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Die Hydraulik und die hydraulischen Motoren

Meissner, Georg

Jena, 1878-1880

ETH-Bibliothek Zürich

Persistent Link: <https://doi.org/10.3931/e-rara-106882>

[Tafeln zum ersten Band. Die Hydraulik.]

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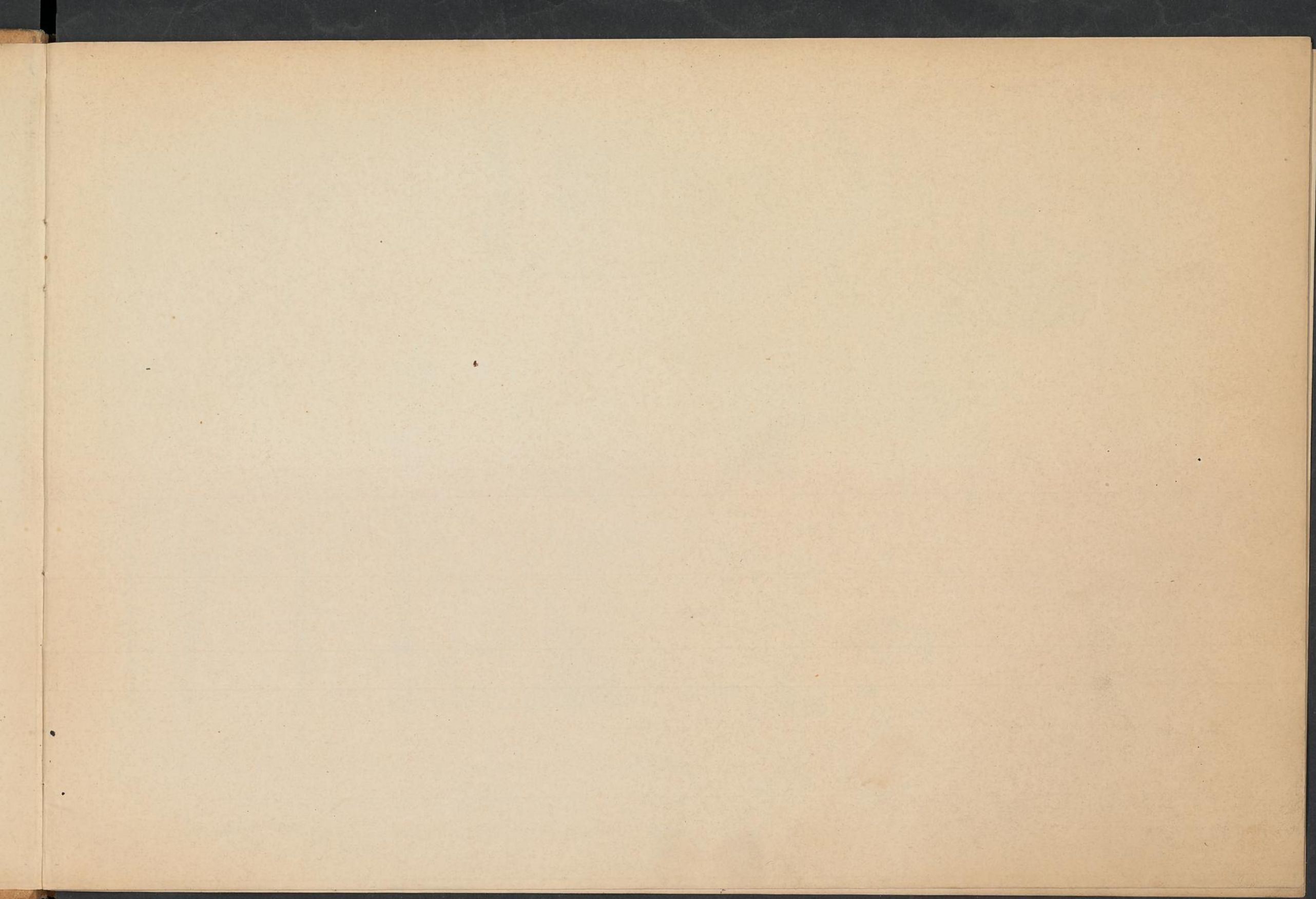
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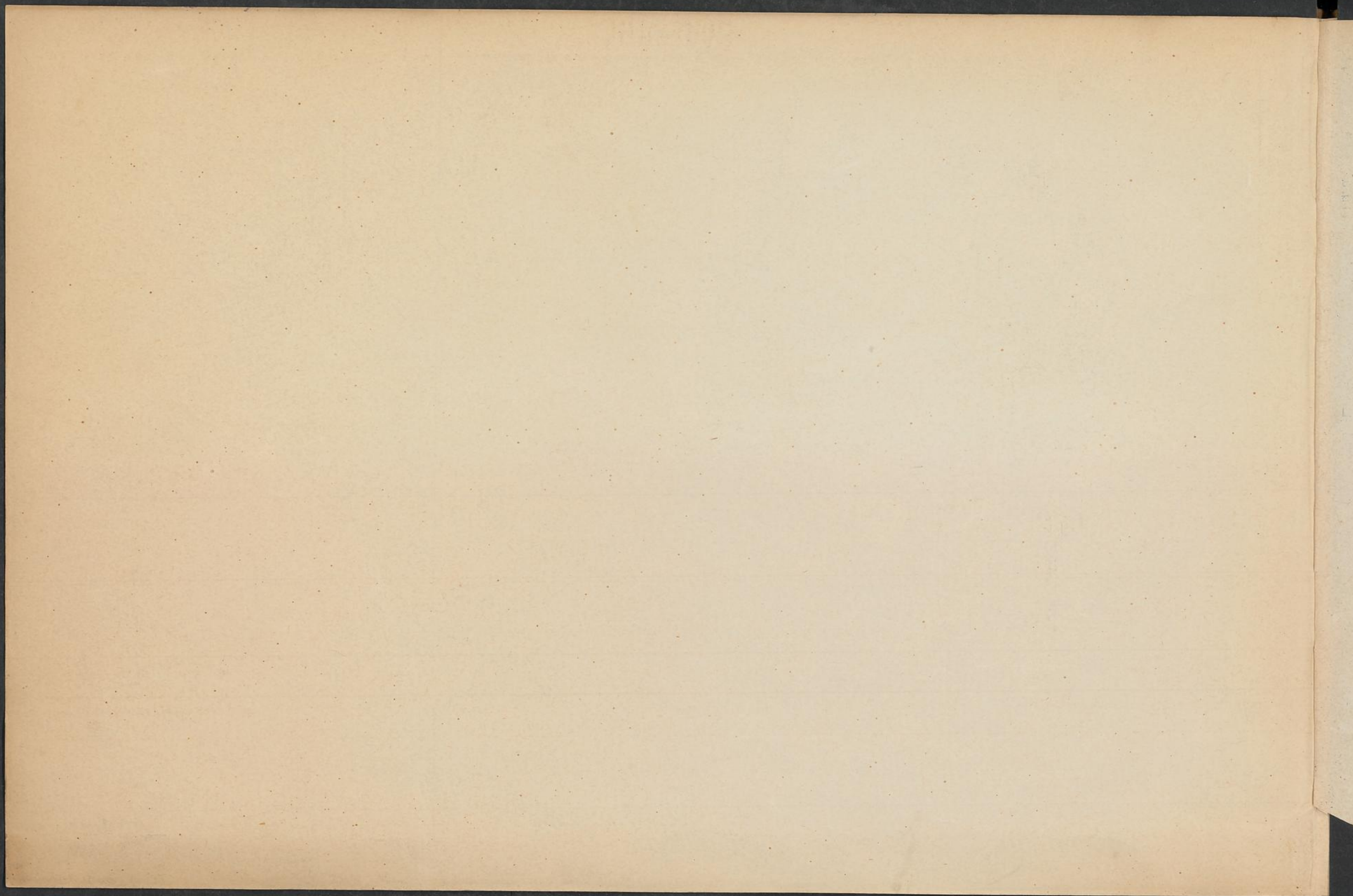


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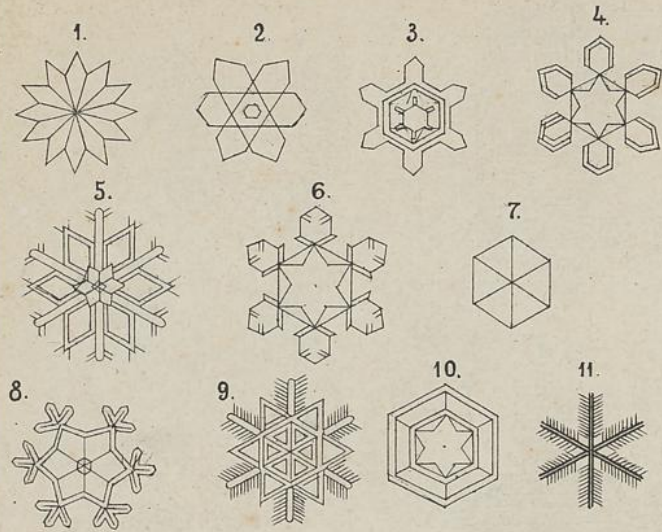


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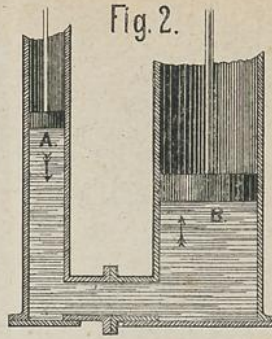


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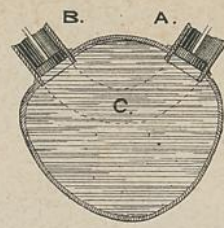


Fig. 3.



Fig. 6.

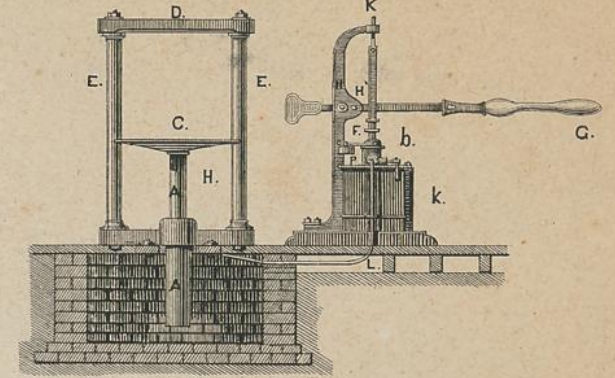


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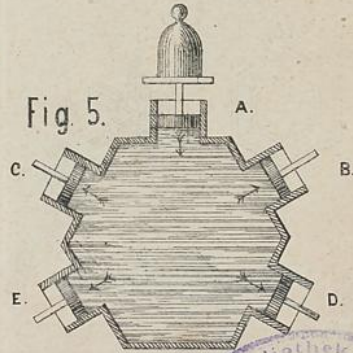


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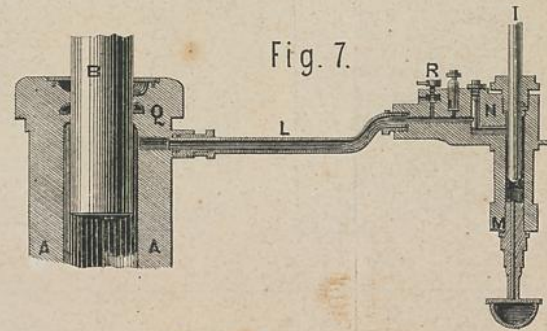


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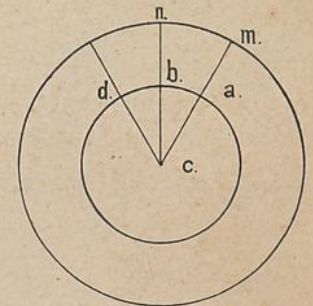


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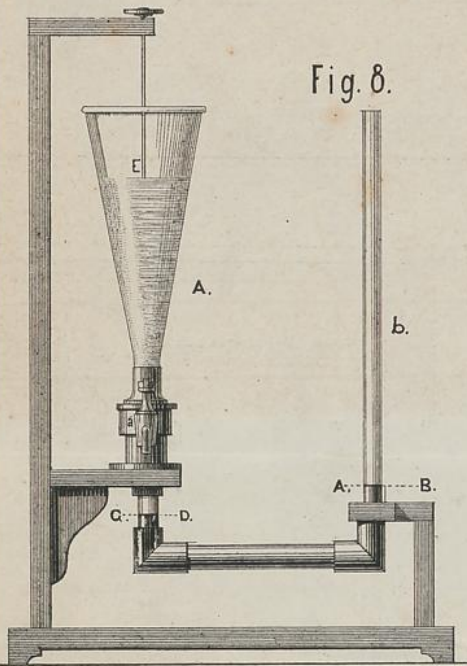


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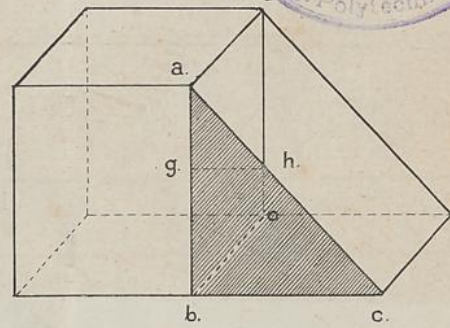


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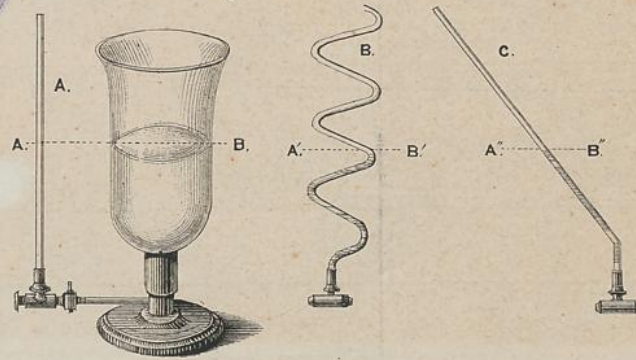


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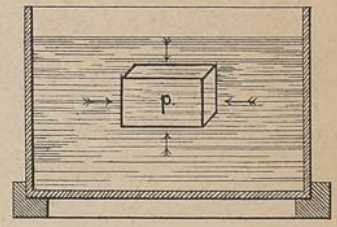


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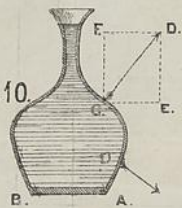


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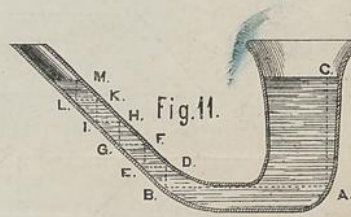


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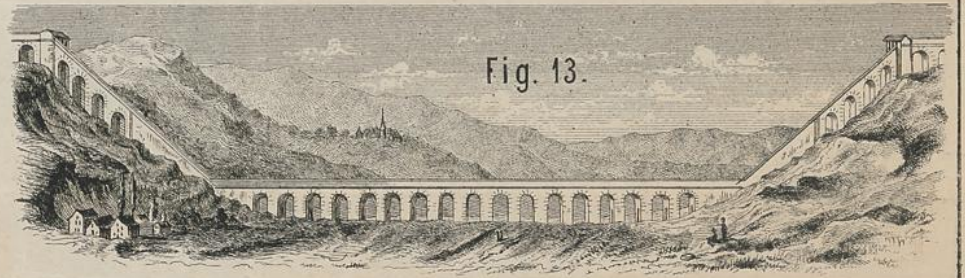


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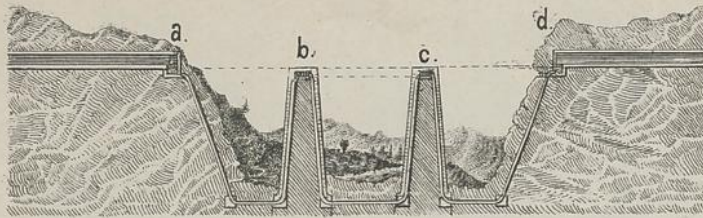


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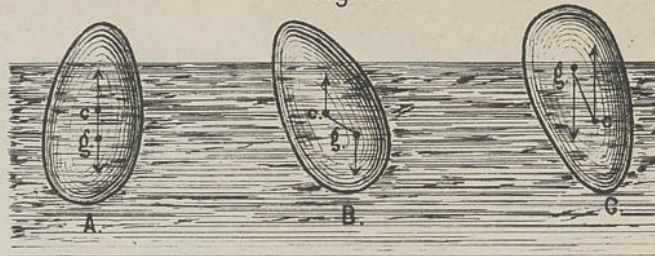


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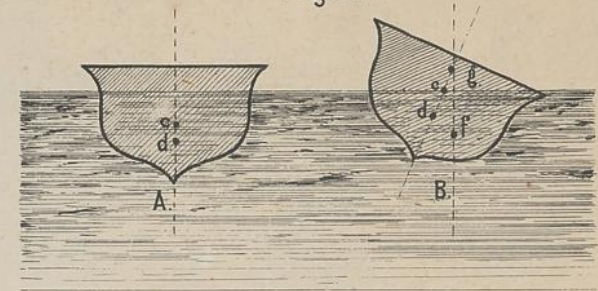


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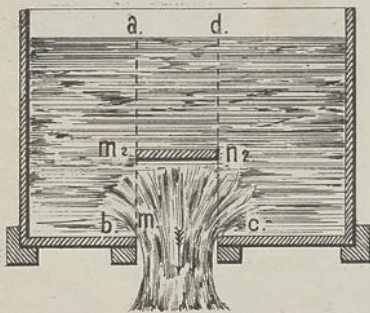


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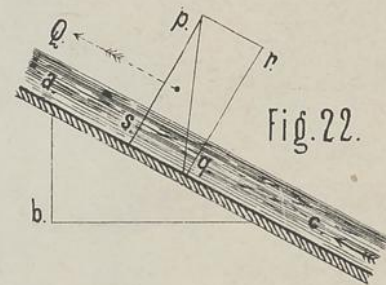
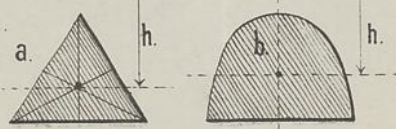


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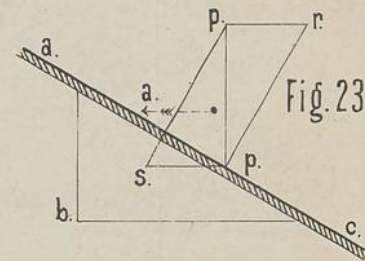


Fig. 23.

Fig. 18(a).

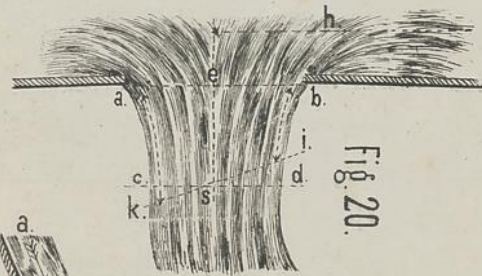


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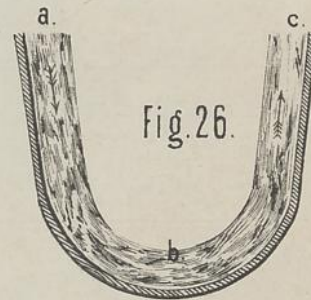


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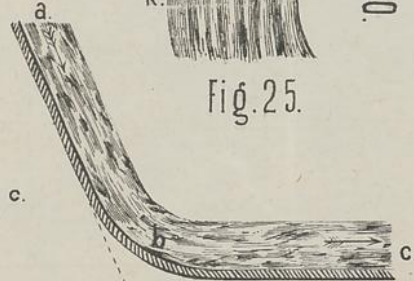


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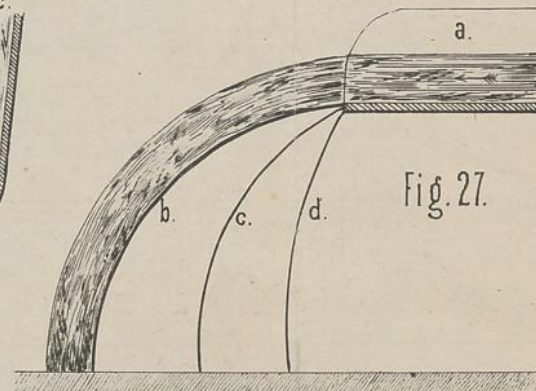


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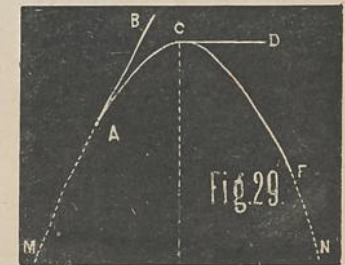


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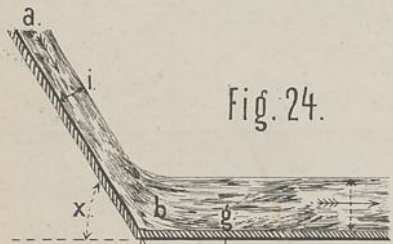


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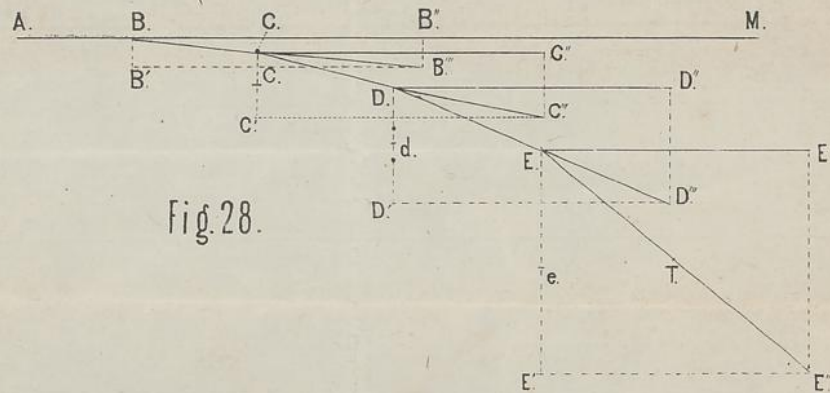


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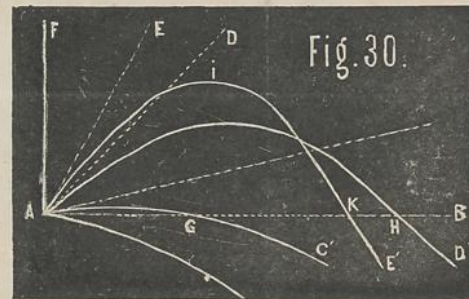


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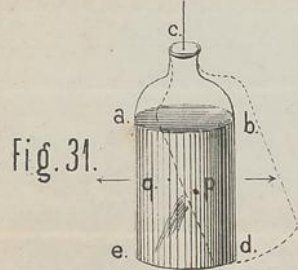


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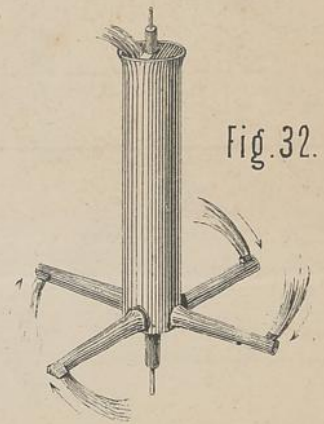


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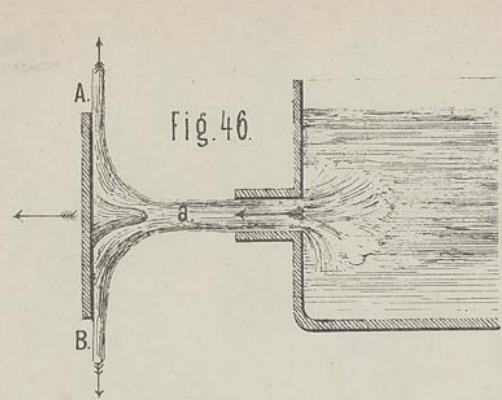


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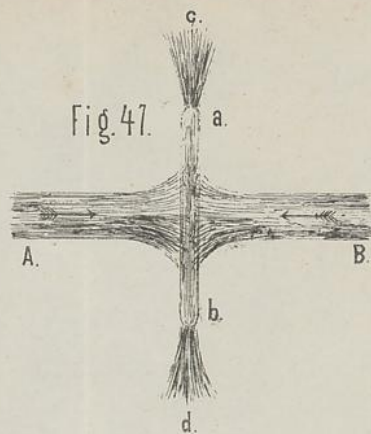


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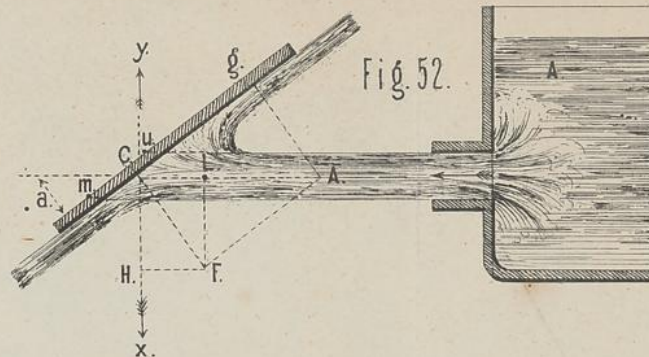


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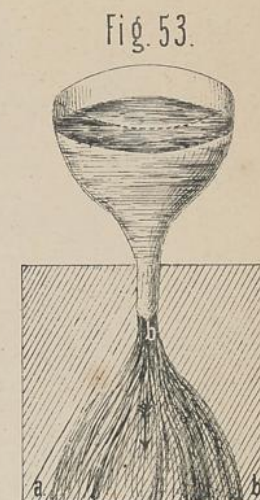


Fig. 53.

Fig. 48.

Fig. 51.

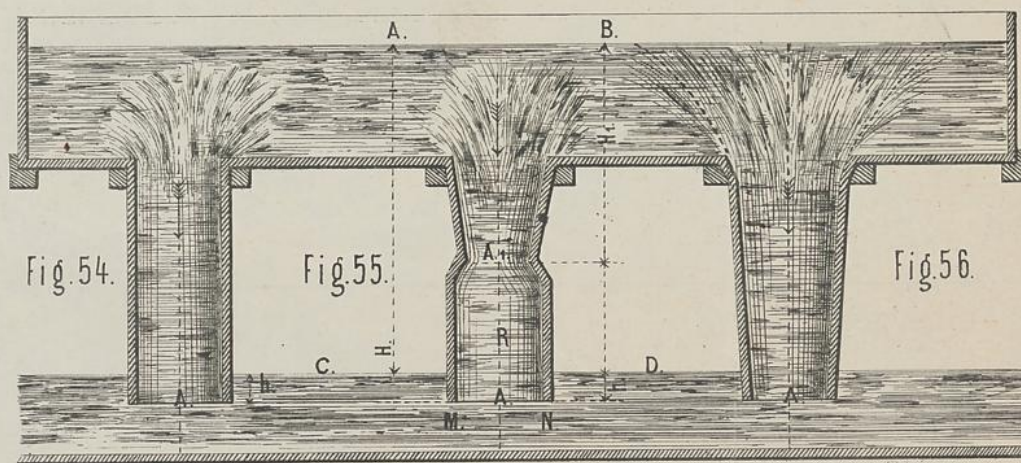
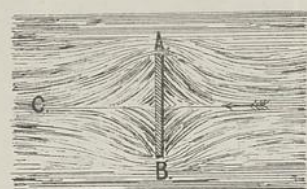
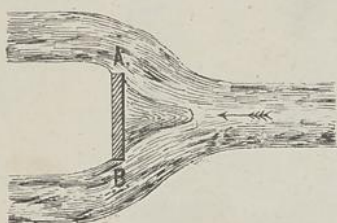


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Fig. 55.

