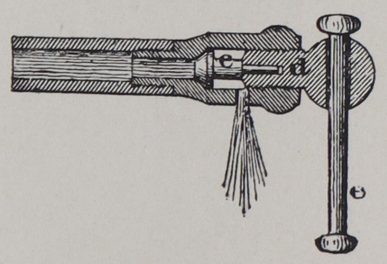
Черт. 74.



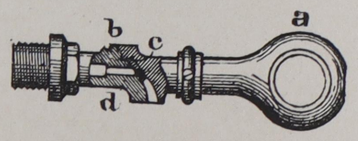
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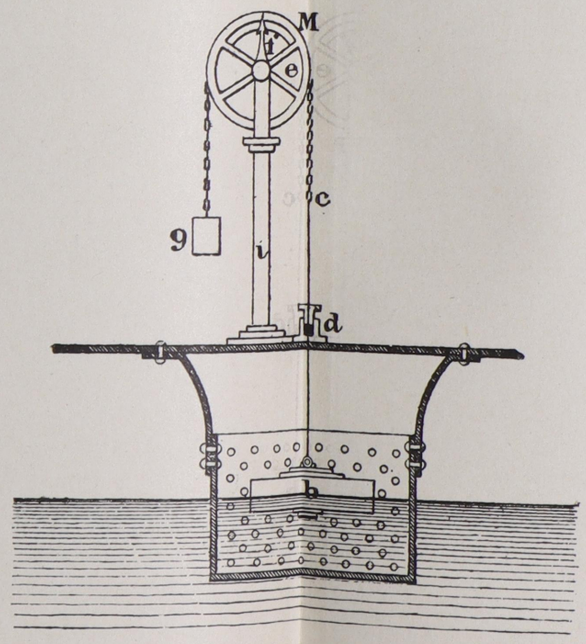
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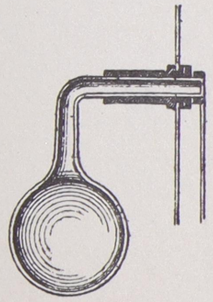
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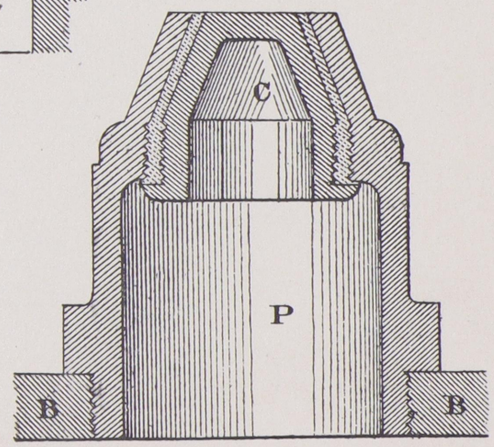
Черт. 78.



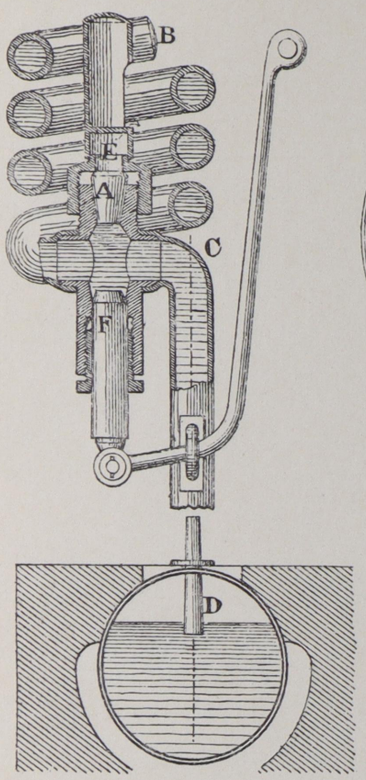
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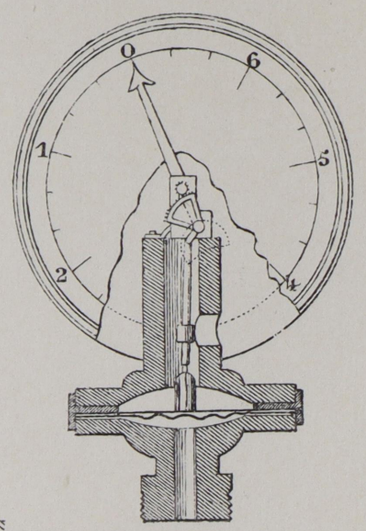
Черт. 80.



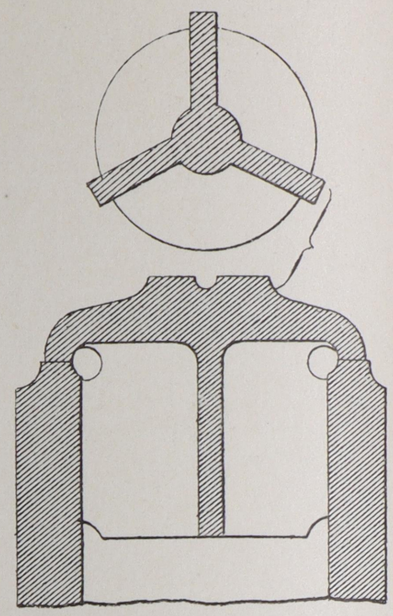
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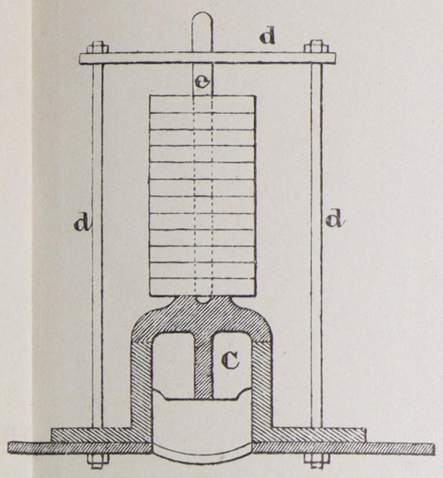
Черт. 82.



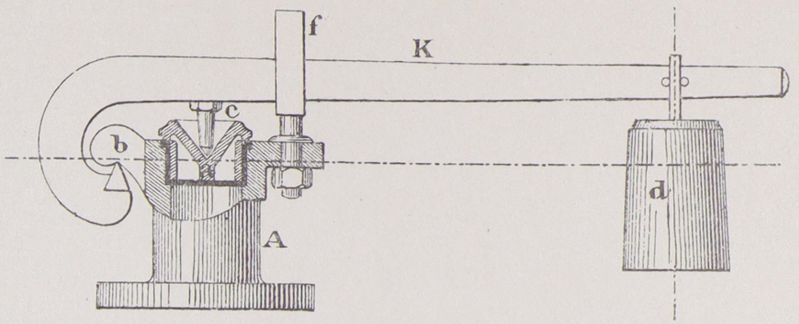
Черт. 83.



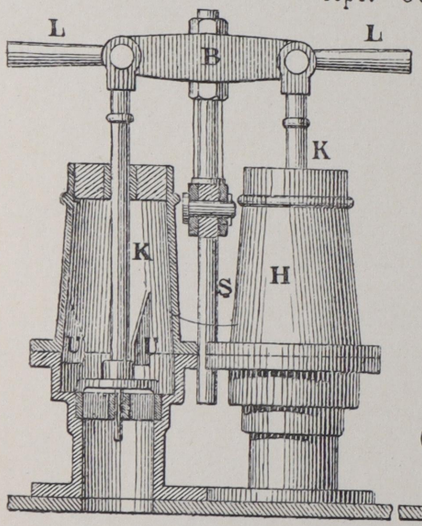
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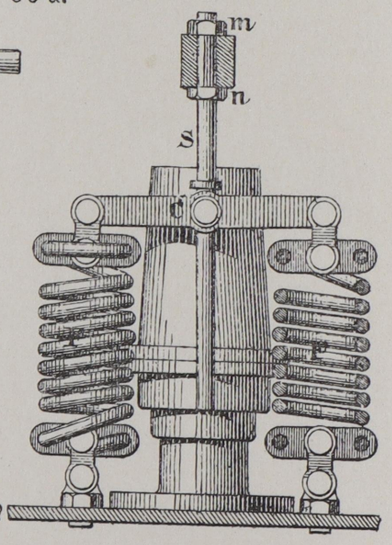
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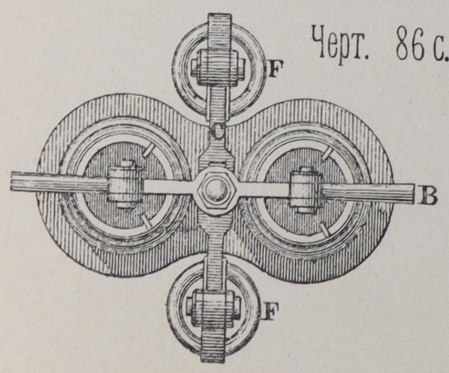
Черт. 86 a.



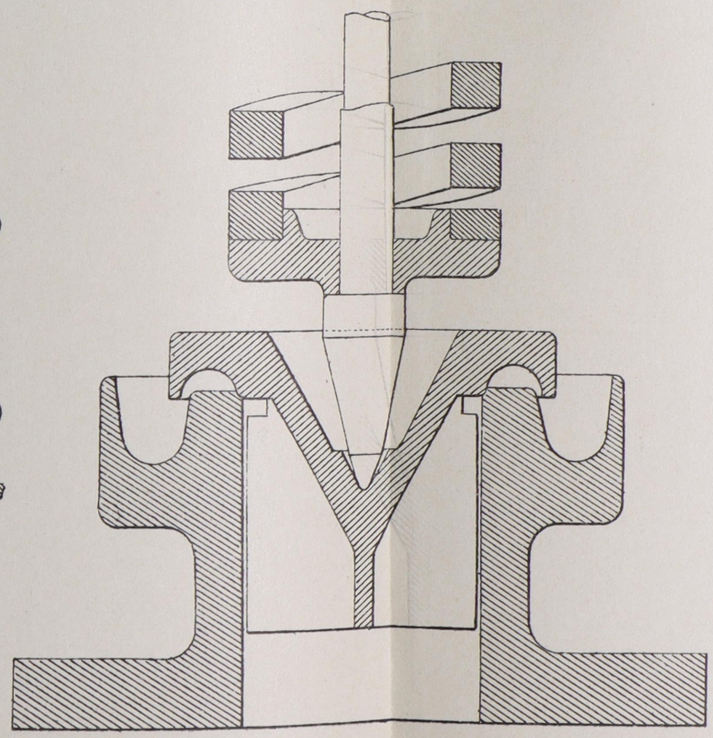
Черт. 86 b.



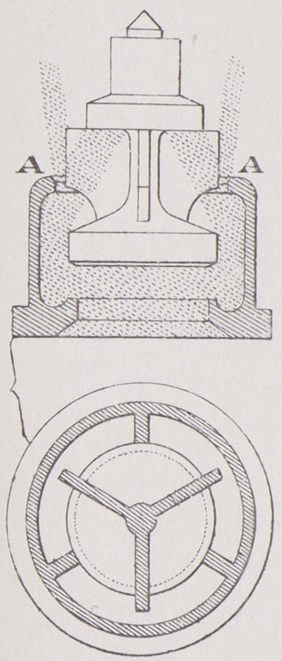
Черт. 86 c.



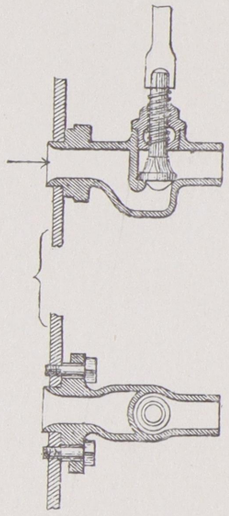
Черт. 87.



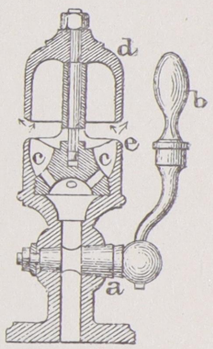
Черт. 88.



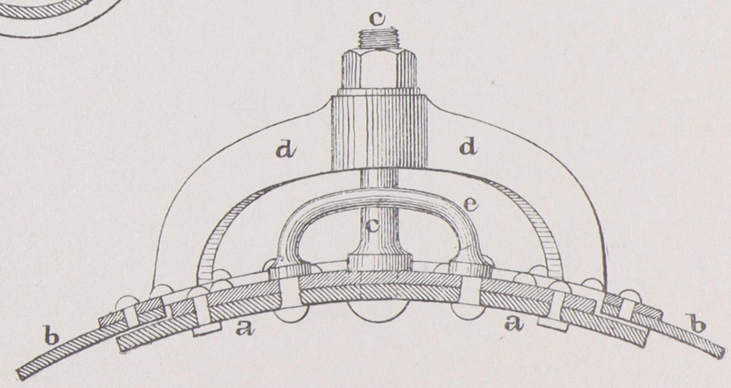
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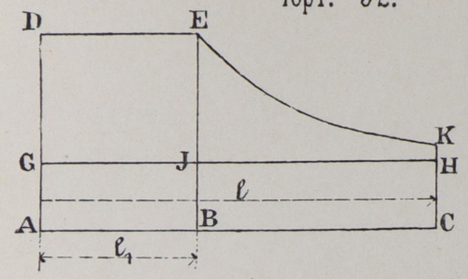
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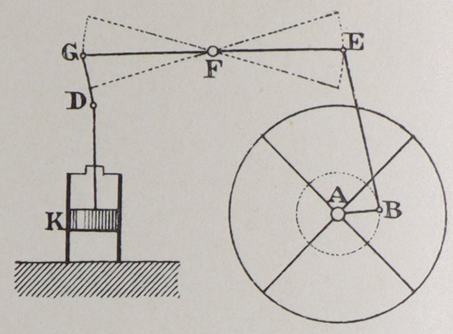
Черт. 90.



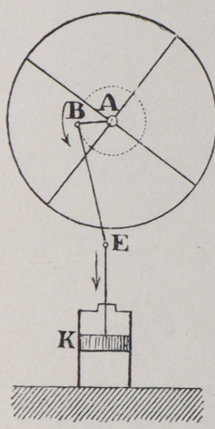
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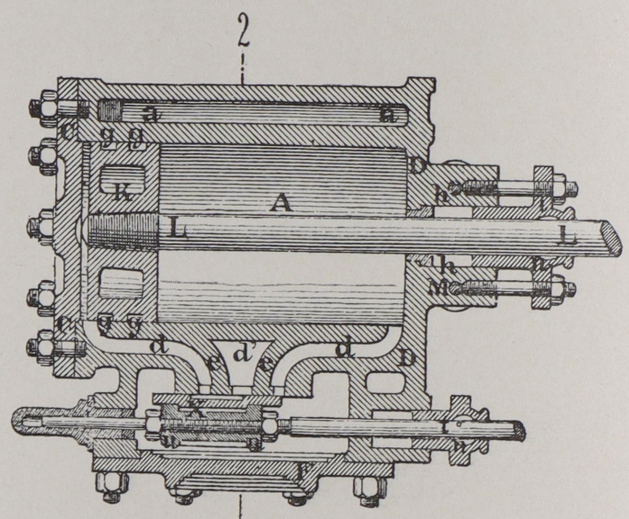
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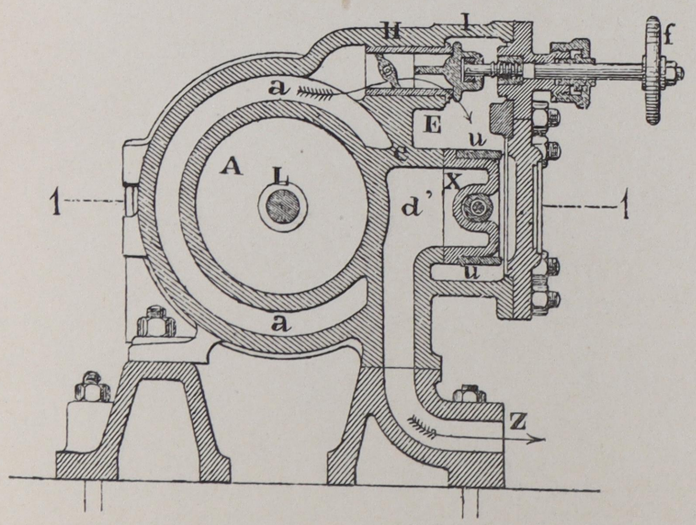
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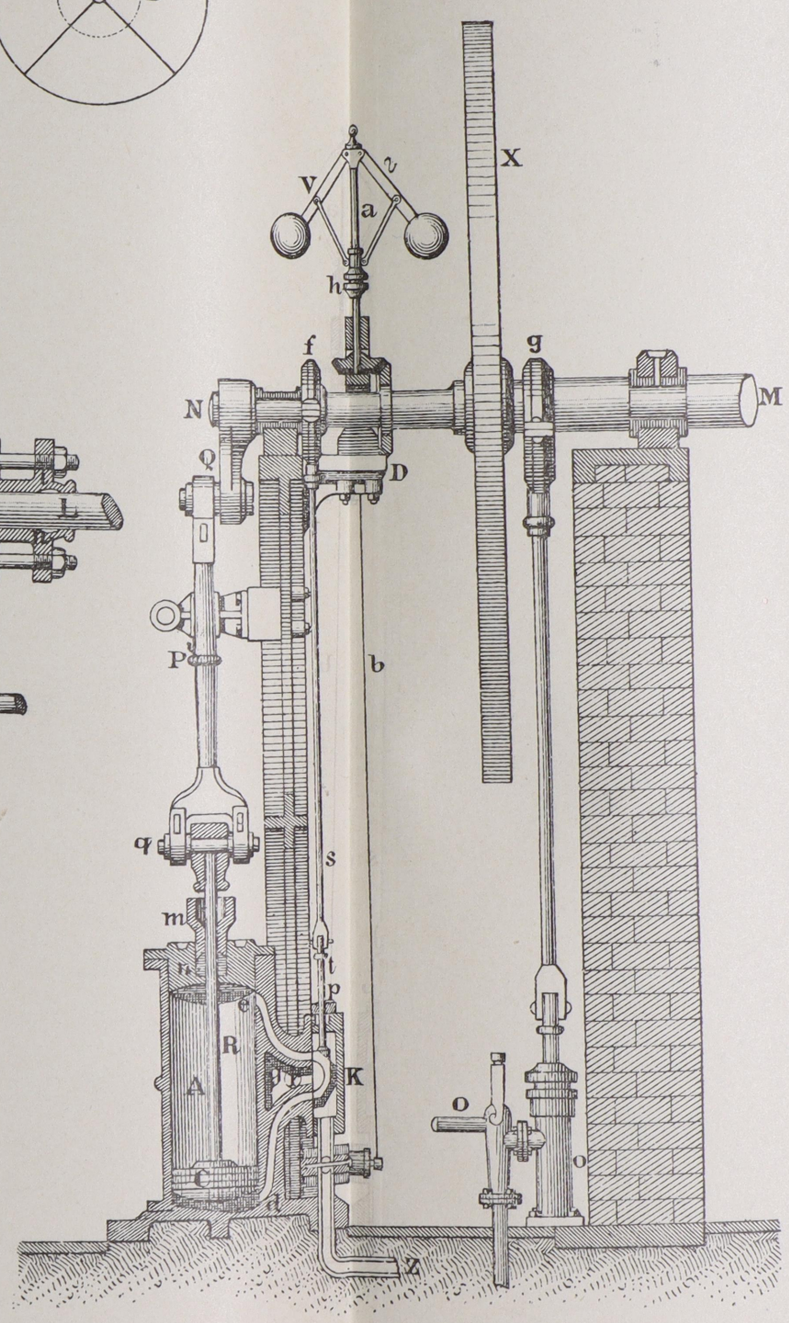
Черт. 96 А.
Разрѣзъ по 1-1.



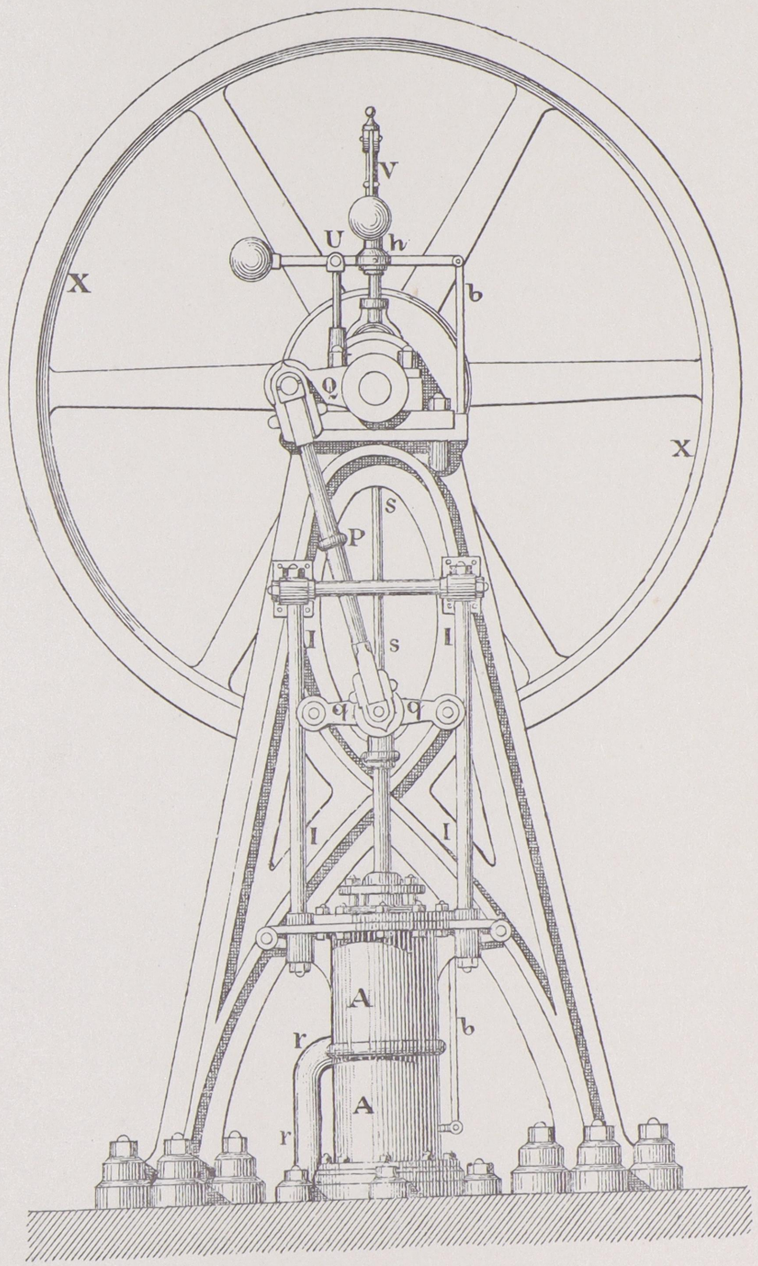
Черт. 96 В
Разрѣзъ по 2-2.



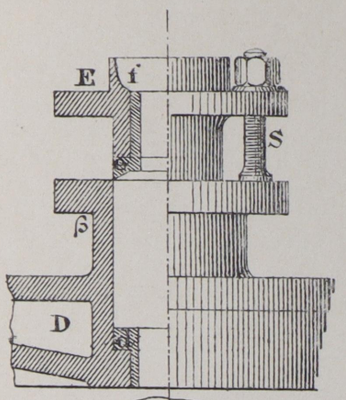
Черт. 95 А.



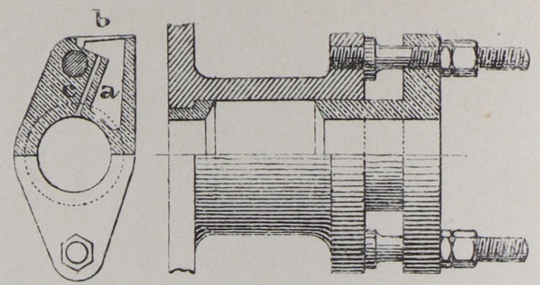
Черт. 95 В



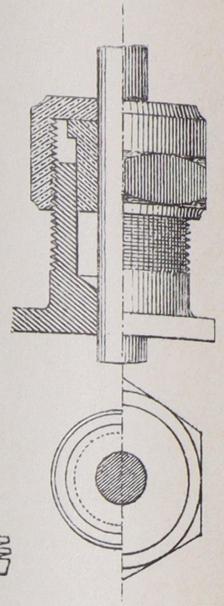
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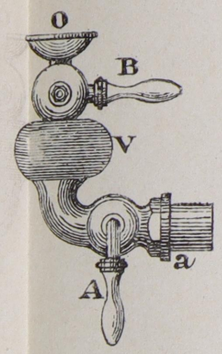
Черт 98.



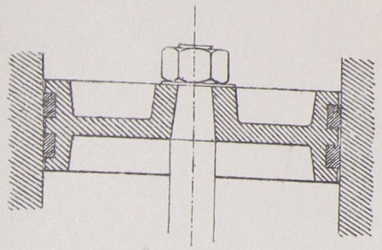
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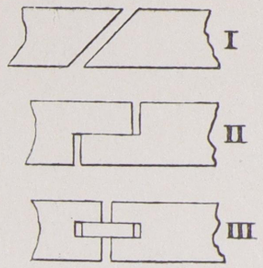
Черт. 100.



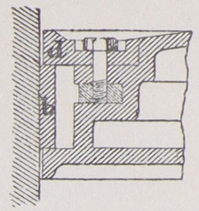
Черт. 101.



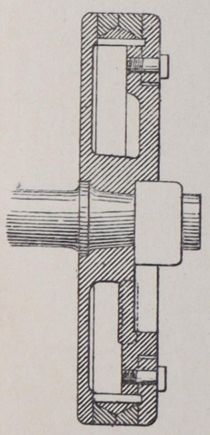
Черт. 102.



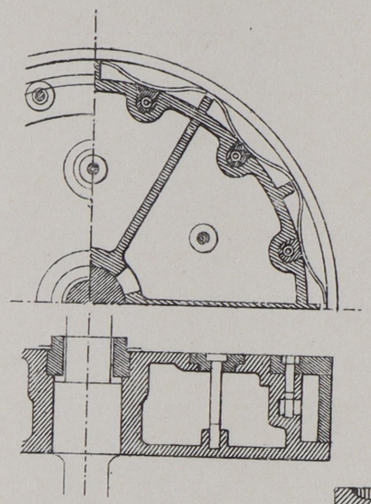
Черт. 103.



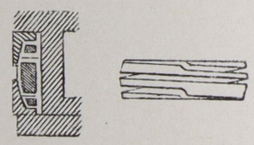
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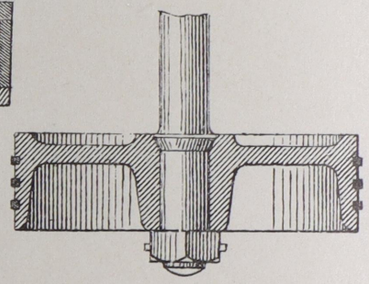
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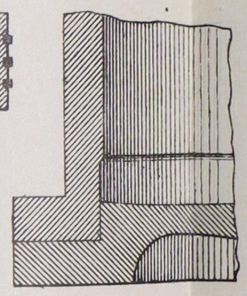
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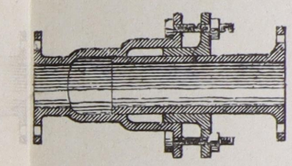
Черт. 107.