Fig. 56.

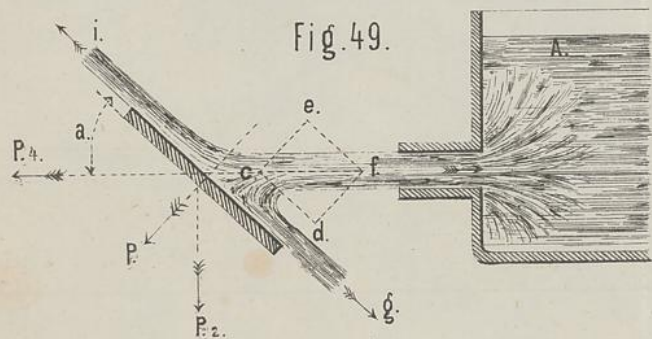


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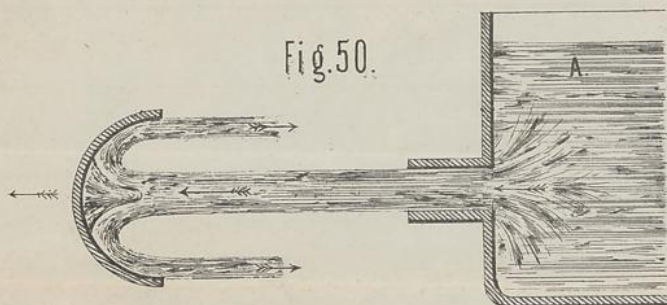


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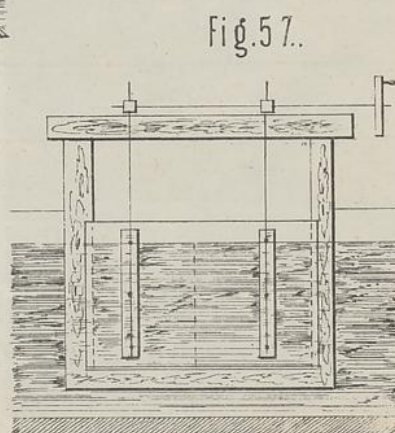


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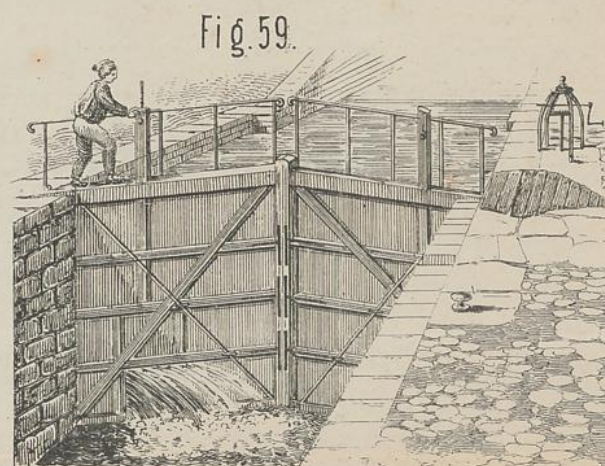


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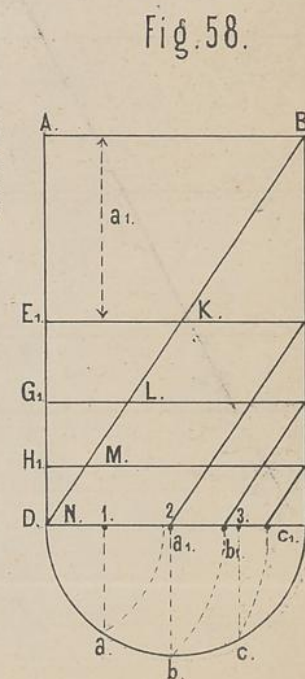


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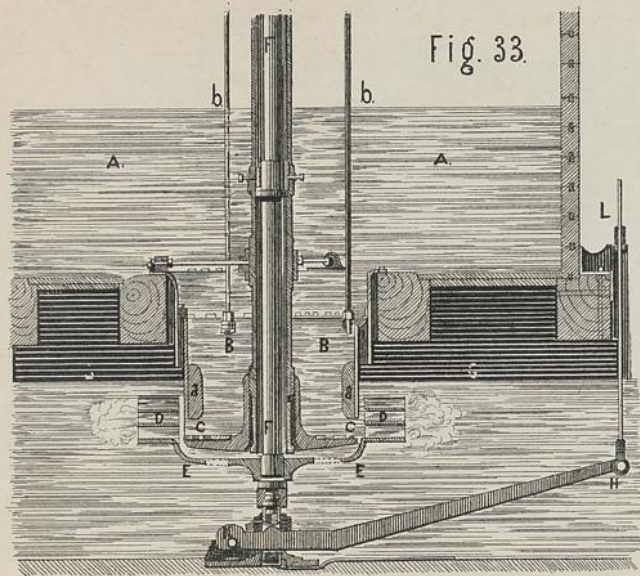


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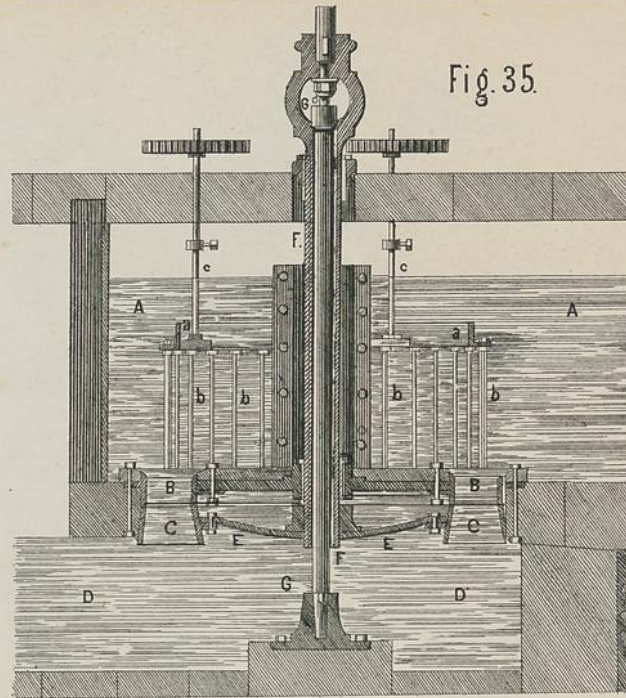


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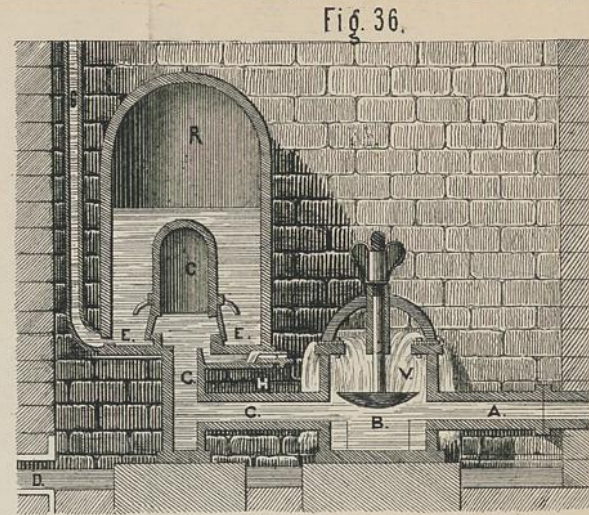


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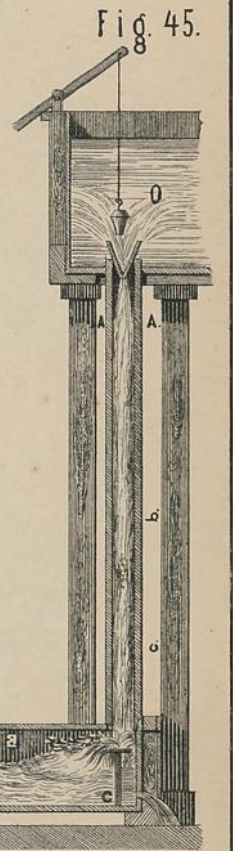


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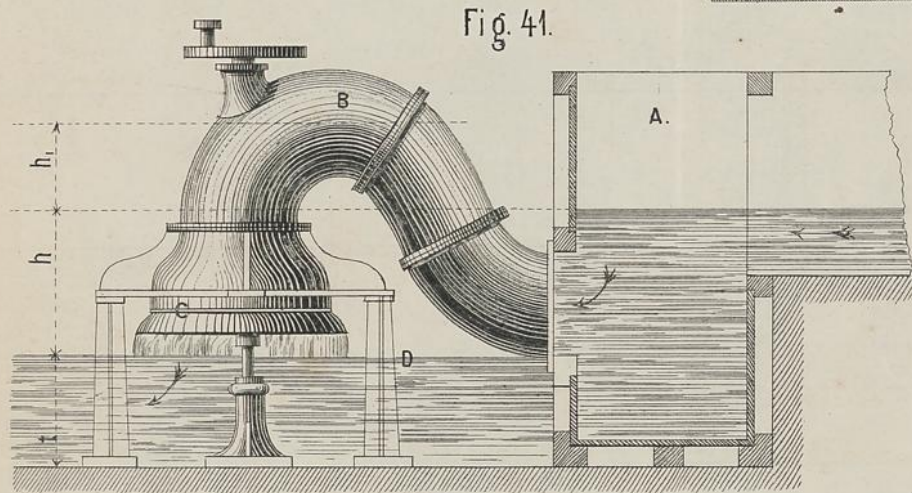


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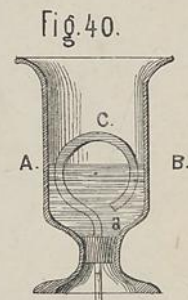


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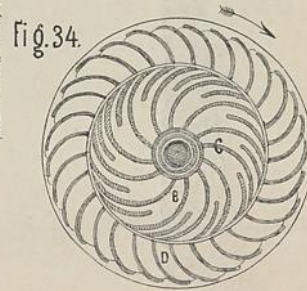


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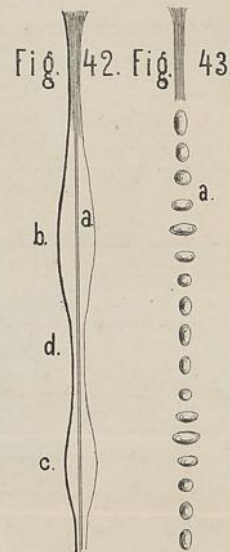


Fig. 42. Fig. 43.

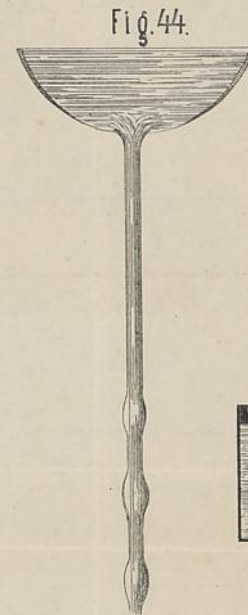


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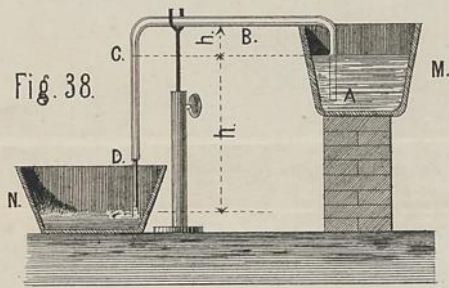


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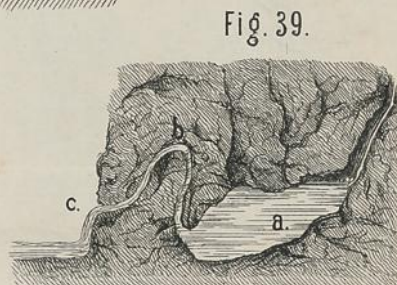


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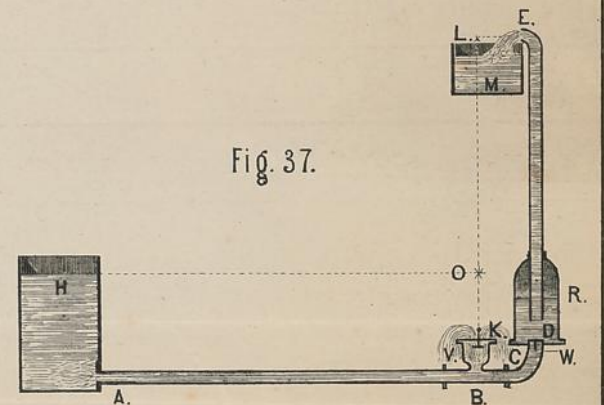


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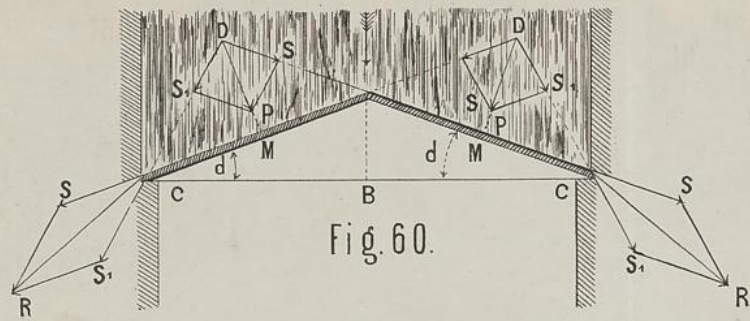


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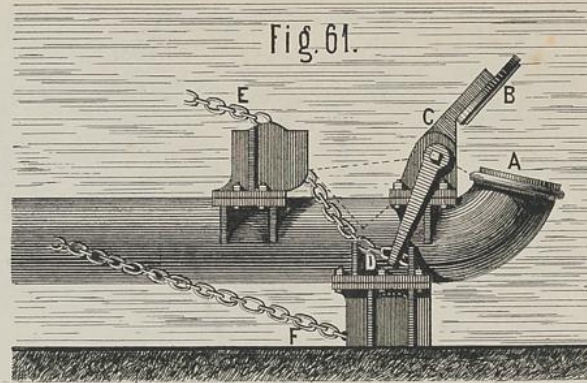


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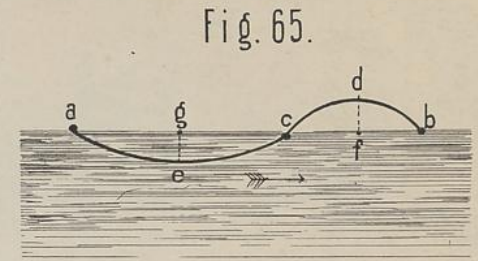


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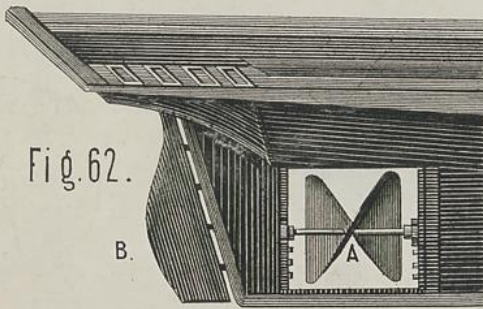


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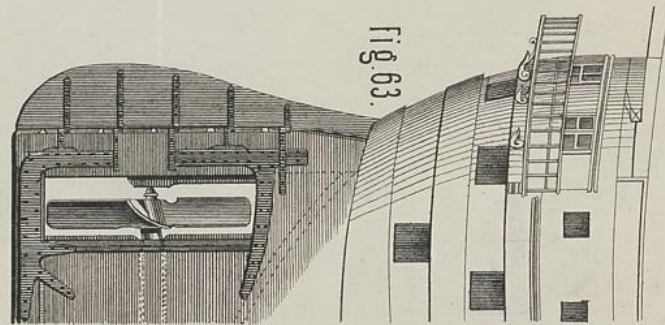


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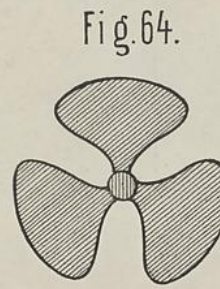


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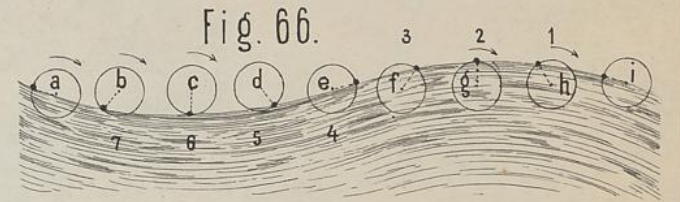


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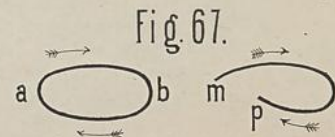


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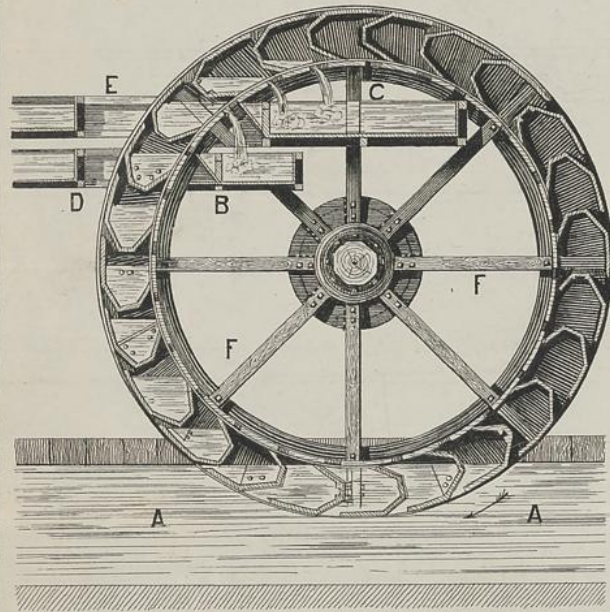


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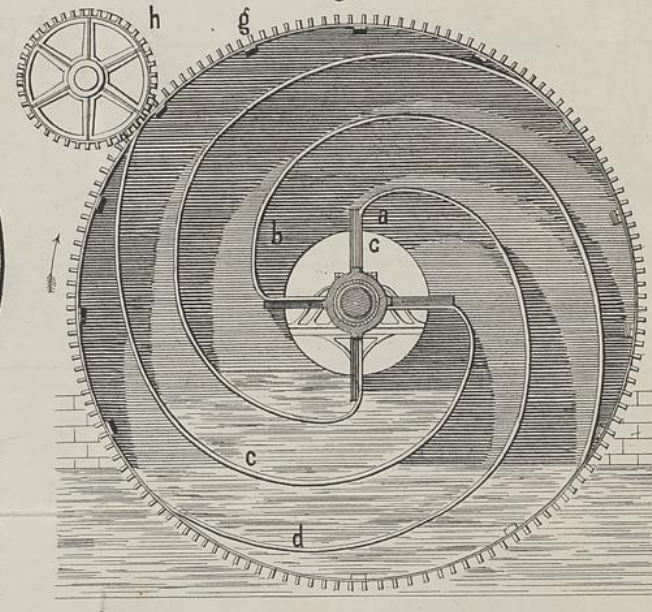


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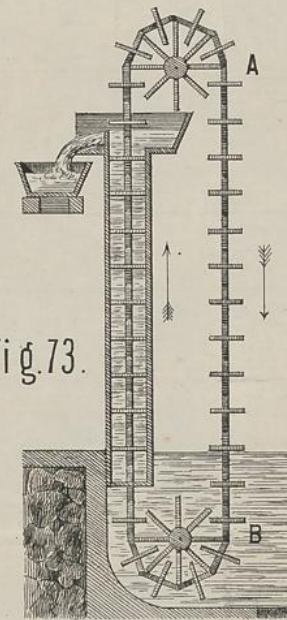


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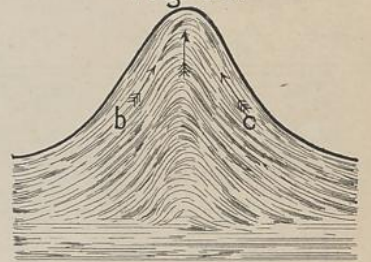


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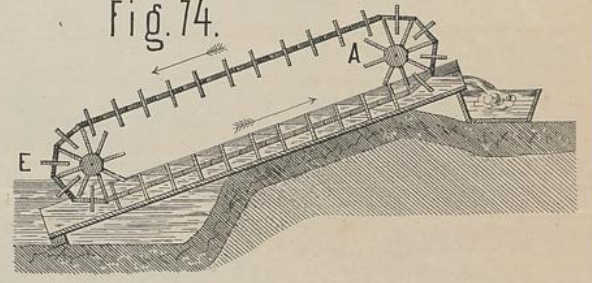


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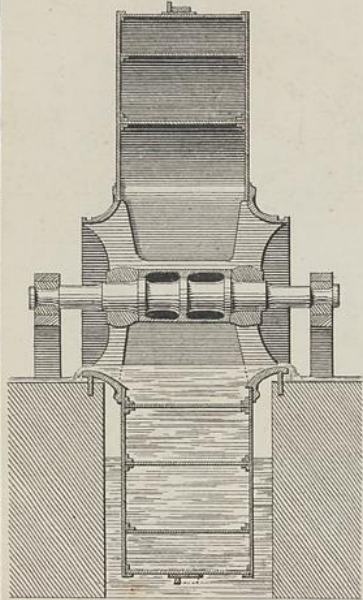


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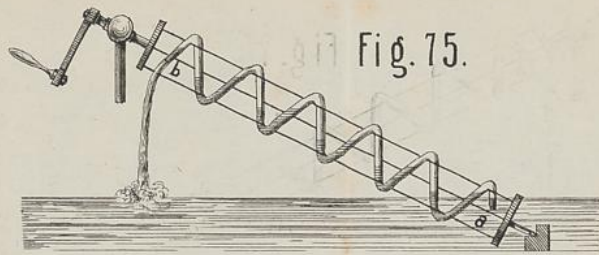


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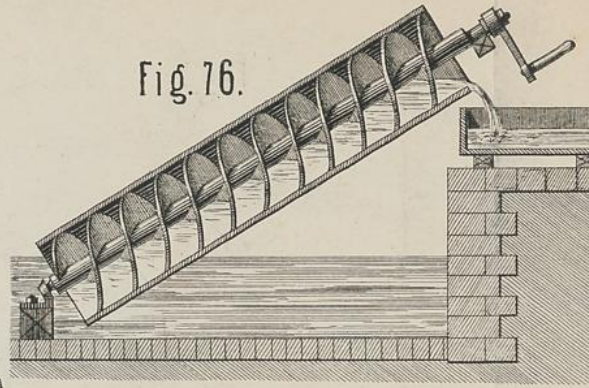


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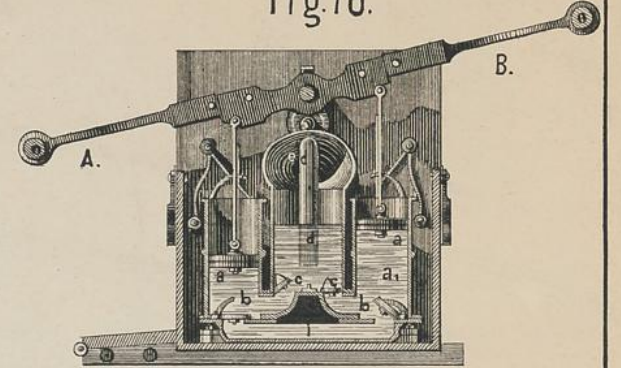


Fig. 72.



Fig.79.

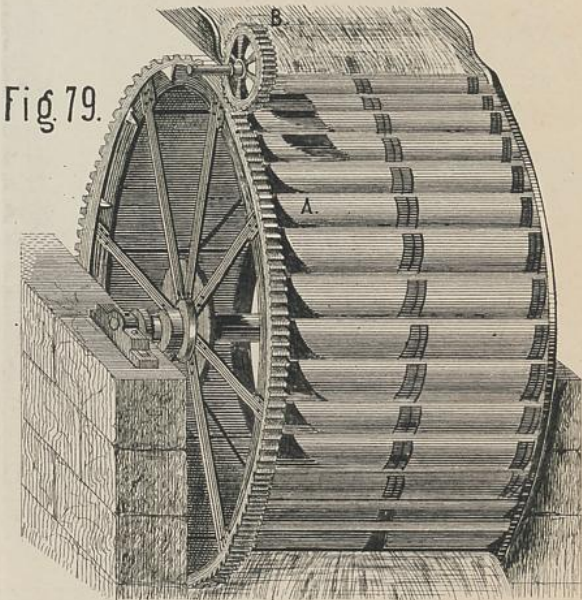


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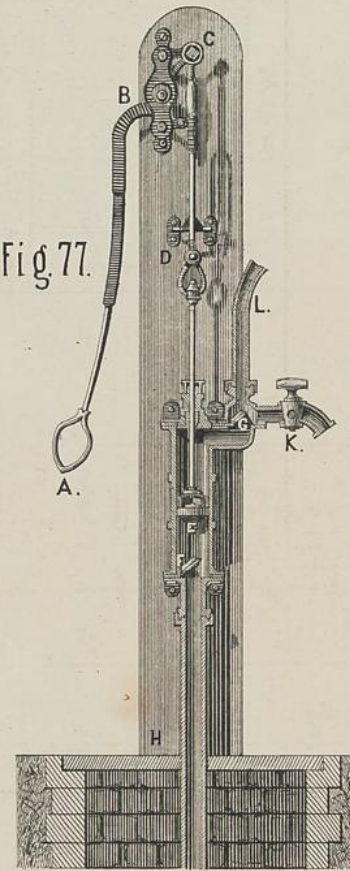


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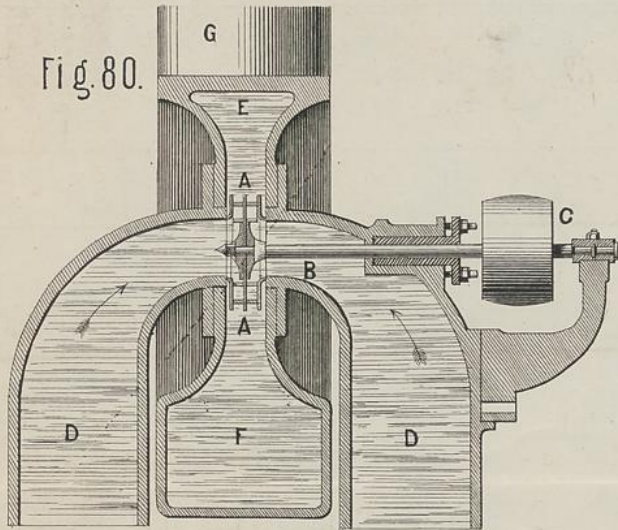


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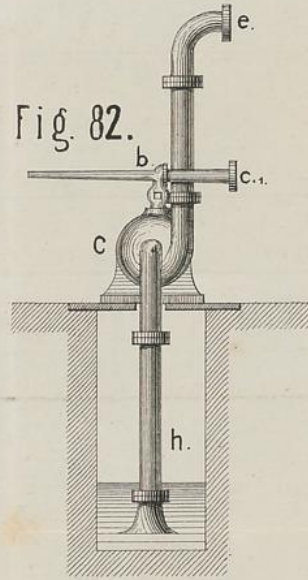
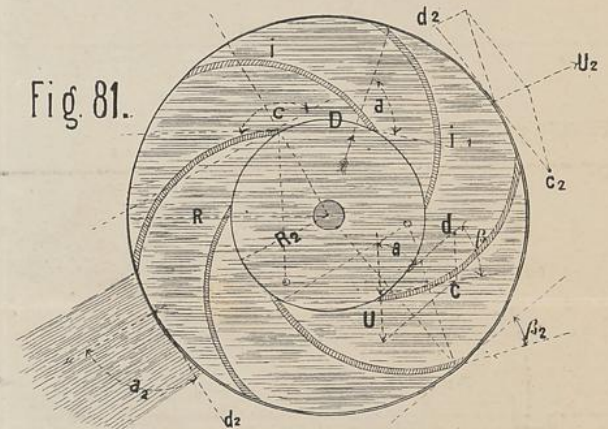


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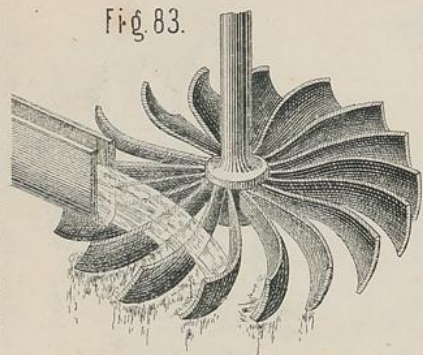


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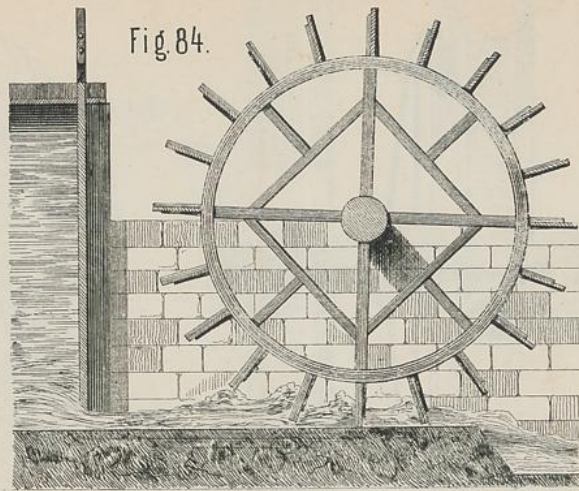


Fig. 84.

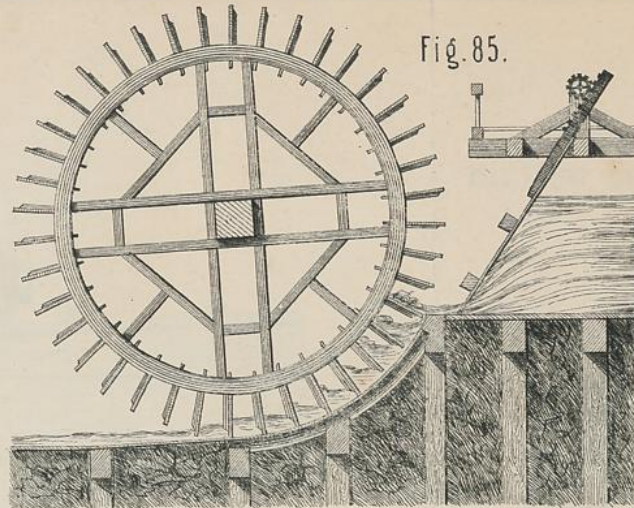


Fig. 85.

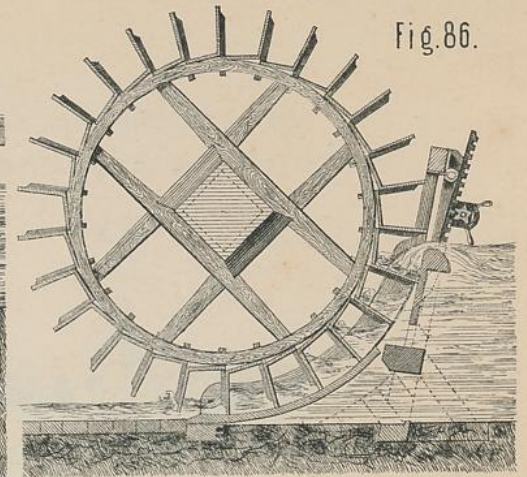


Fig. 86.

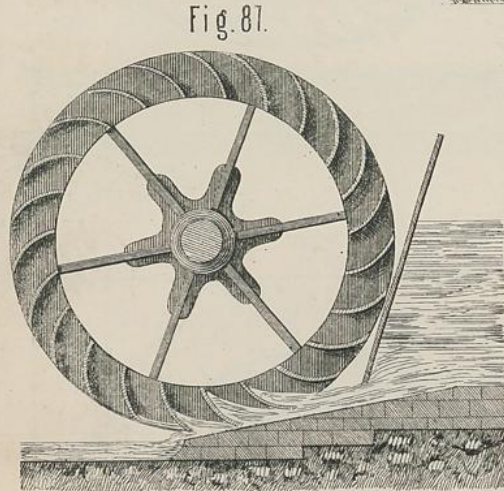


Fig. 87.

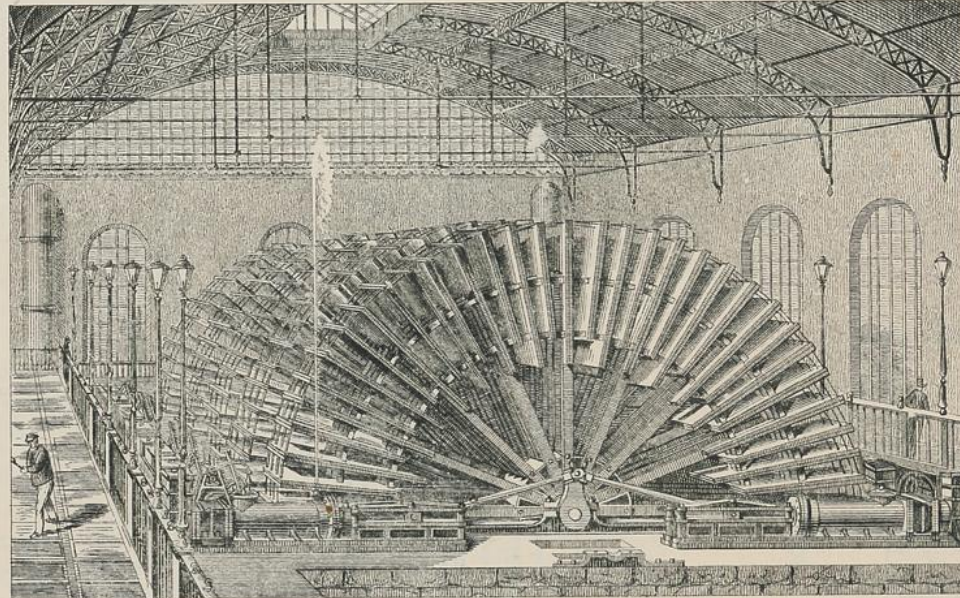


Fig. 88.

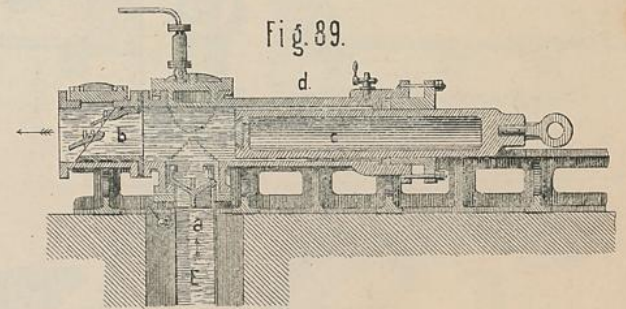


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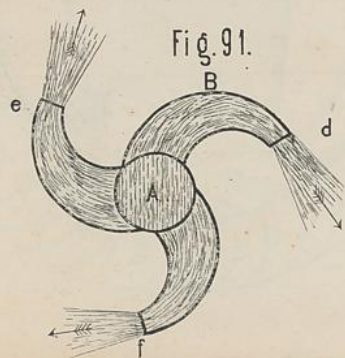


Fig. 91.

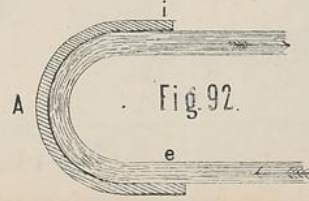


Fig. 92.

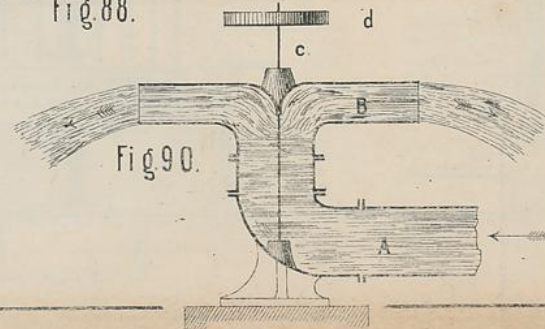


Fig. 90.

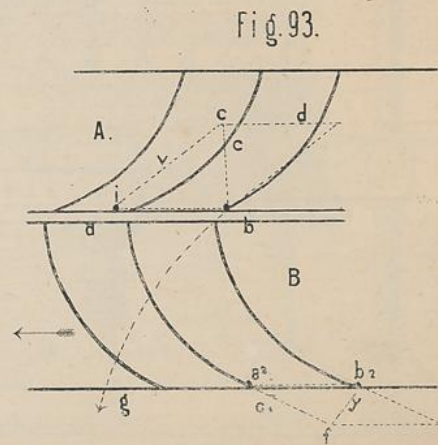
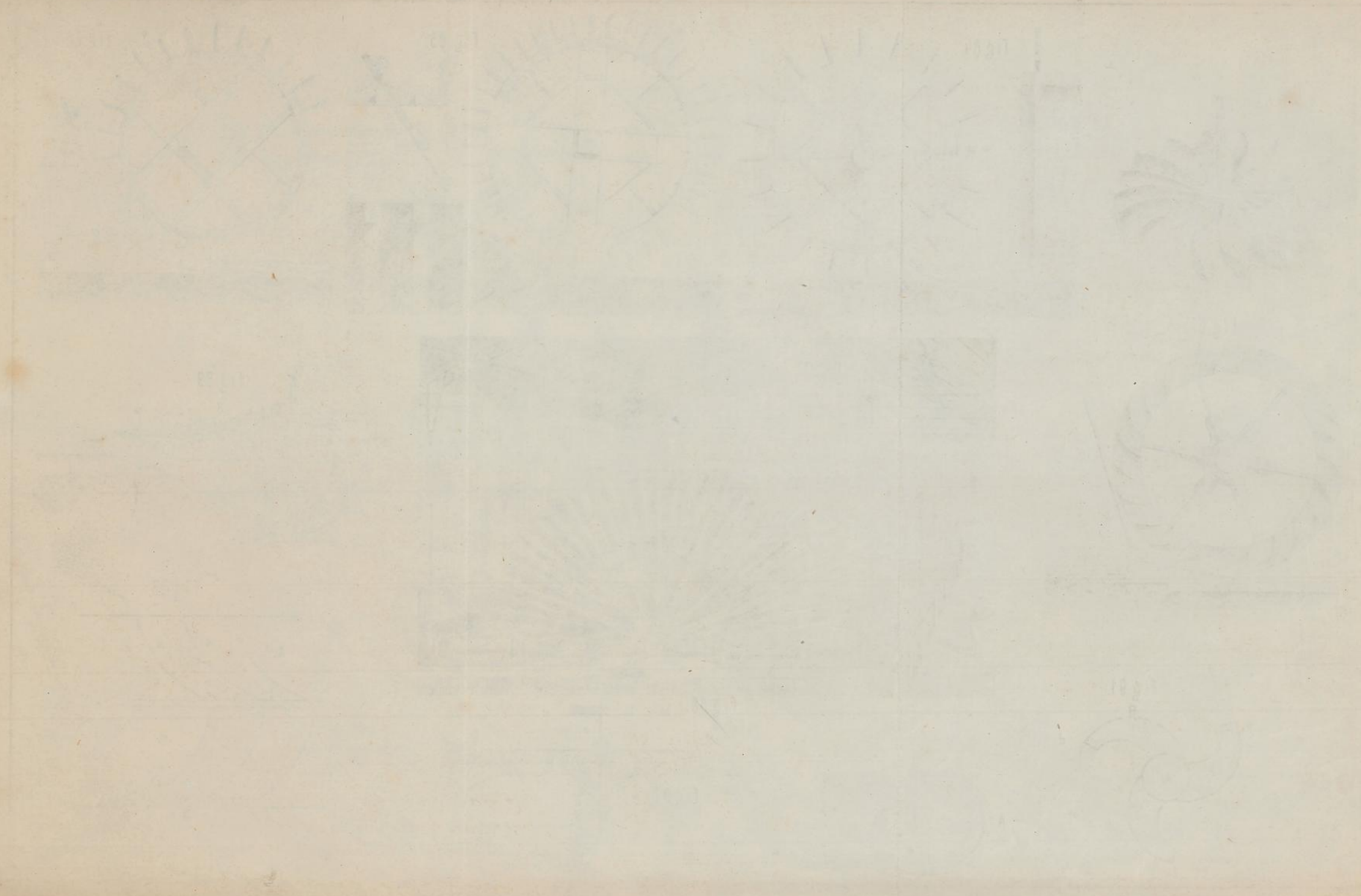


Fig. 93.

Hydrograph



Turbinen nach Girard's System,
mit freier Abweichung u. mit Ventilation.

Fig. 95 f.

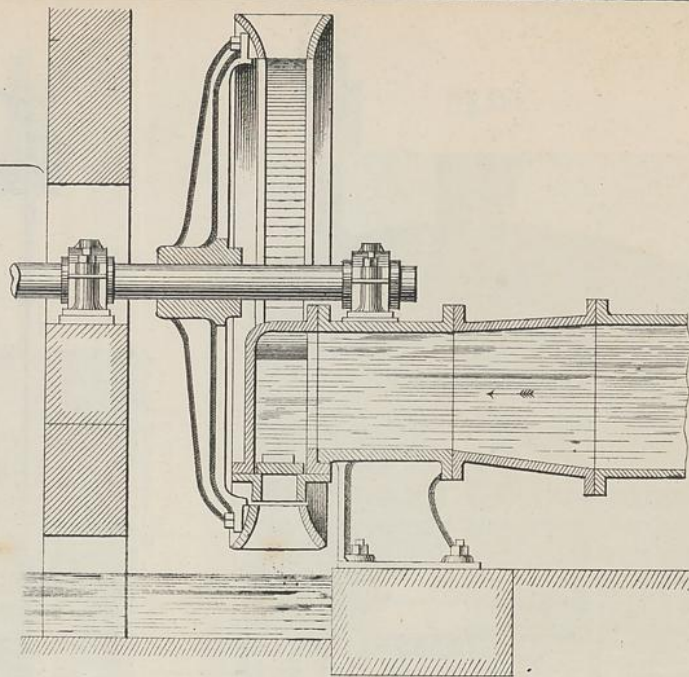
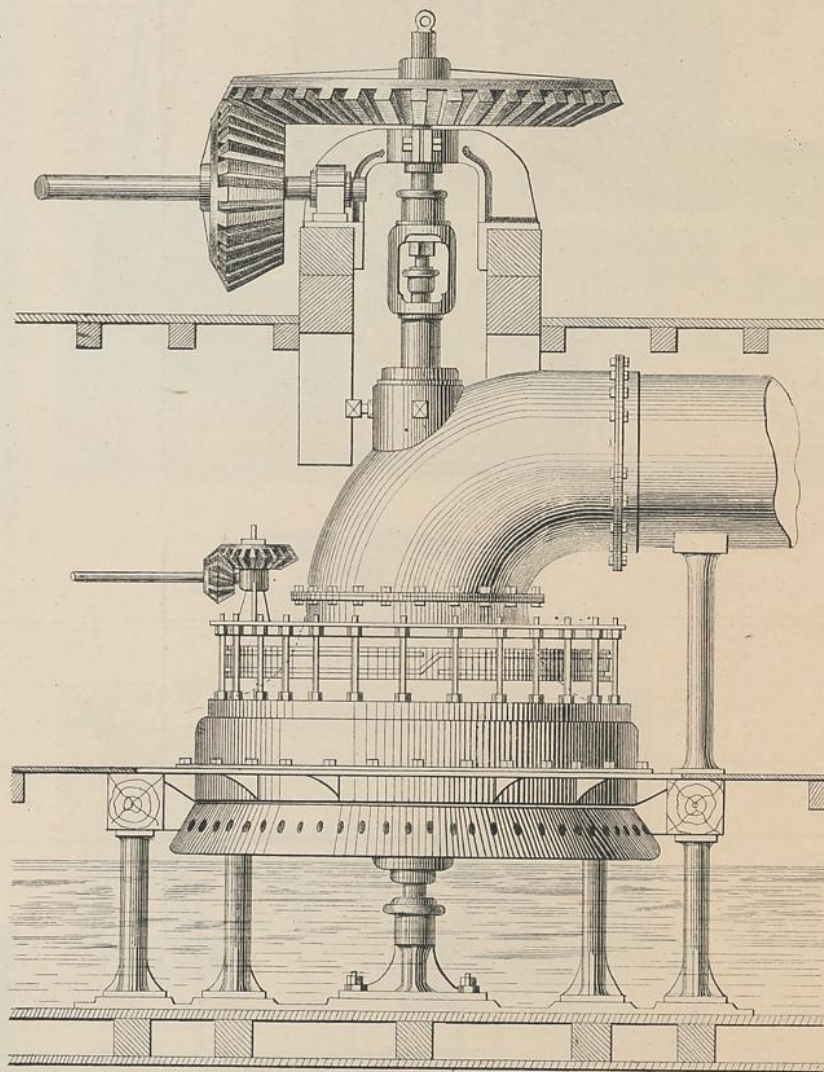


Fig. 95 c.

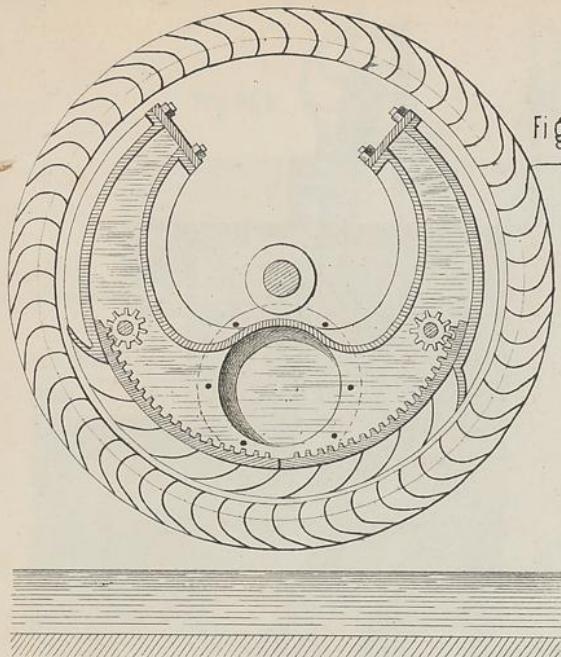


Fig. 95 d.

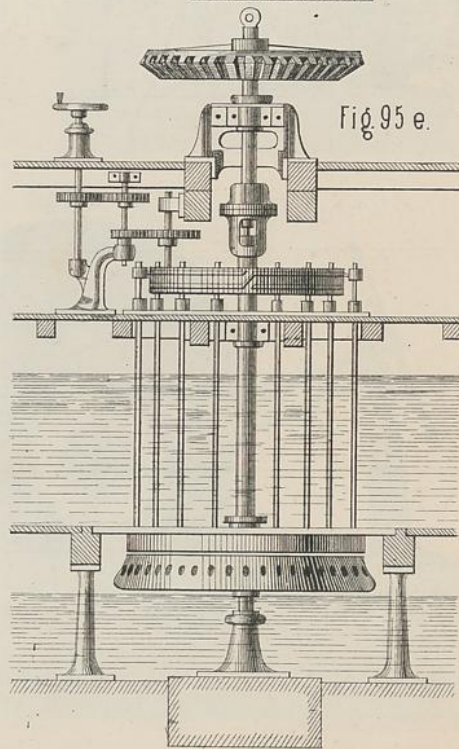


Fig. 95 e.

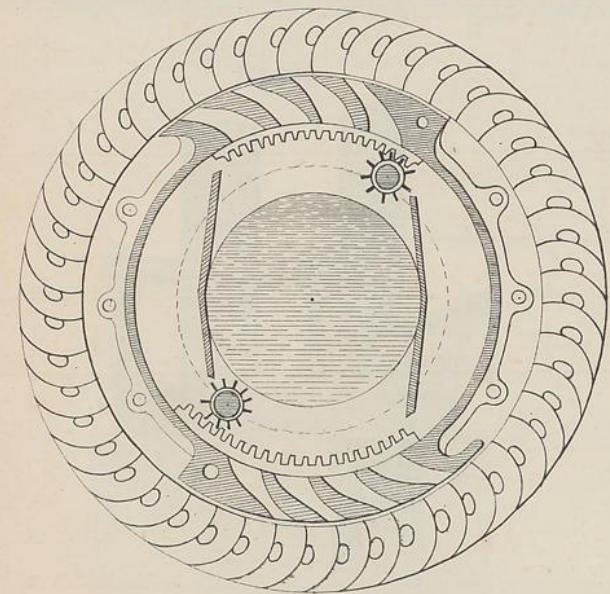


Fig. 1. Hydraulic Press

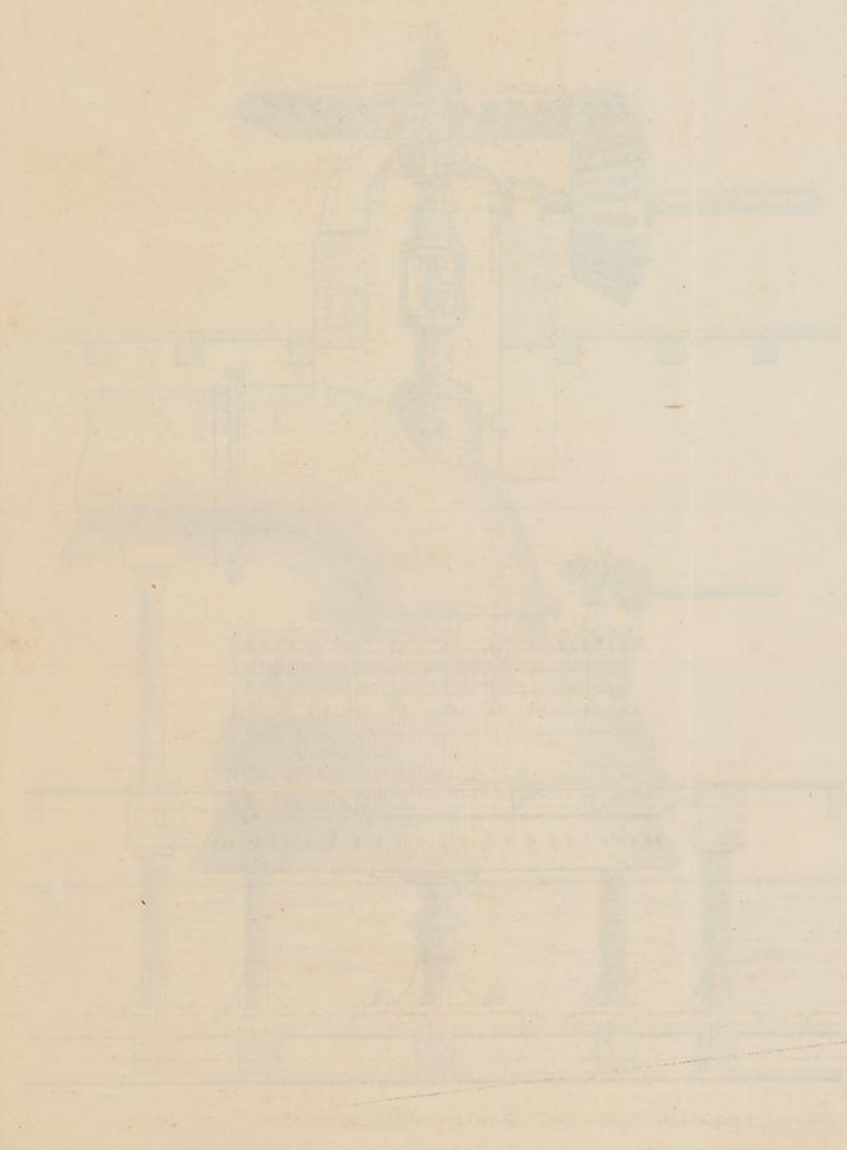


Fig. 2. Hydraulic Press

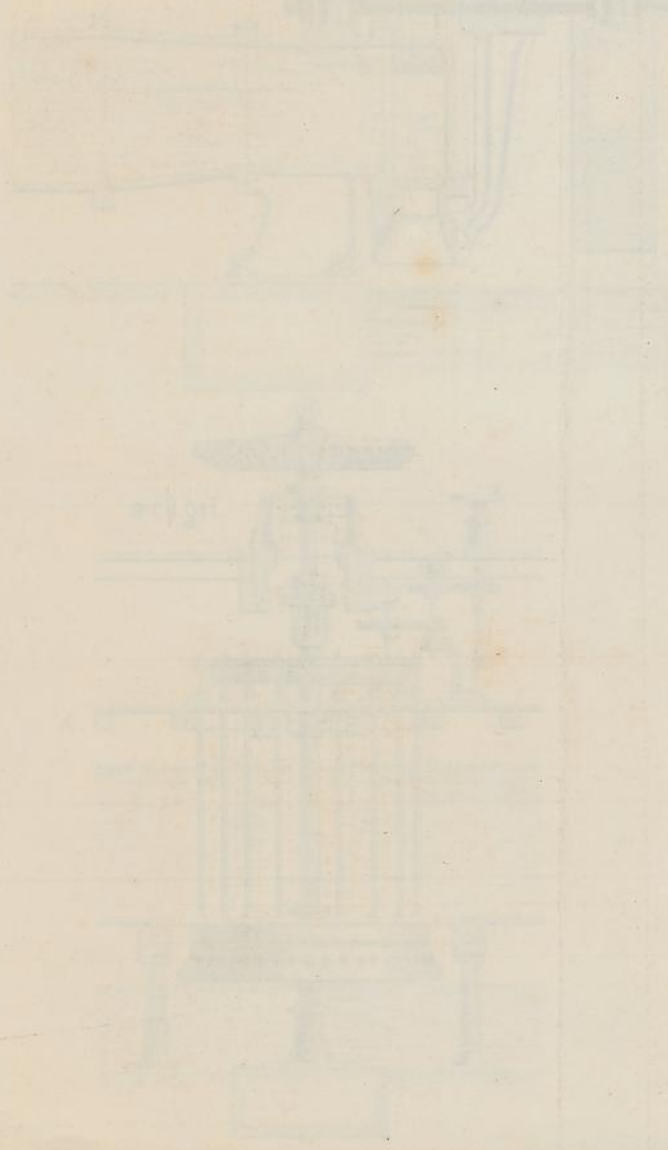


Fig. 3



Fig. 4



Fig. 95.h.