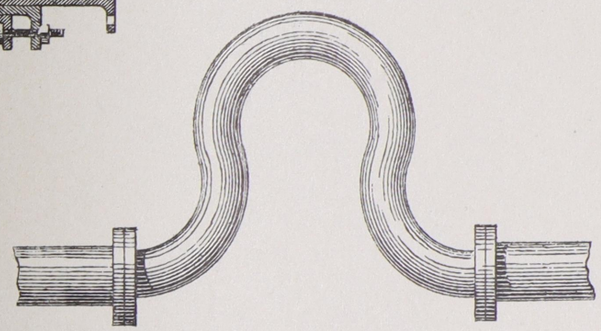
Черт. 108



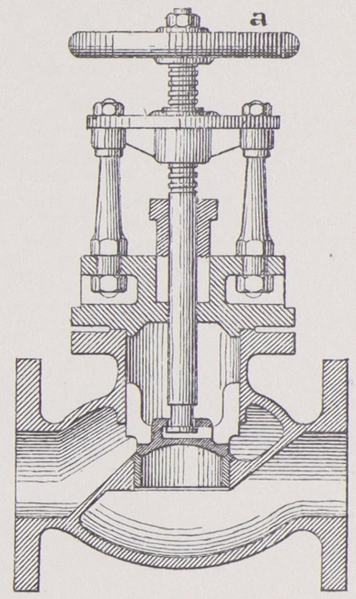
Черт. 109.



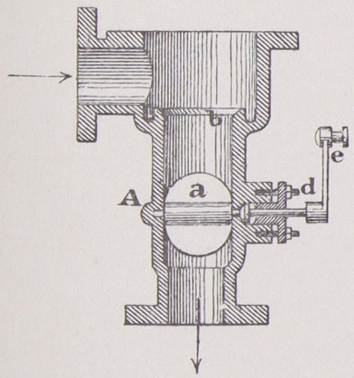
Черт. 110.



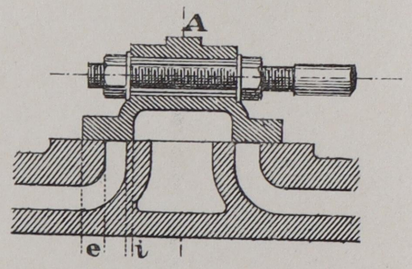
Черт. 111.



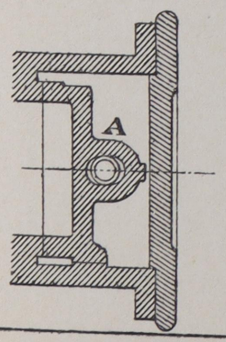
Черт. 112.



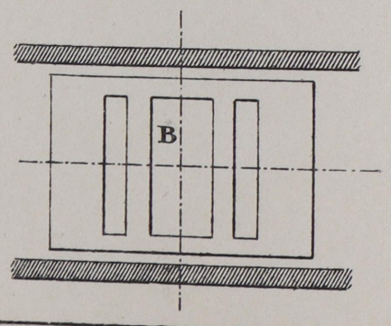
Черт 113 A.



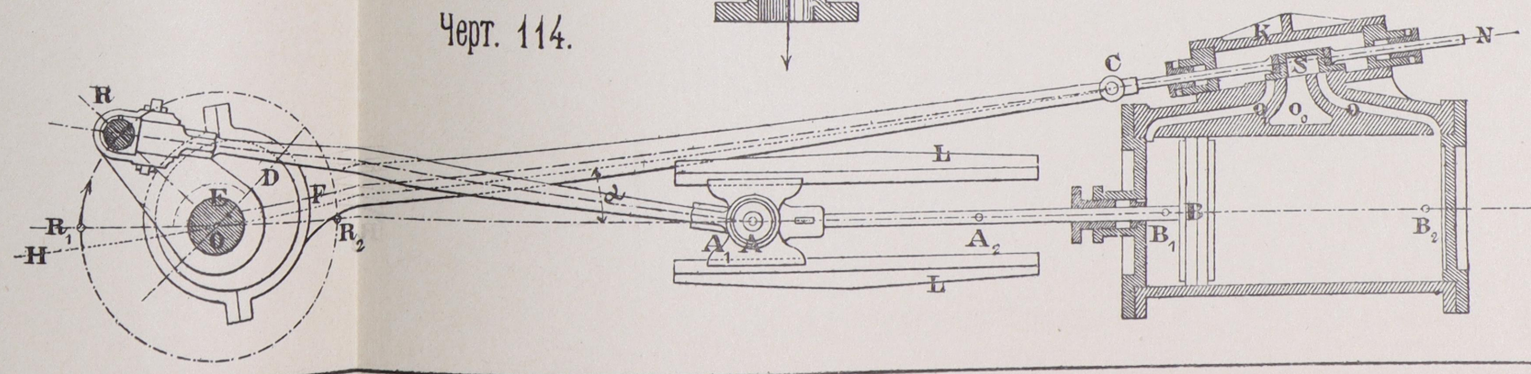
Черт. 113 C.



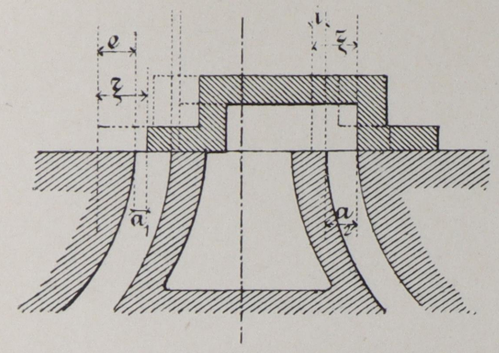
Черт. 113 B.



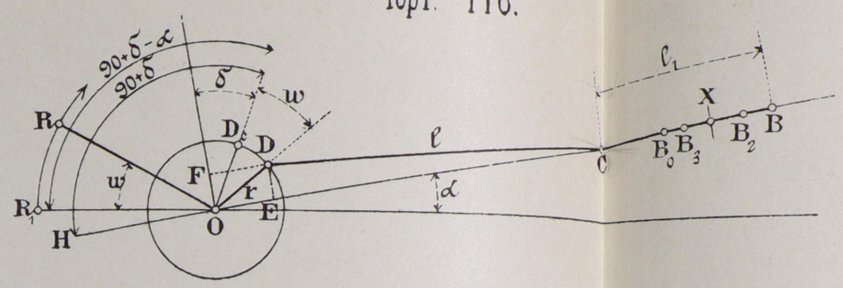
Черт. 114.



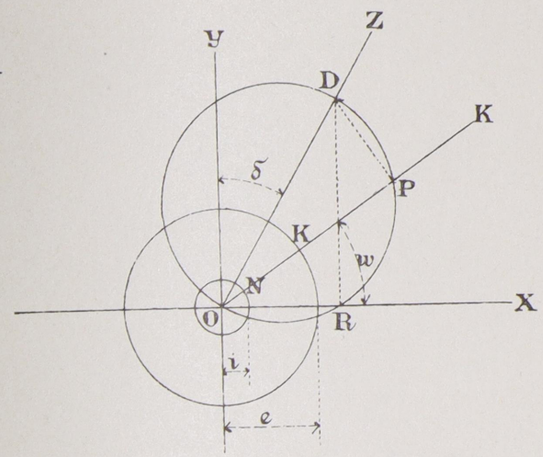
Черт. 115.



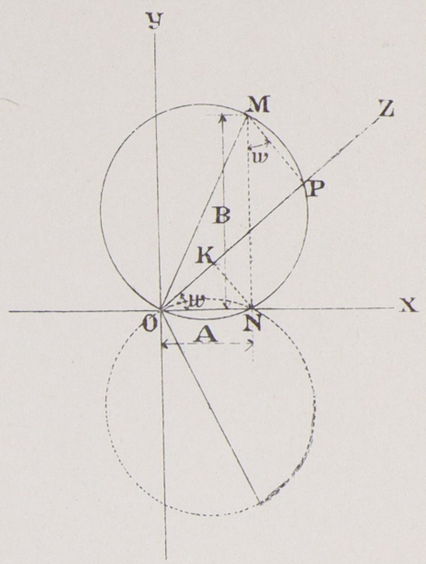
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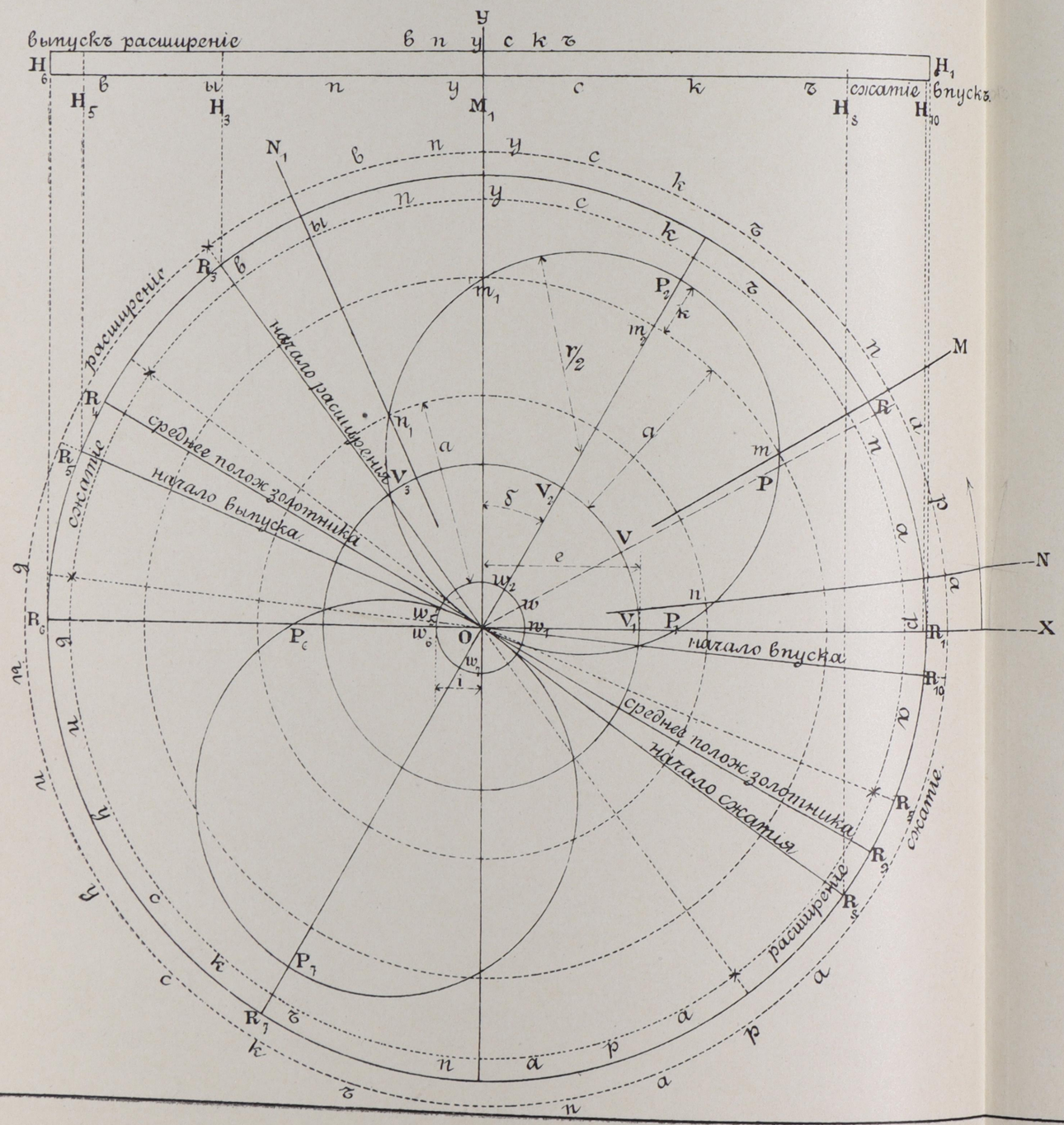
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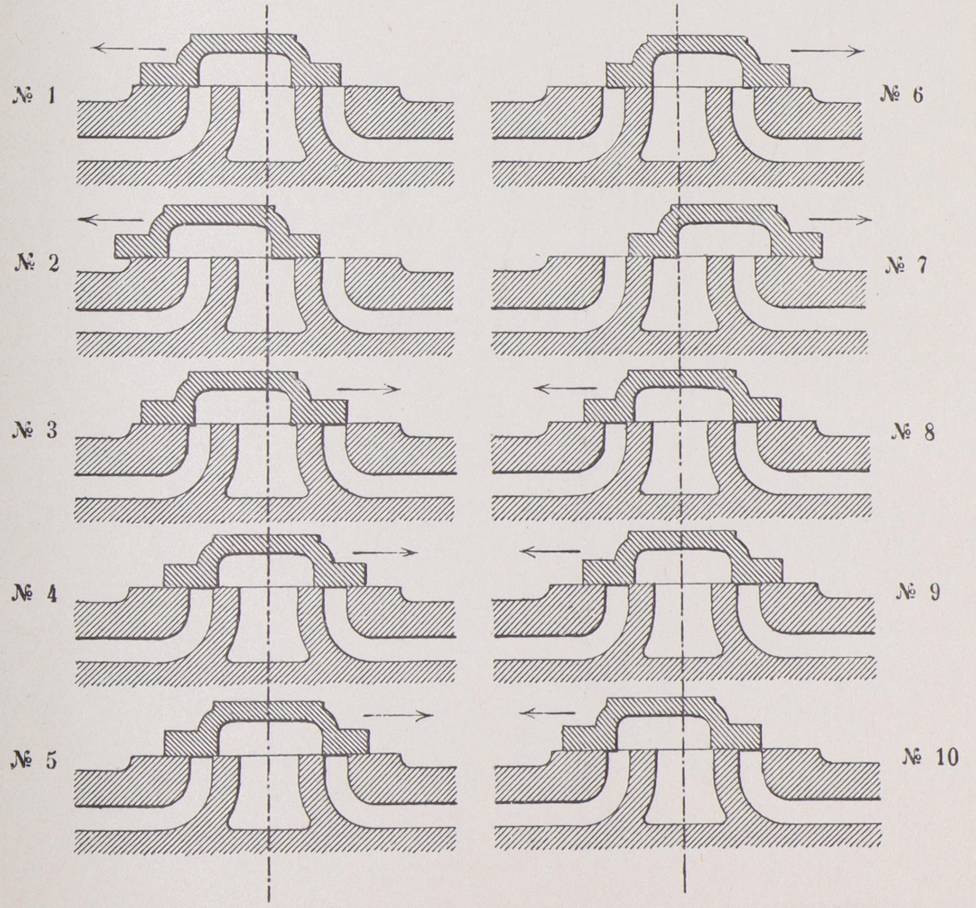
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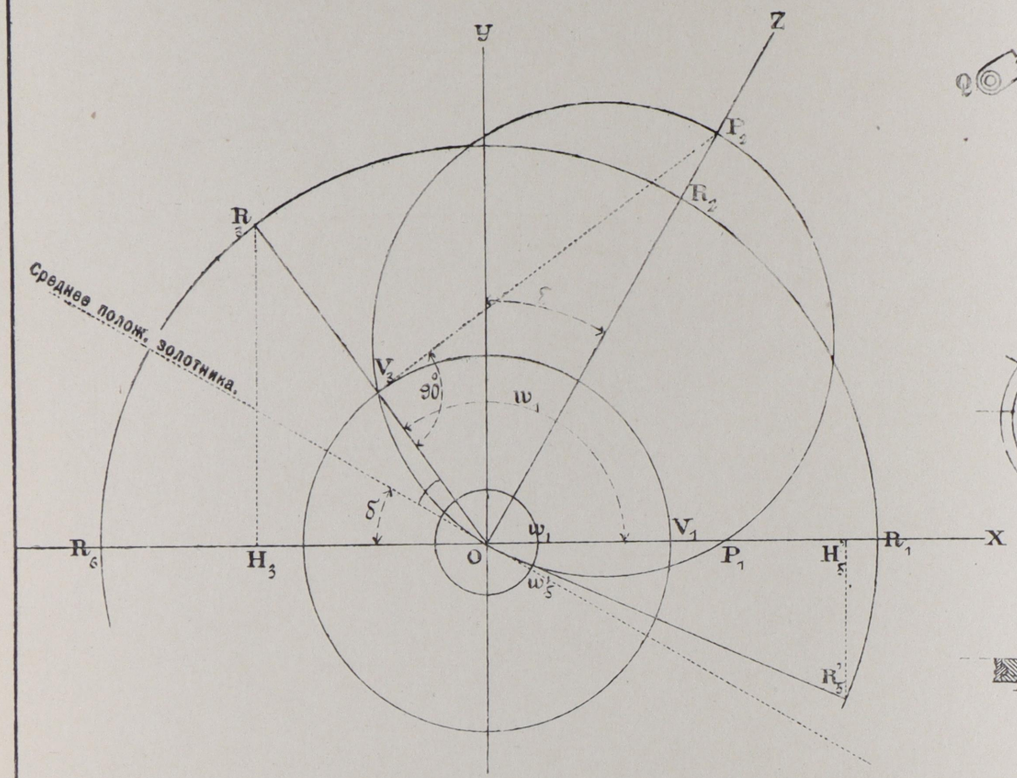
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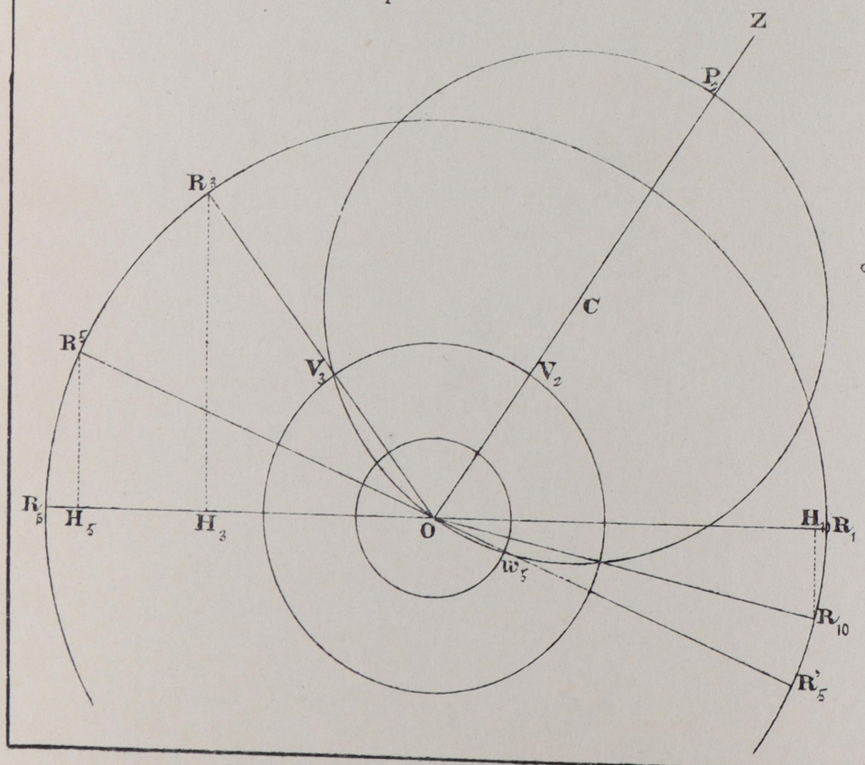
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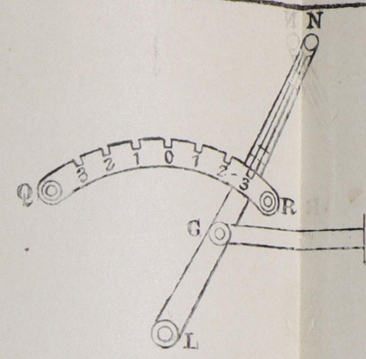
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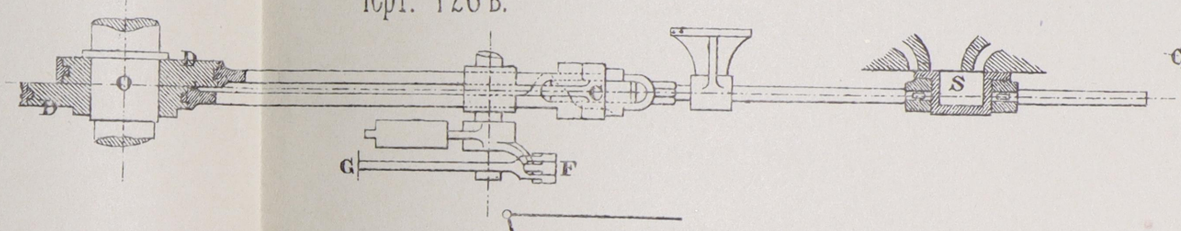
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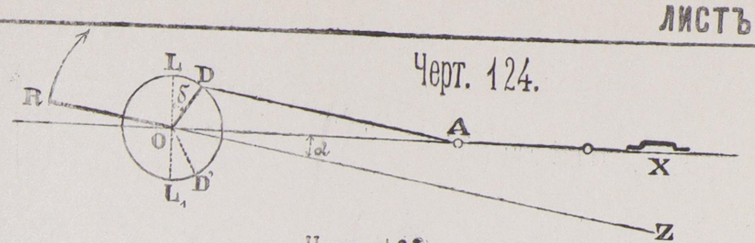
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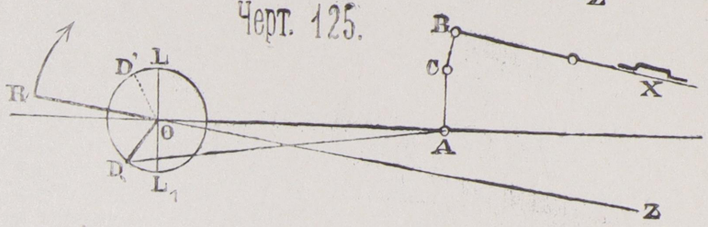
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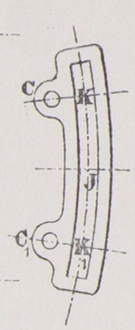
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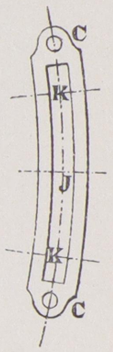
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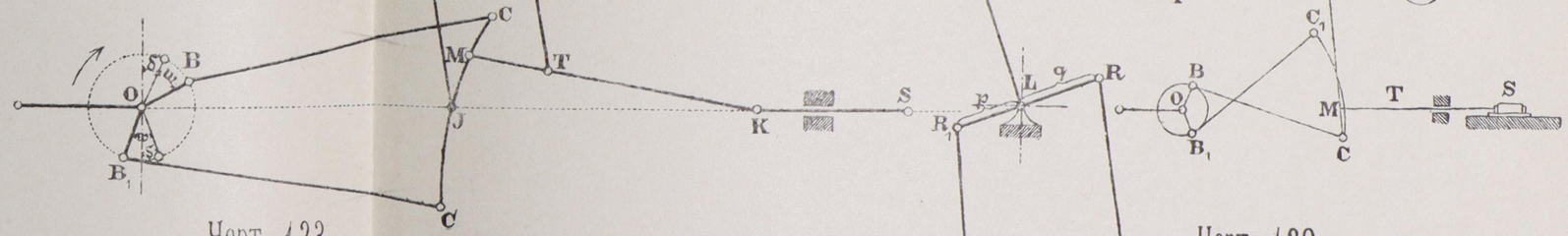
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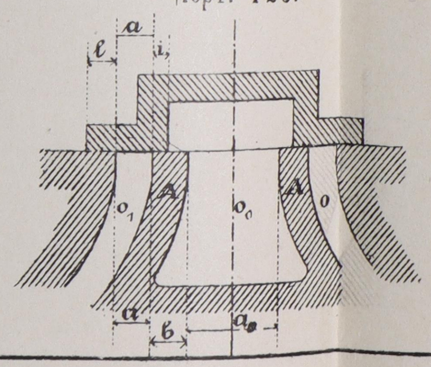
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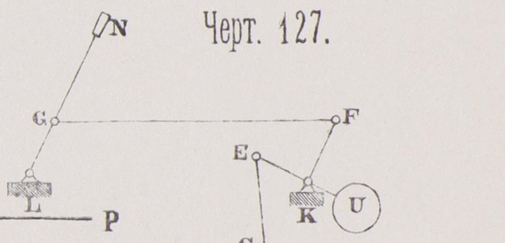
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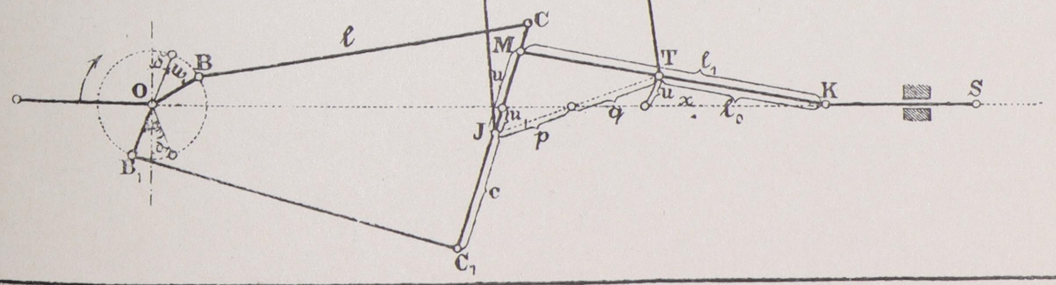
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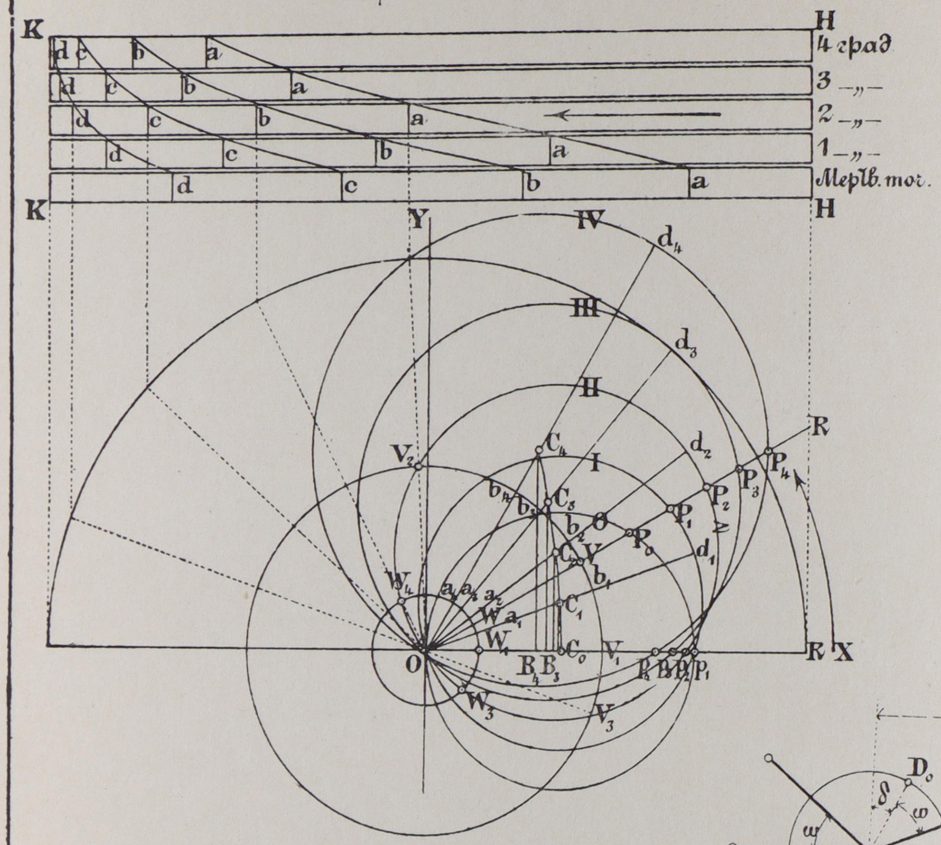
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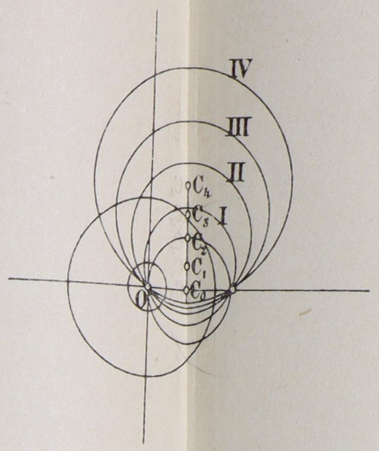
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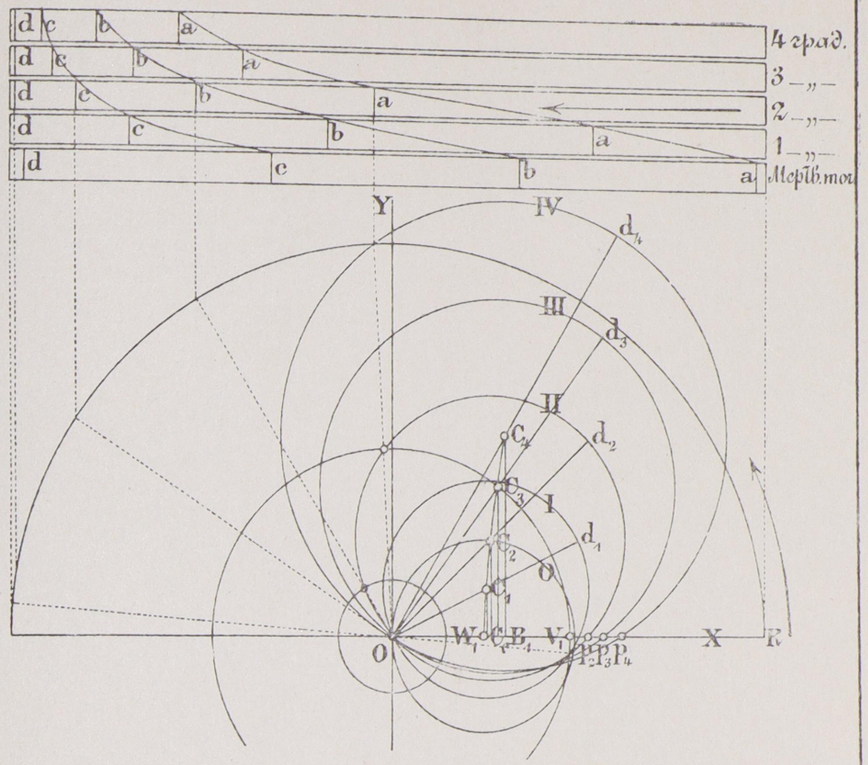
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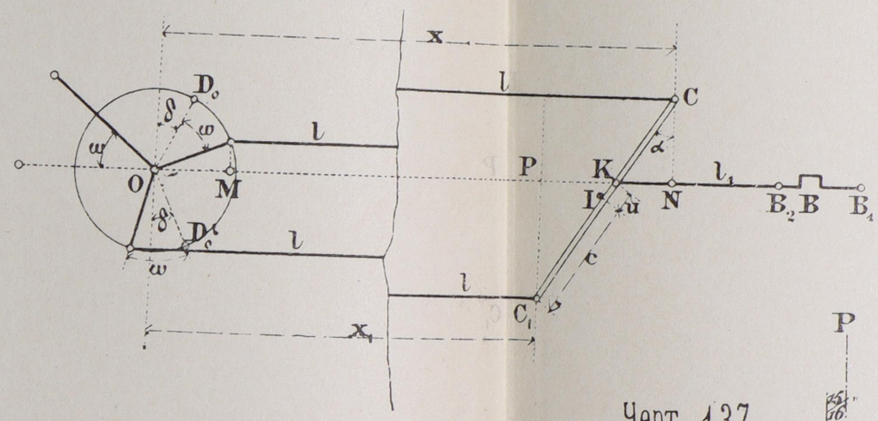
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Черт. 133.

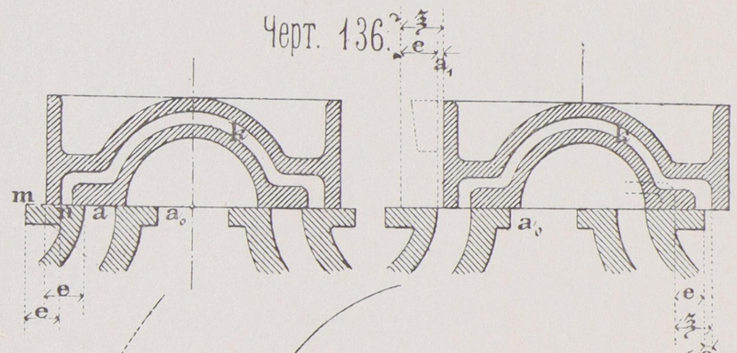


Черт. 130 и 131

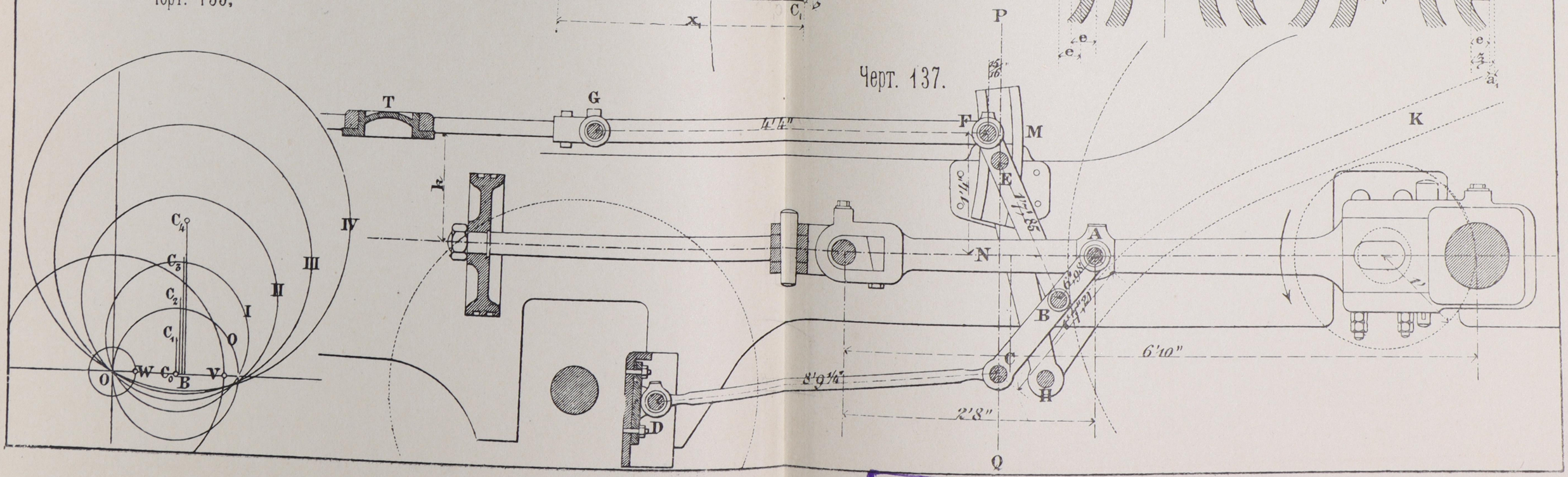


Черт. 135.

Черт. 136.

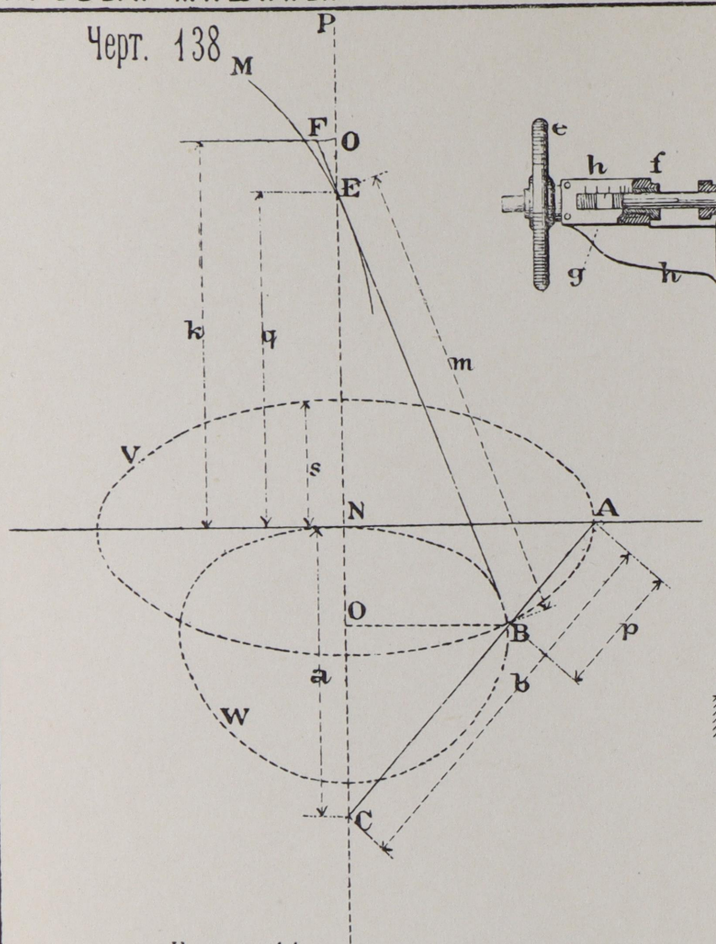


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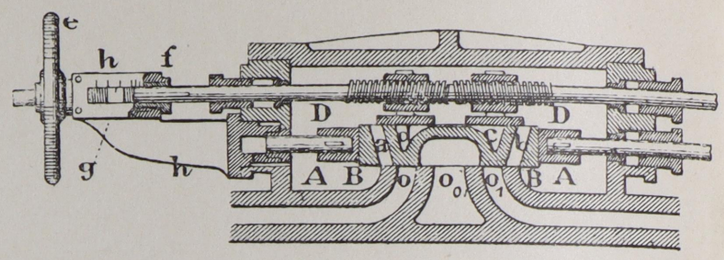


БИБЛИОТЕКА
Белорусского

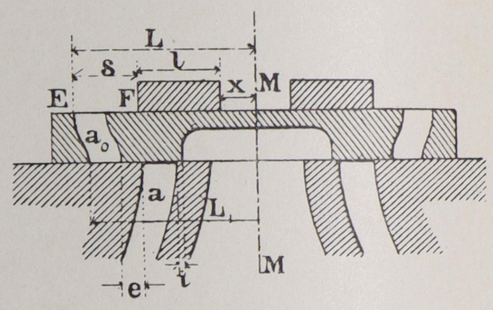
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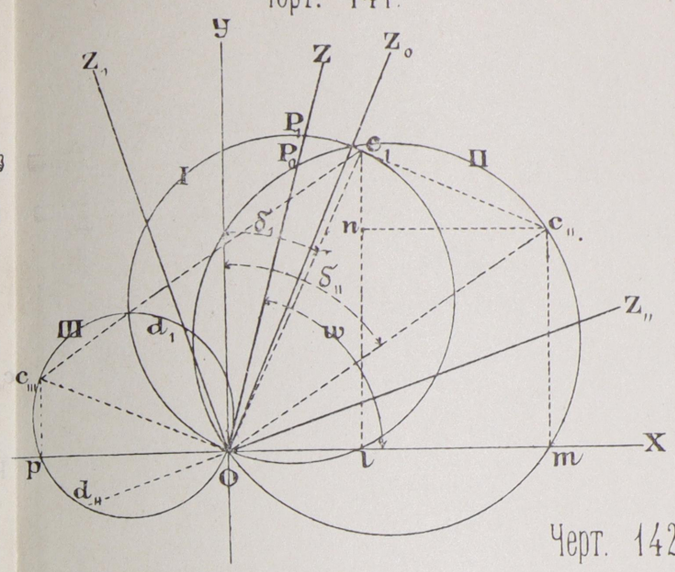
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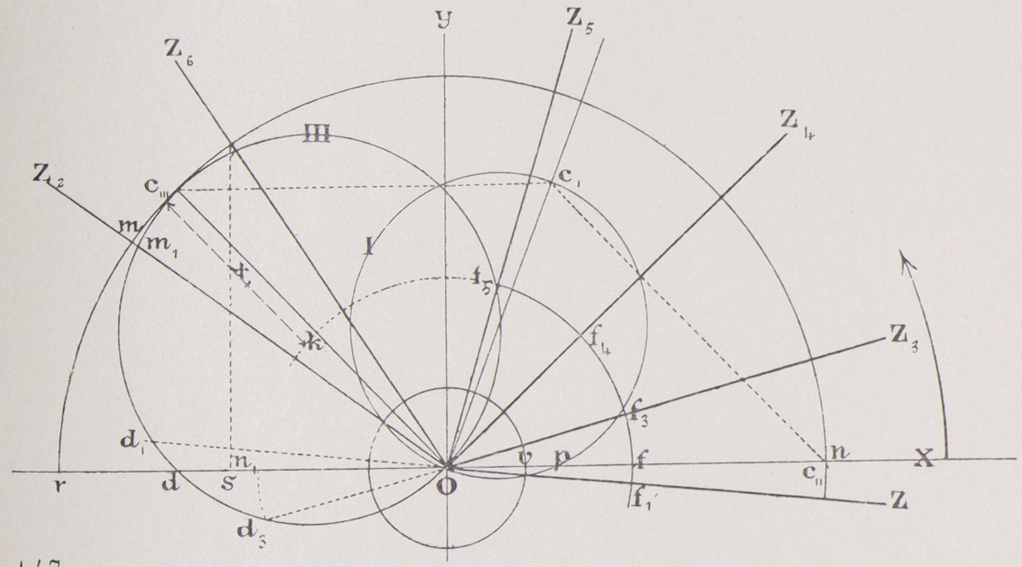
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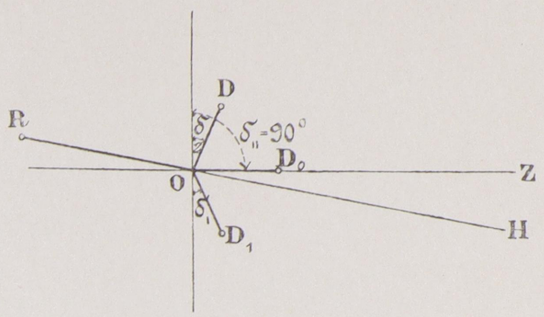
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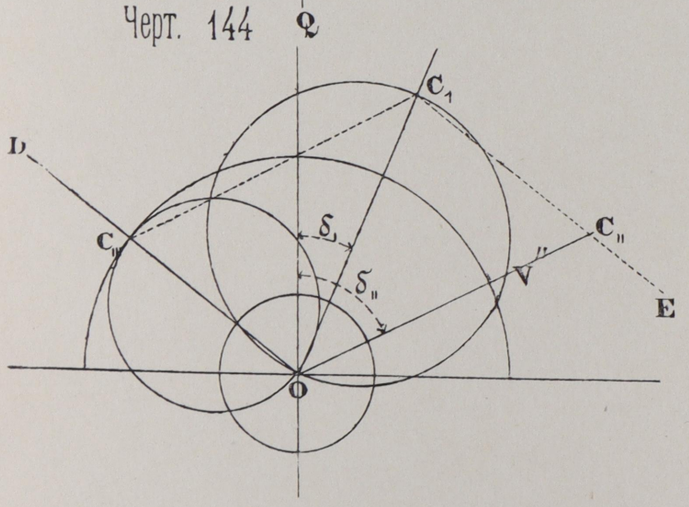
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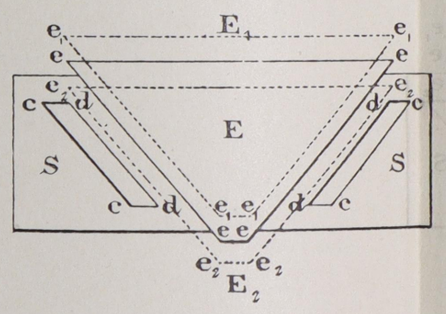
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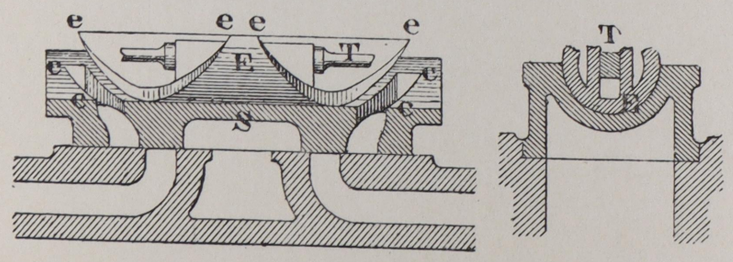
Черт. 144



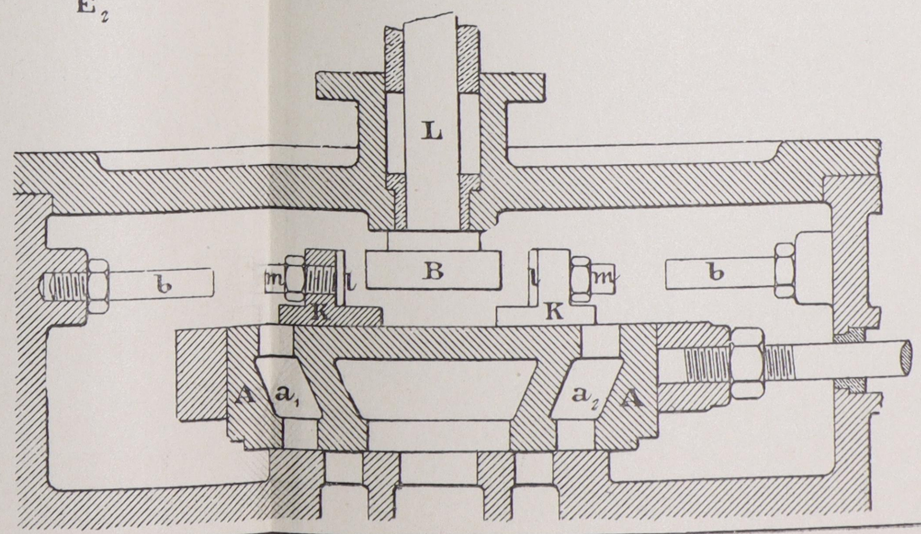
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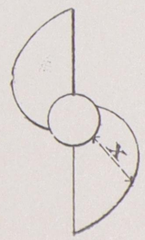
Черт. 146



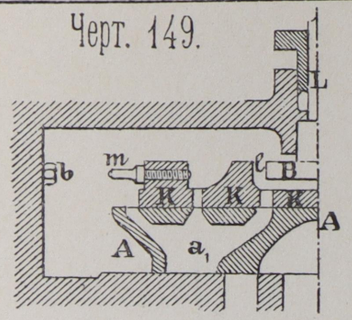
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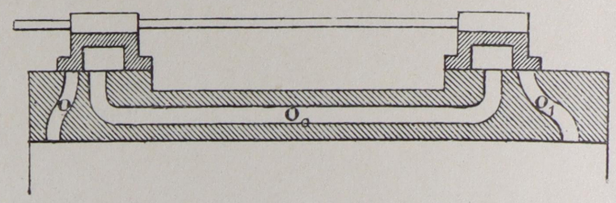
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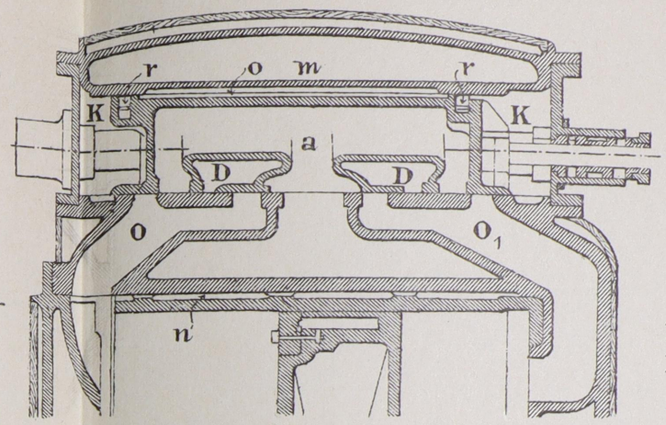
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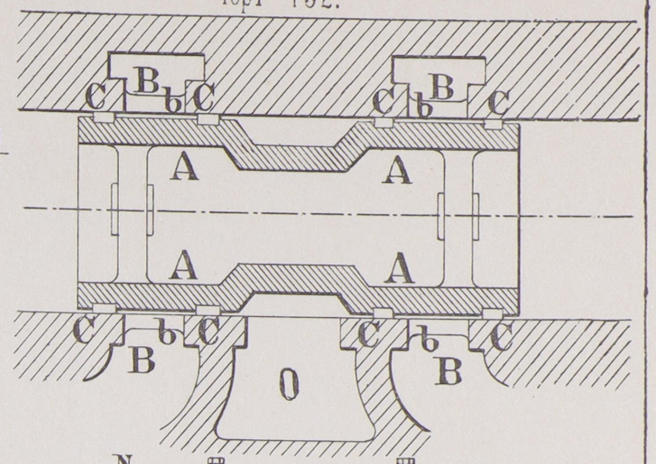
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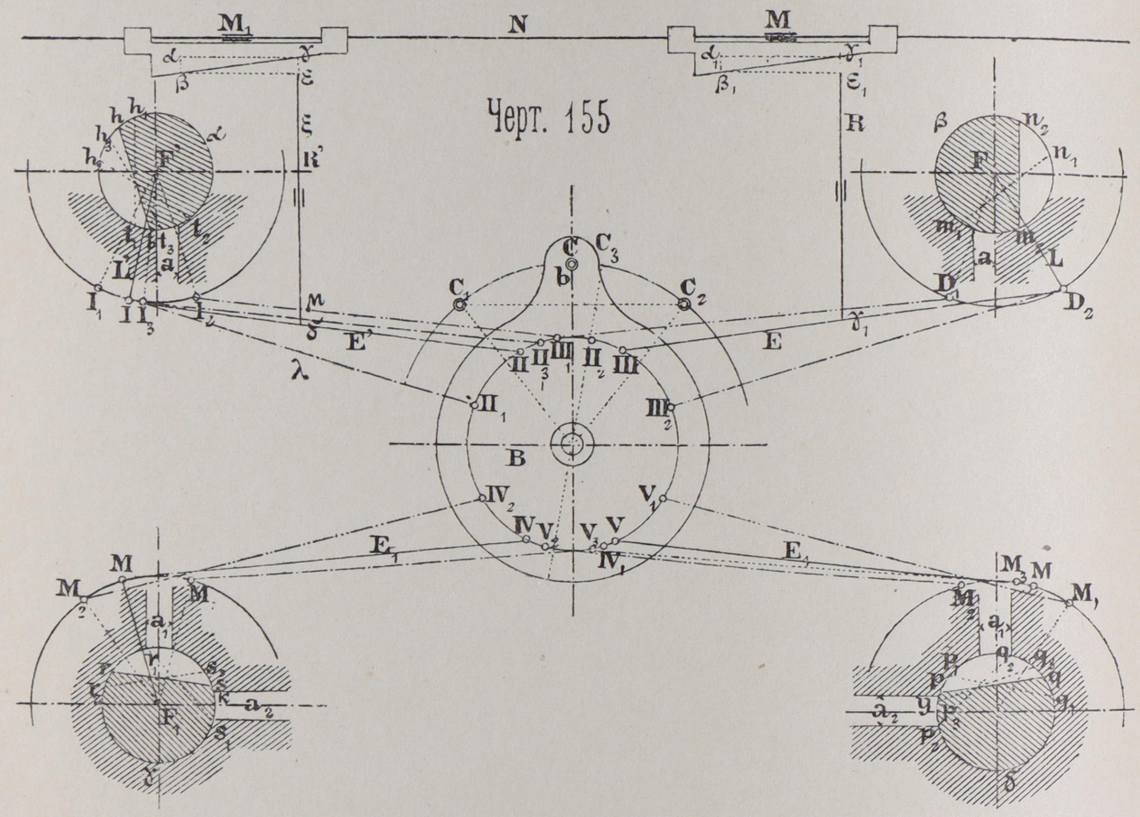
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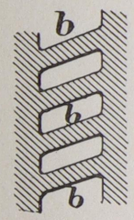
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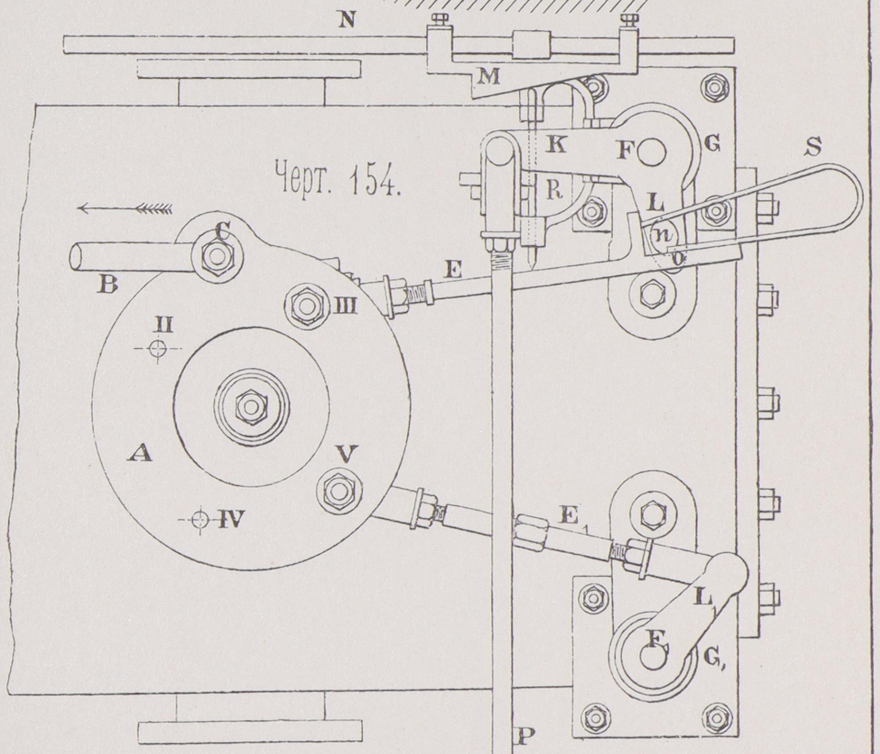