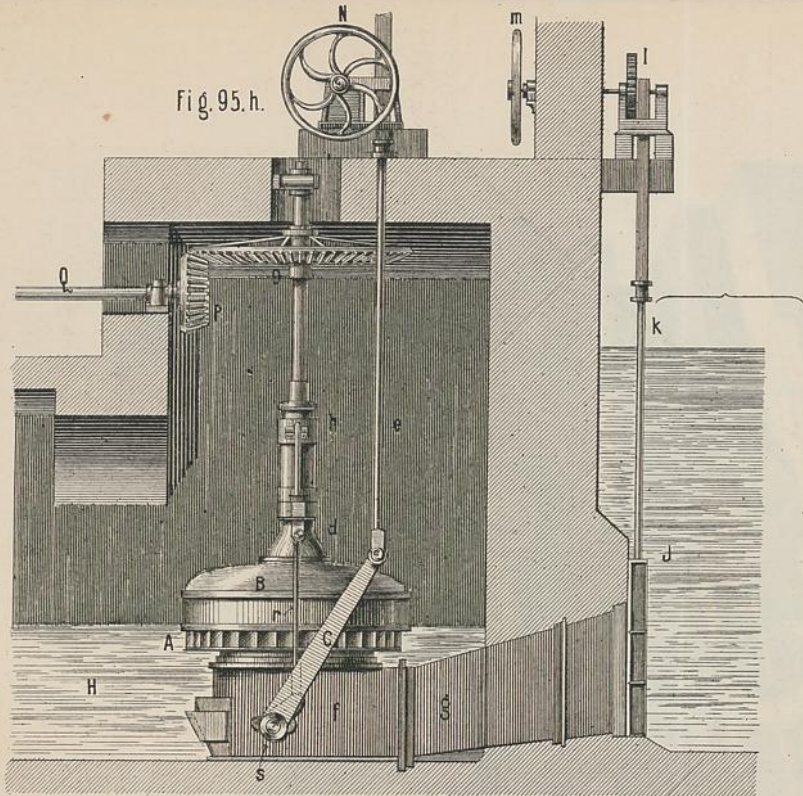


Fig. 95.i.

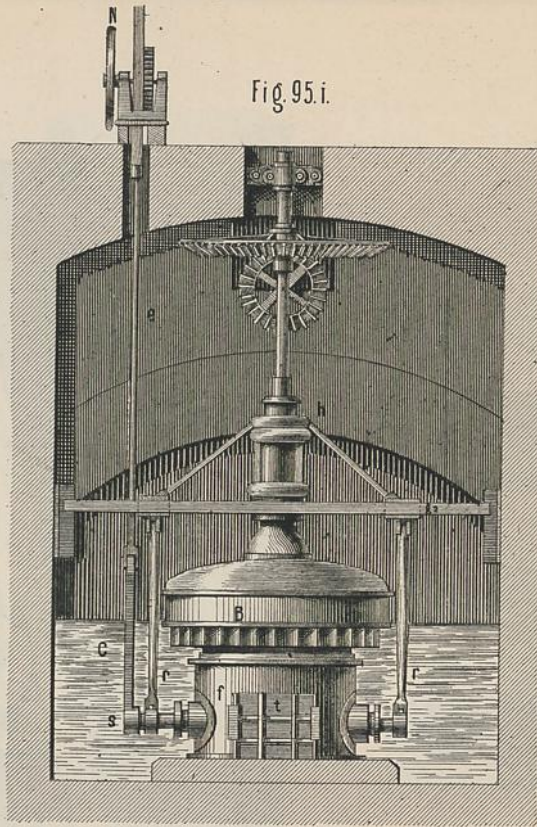


Fig. 95.k.

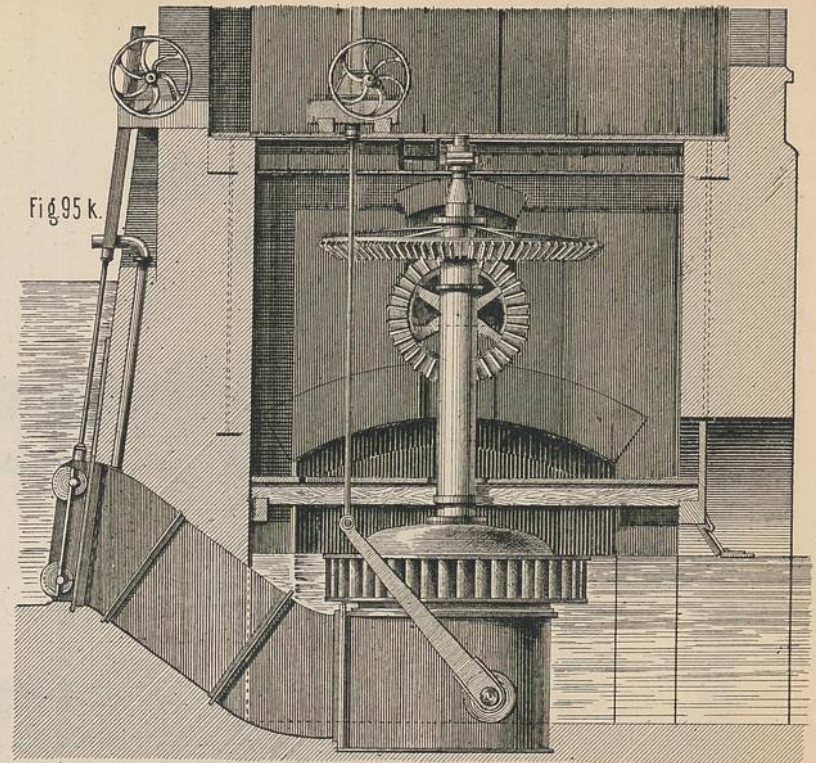


Fig. 95.l.

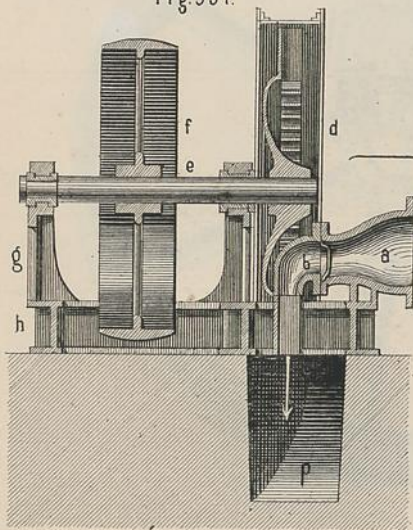


Fig. 95.m.

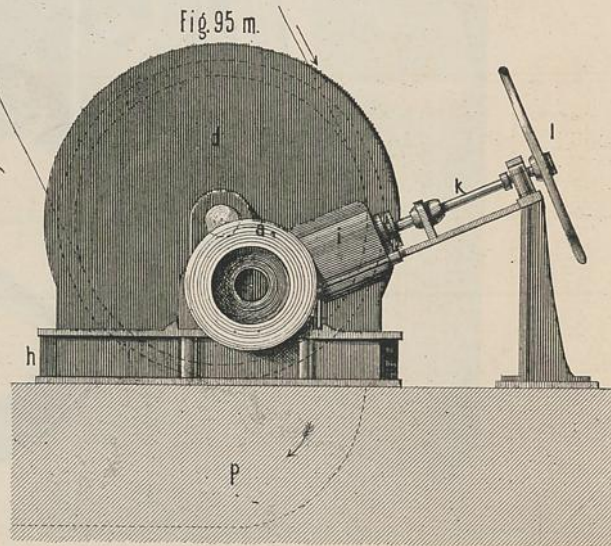
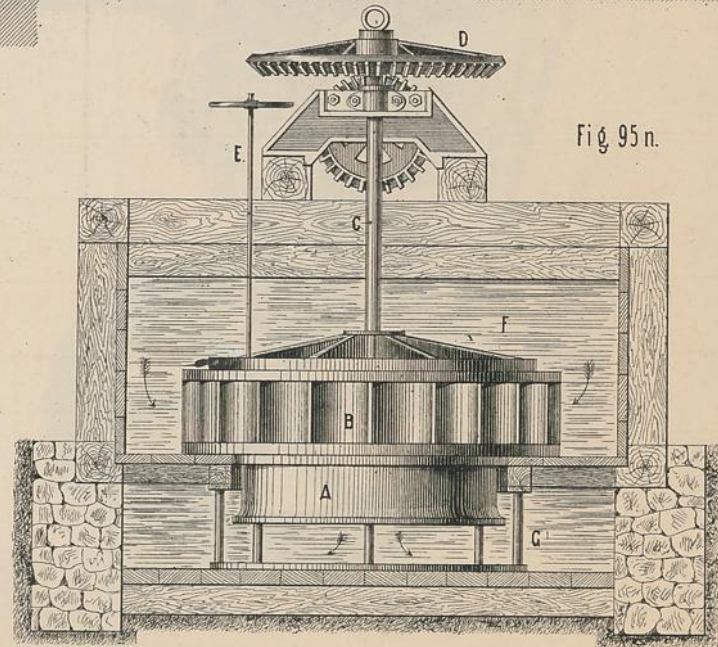
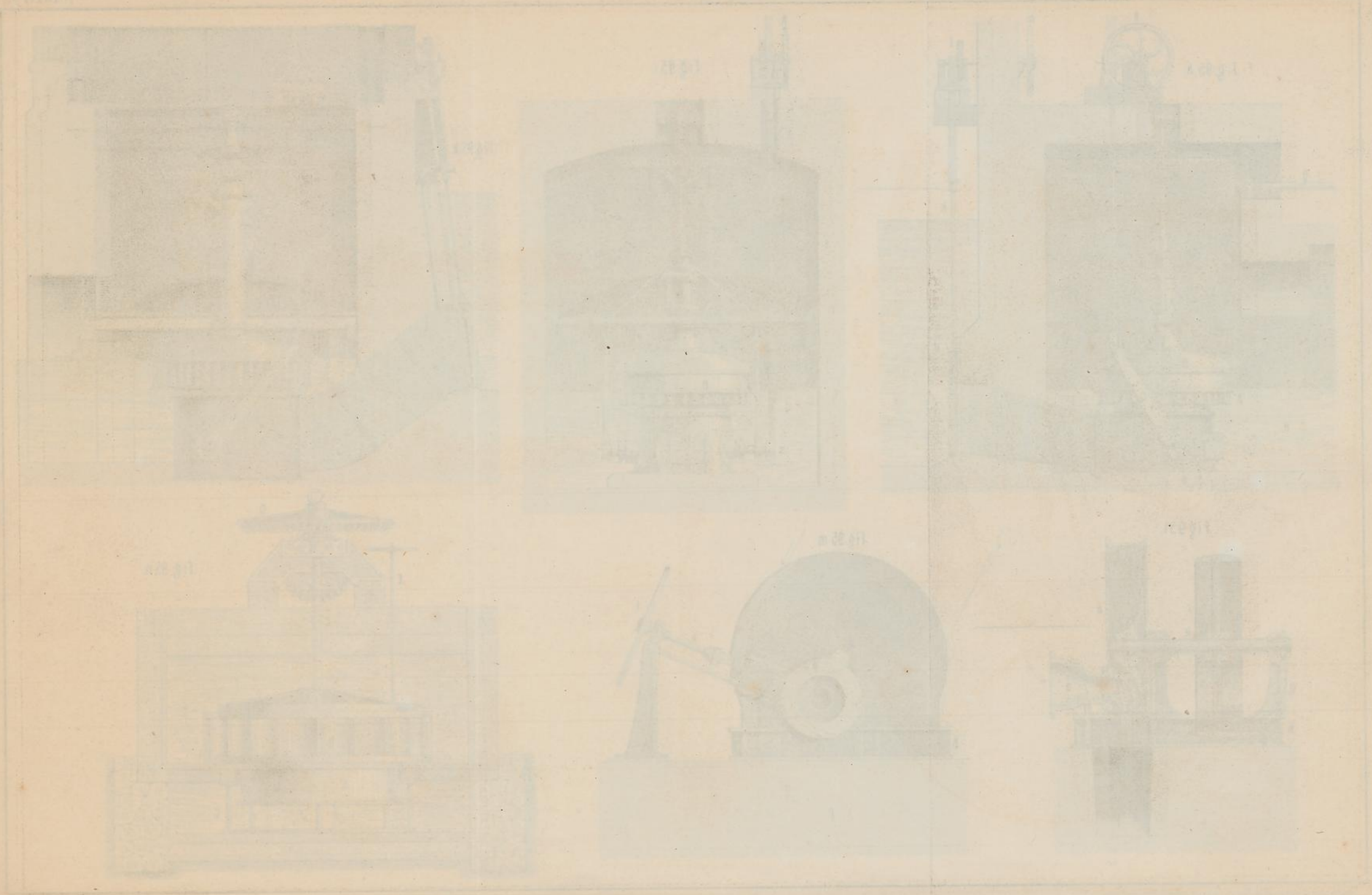


Fig. 95.n.





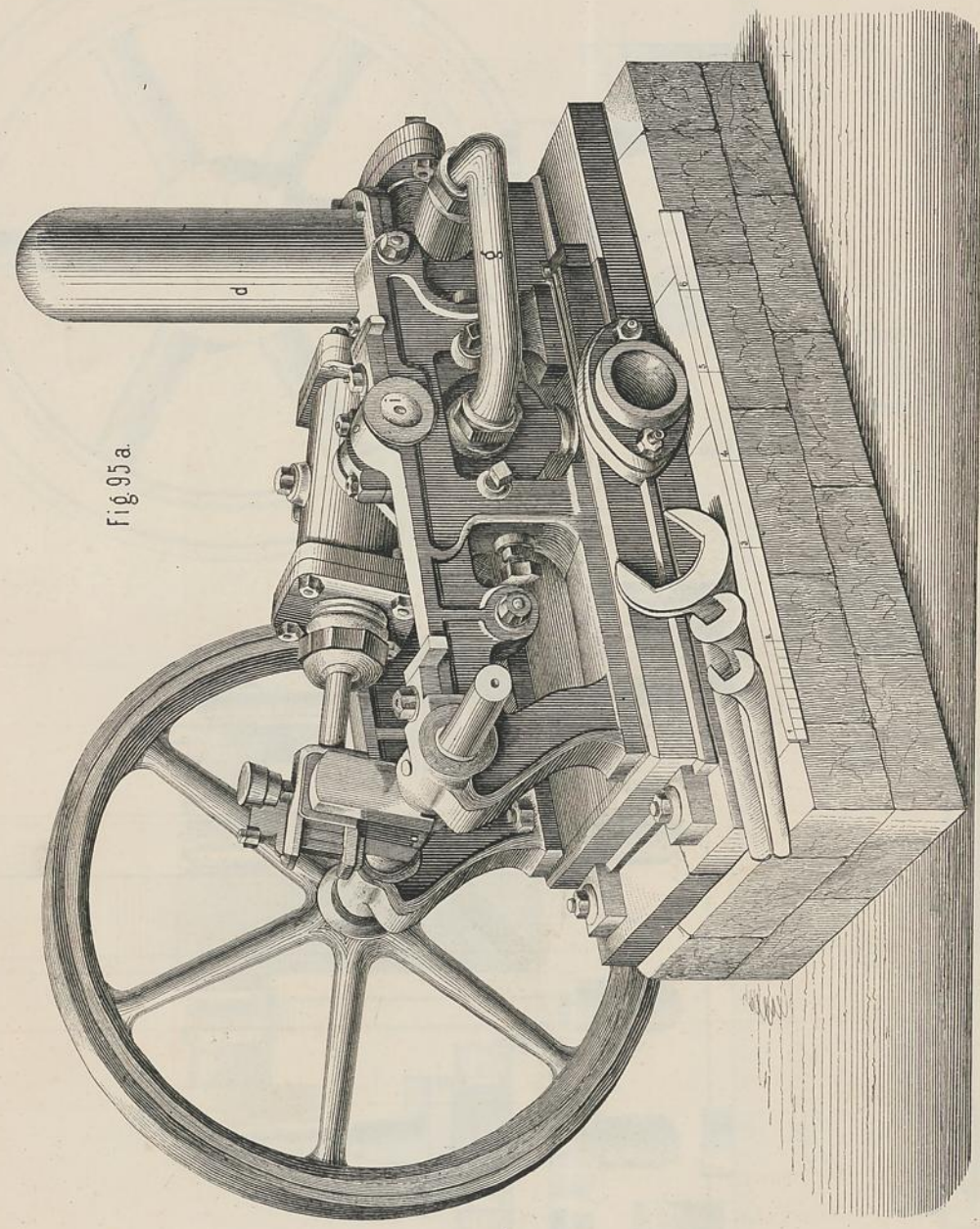


Fig. 95 a.

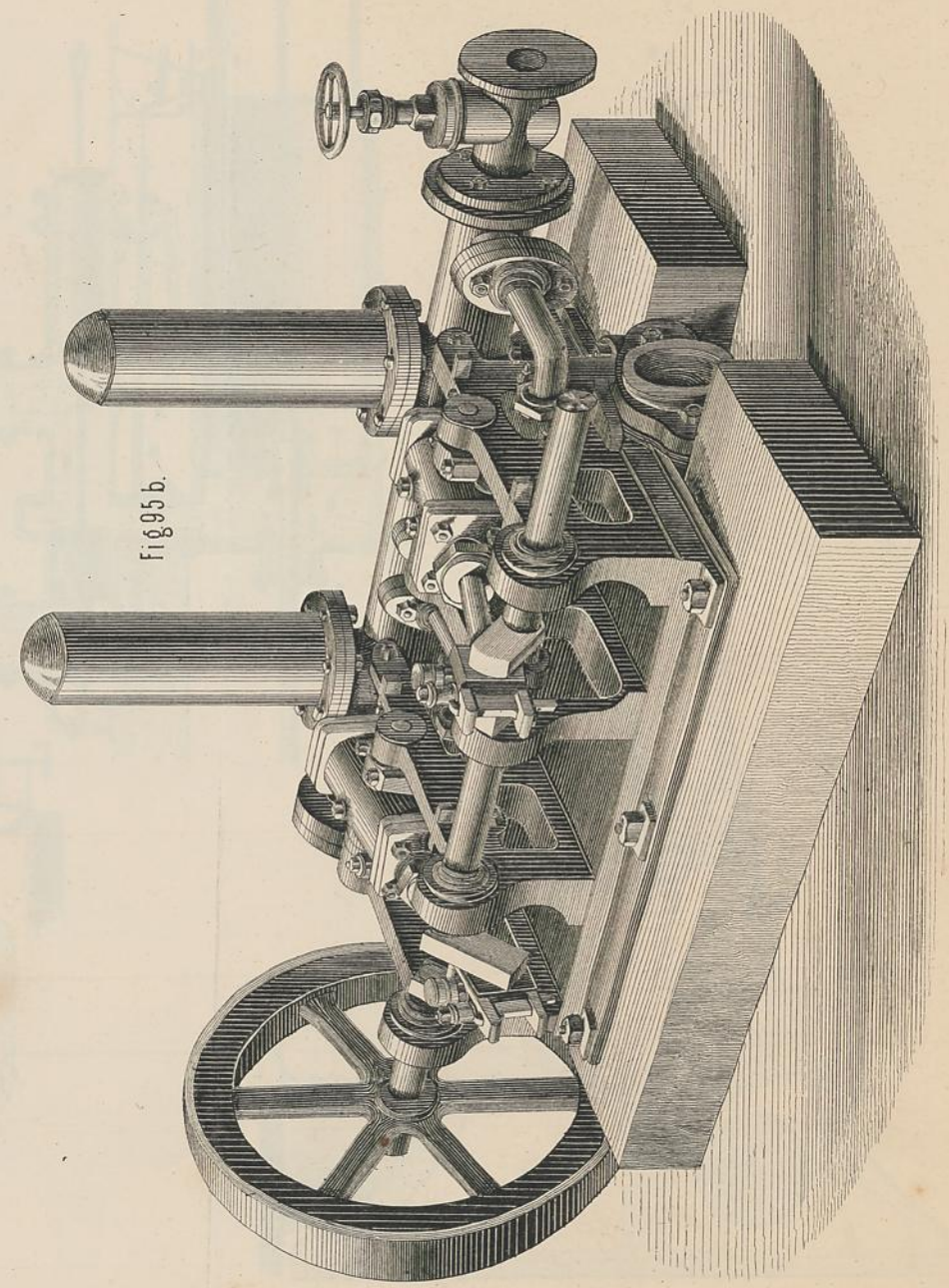
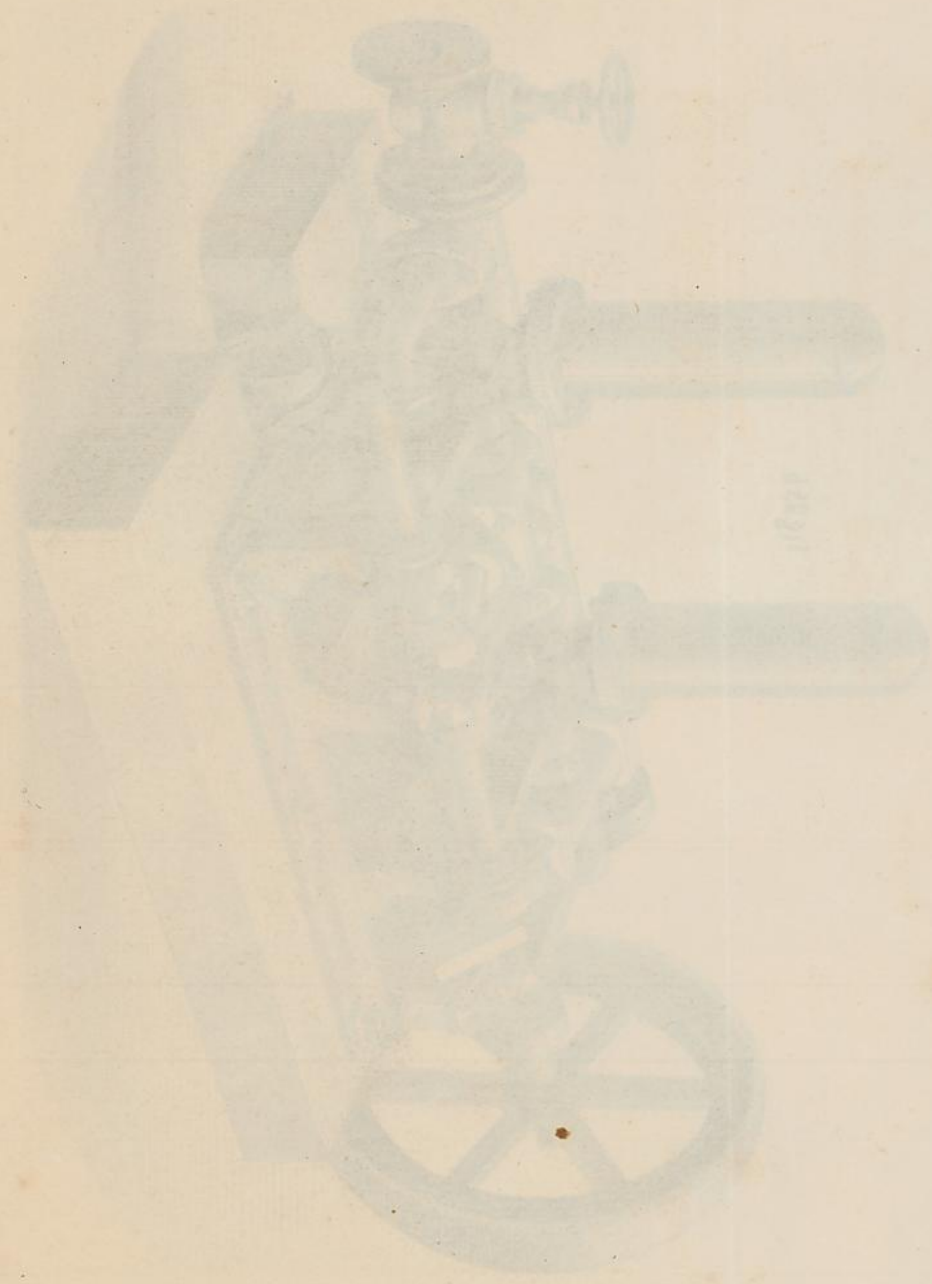


Fig. 95 b.