Черт. 155



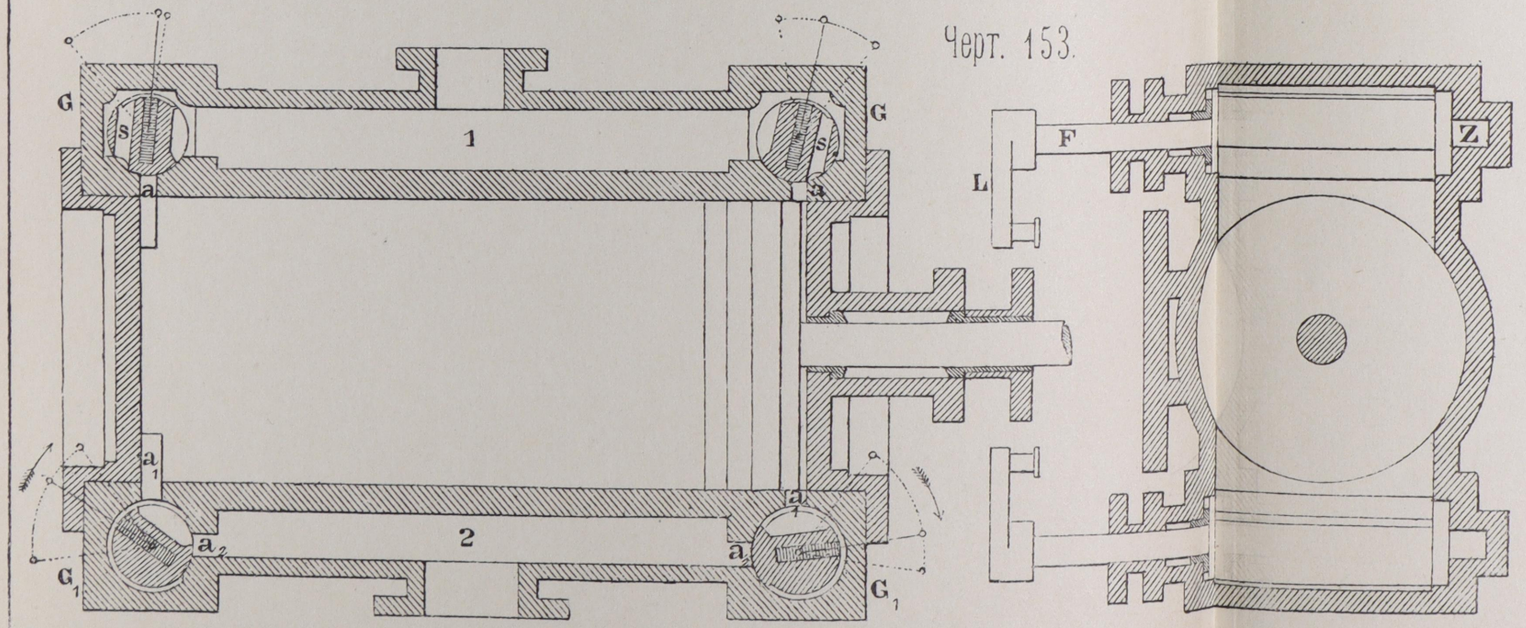
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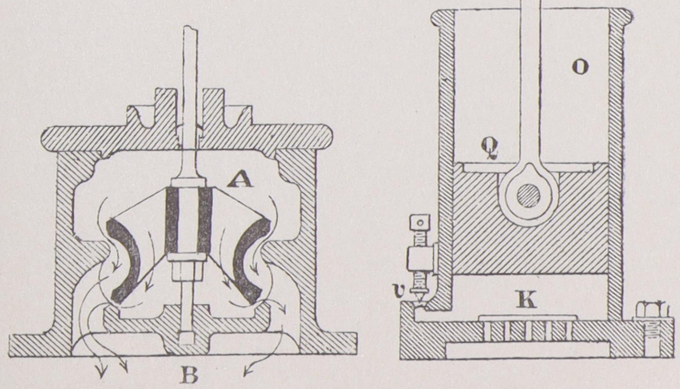


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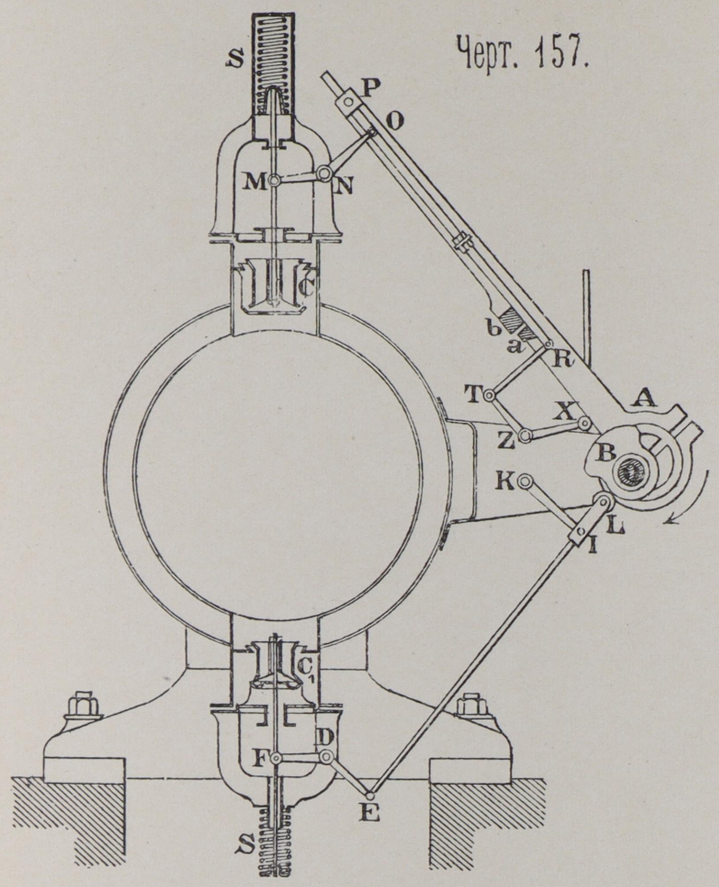
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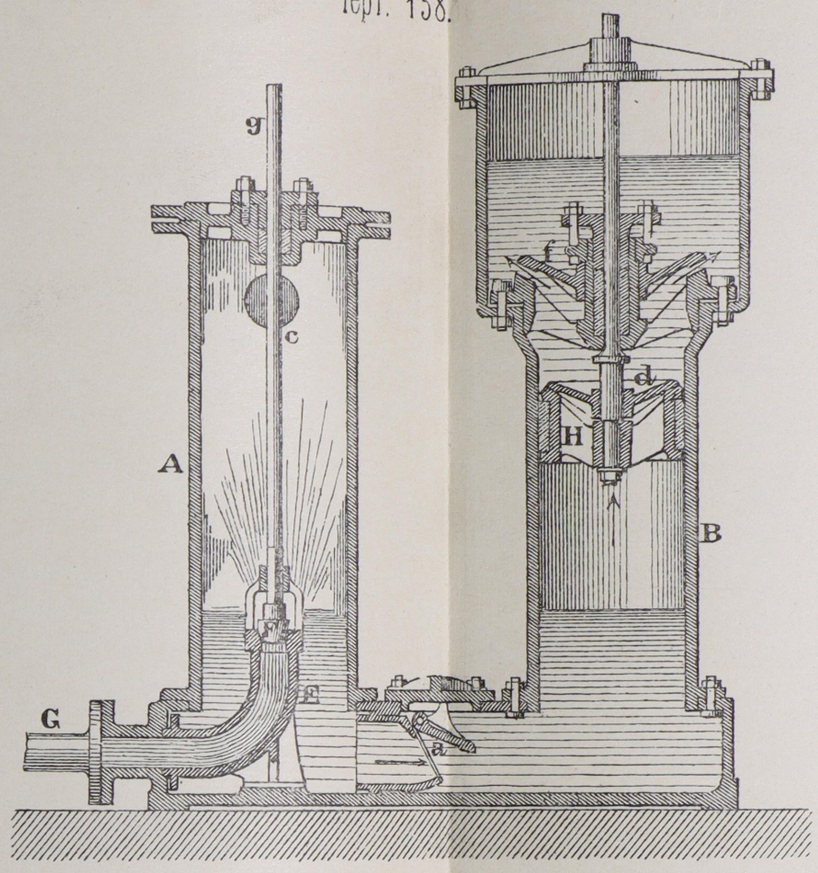
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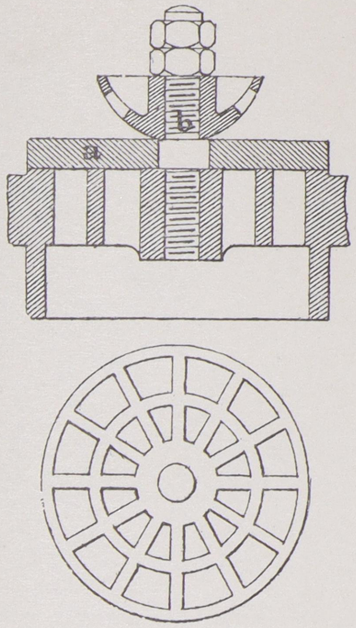
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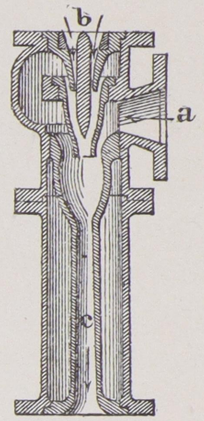
Черт. 158.



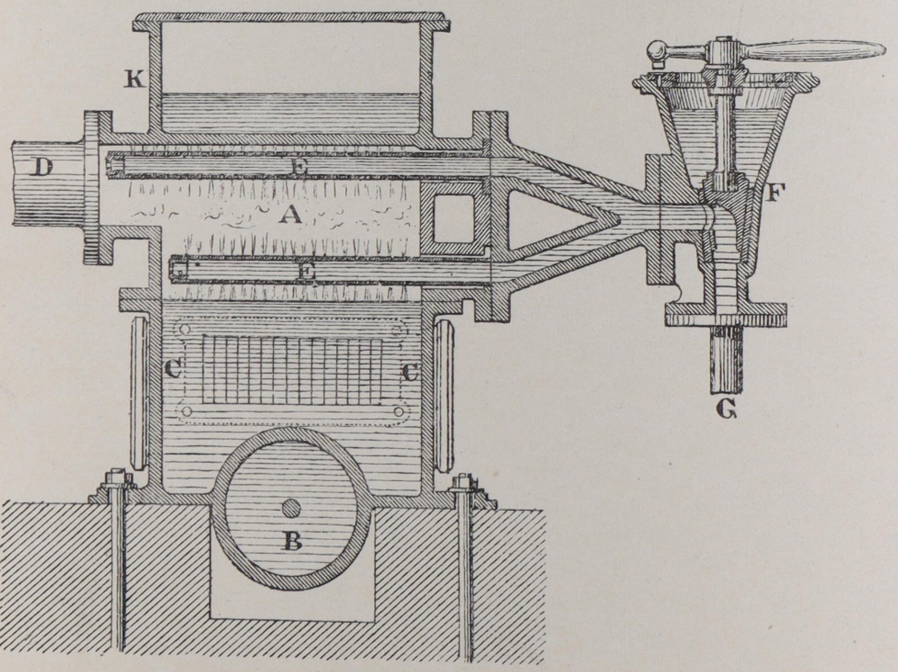
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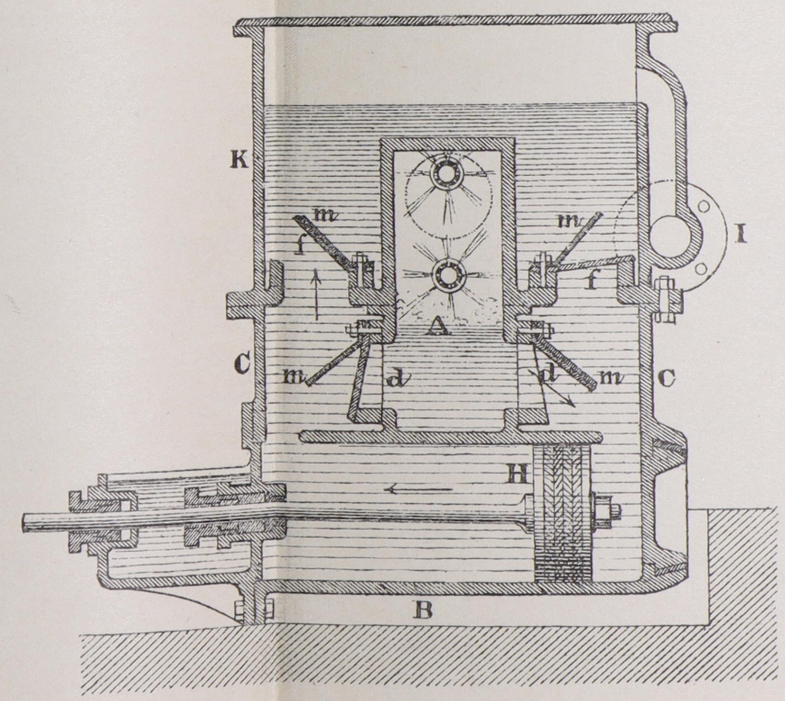
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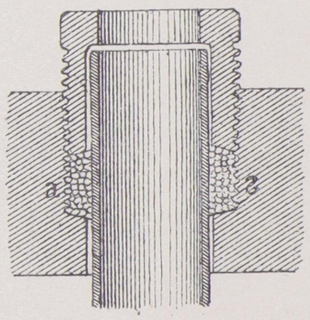
Черт. 159 А.



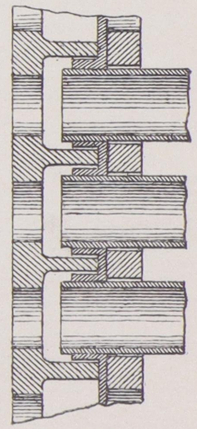
Черт. 159 В.



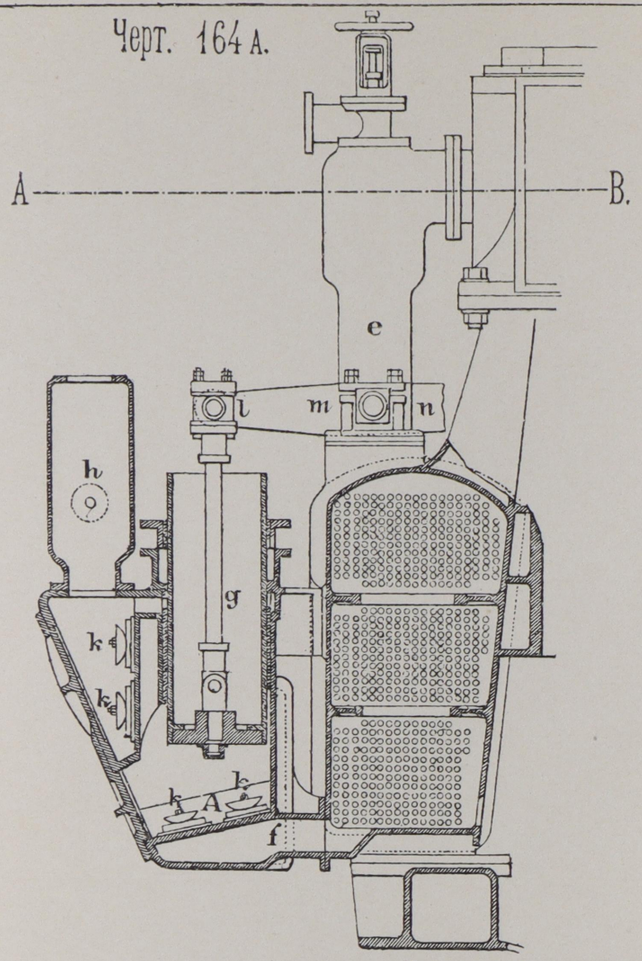
Черт. 162.



Черт. 163

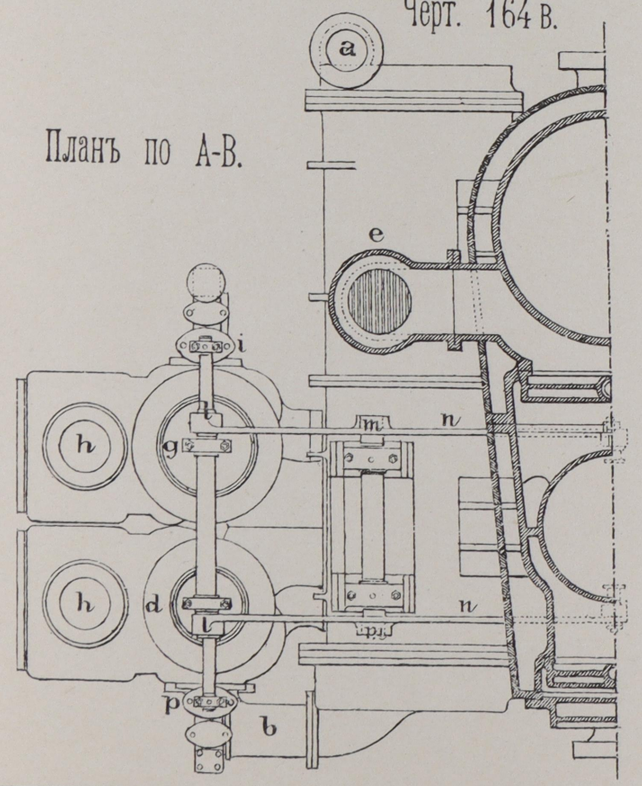


Черт. 164 А.

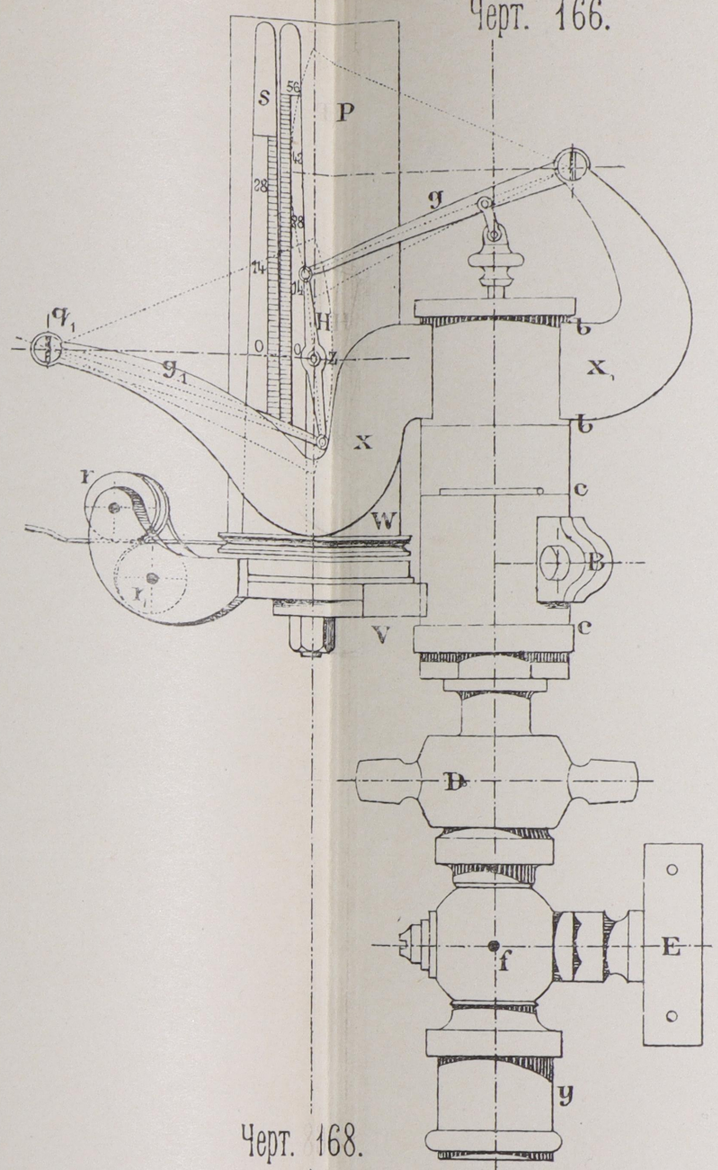


Черт. 164 В.

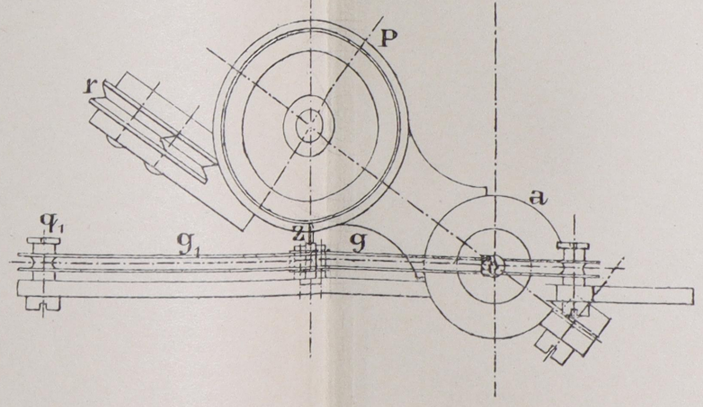
План по A-B.



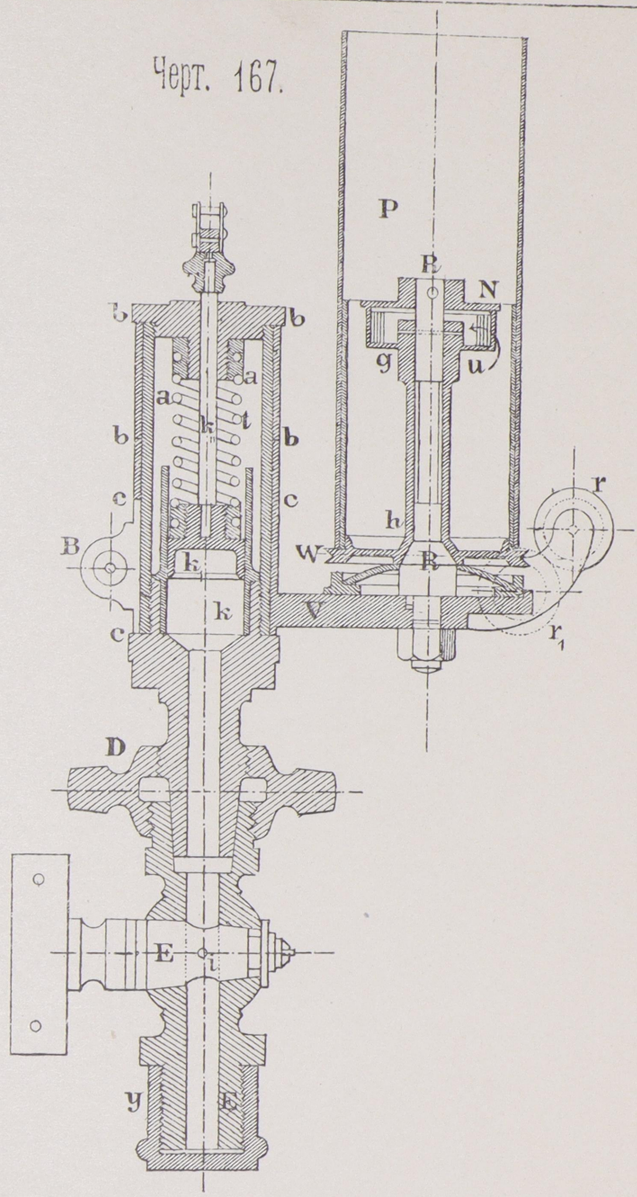
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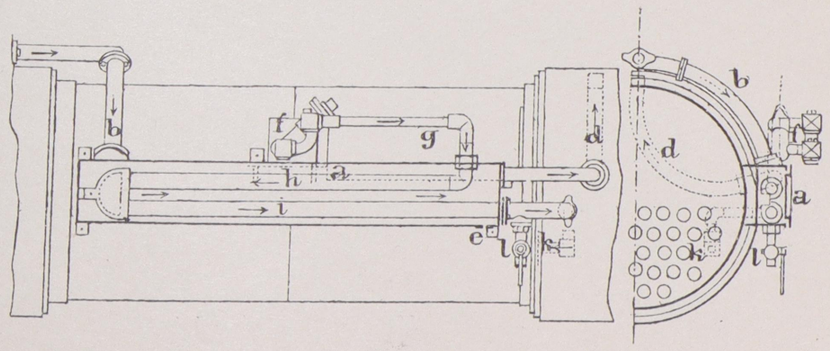
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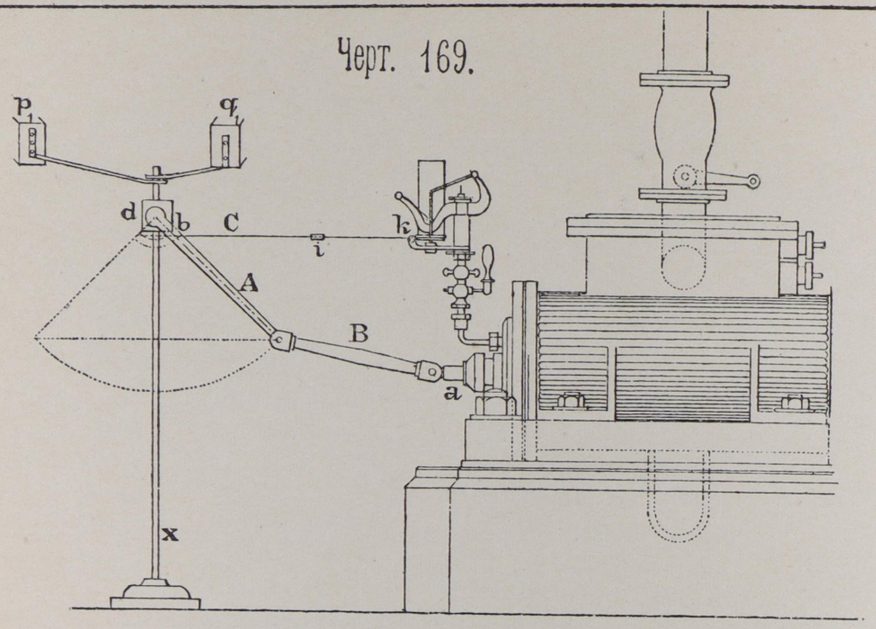
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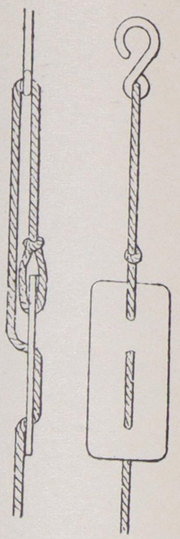
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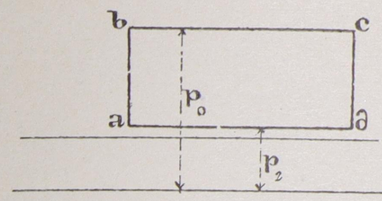
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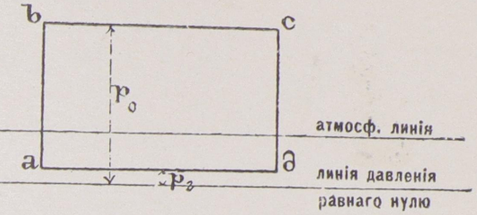
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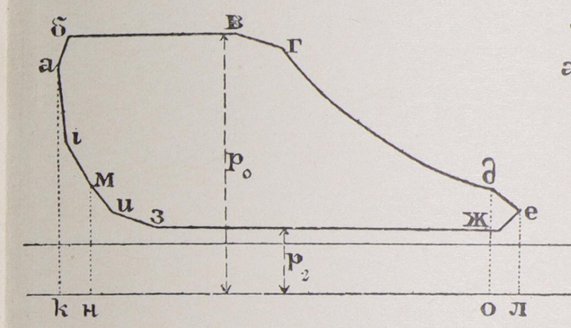
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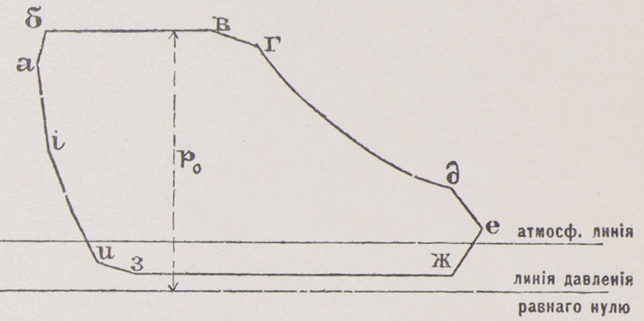
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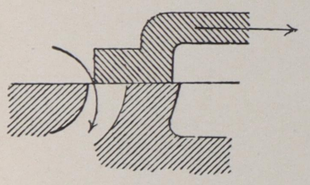
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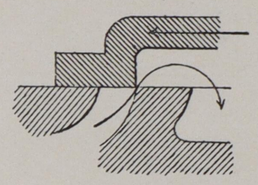
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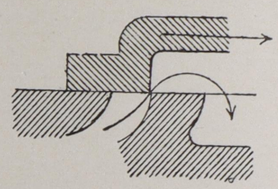
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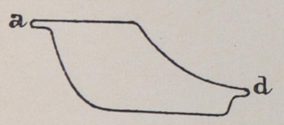
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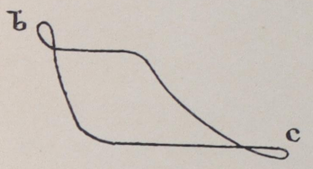
Черт. 177.



Черт. 178 A.



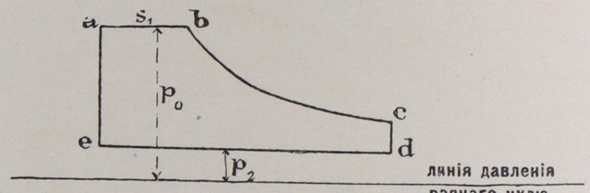
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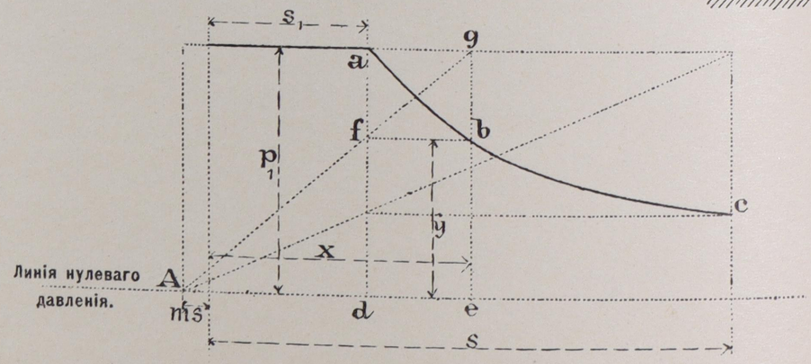
Черт. 178 C



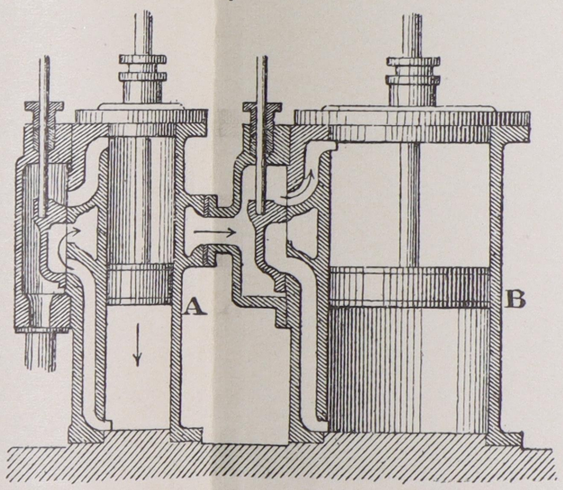
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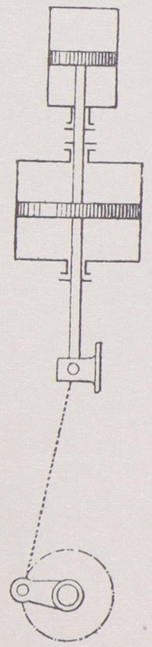
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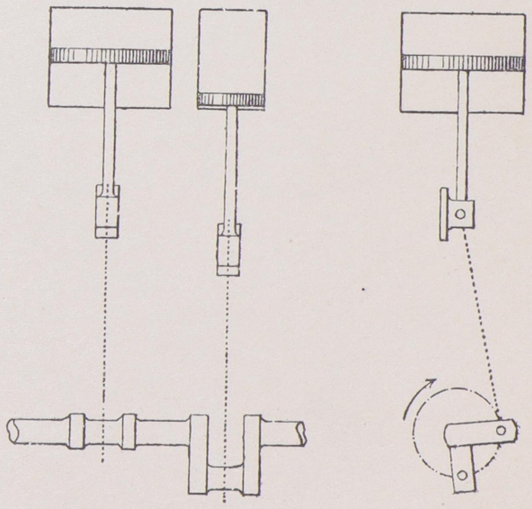
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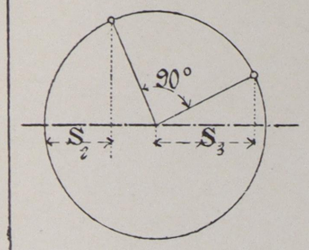
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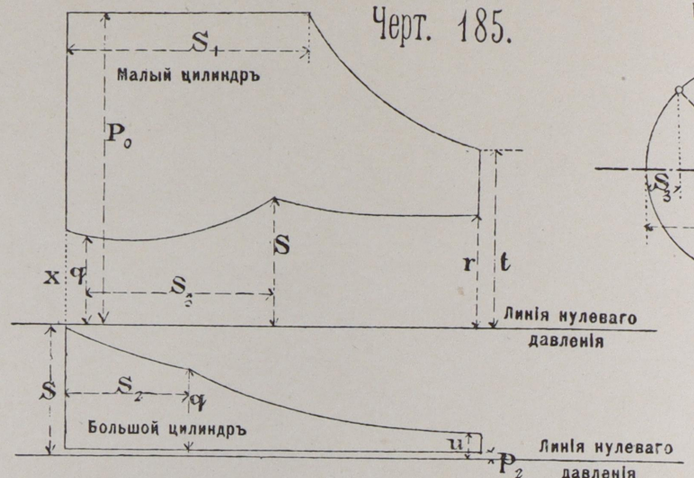
Черт 183.



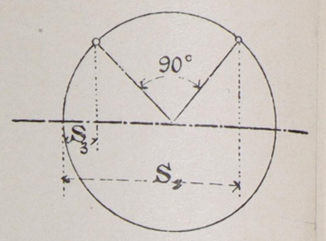
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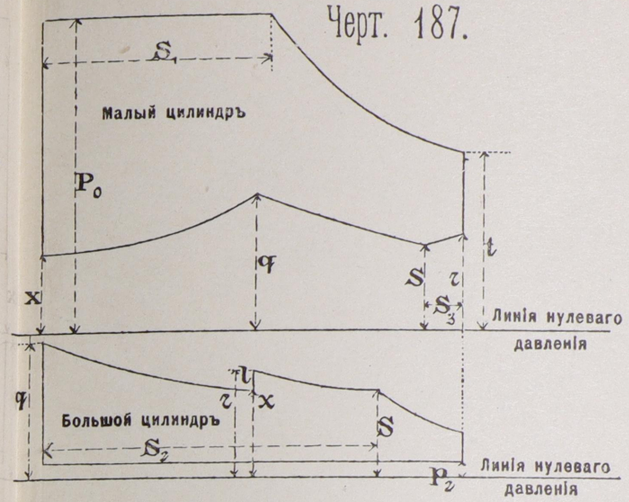
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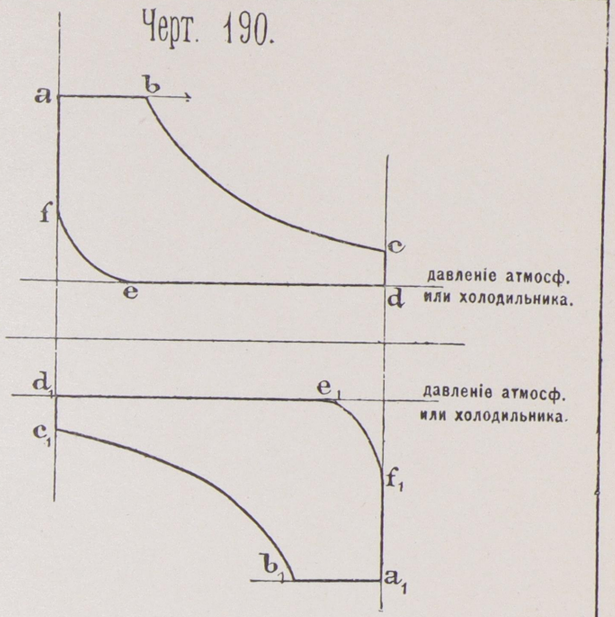
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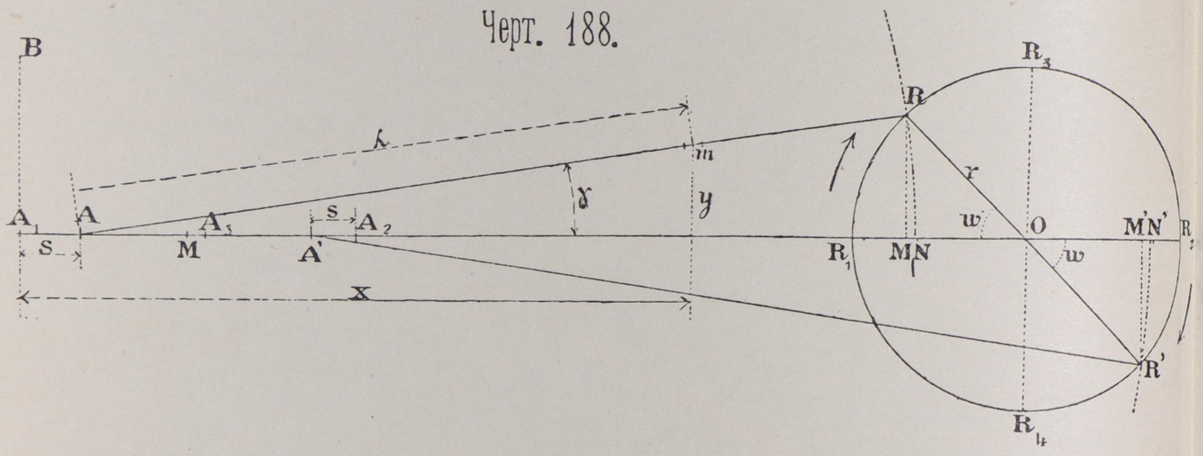
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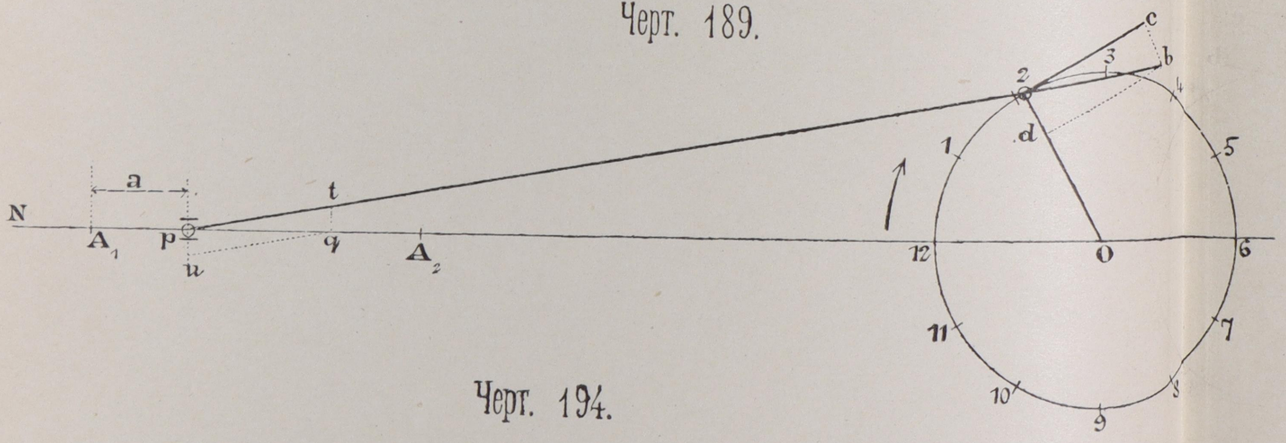
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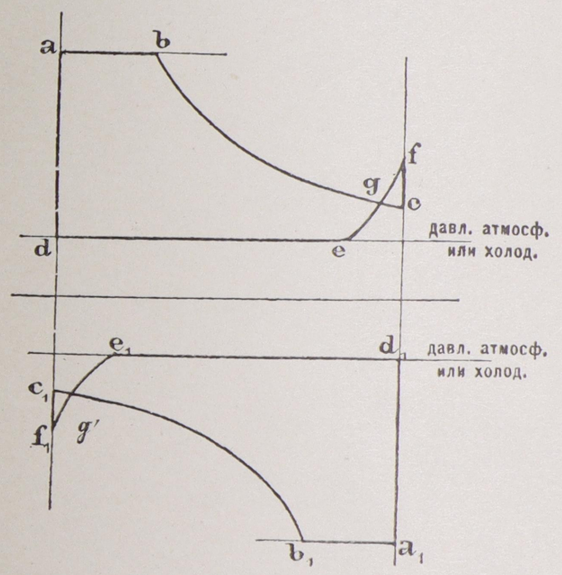
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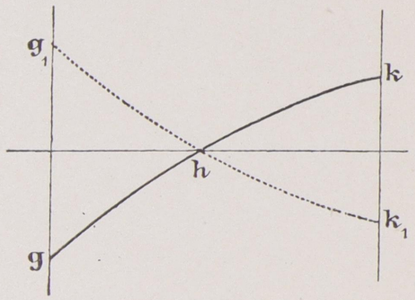
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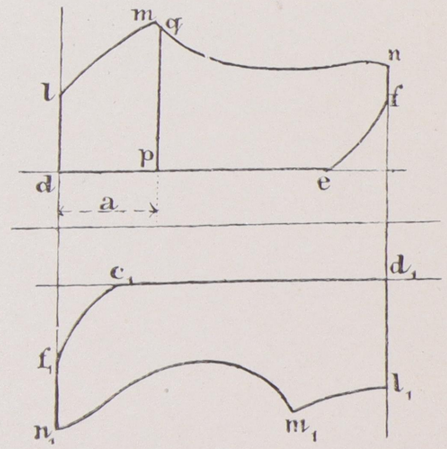
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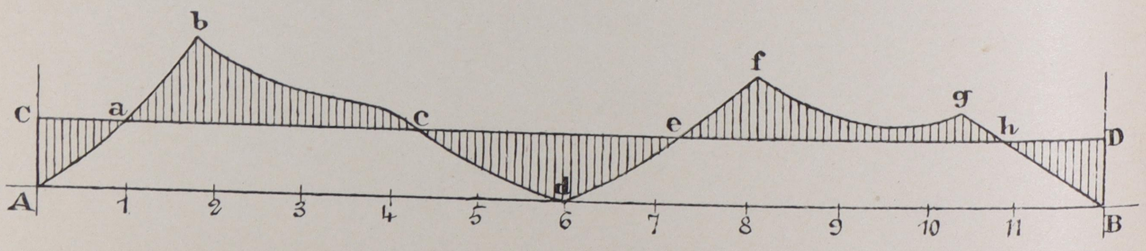
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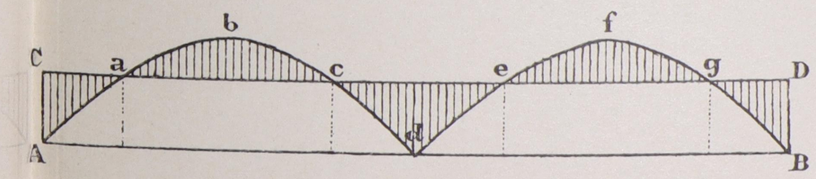
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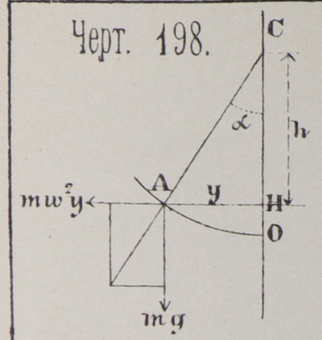
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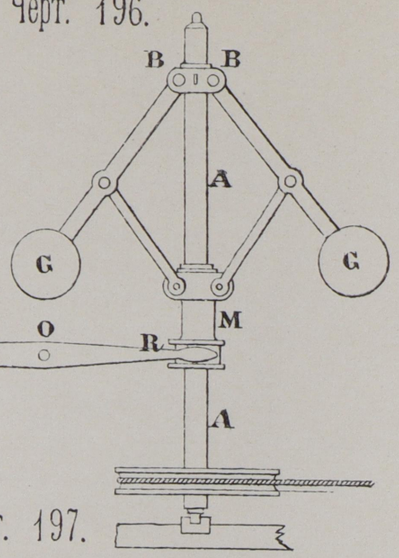
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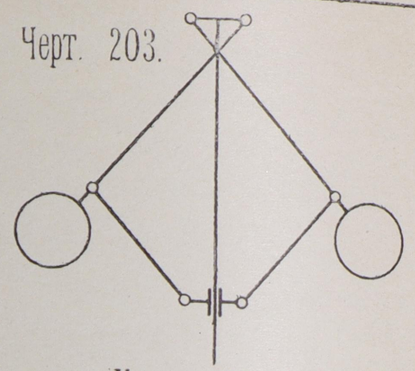
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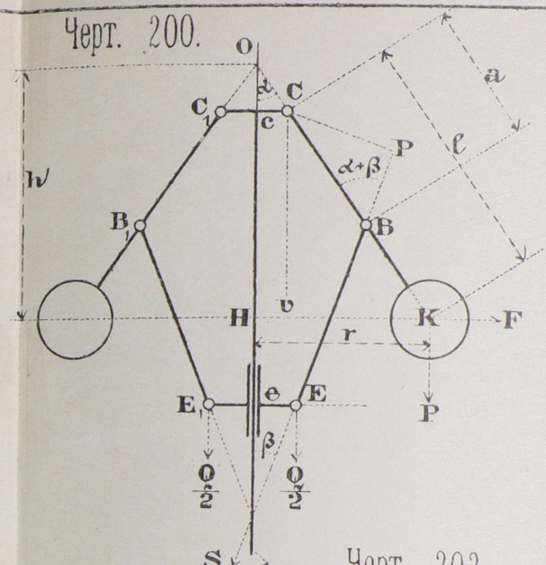
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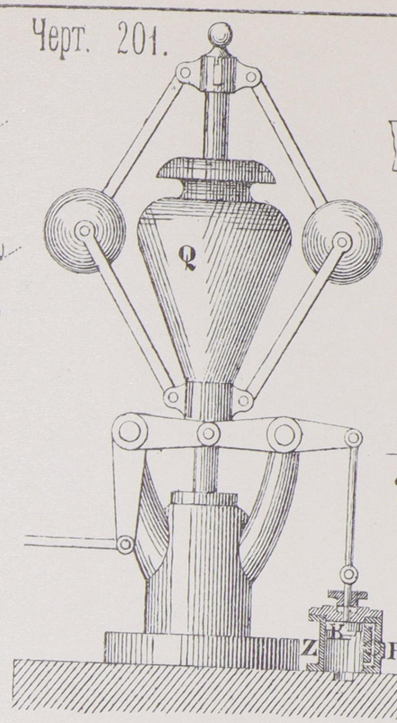
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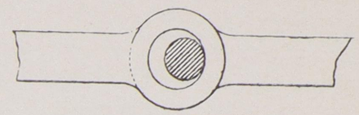
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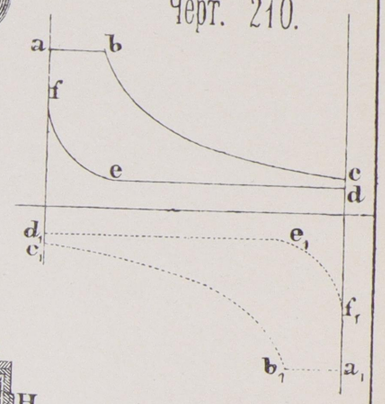
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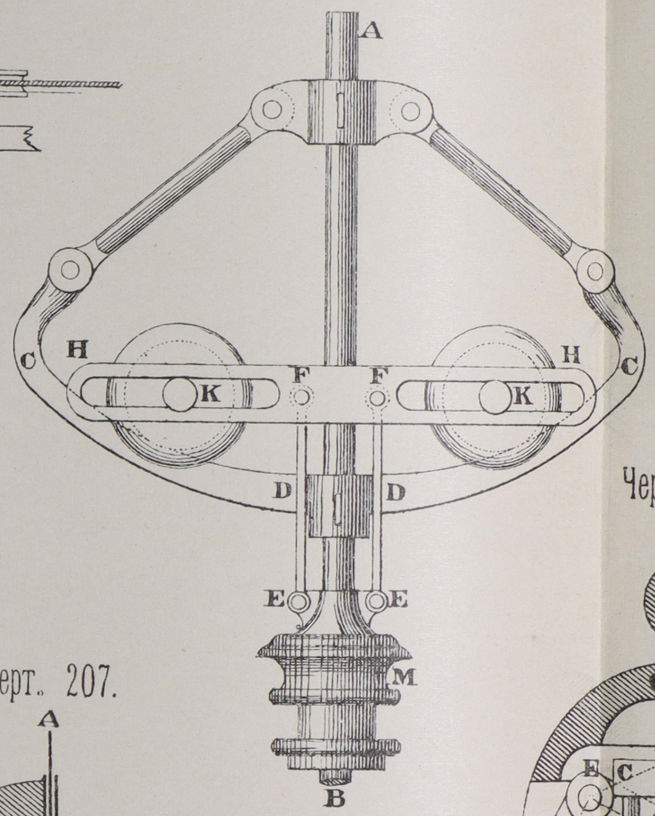
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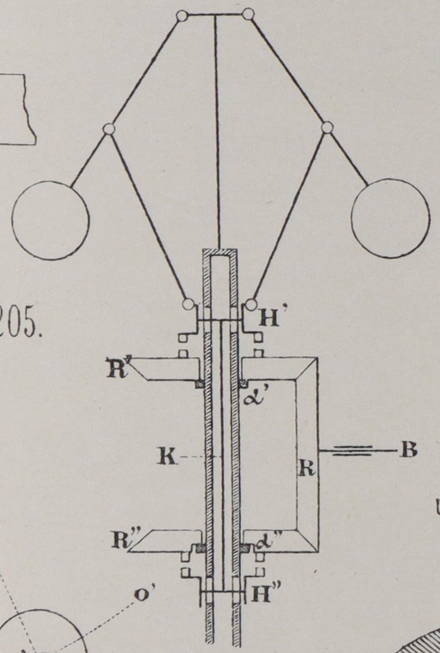
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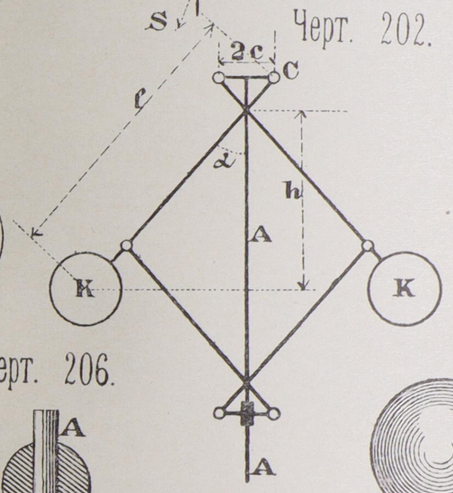
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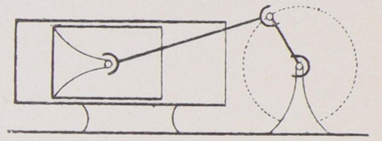
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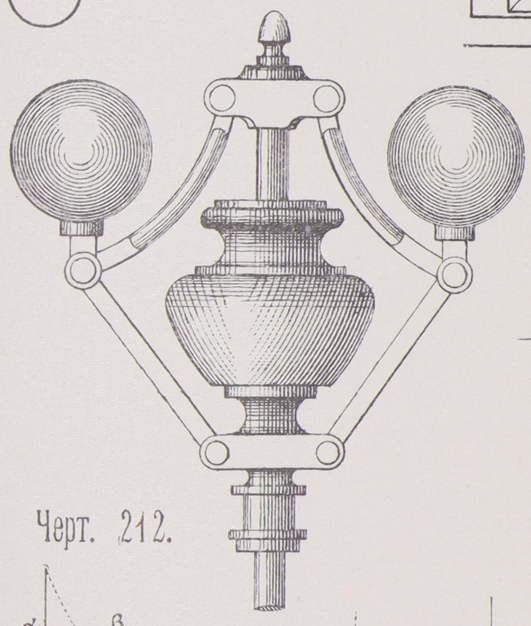
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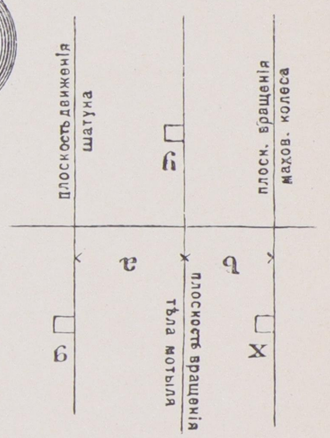
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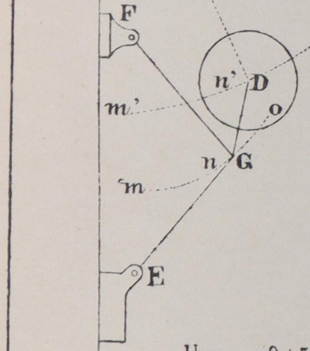
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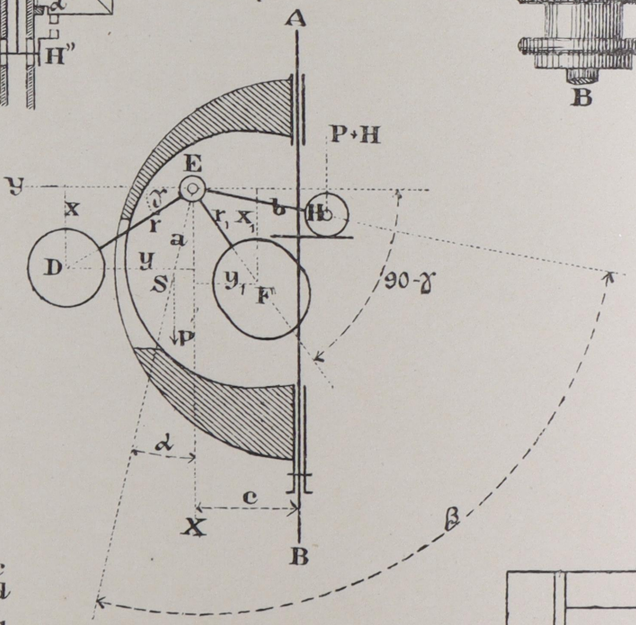
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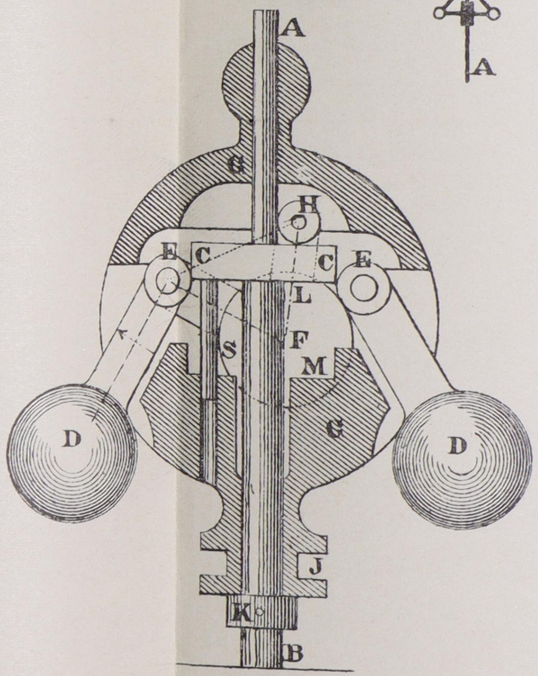
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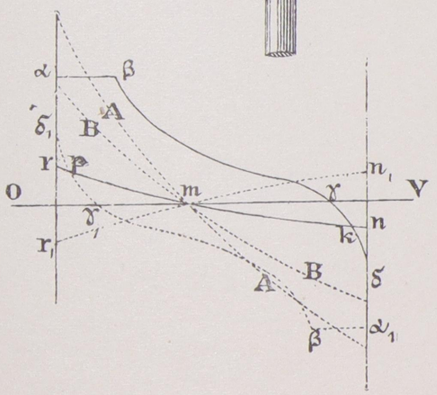
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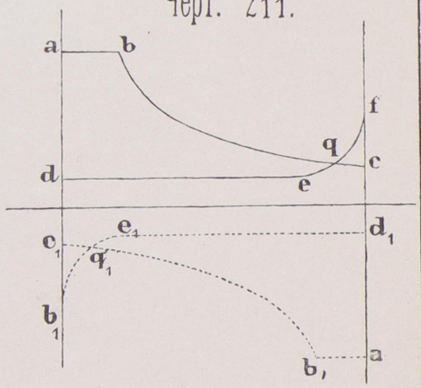
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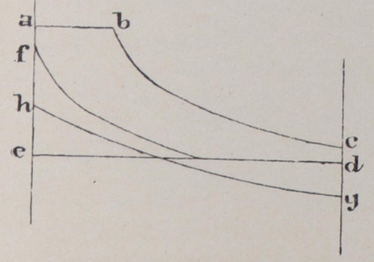
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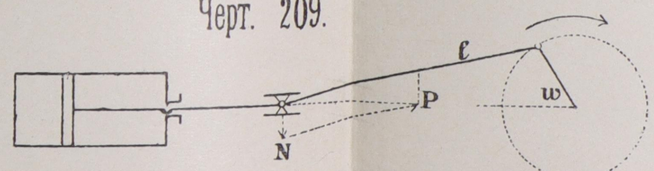
Черт. 211.