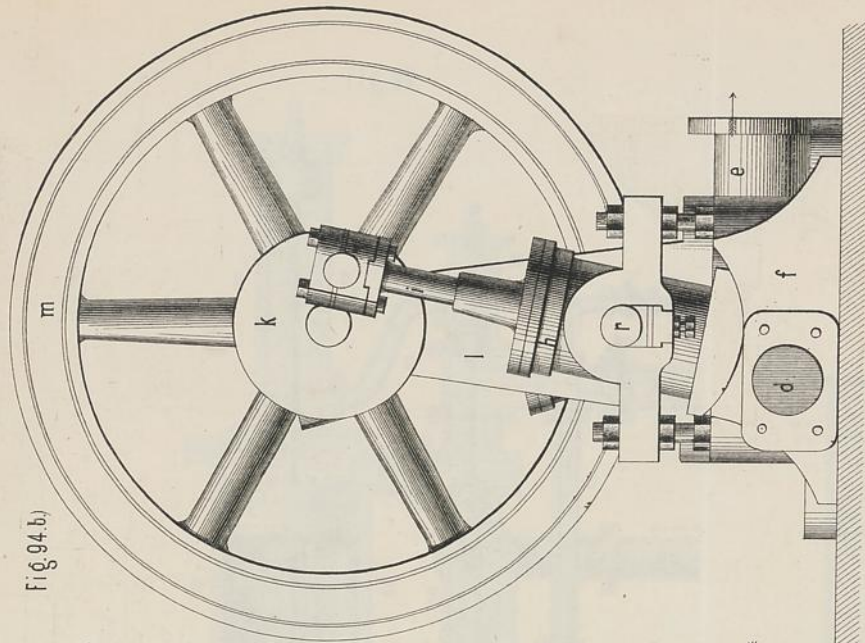


Fig. 94.b)

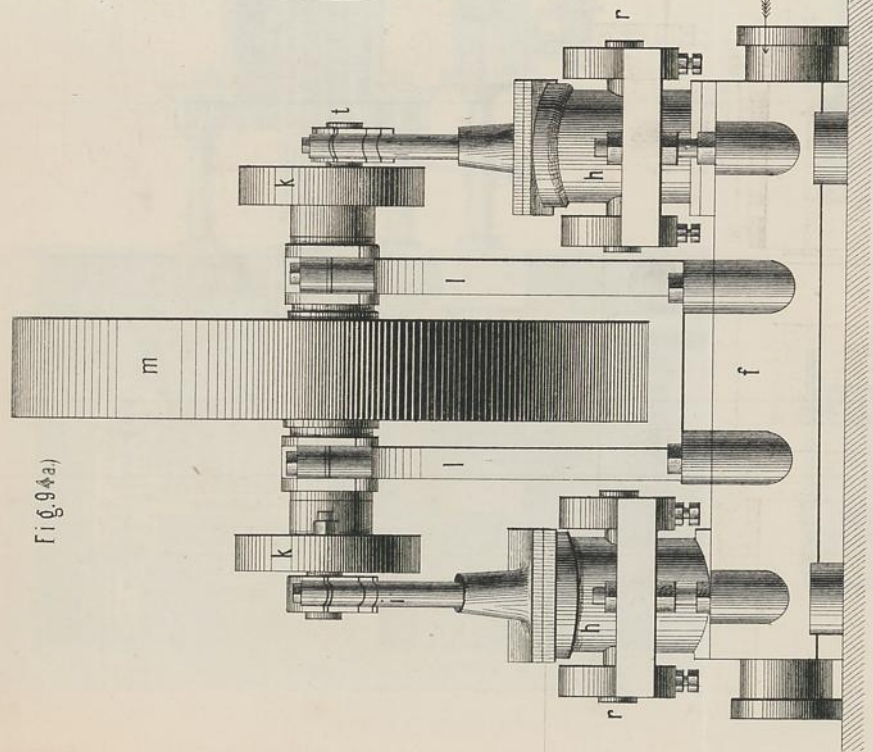


Fig. 94.a)

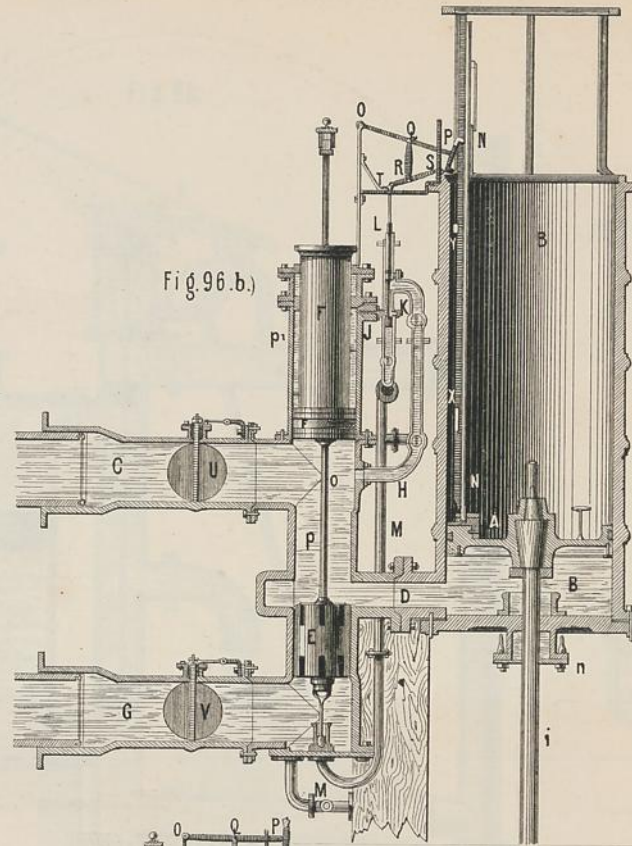


Fig. 96.b)

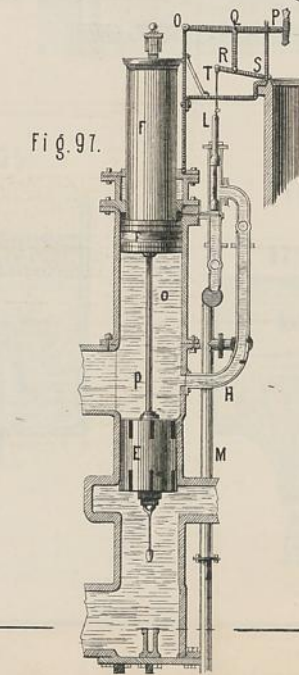


Fig. 97.

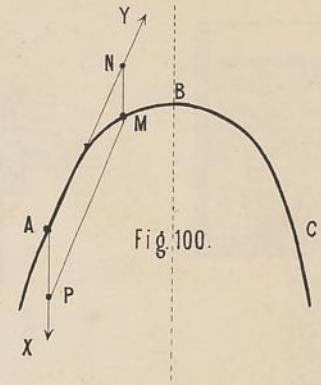


Fig. 100.

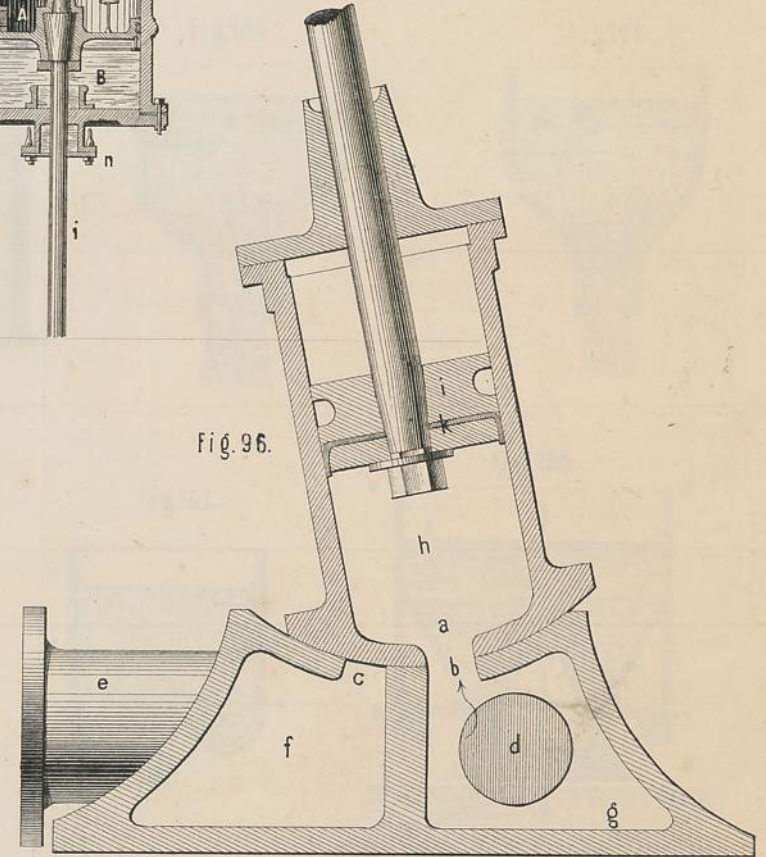


Fig. 96.

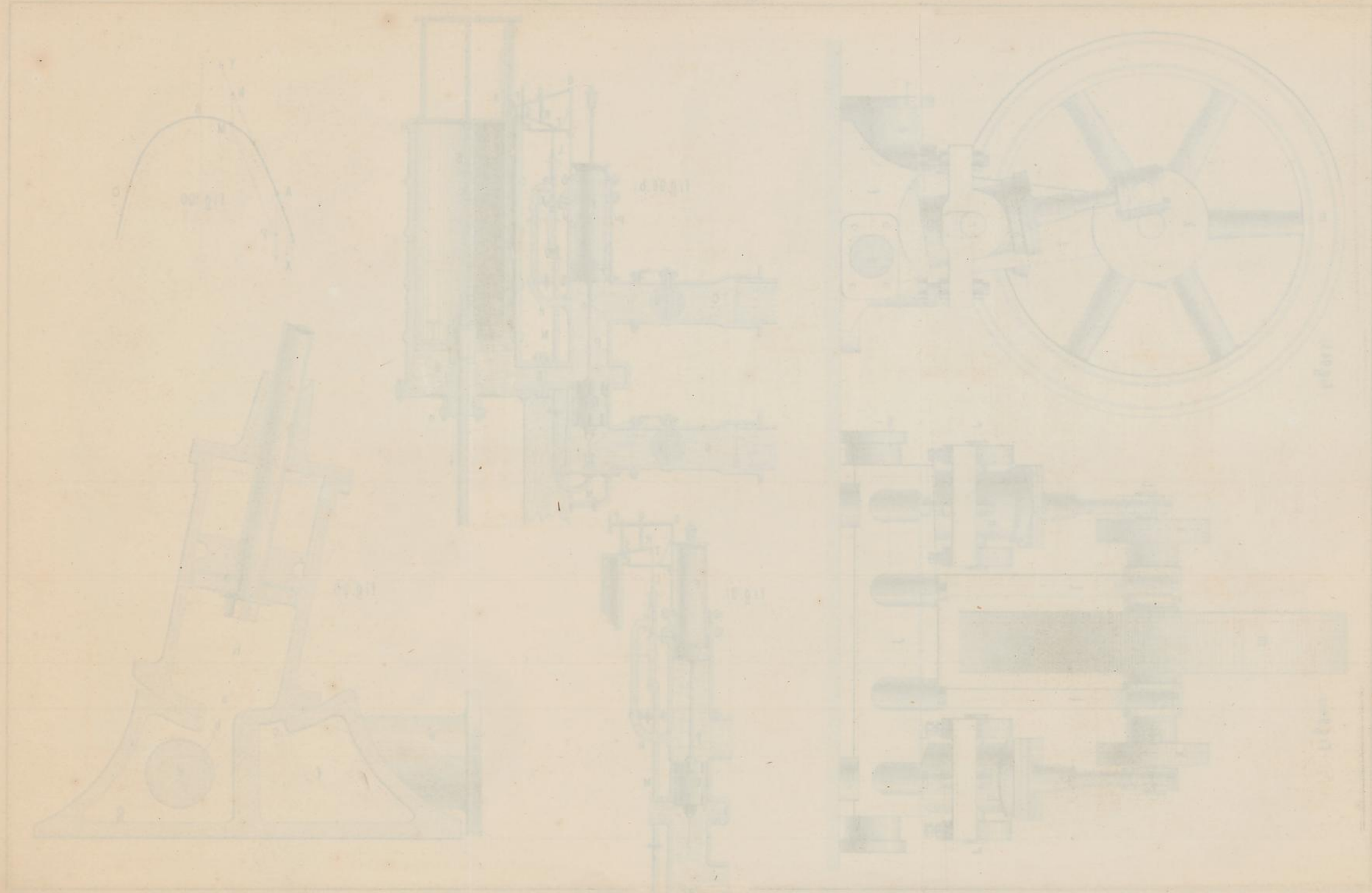


Fig. 99.

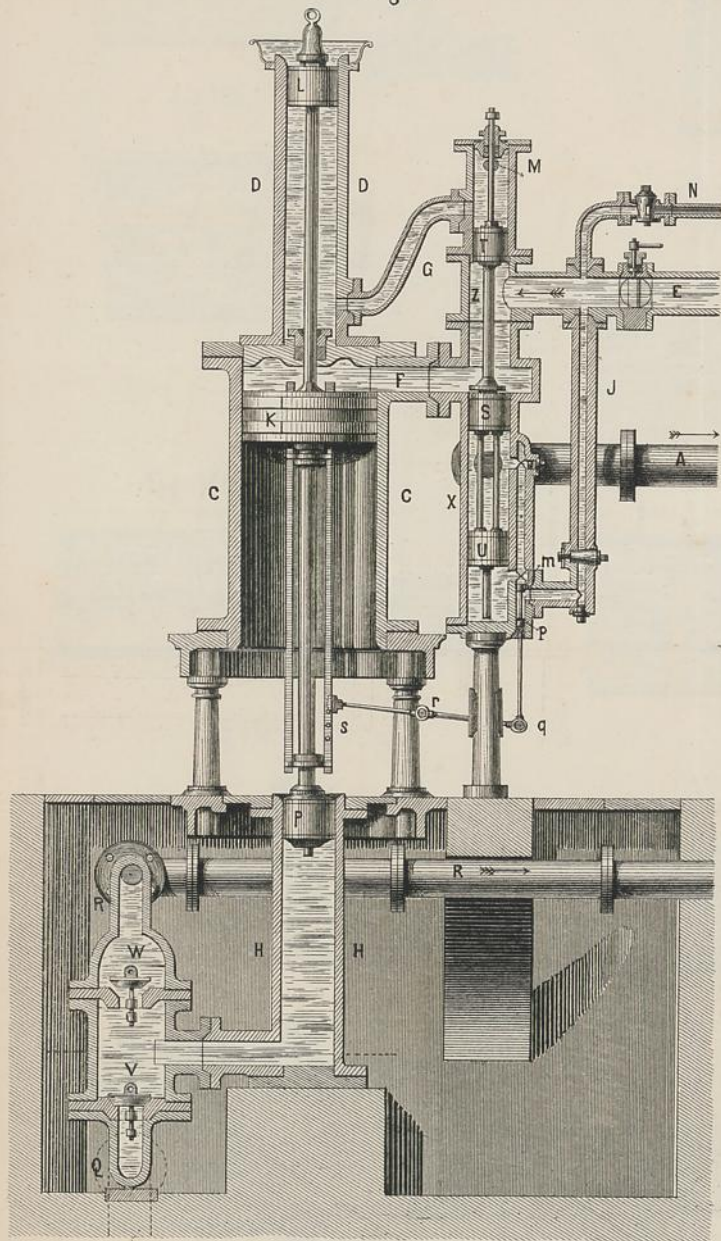


Fig. 98.

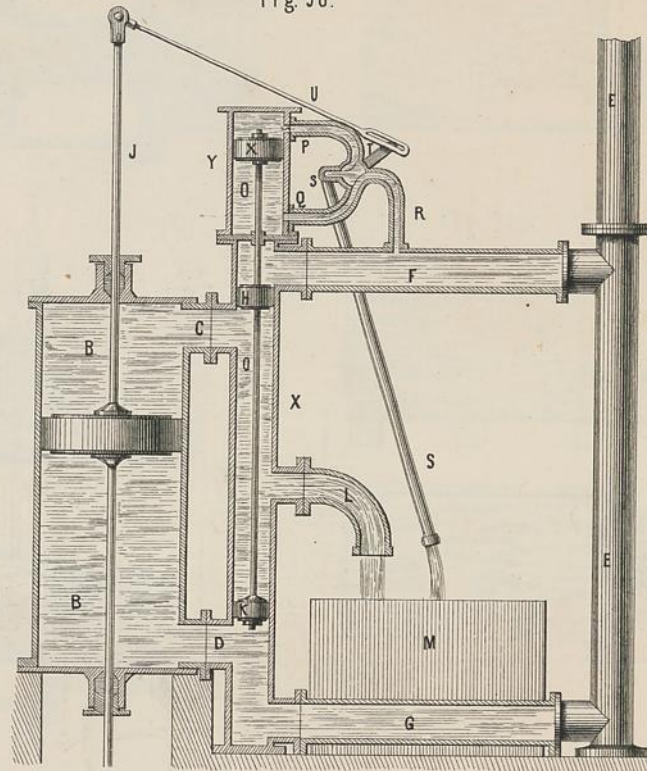


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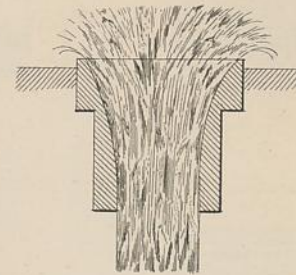


Fig. 102.

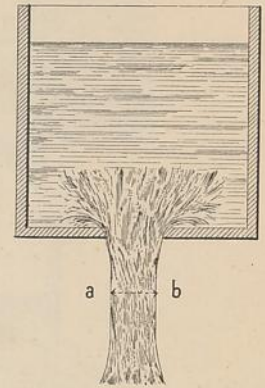


Fig. 103.

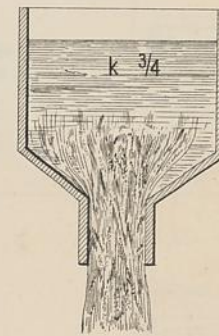


Fig. 104.

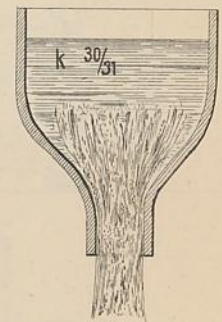


Fig. 105.

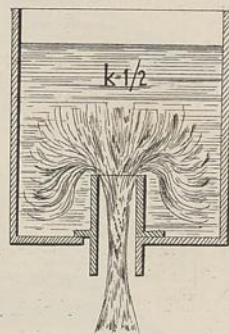


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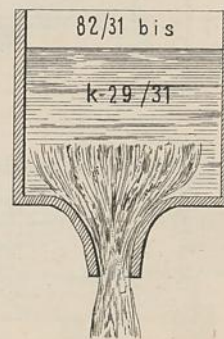


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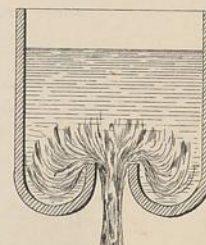
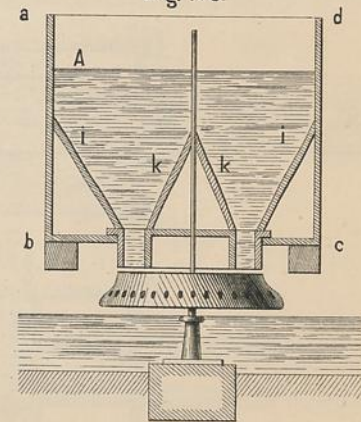
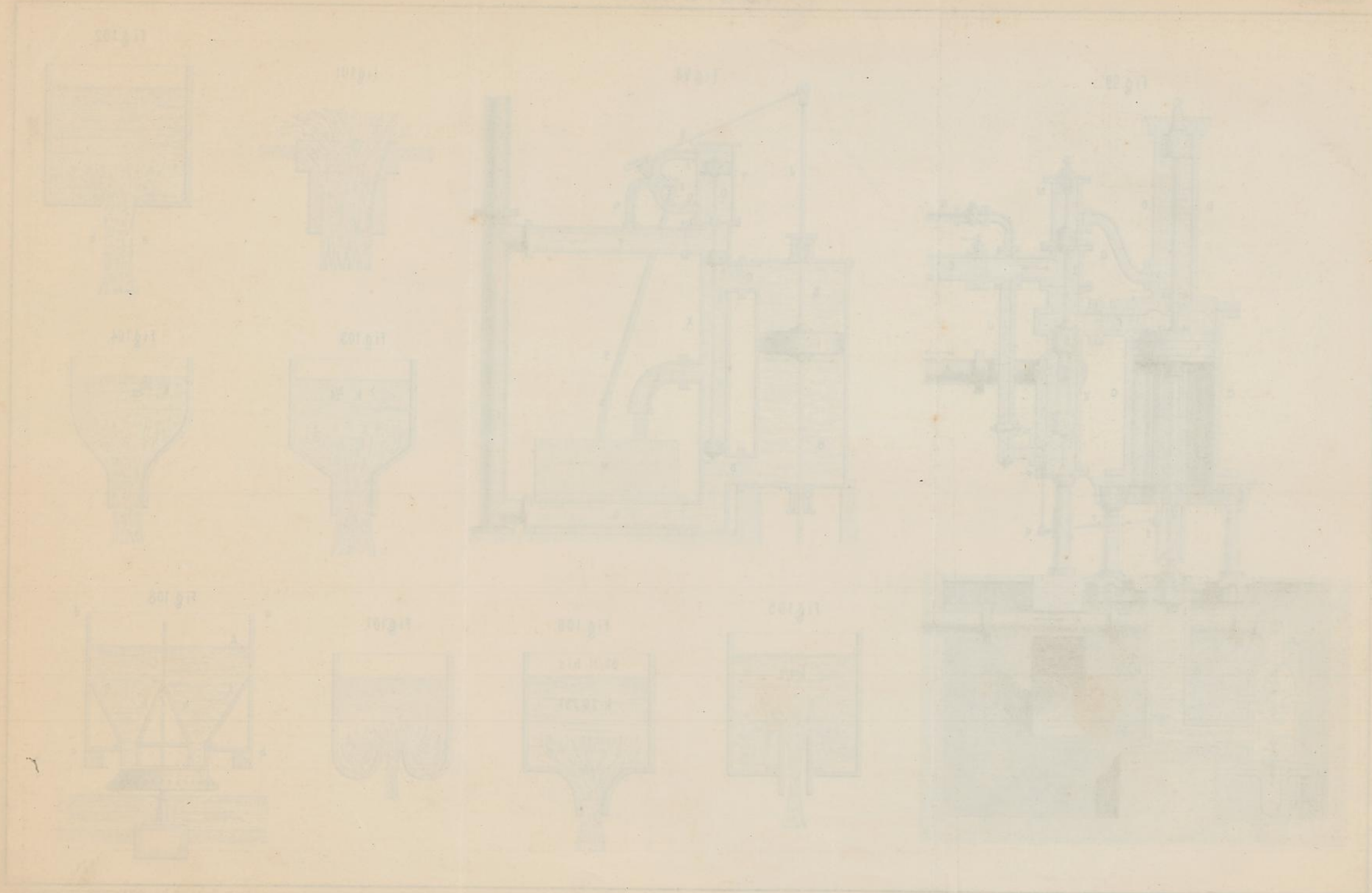


Fig. 108.





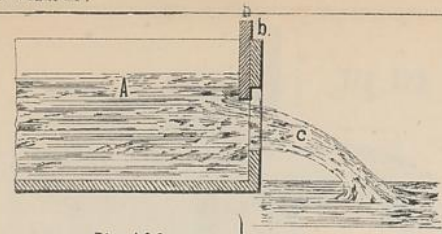


Fig. 109.

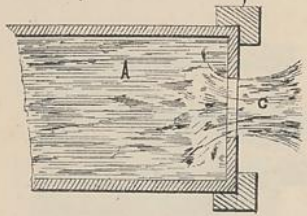


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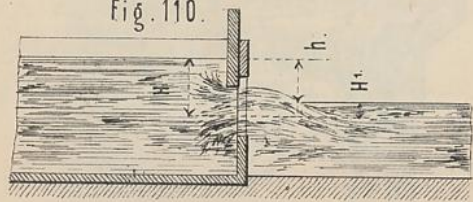


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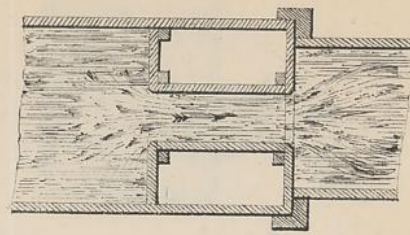
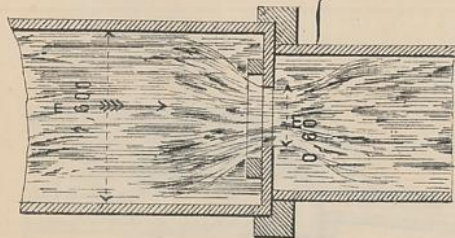
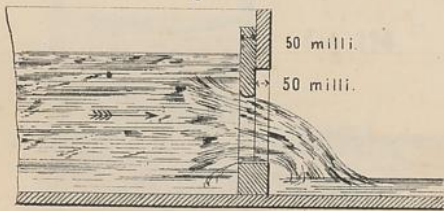


Fig. 114.

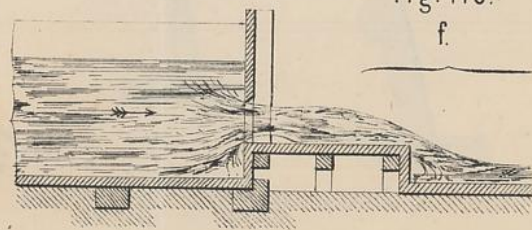
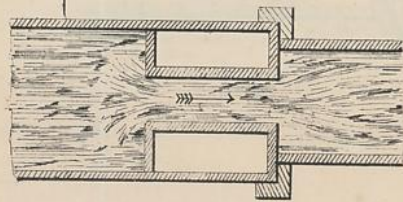
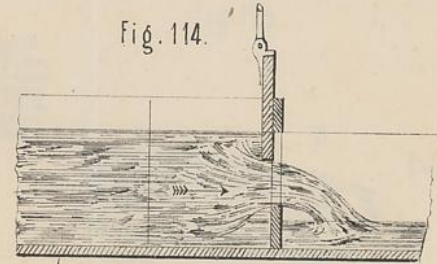
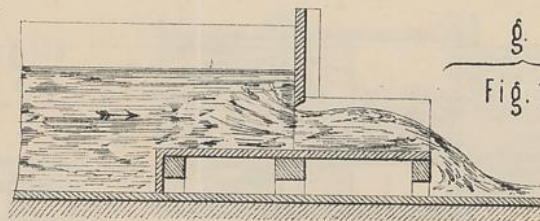


Fig. 118.

f.



g.

Fig. 119.

Fig. 112.

b.

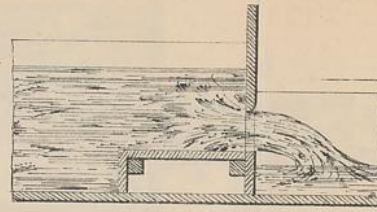


Fig. 115.

d.

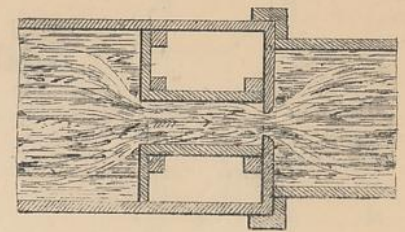
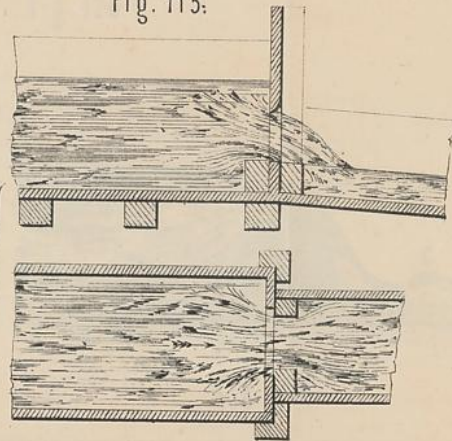


Fig. 120.

Fig. 116.

e.

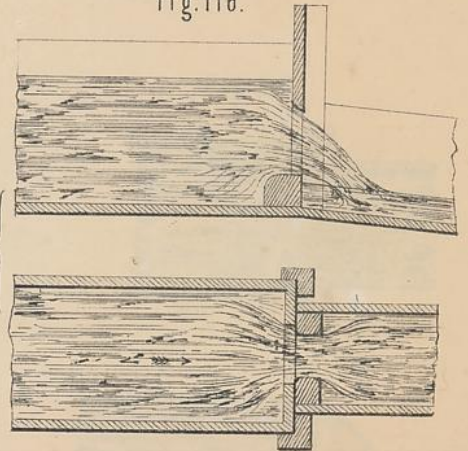


Fig. 120. h.

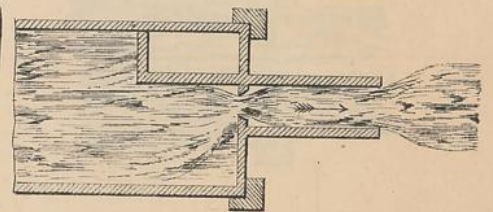
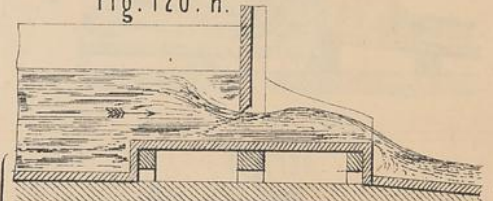
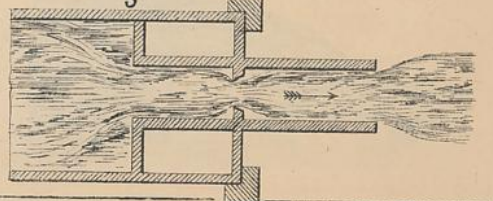
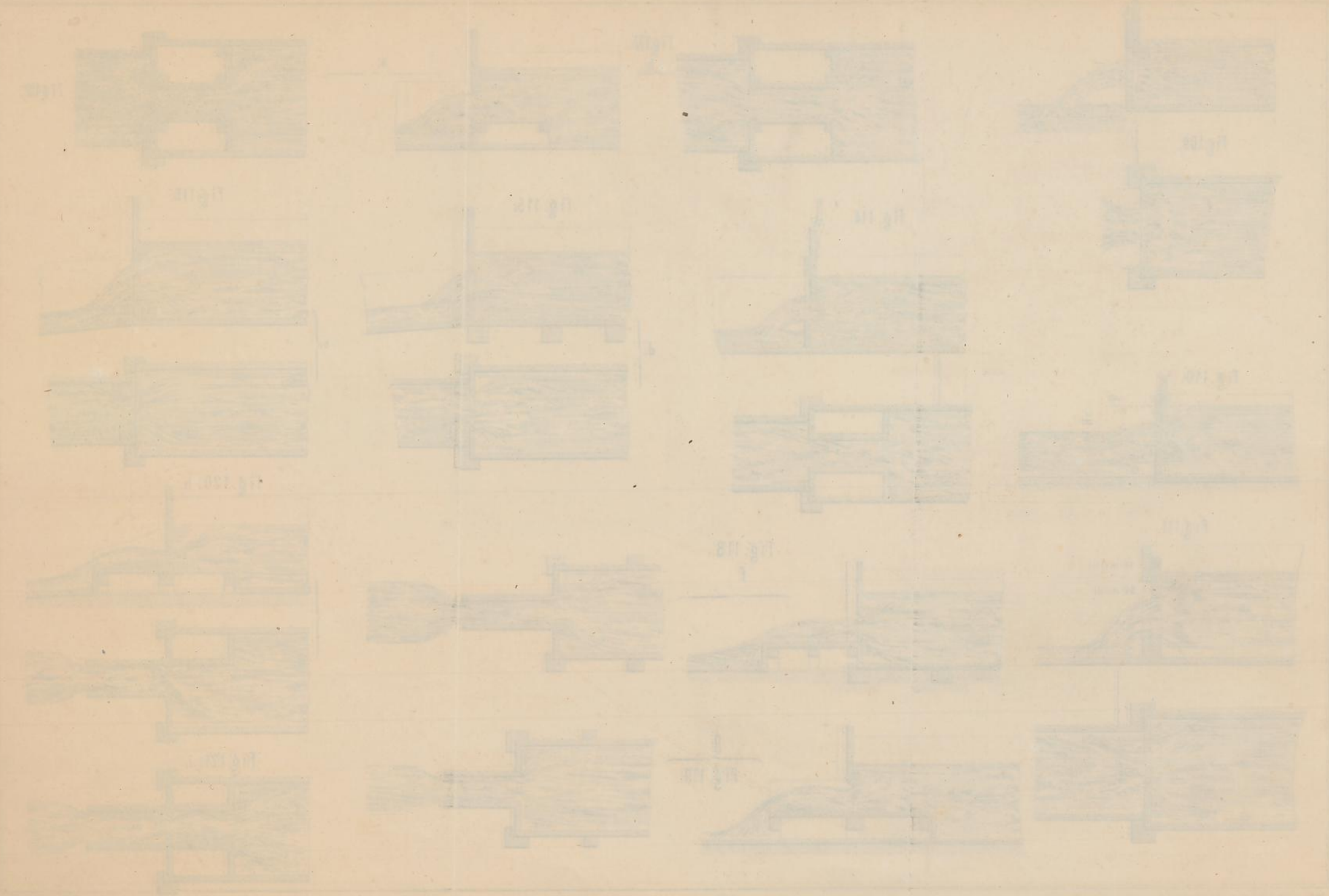


Fig. 121. i.





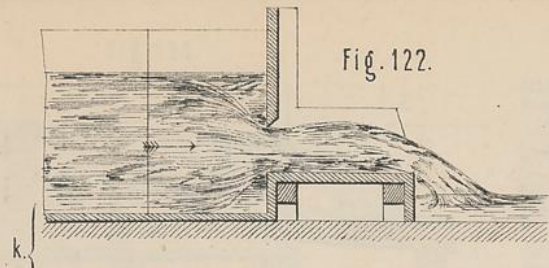


Fig. 122.

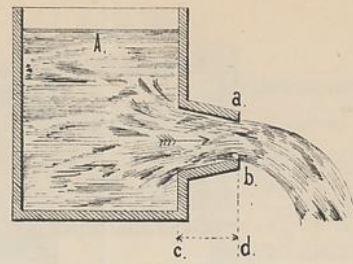


Fig. 125.

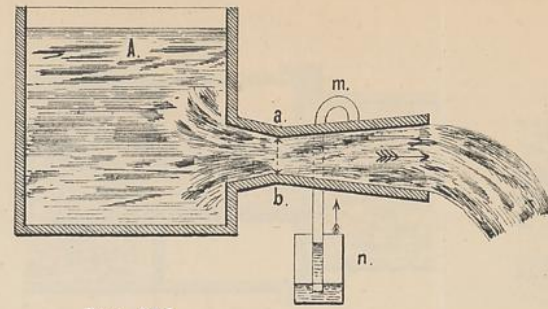


Fig. 126.

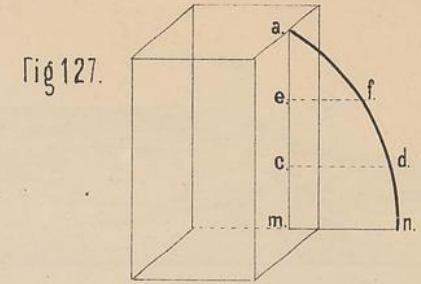


Fig. 127.

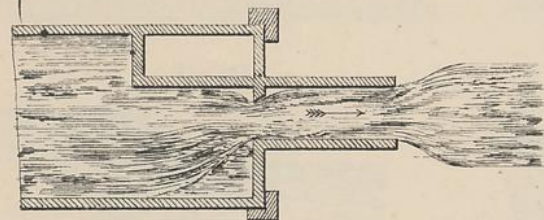


Fig. 123.

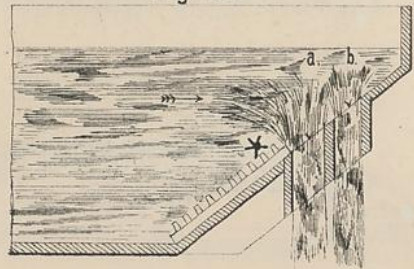


Fig. 124.

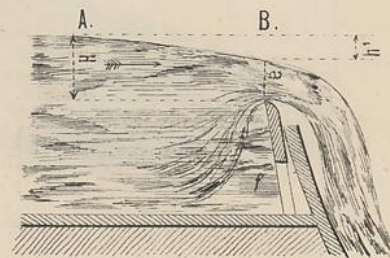


Fig. 128.

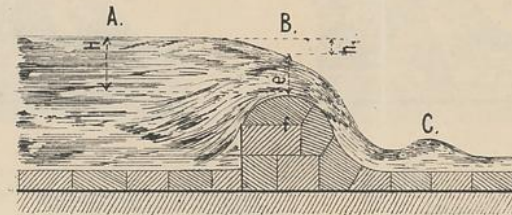


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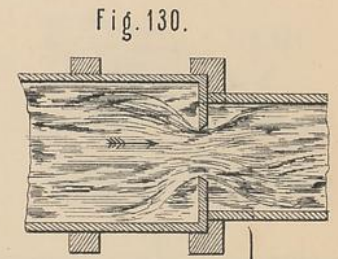


Fig. 130.

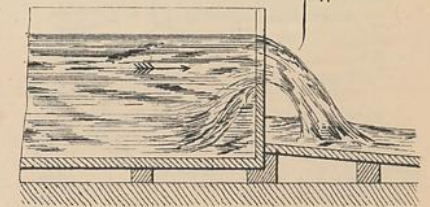


Fig. 131.

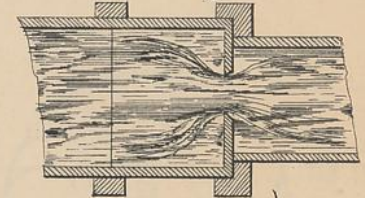


Fig. 132.

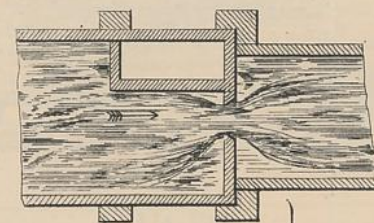


Fig. 133.

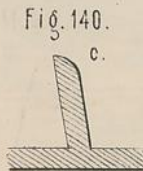
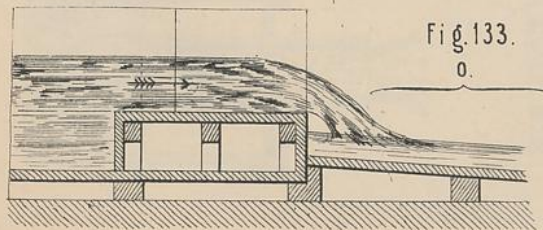


Fig. 140.

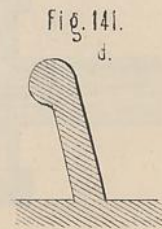
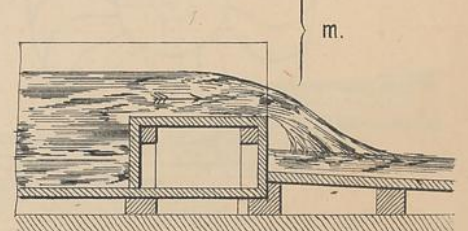
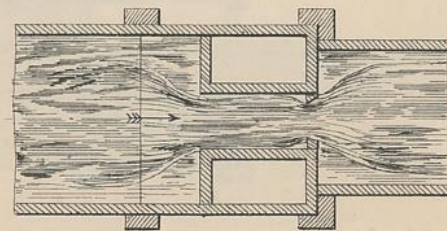


Fig. 141.



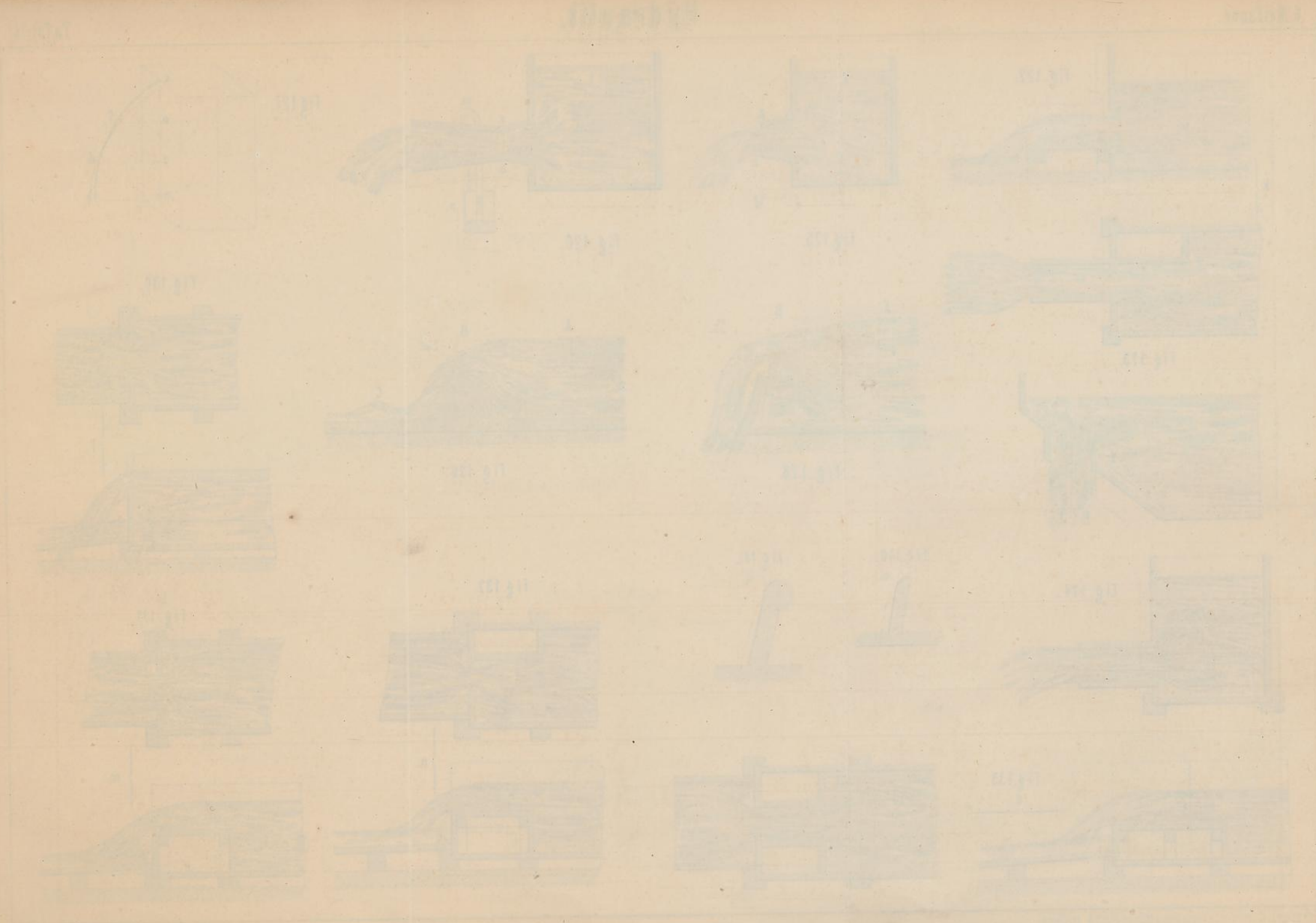
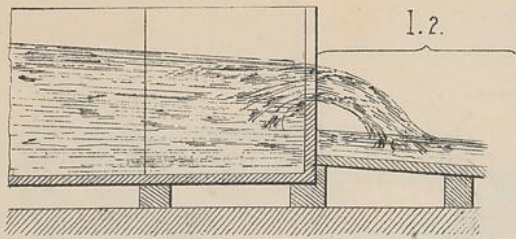
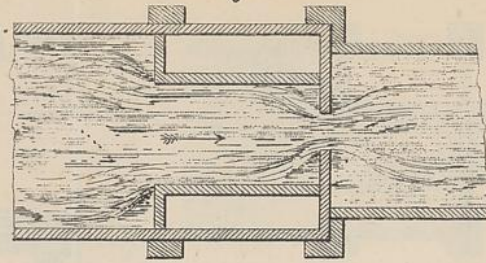


Fig. 134.



l. 4. Fig. 135.



l. 6. Fig. 135.

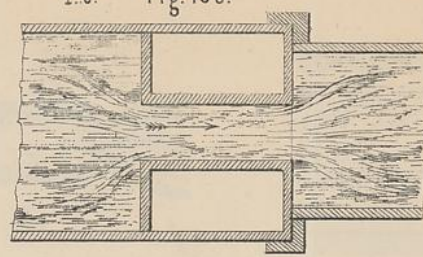


Fig. 136.

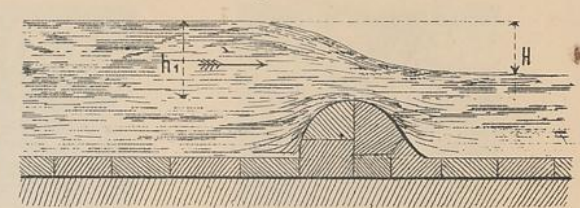


Fig. 137.

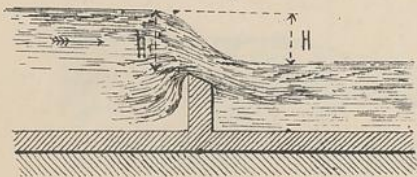


Fig. 138.

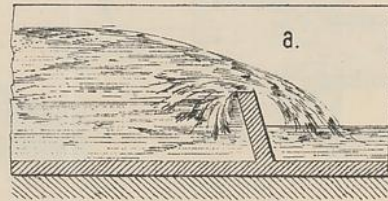


Fig. 139.

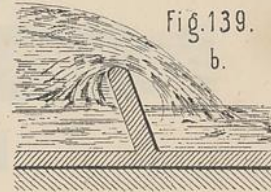


Fig. 140.

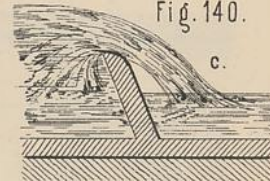


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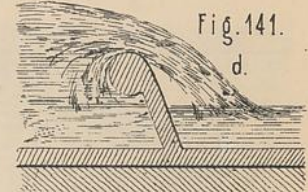


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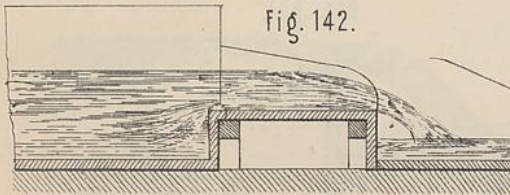


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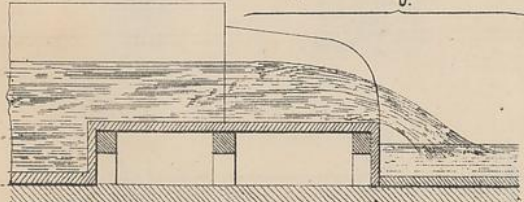


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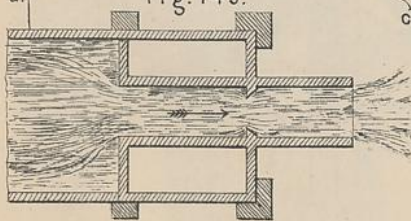


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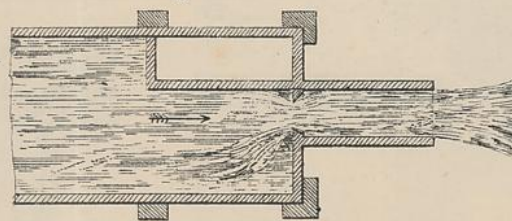


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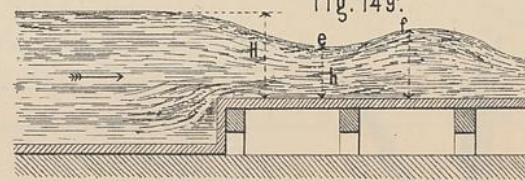


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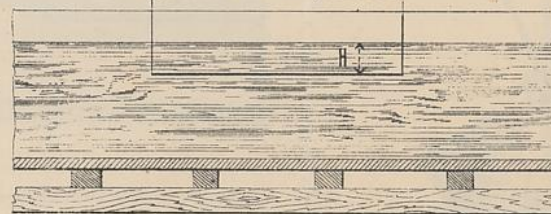


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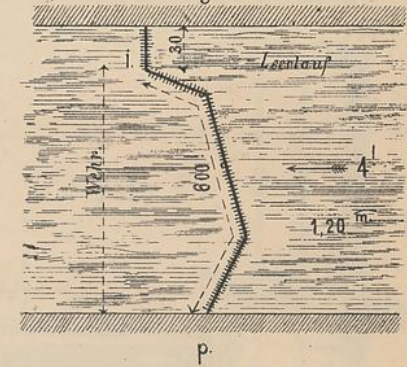


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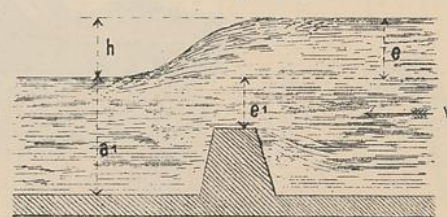
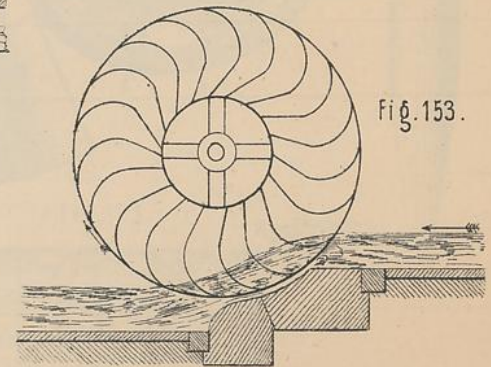
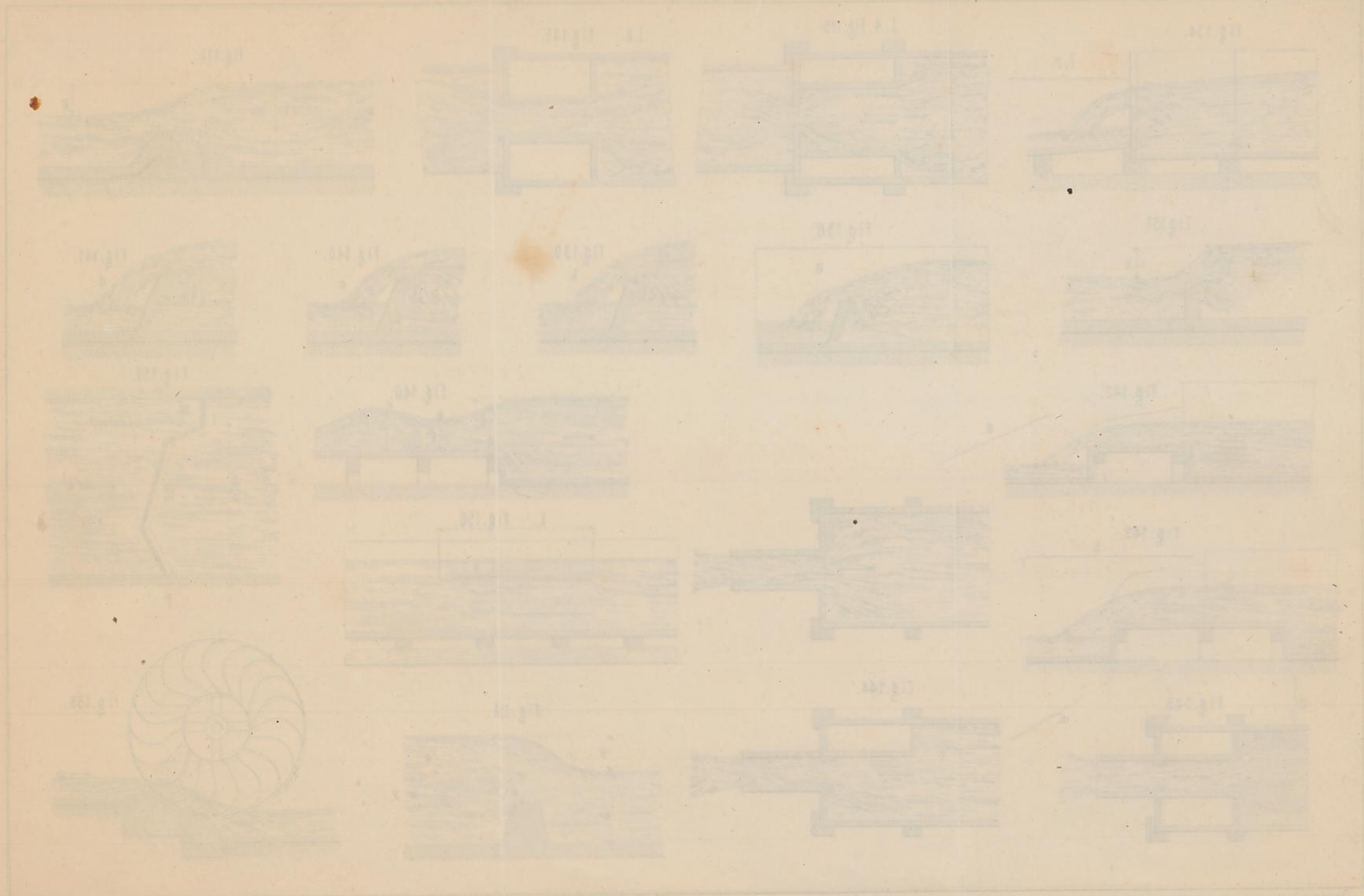
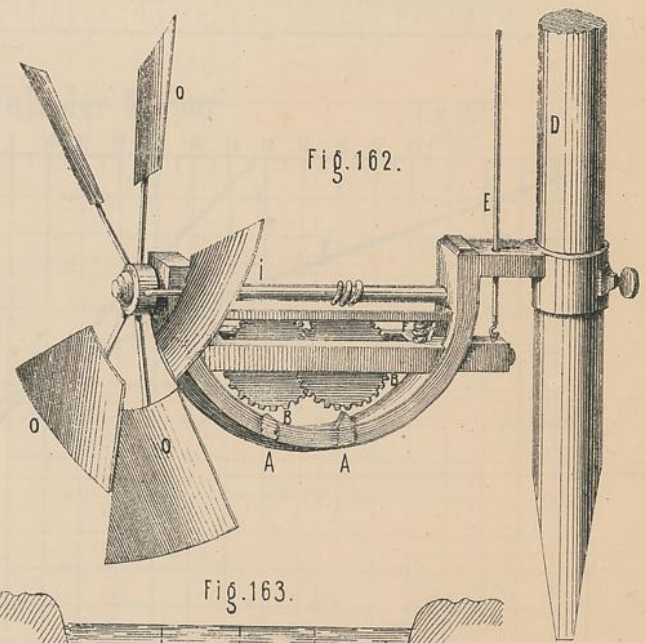
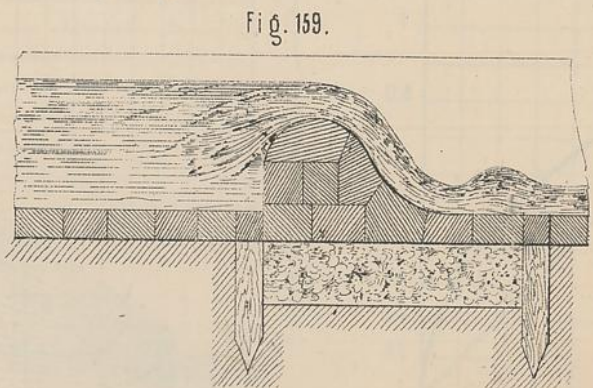
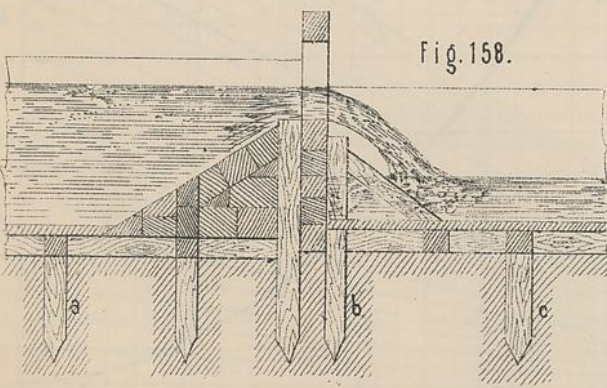
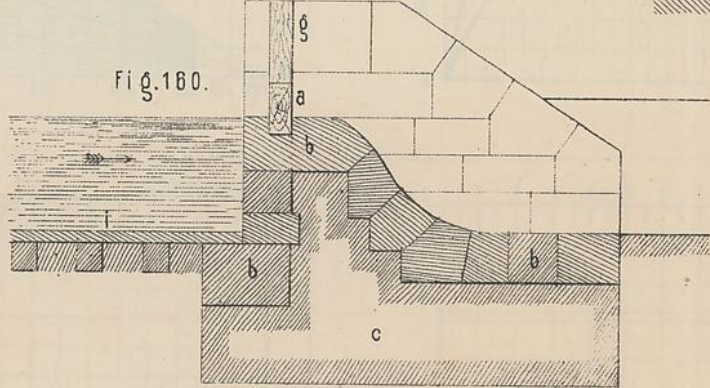
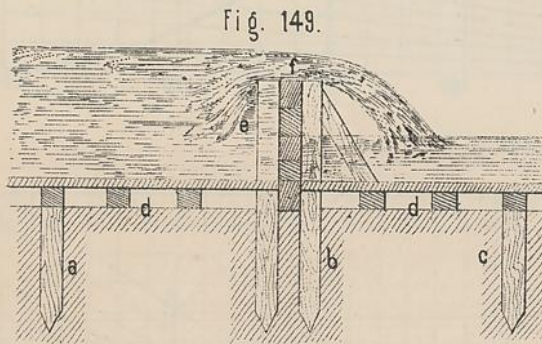
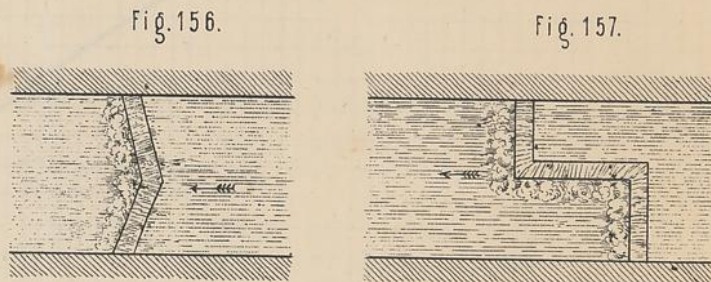
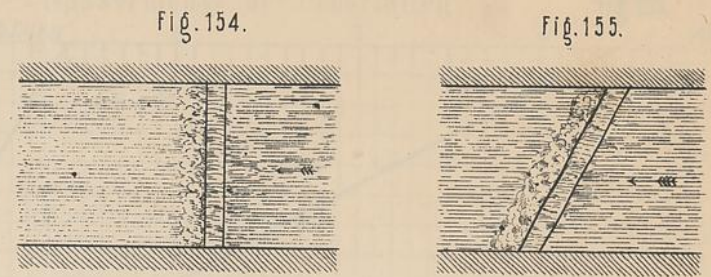
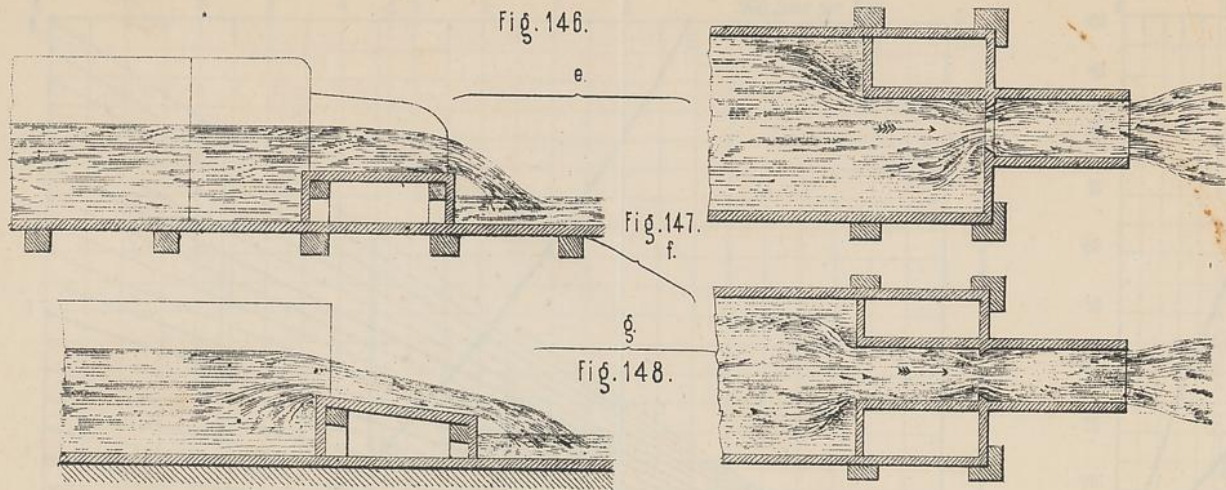