Черт. 215.

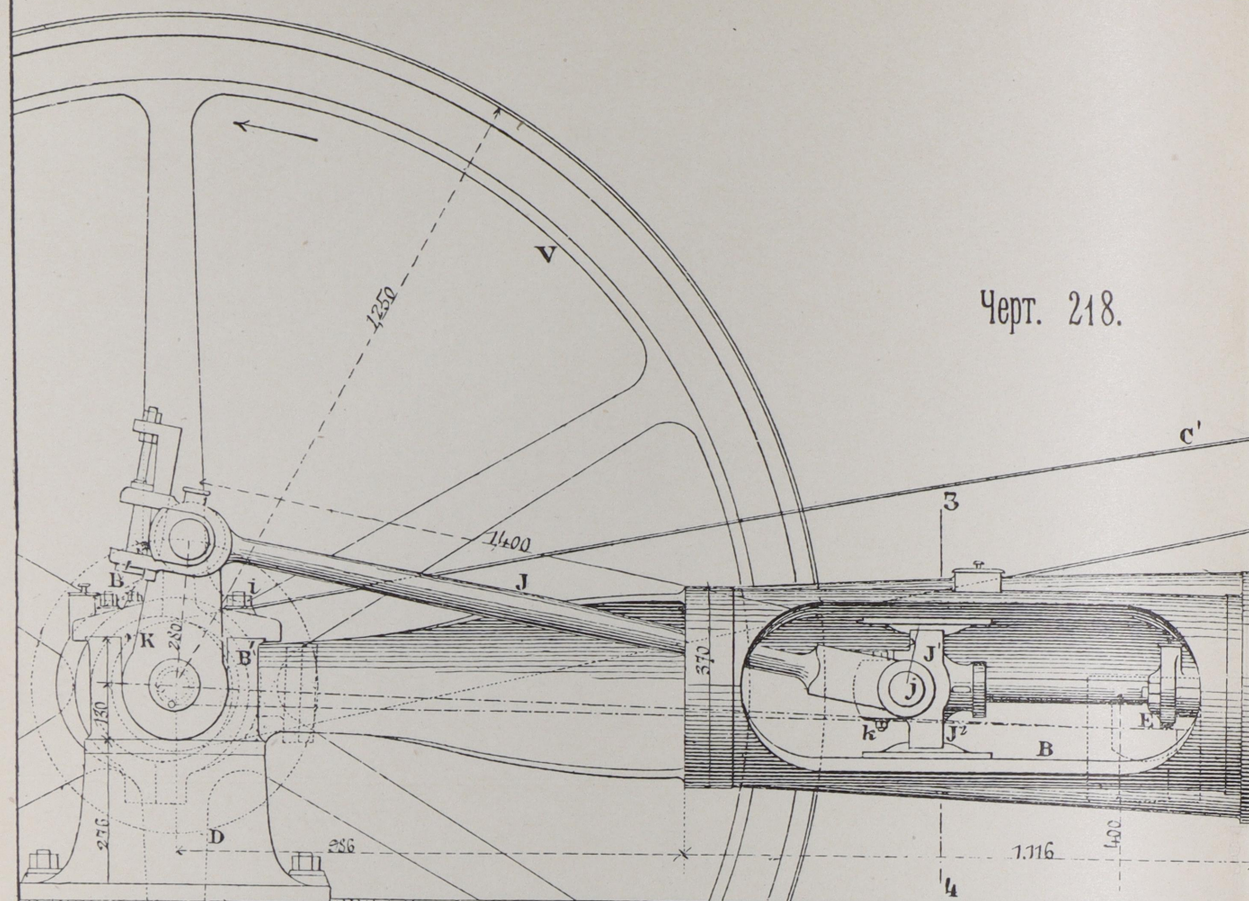


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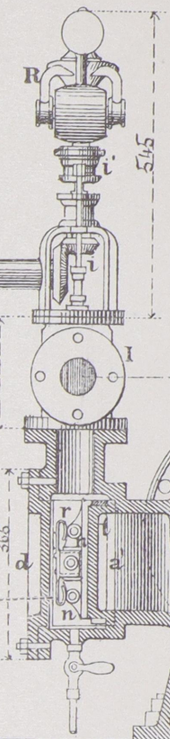


Чертежи 218-222 и 227 въ 1/15 нат. вел.; чертежи 223-226 въ 1/10 нат. величины.

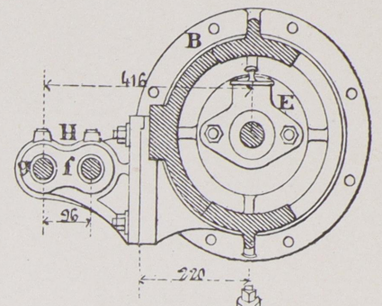
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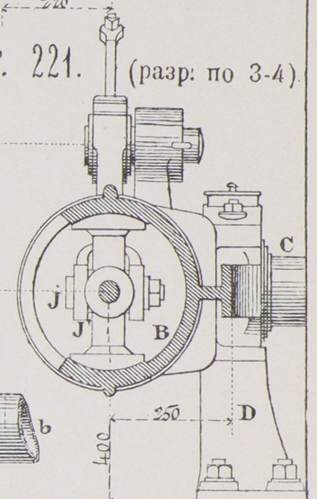
Черт. 220
(разрѣзъ по 1-2).



Черт. 222.
(разрѣзъ по 5-6)

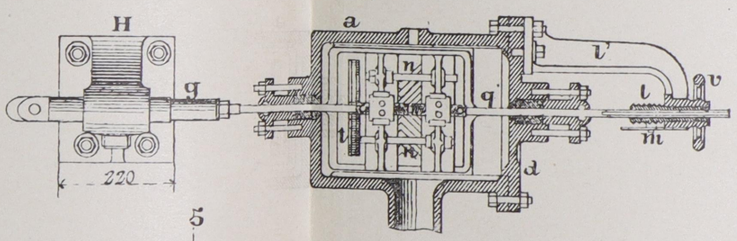


Черт. 221. (разр: по 3-4).

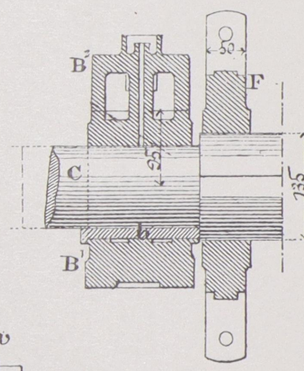


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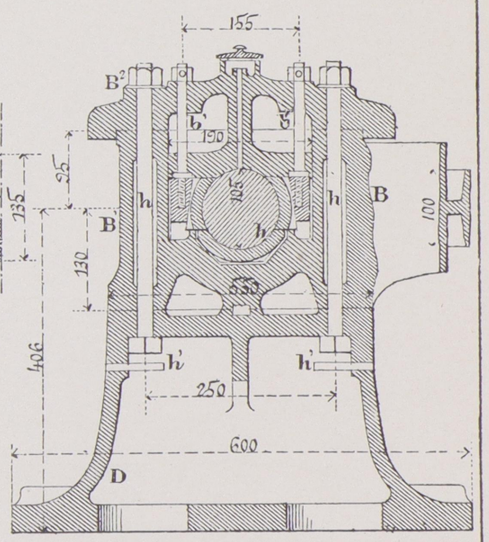
Черт 227.



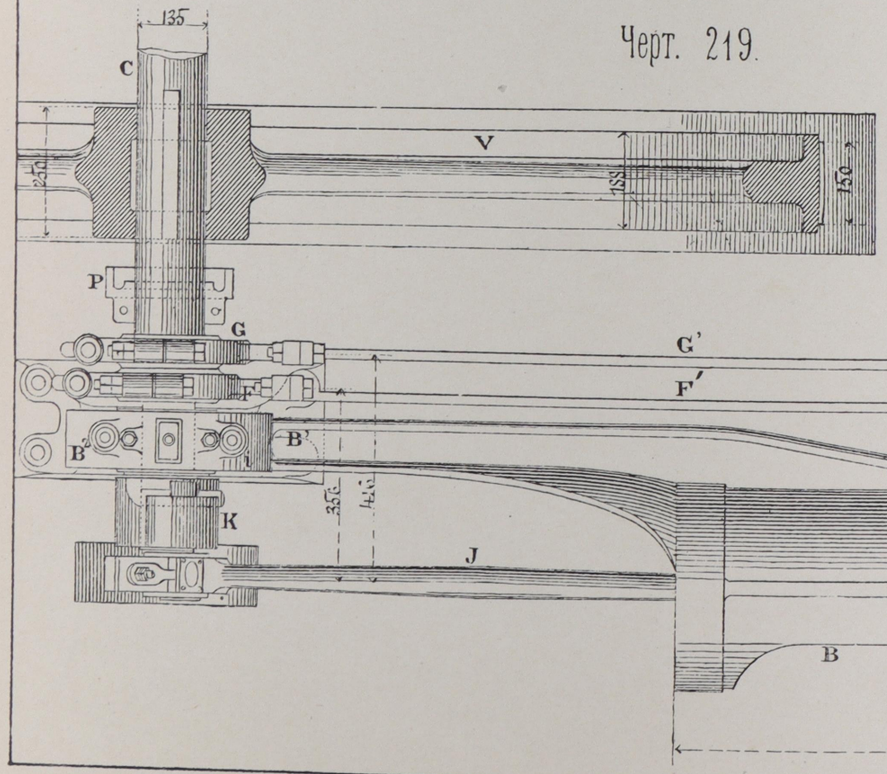
Черт. 225



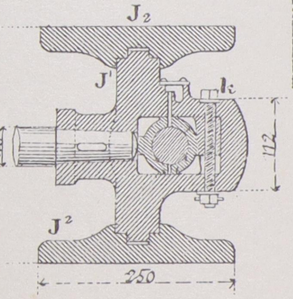
Черт. 223



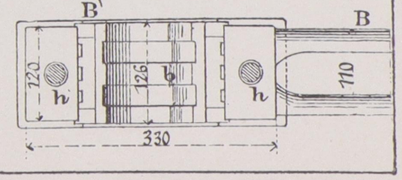
Черт. 219.



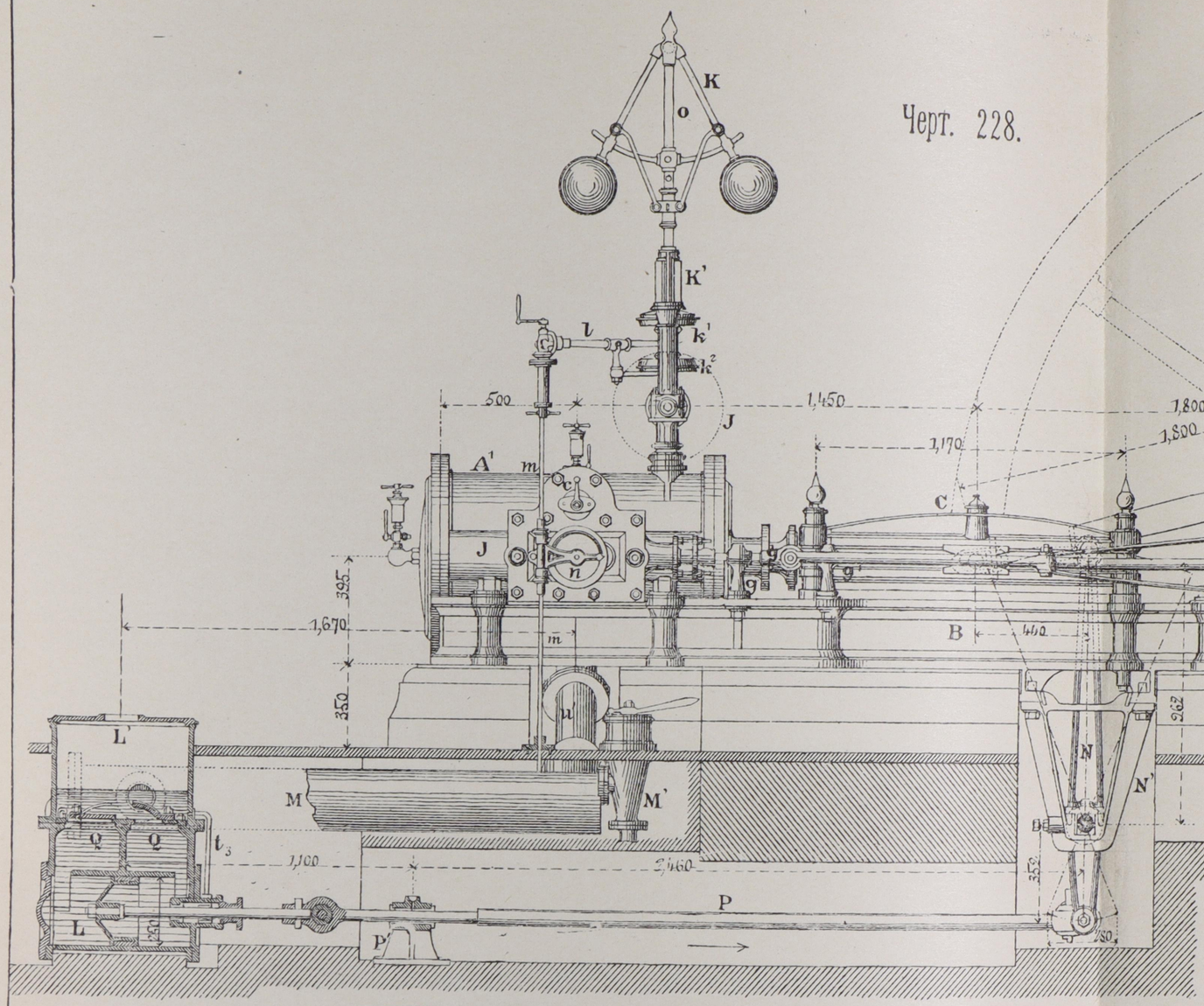
Черт. 226



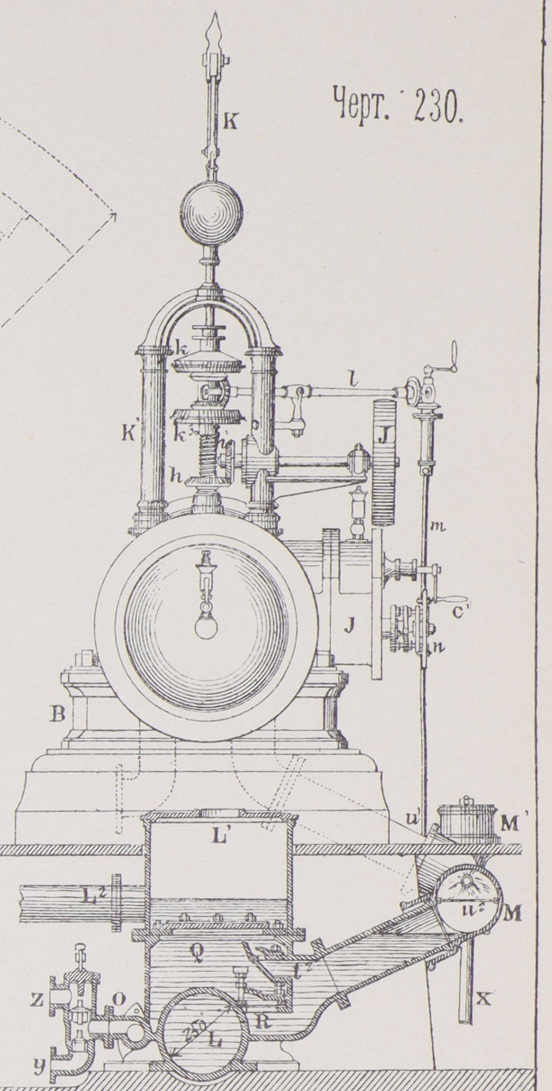
Черт. 224



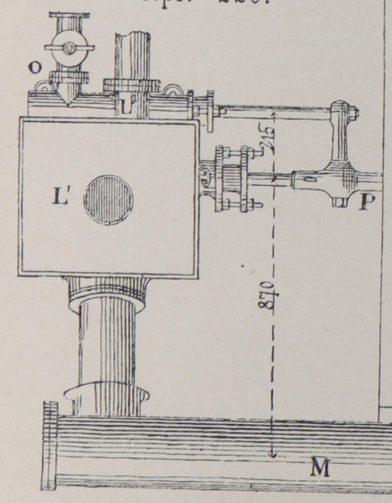
Черт. 228.

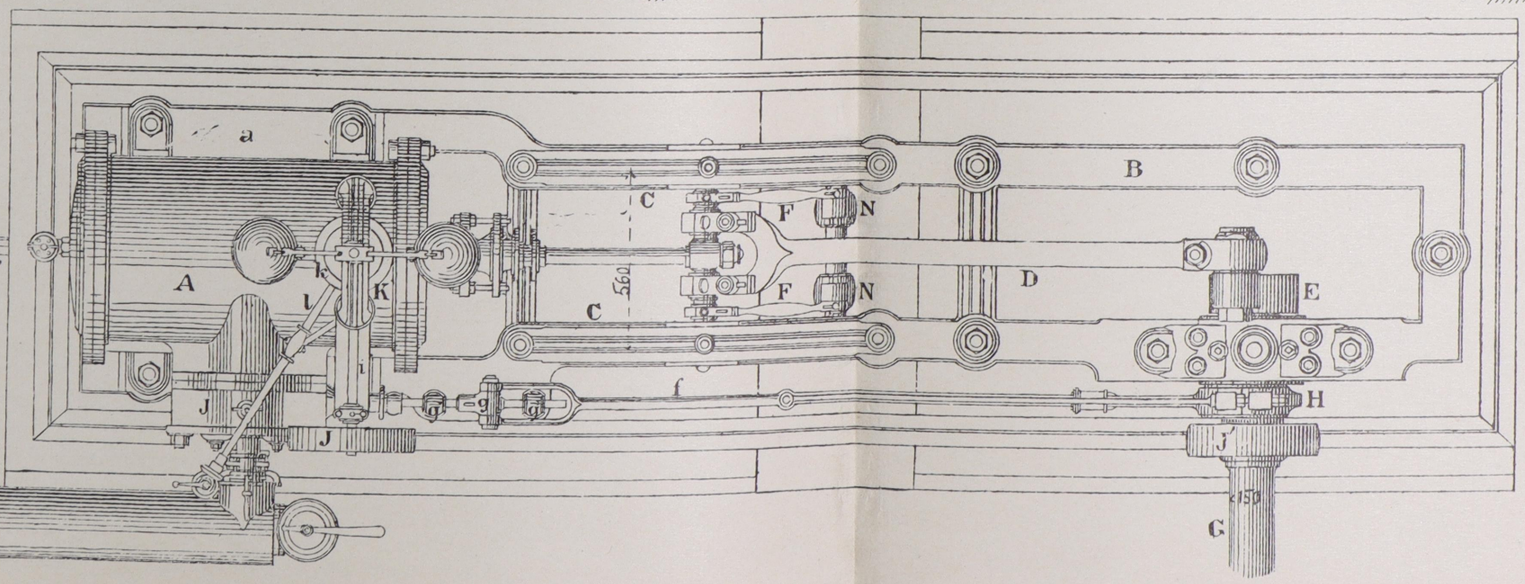


Черт. 230.

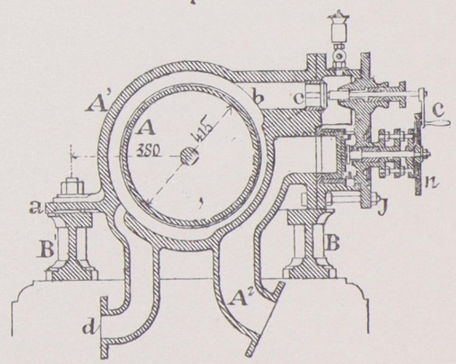


Черт. 229.



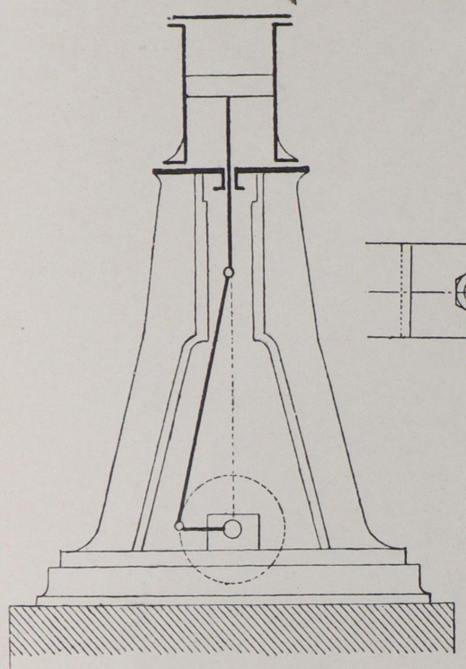


Черт. 231.