Fig. 153.







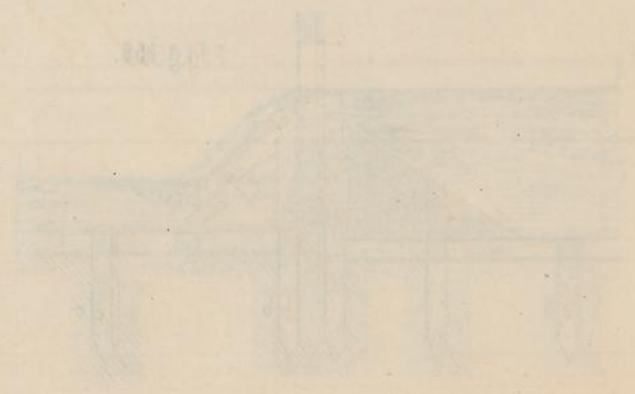
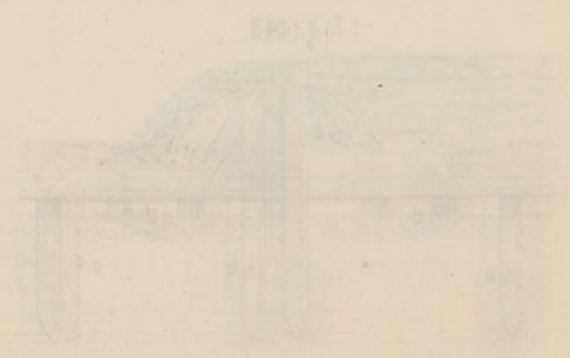
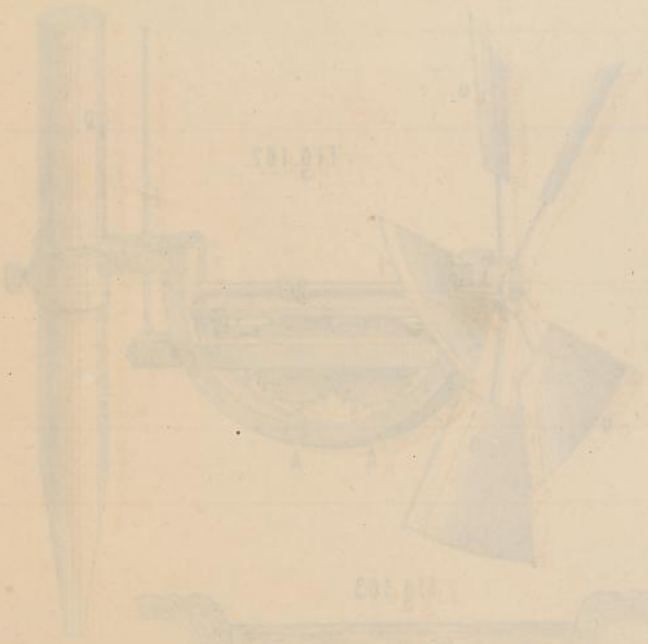
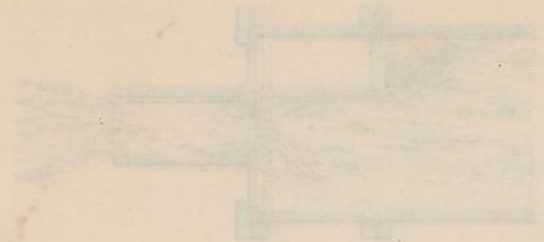
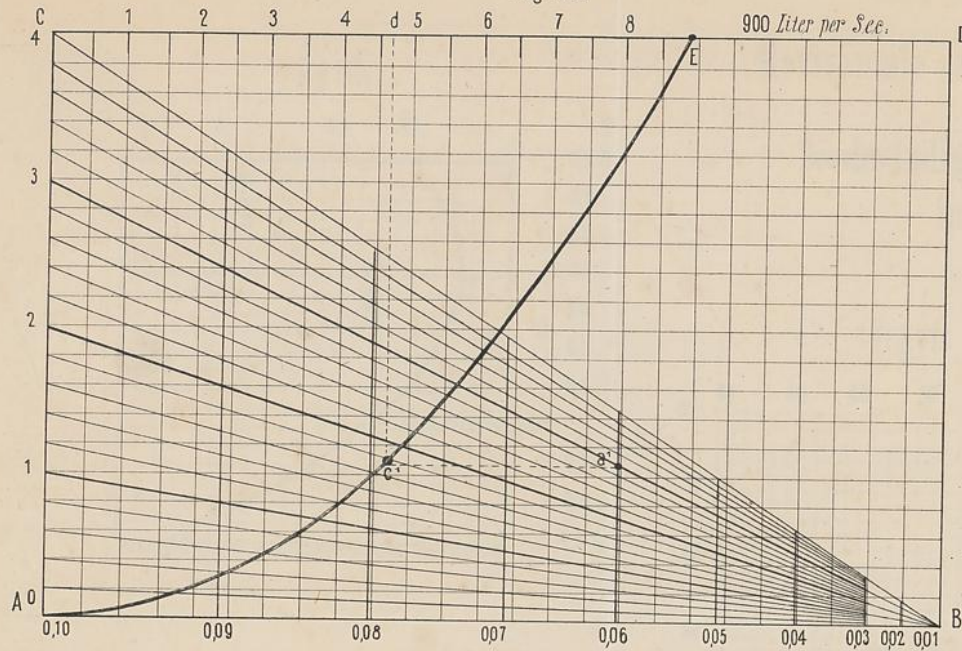


Fig 164.



Wassermenge bei Ueberfällen.

Fig 165.

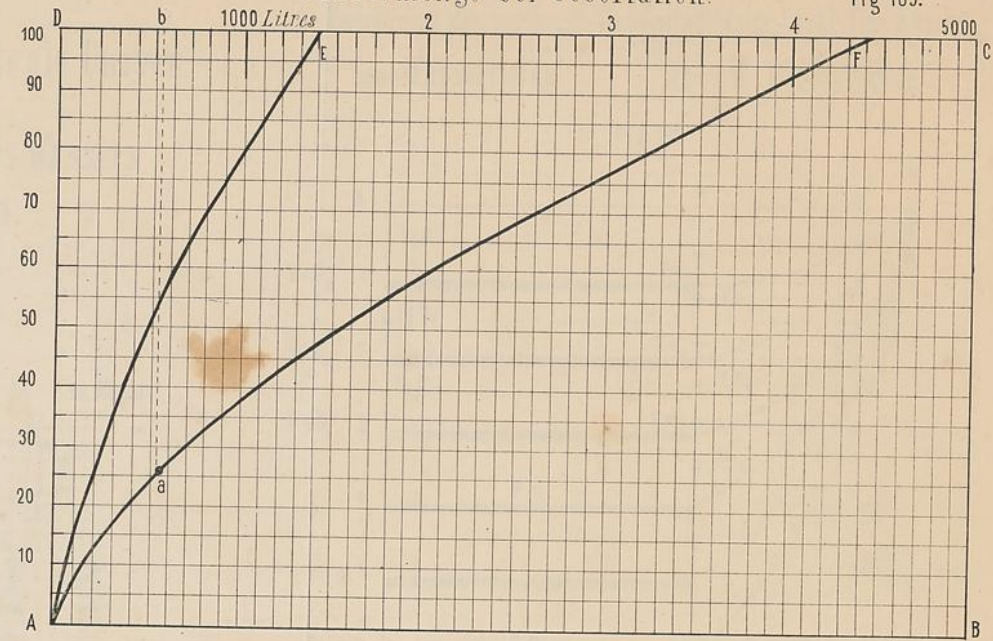
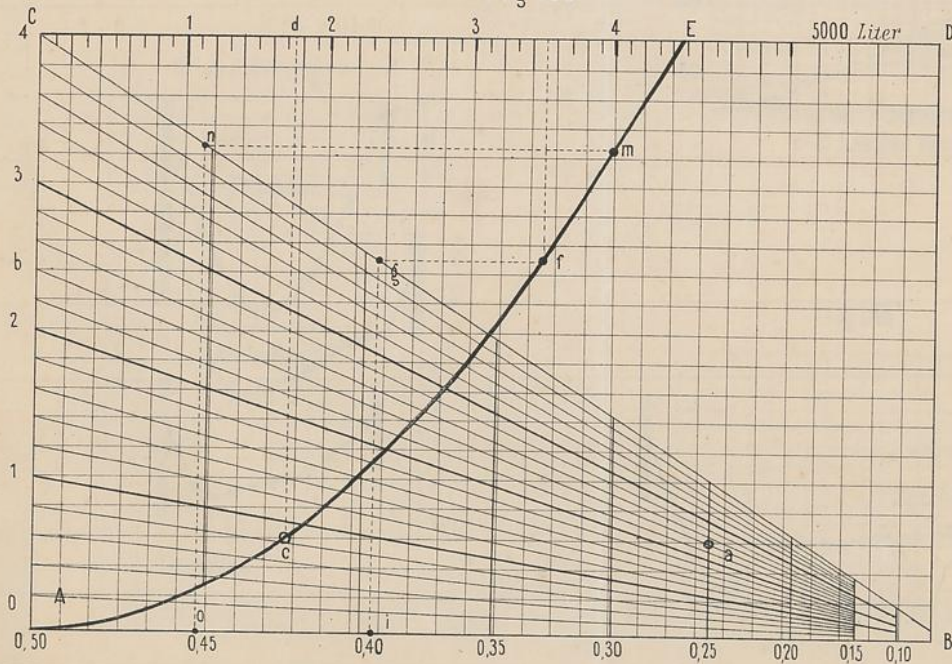
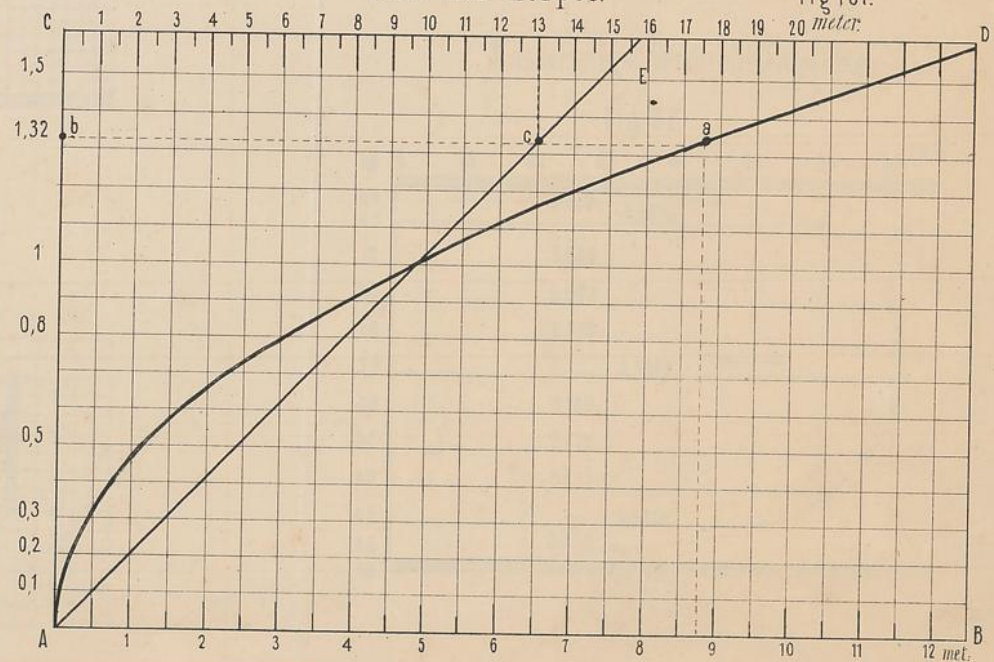


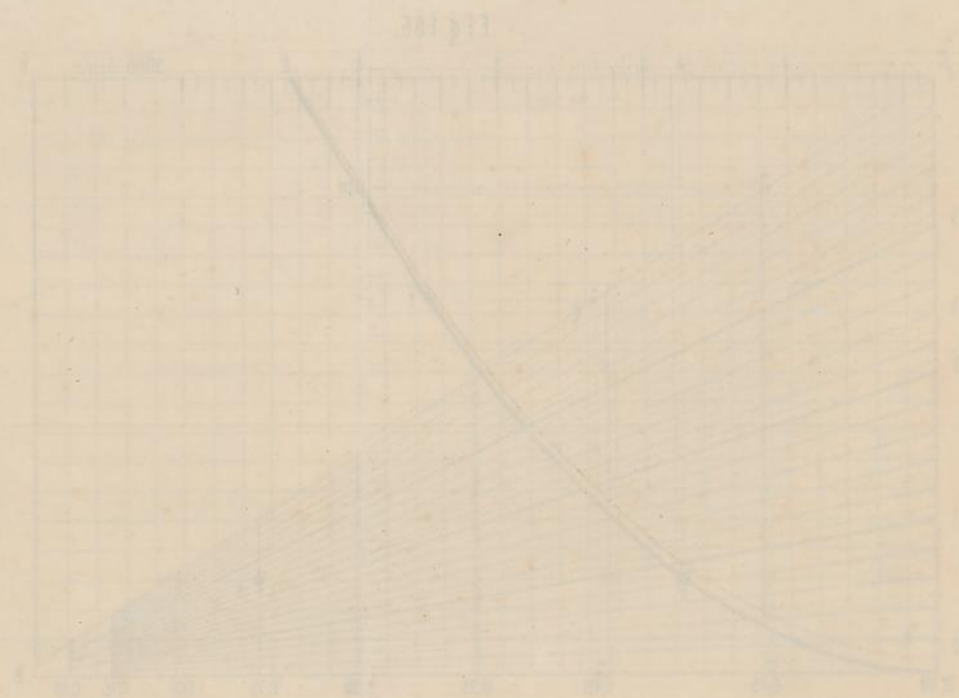
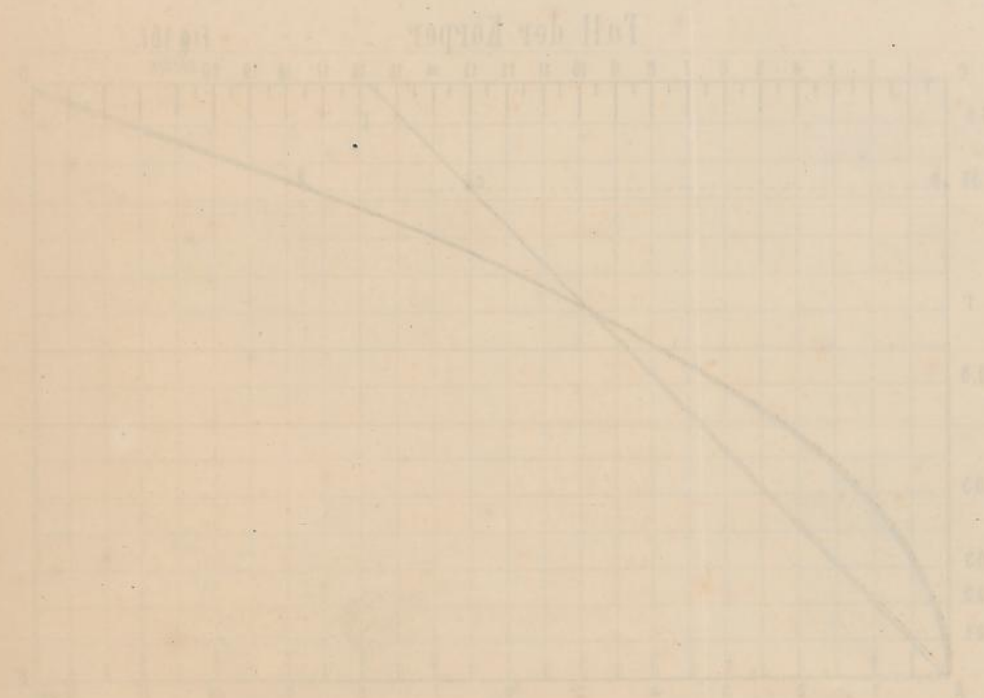
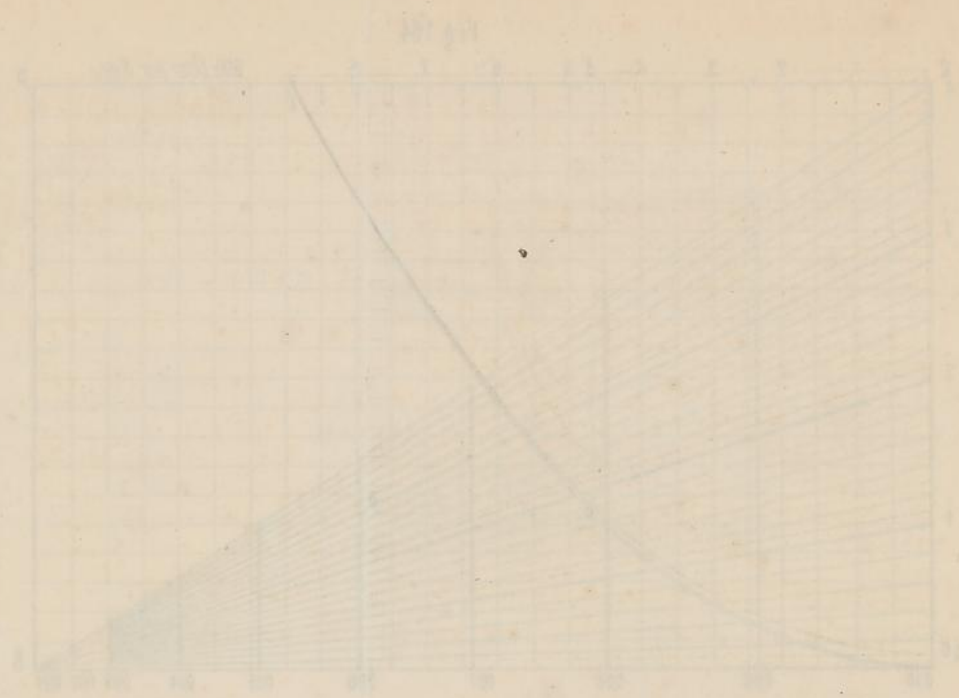
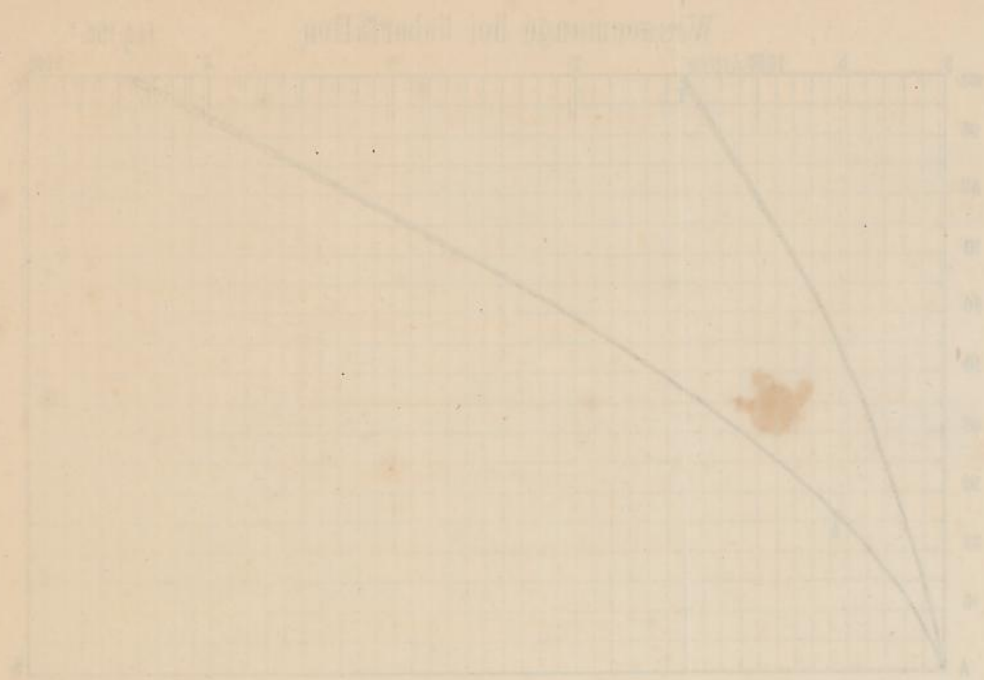
Fig 166.

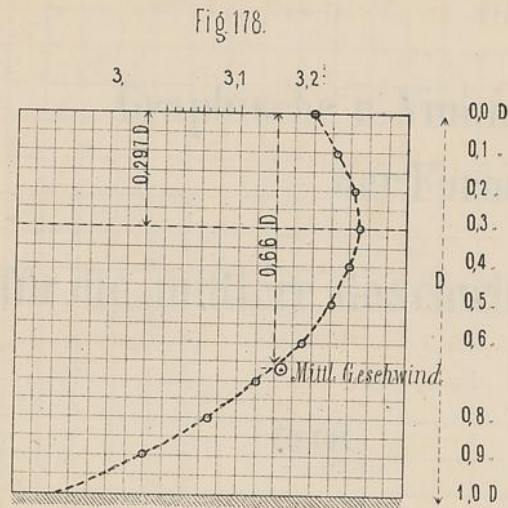


Fall der Körper.

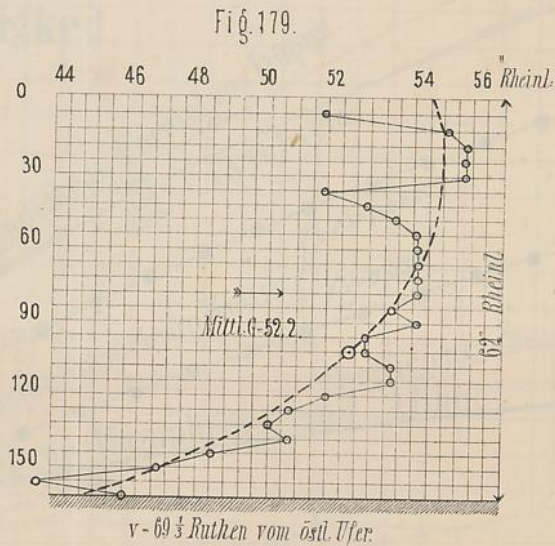
Fig 167.