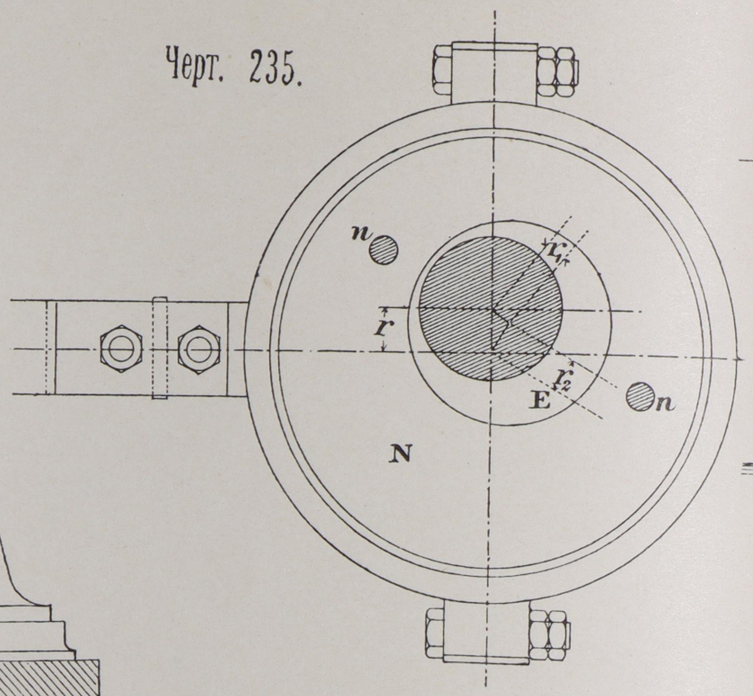


Масштабъ 1/25 *н. в.*

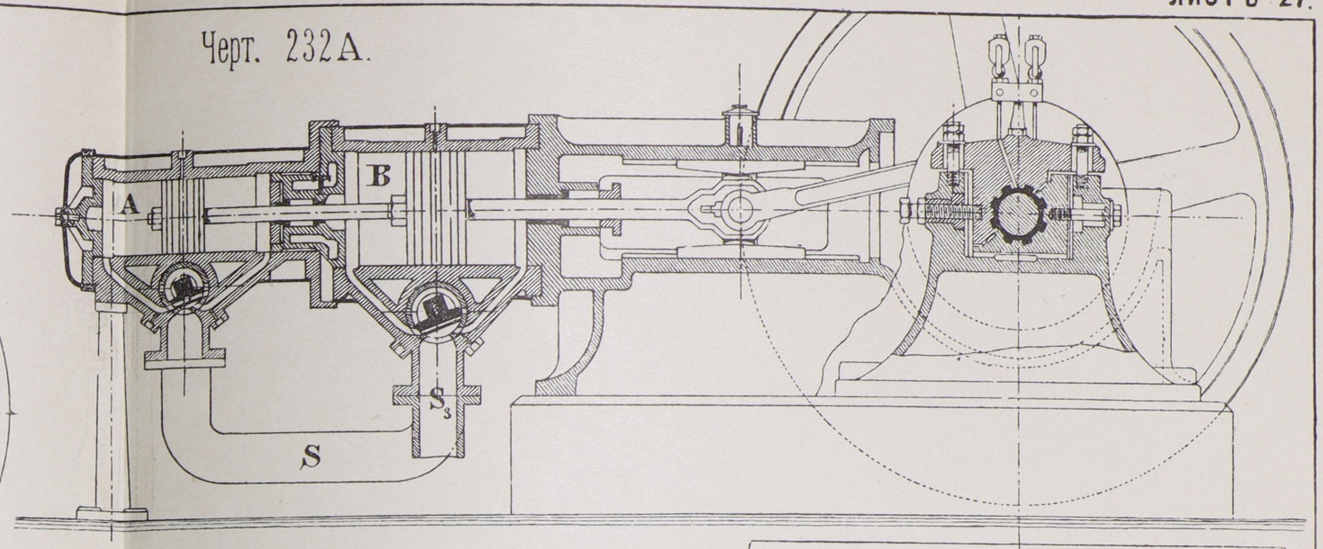
Черт. 216. 217.



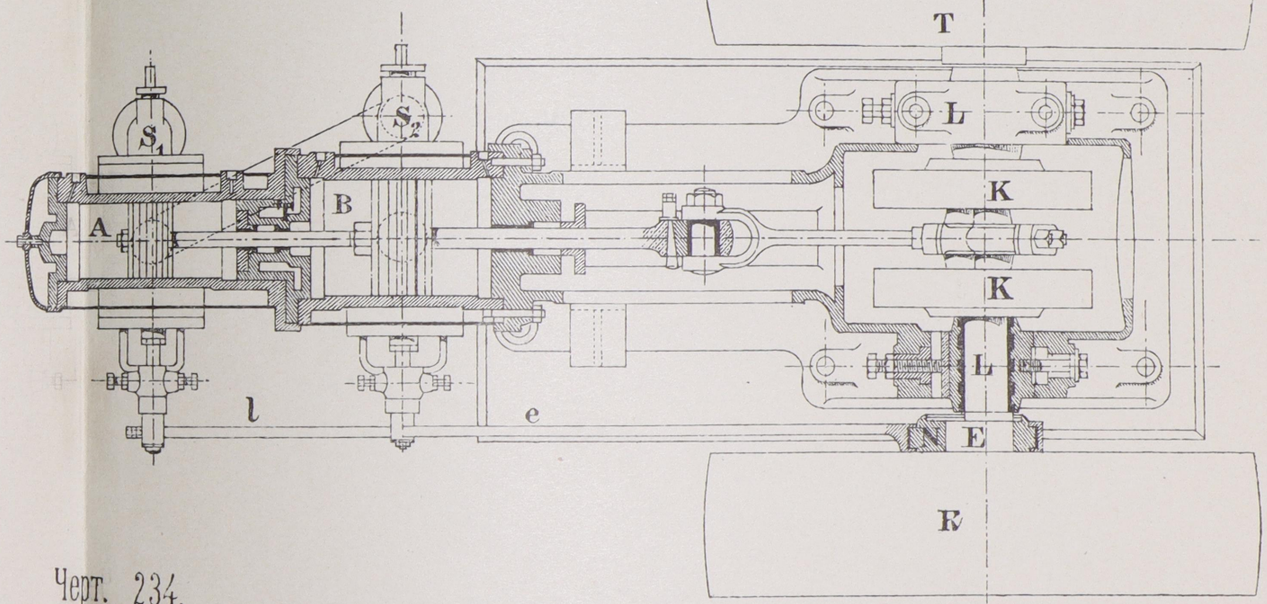
Черт. 235.



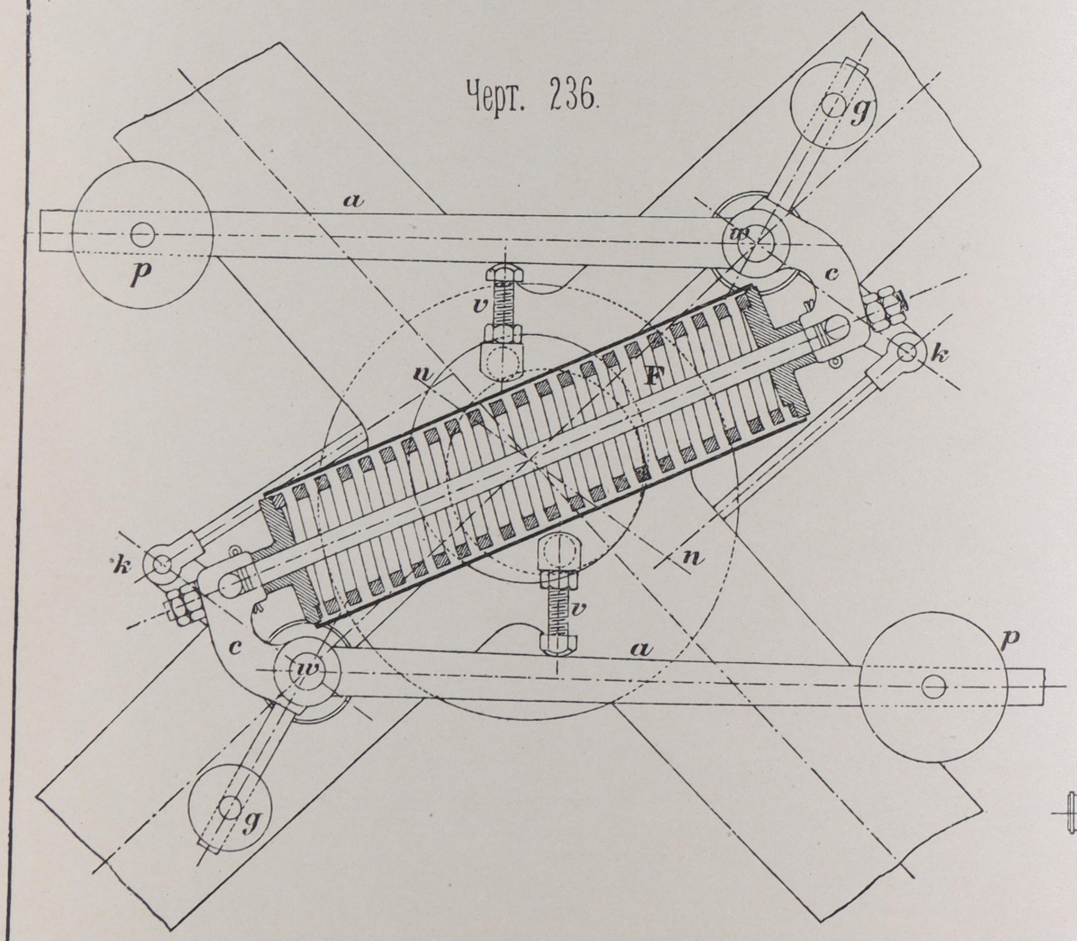
Черт. 232 A.



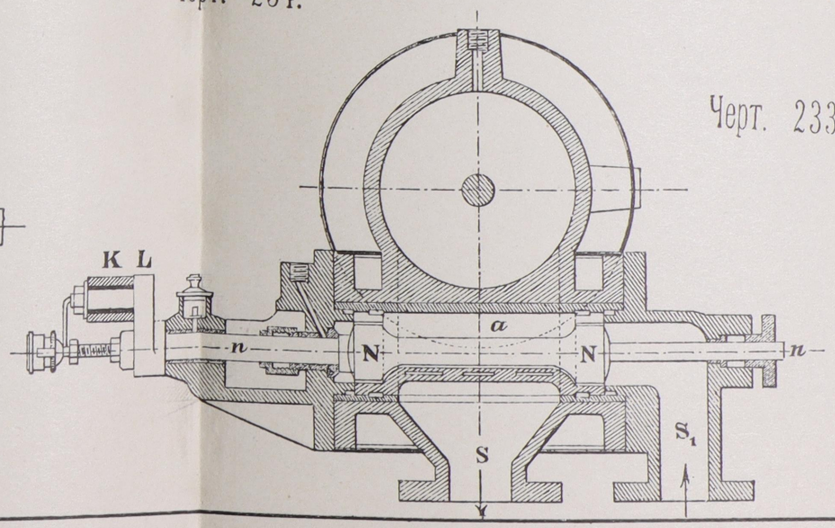
Черт. 232 B.



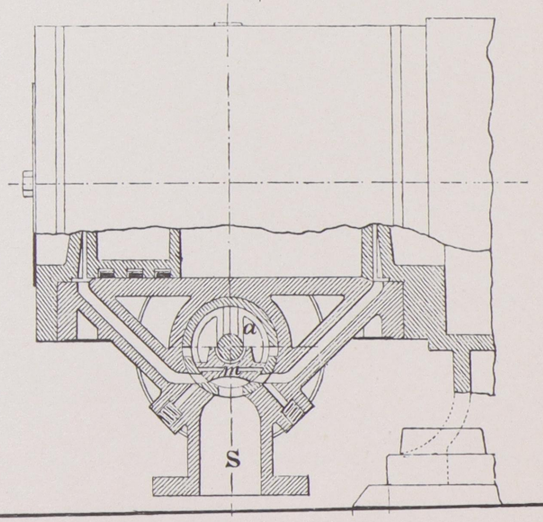
Черт. 236.



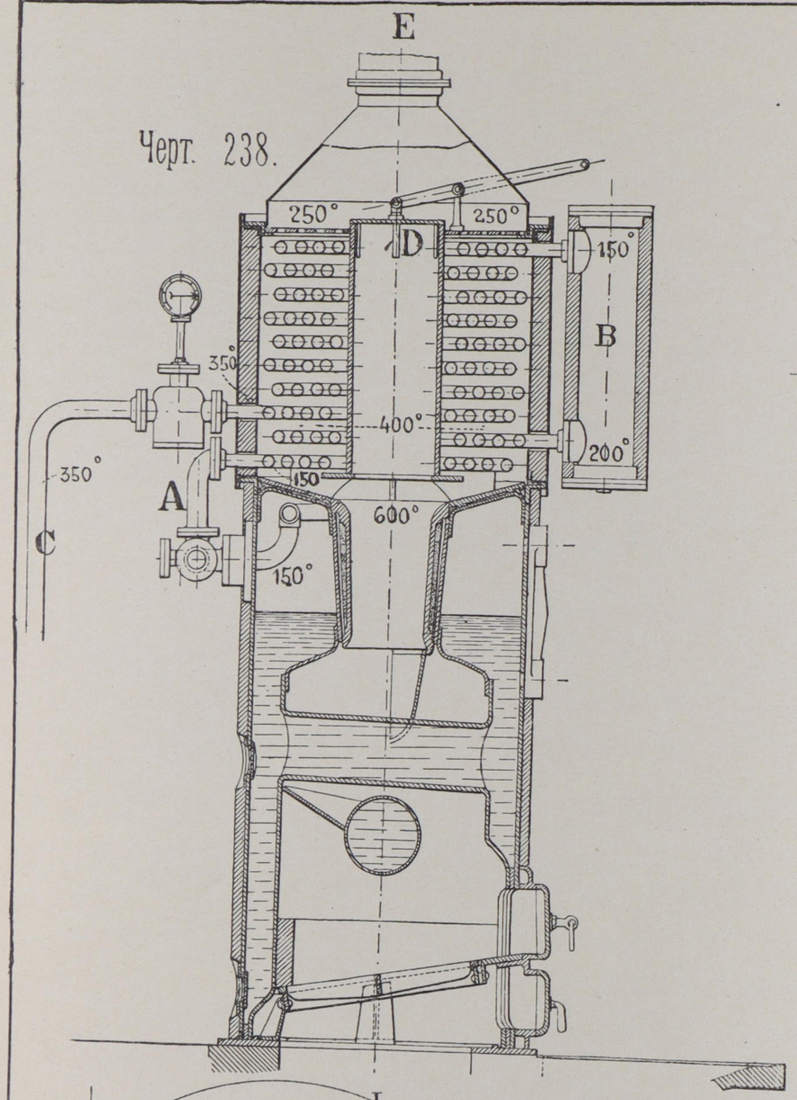
Черт. 234.



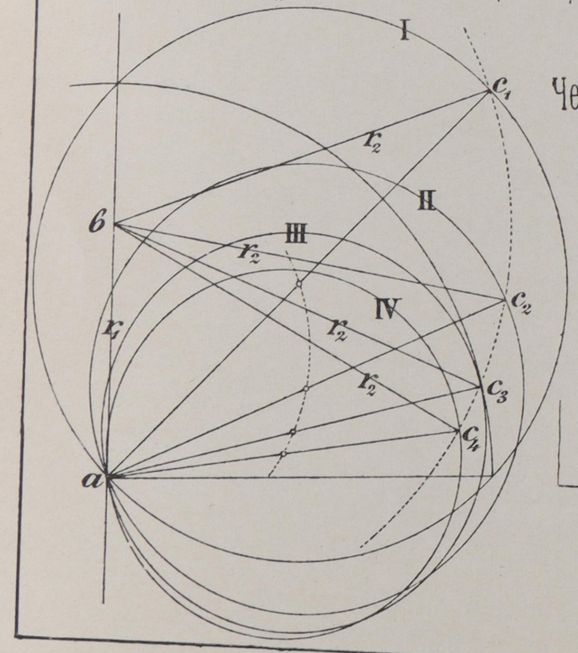
Черт. 233.



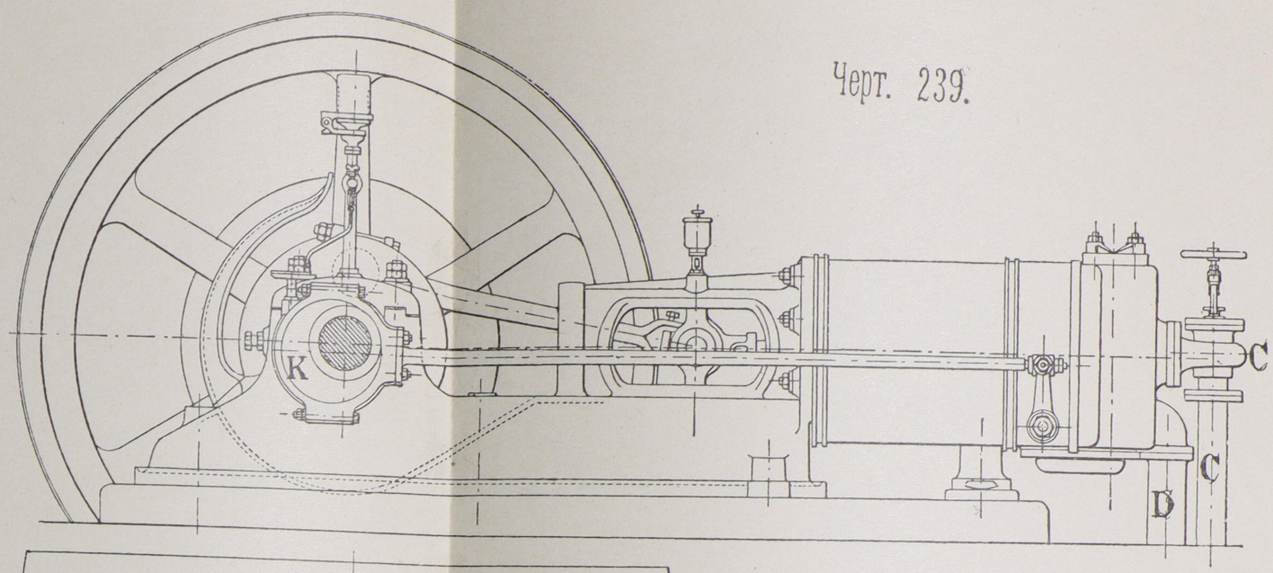
Черт. 238.



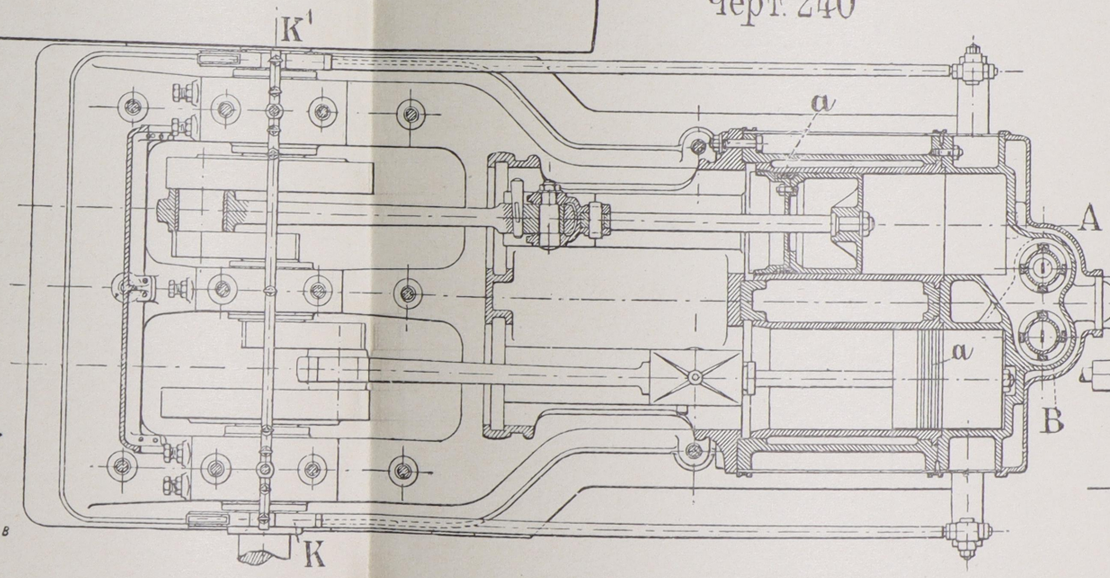
Черт. 237.



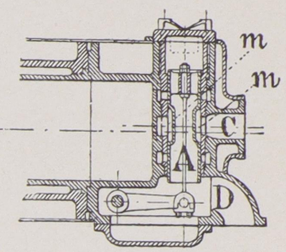
Черт. 239.



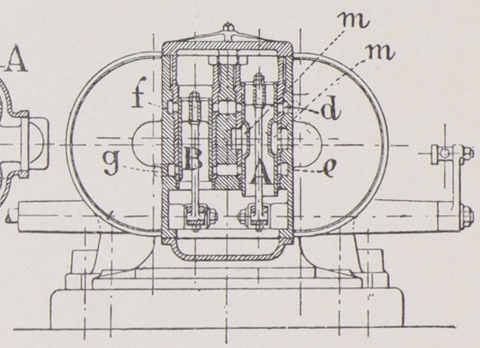
Черт. 240



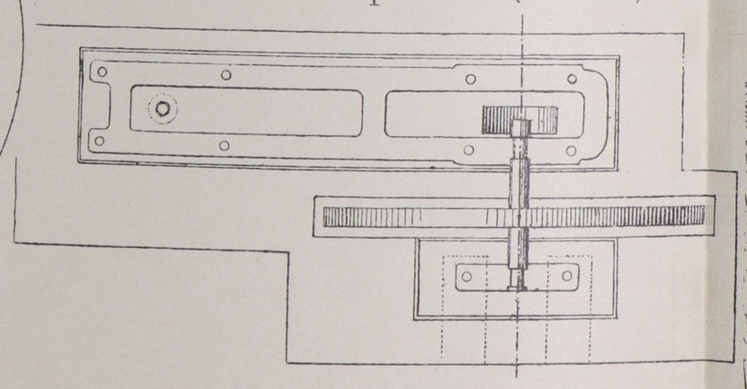
Черт. 242.



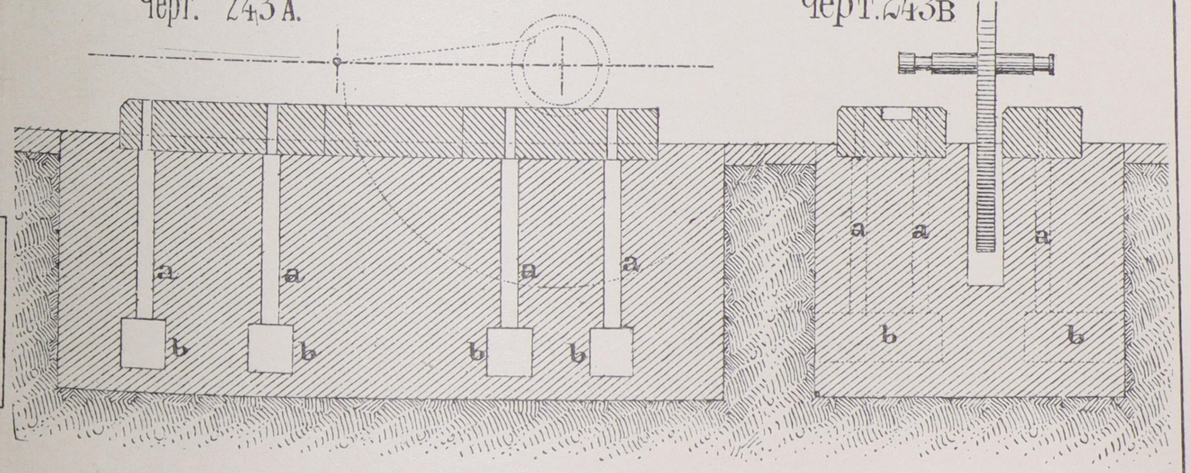
Черт. 241.



Черт. 243c (планъ)

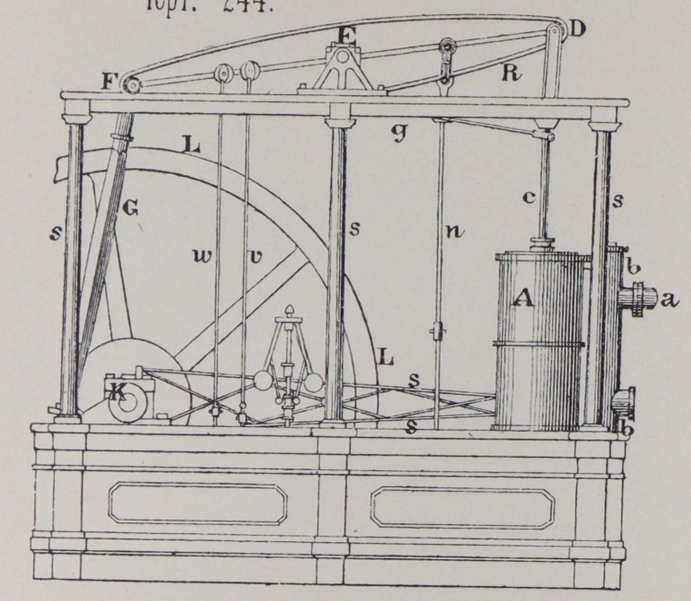


Черт. 243 A.

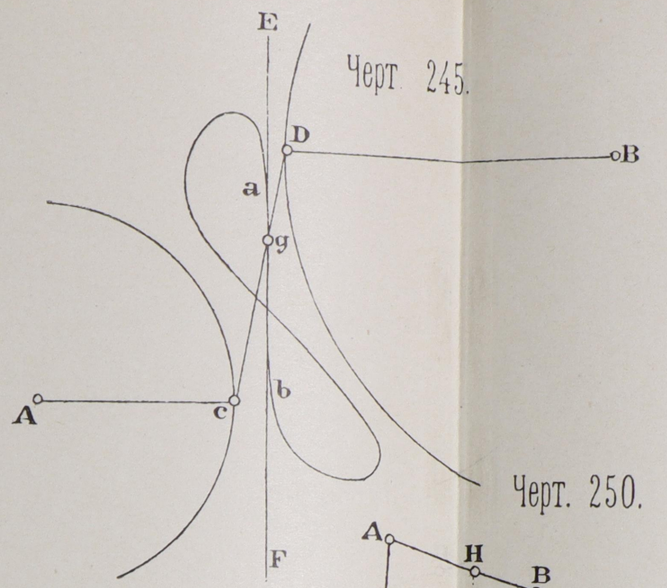


Черт. 243B

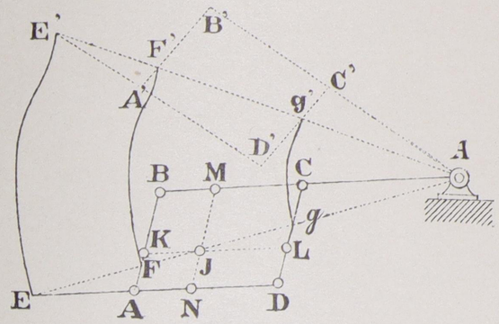
Черт. 244.



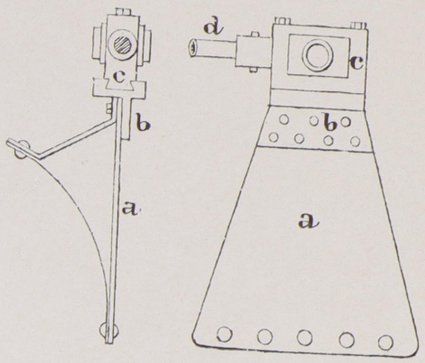
Черт. 245.



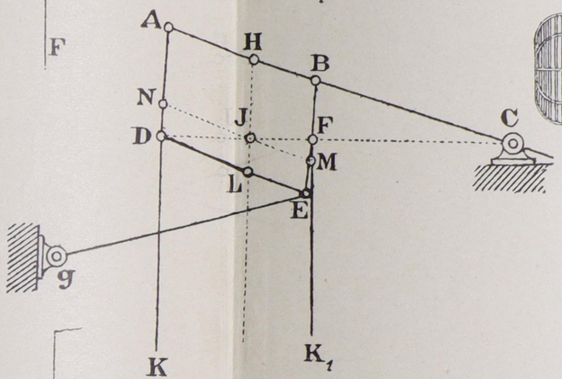
Черт. 249.



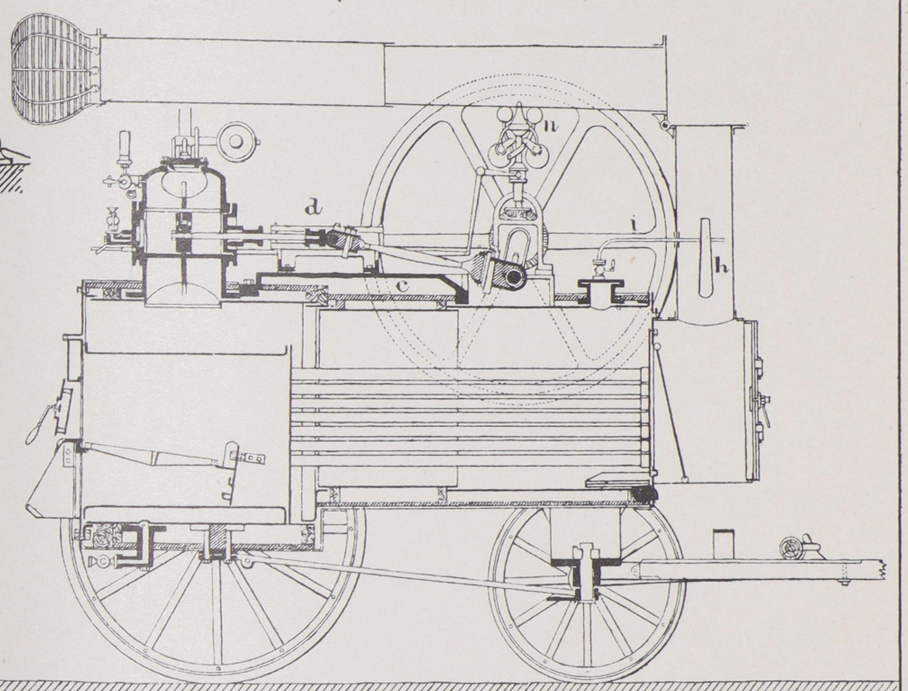
Черт. 248.



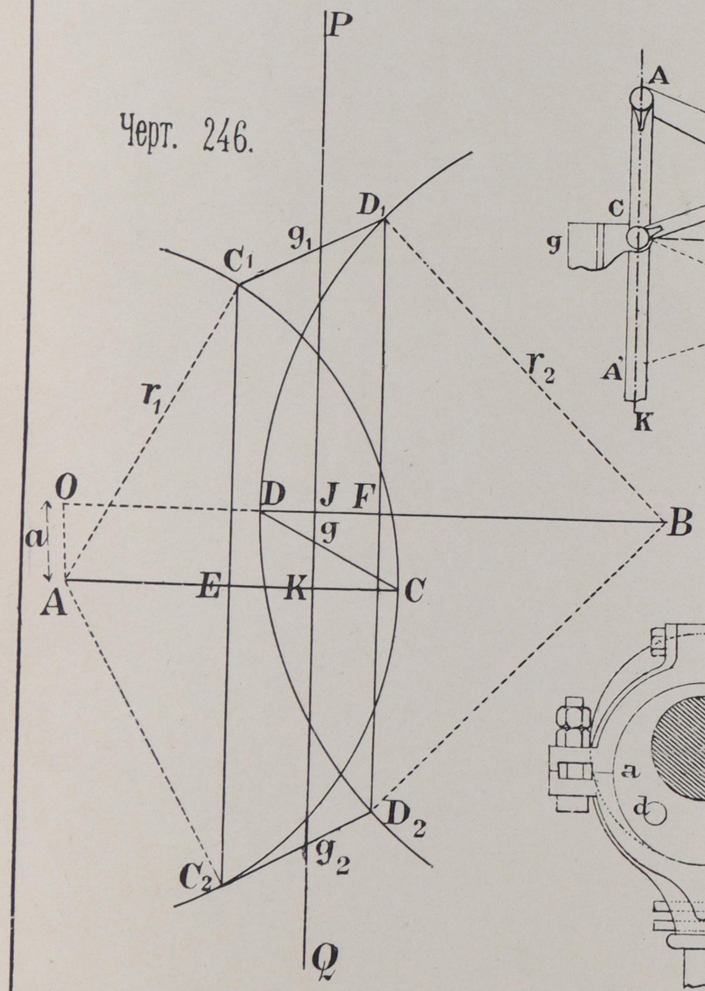
Черт. 250.



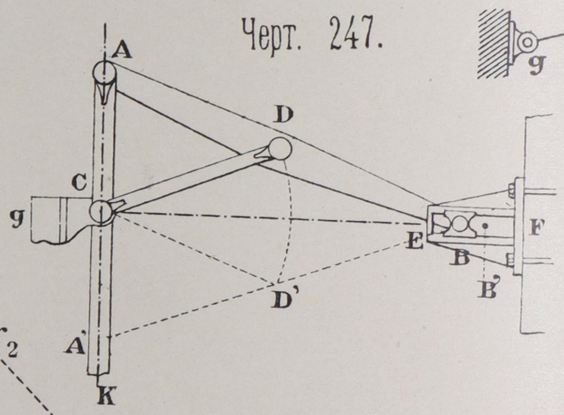
Черт. 253. А.



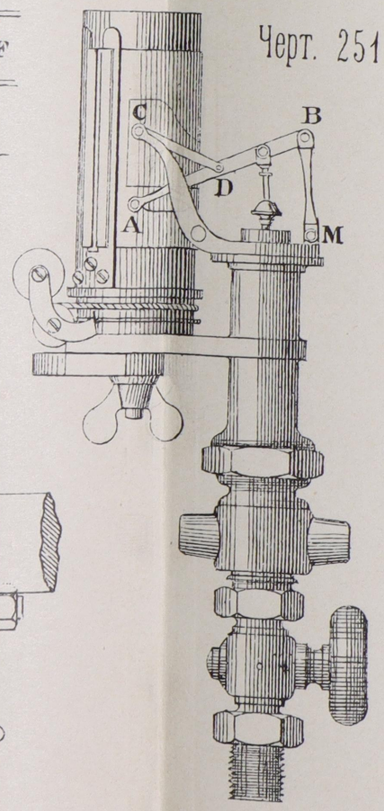
Черт. 246.



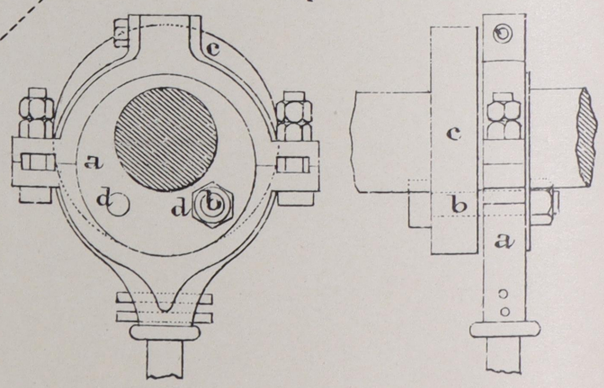
Черт. 247.



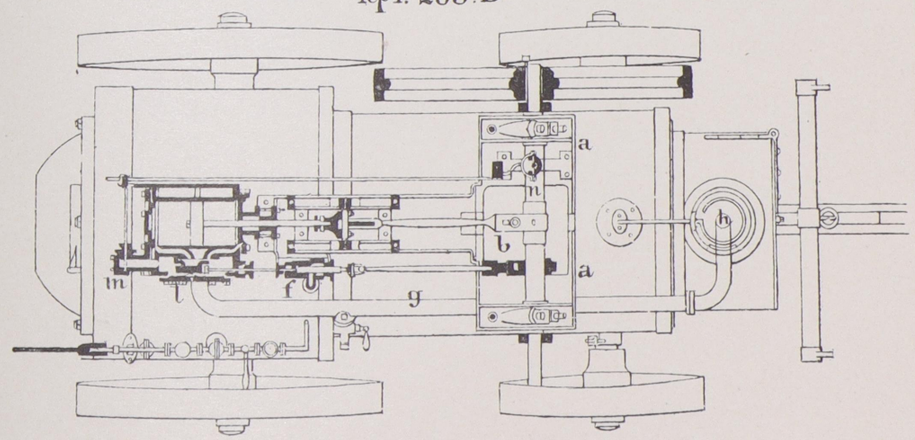
Черт. 251.



Черт. 252.

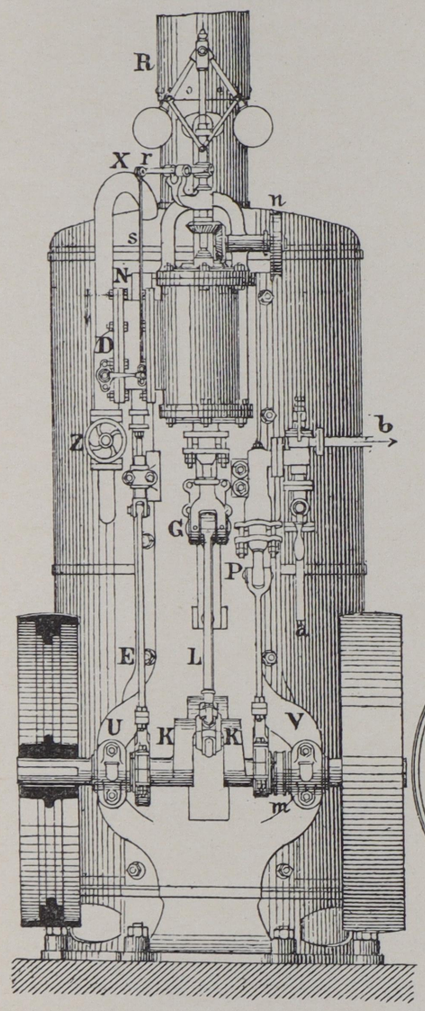


Черт. 253. В

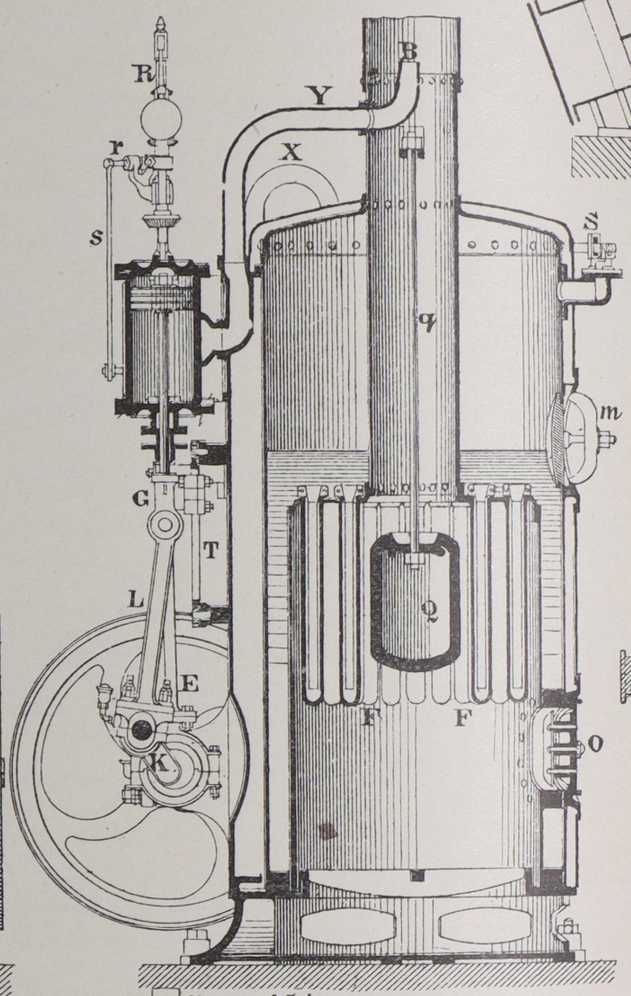


Масштабъ 1/36 *нат. вел.*

Черт 254A.

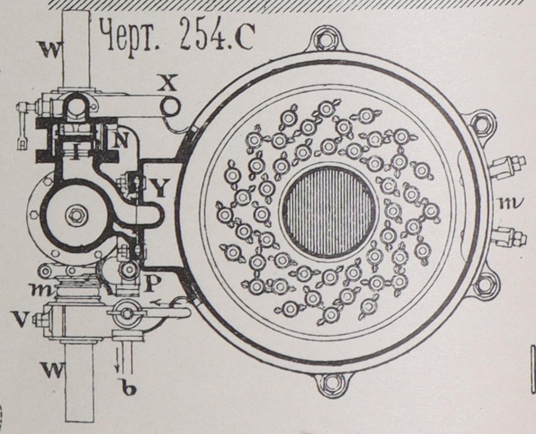


Черт. 254B.

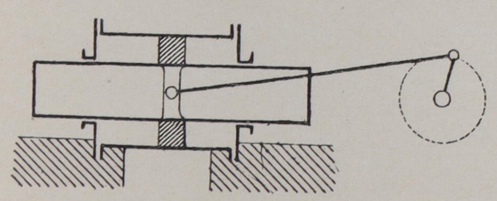


Масштабъ 1/25 нат. вел.

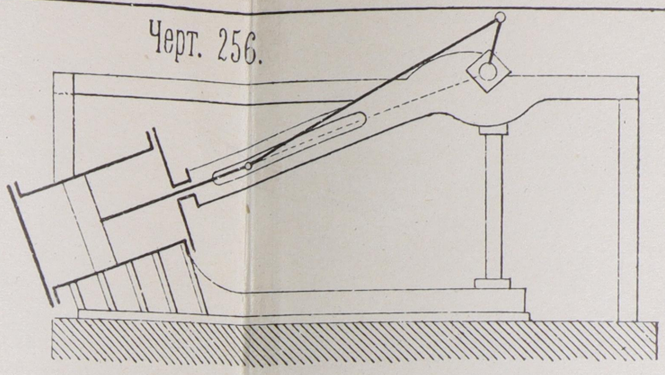
Черт. 254.C



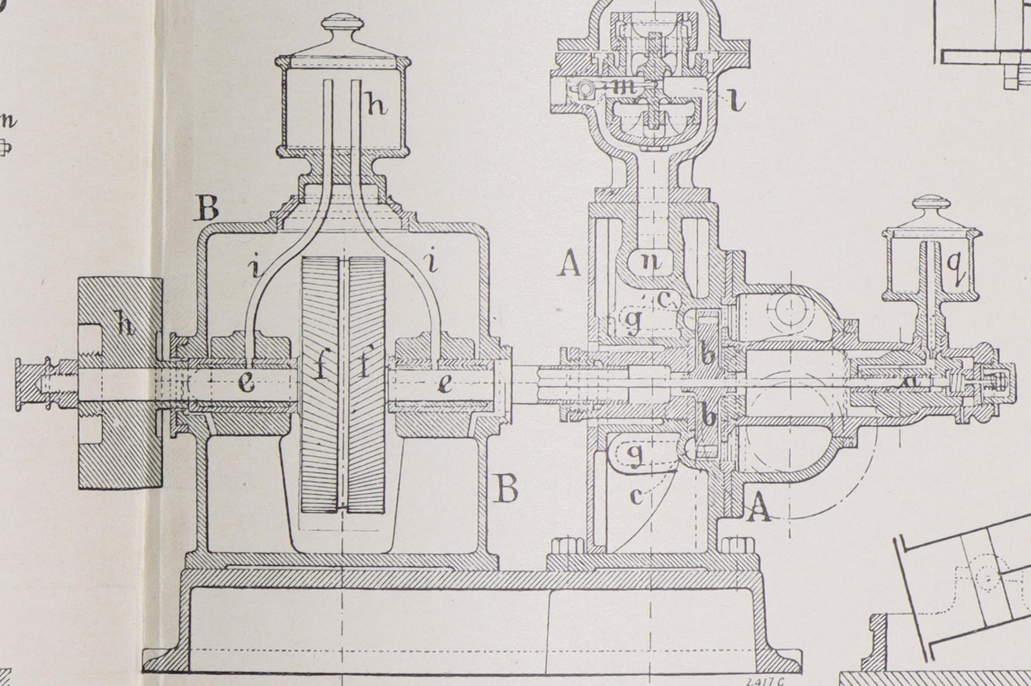
Черт. 257



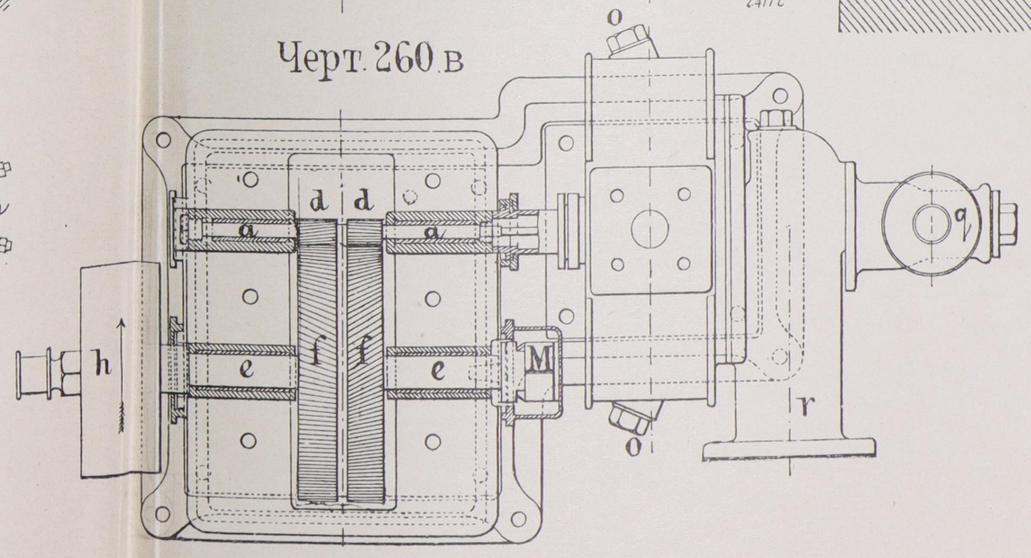
Черт. 256.



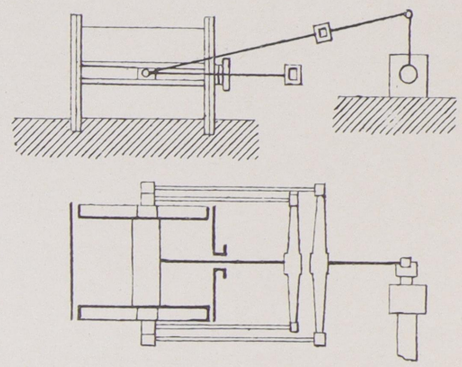
Черт. 260A.



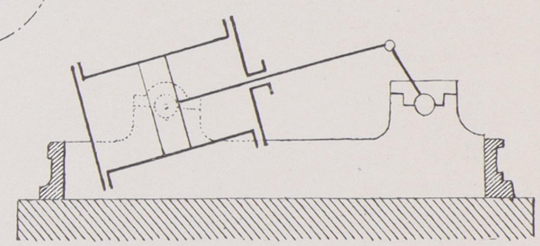
Черт. 260B.



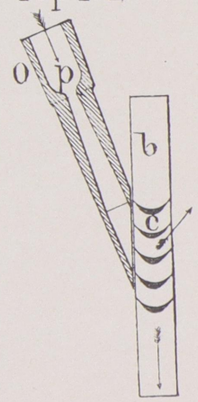
Черт. 258



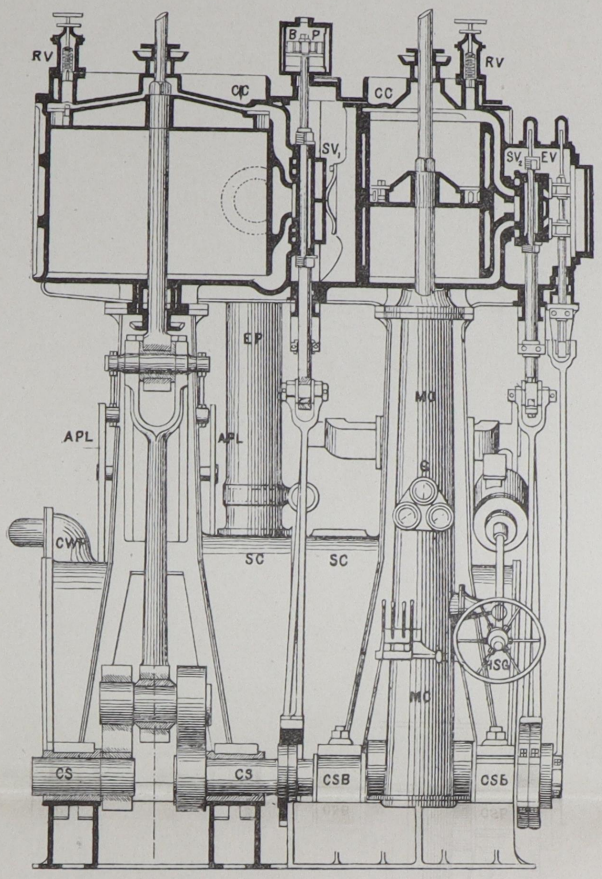
Черт. 255.



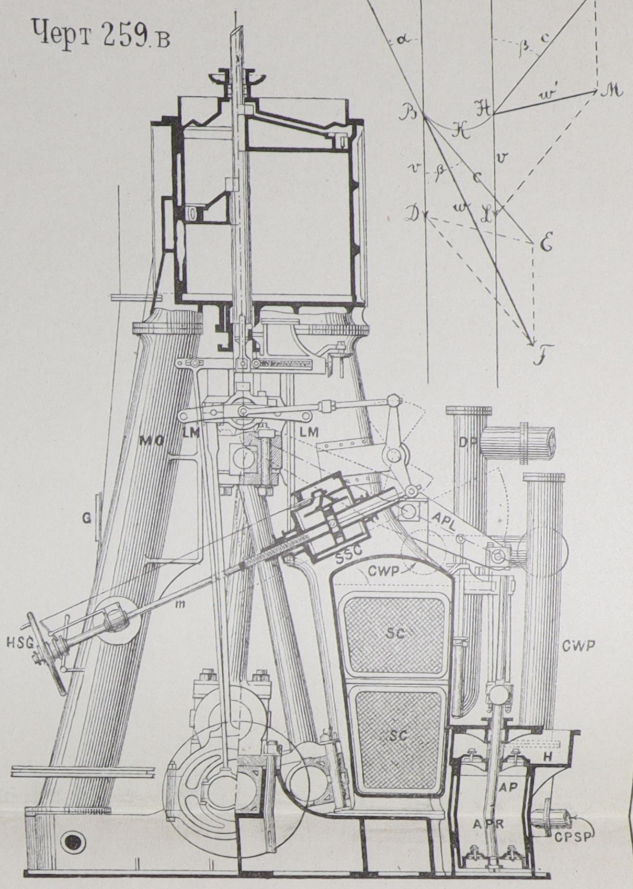
Черт. 261.



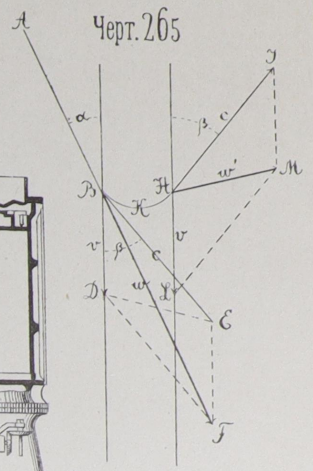
Черт. 259 A.



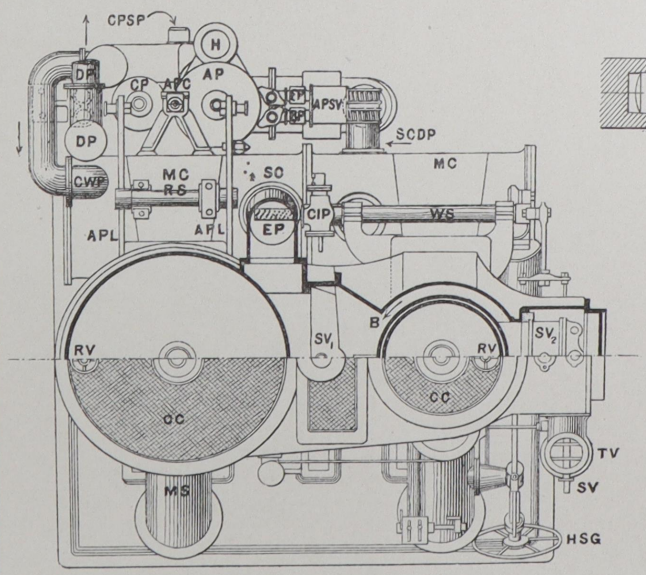
Черт. 259 B



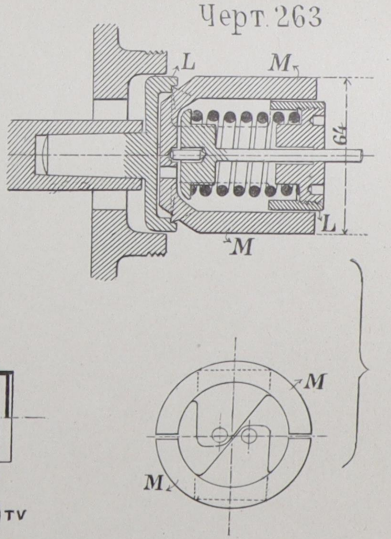
Черт. 265



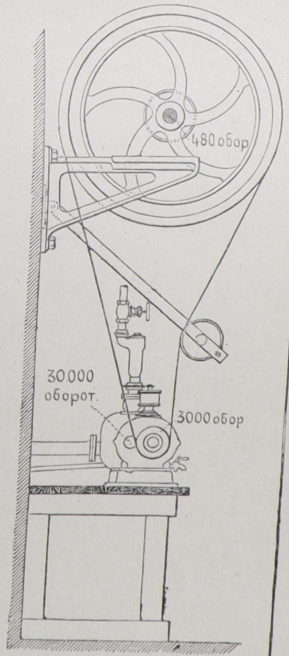
Черт. 259 C



Черт. 263



Черт. 264



Черт 262