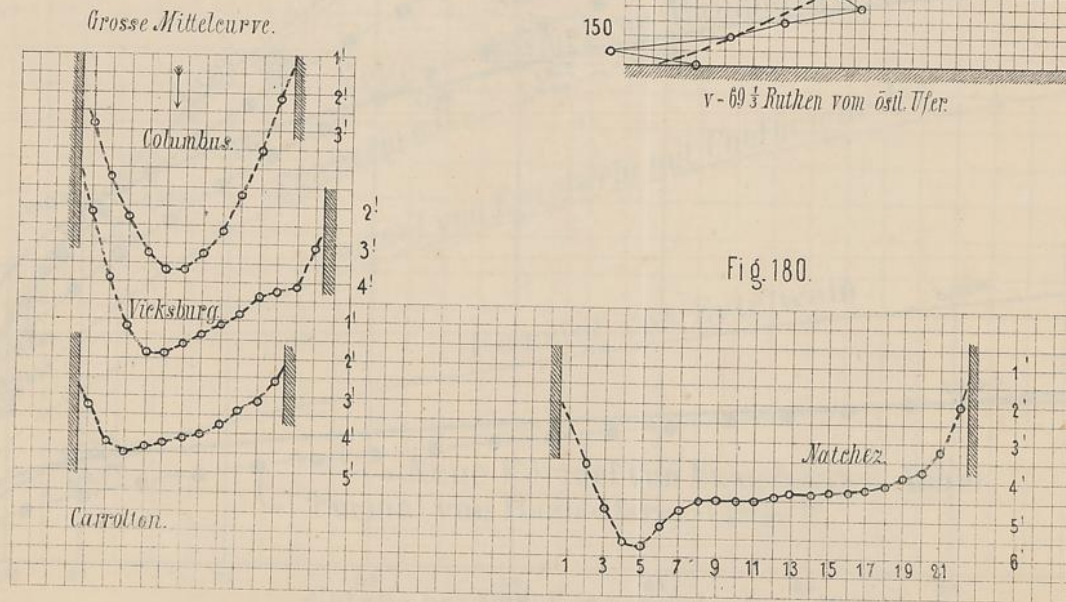
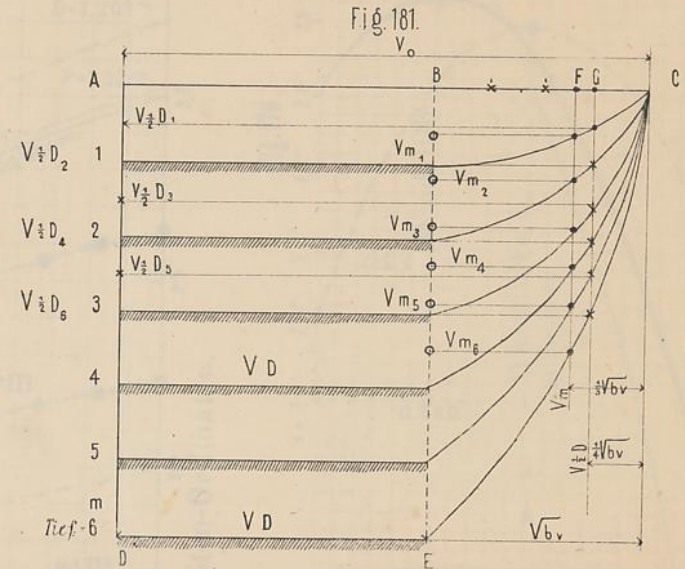




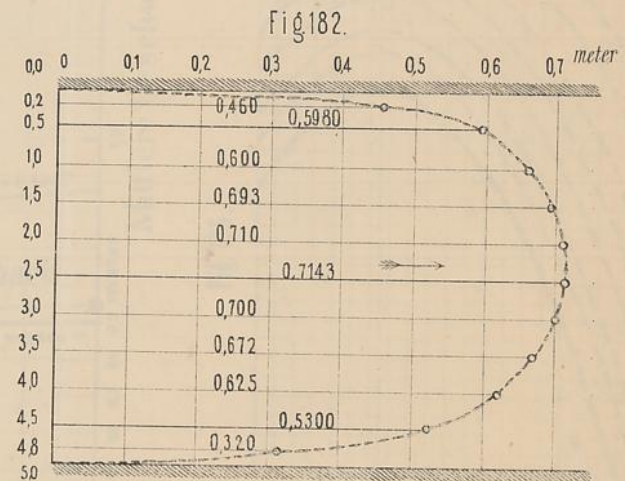
Horizontale u. verticale Curven
der
Geschwindigkeit des Wassers
in Flüssen.



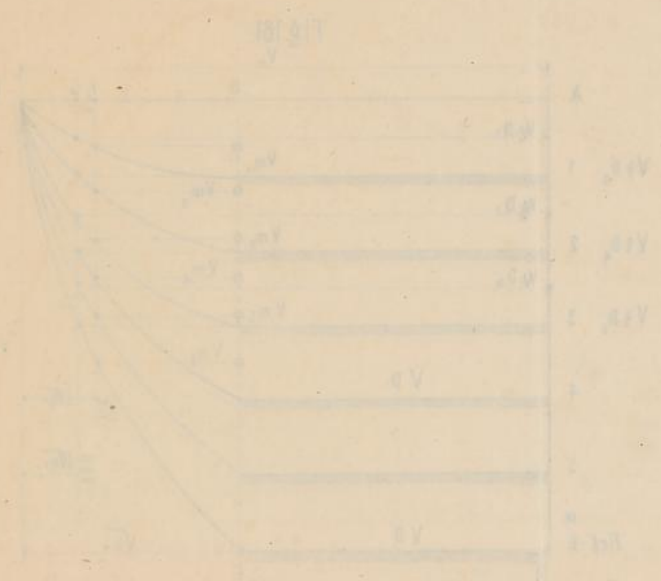
Verhältnisse der verticalen Geschwindigkeits-Parab. für verschie-
dene Wassertiefen. Axe am Wasserspiegel.



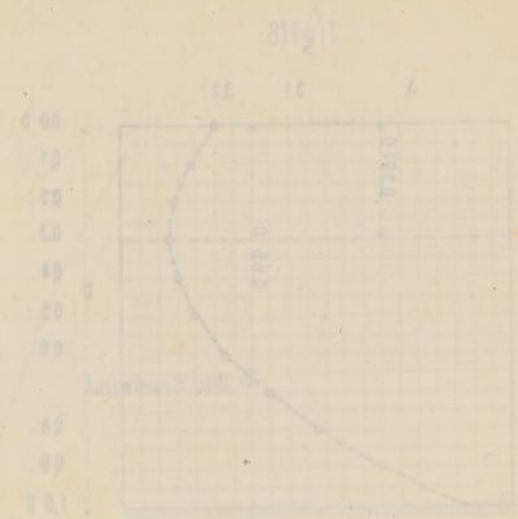
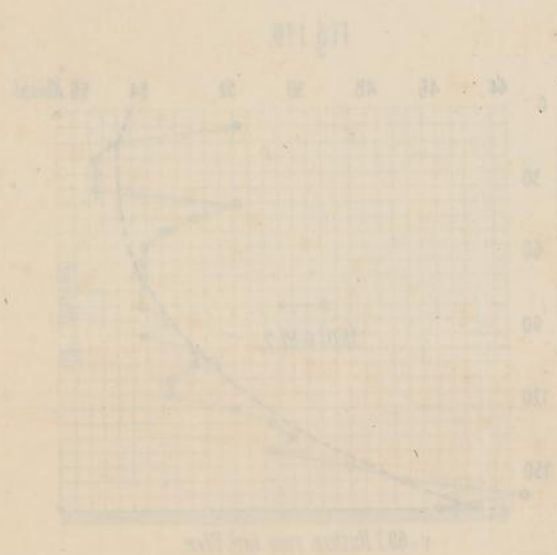
Wasserspiegel-Geschwindigkeits-Curve.



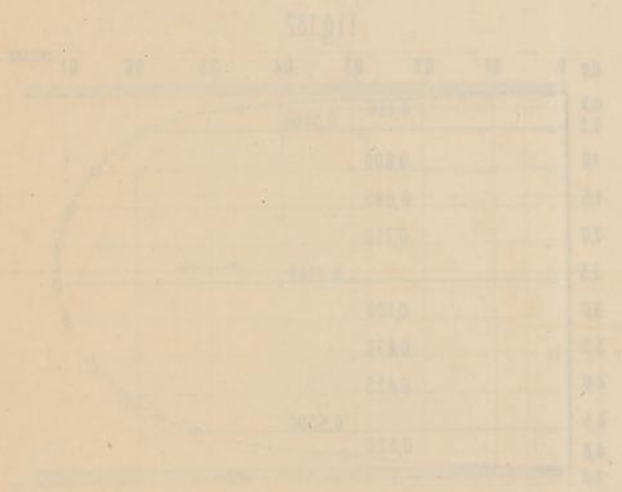
Bestimmung der mitteln Geschwindigkeit v_m in Röhren

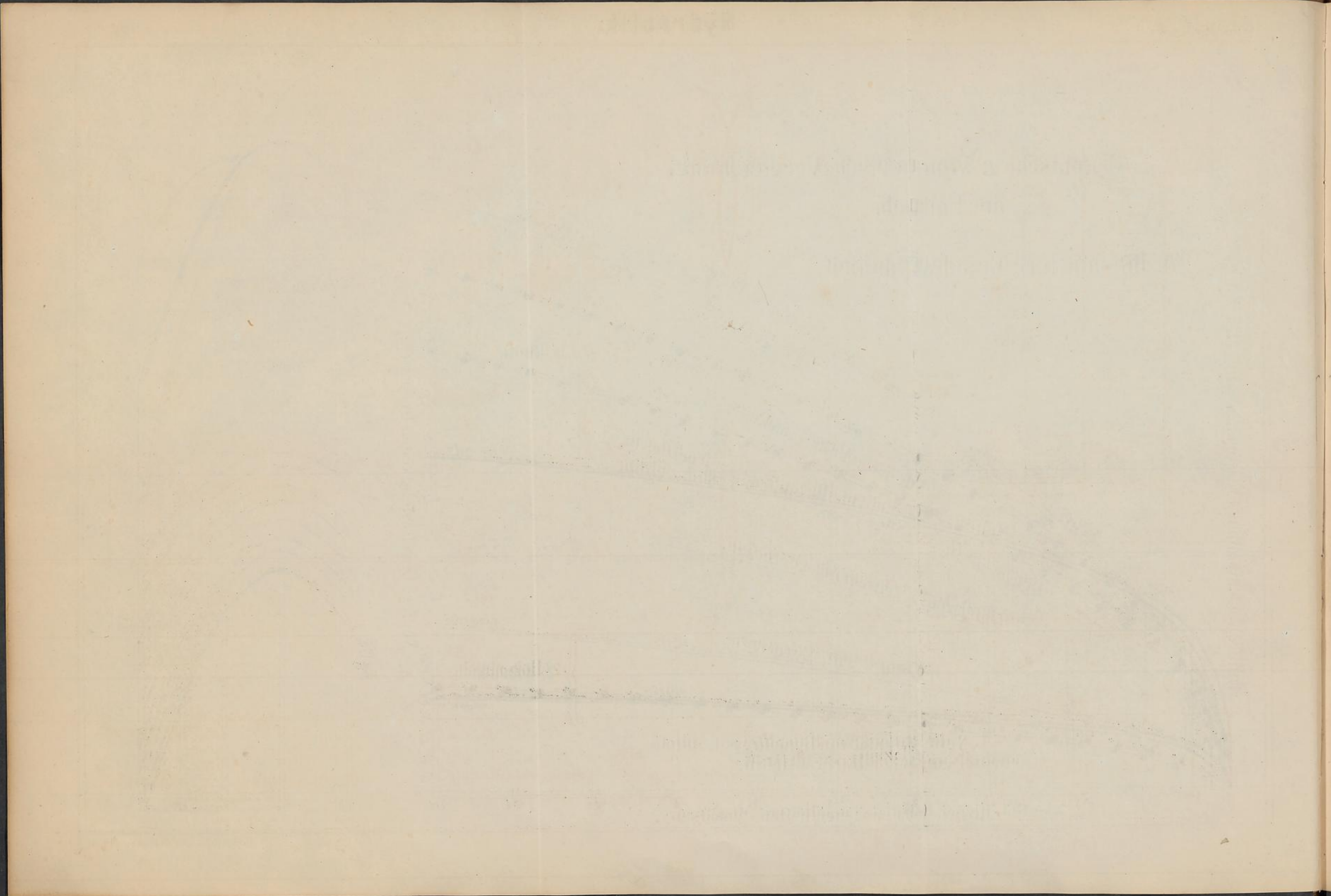


Horizontale u. vertikale Kurven
Geschwindigkeit des Wassers
in Röhren



Korrekturen





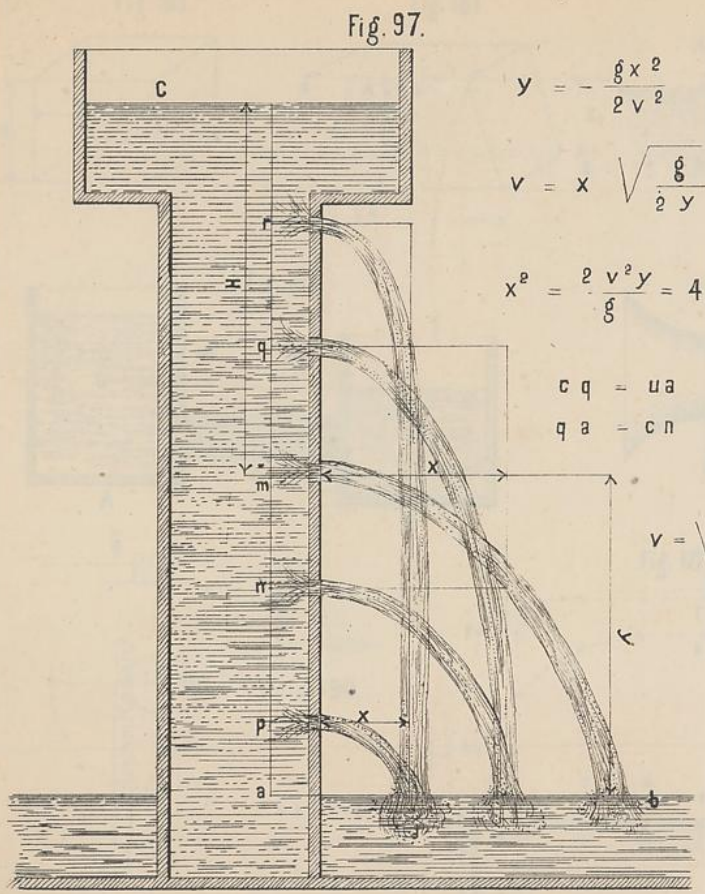


Fig. 97.

$$y = -\frac{g x^2}{2 v^2}$$

$$v = x \sqrt{\frac{g}{2 y}}$$

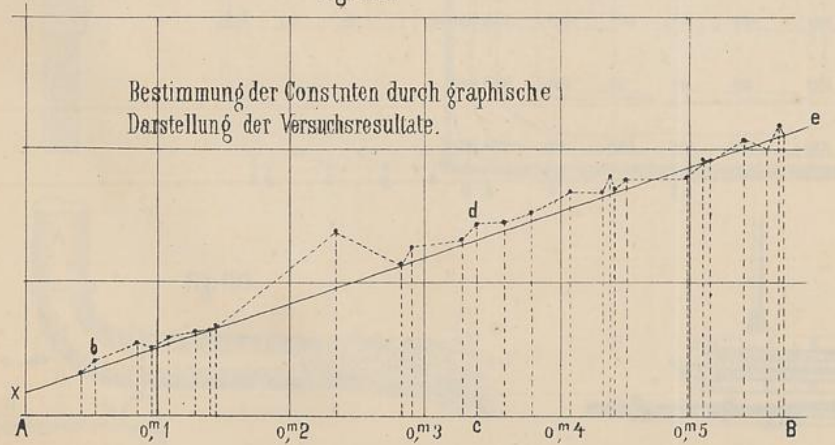
$$x^2 = \frac{2 v^2 y}{g} = 4 H y.$$

$$c q = u a$$

$$q a = c n$$

$$v = \sqrt{2 g H}.$$

Fig. 177.



Bestimmung der Constanten durch graphische Darstellung der Versuchsergebnisse.

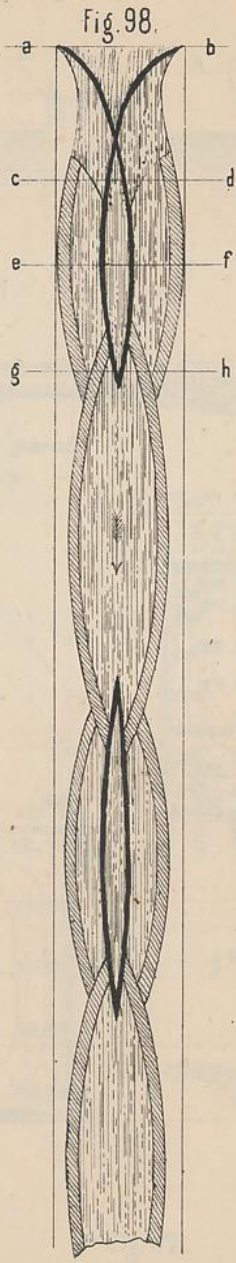
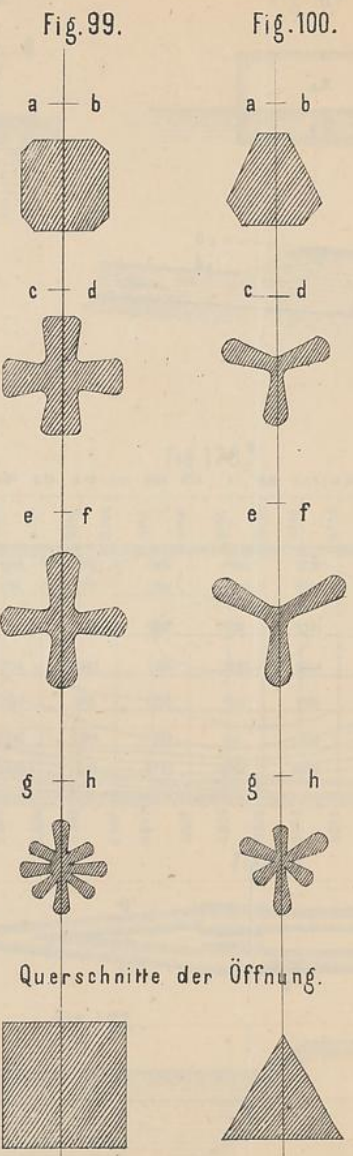
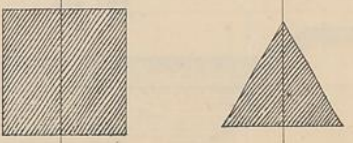


Fig. 98.



Querschnitte der Öffnung.



Die aufeinanderfolgenden Querschnitte der vertical ausfließenden Wasserstrahlen.

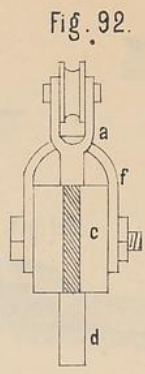


Fig. 92.

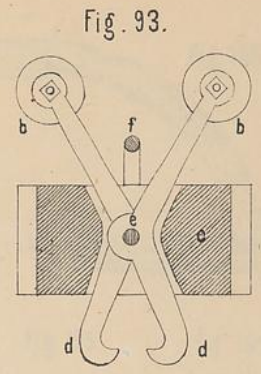


Fig. 93.

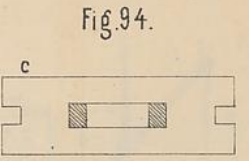


Fig. 94.

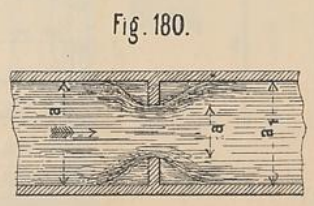


Fig. 180.

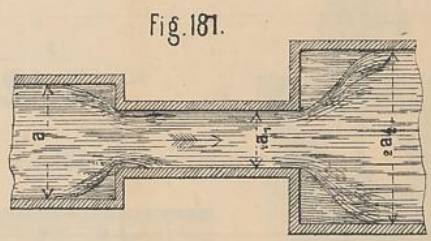


Fig. 181.

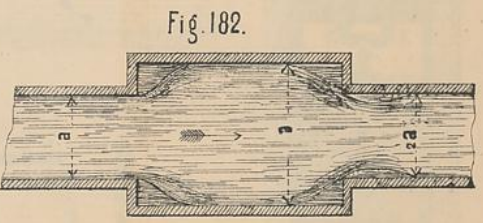


Fig. 182.

Fig. 97

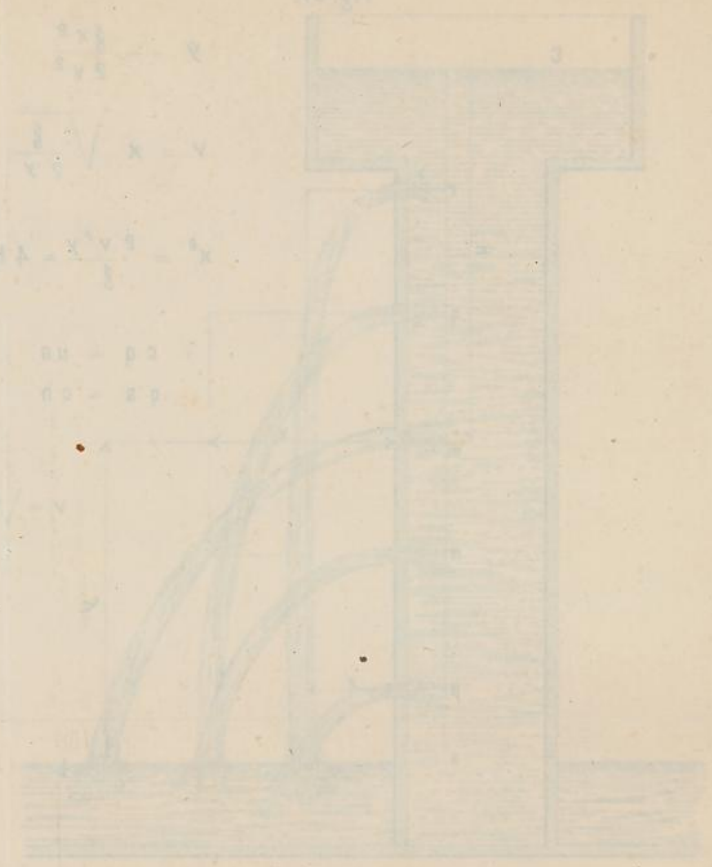


Fig. 97

Bestimmung der Kräfte durch graphische
Bestimmung der Kräfte durch graphische

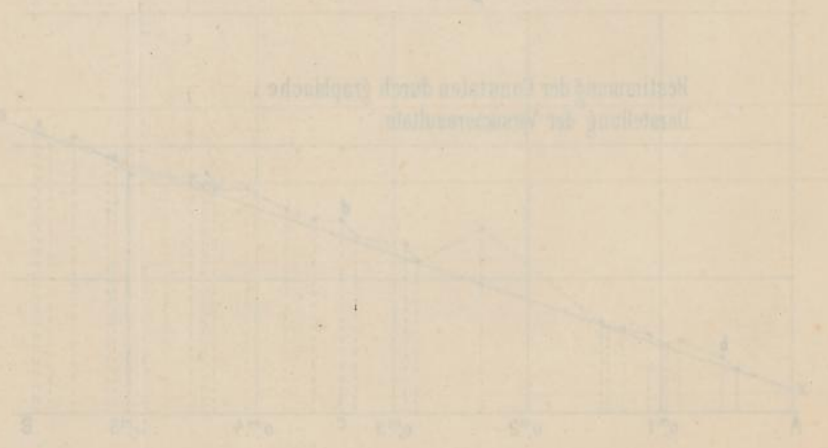


Fig. 98



Fig. 99



Fig. 100



Querschnitte der Öffnung

Die aufeinanderfolgenden Querschnitte
der vertical auslaufenden Wasserstrahlen

Fig. 95



Fig. 96



Fig. 94



Fig. 100

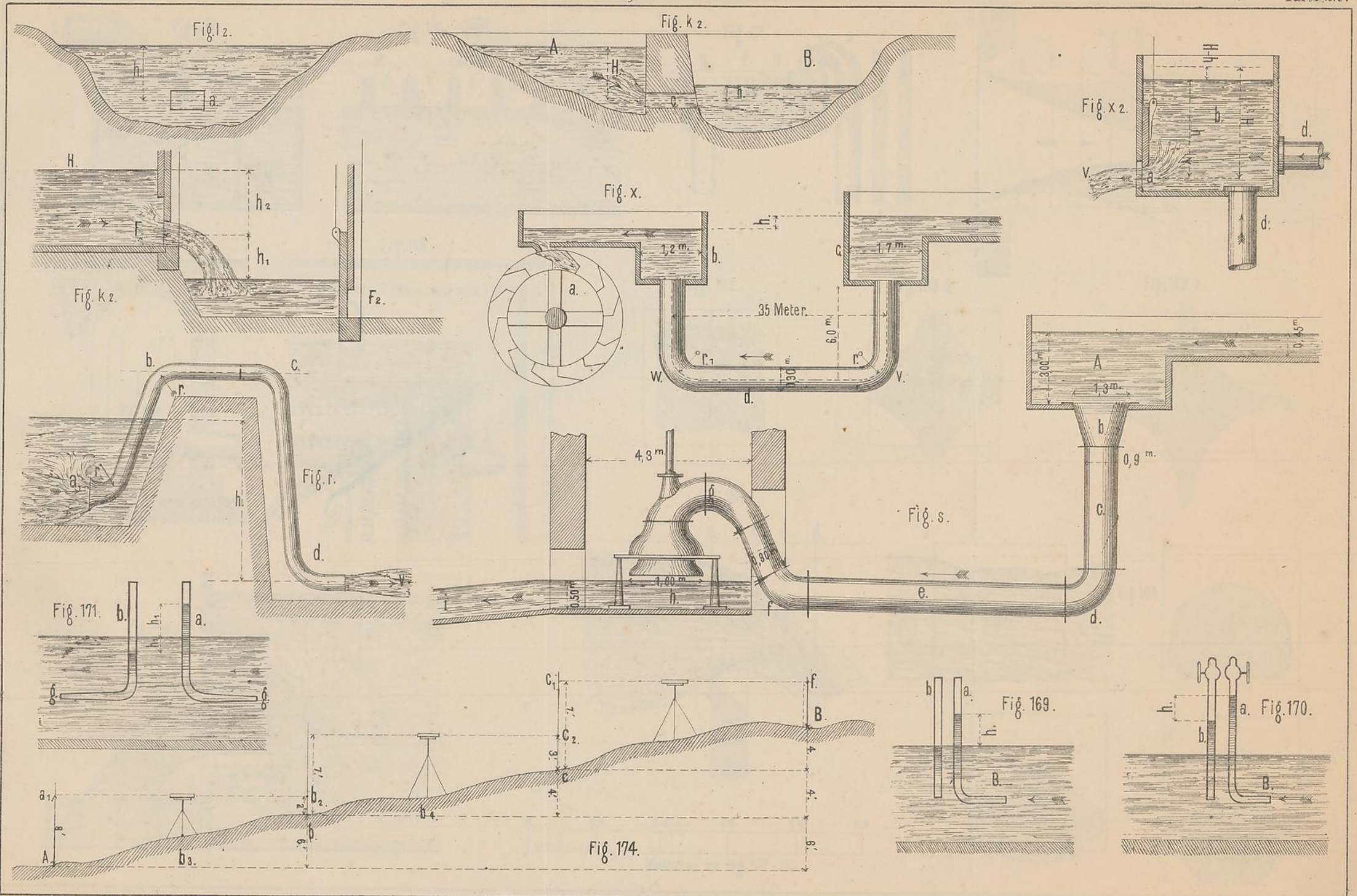


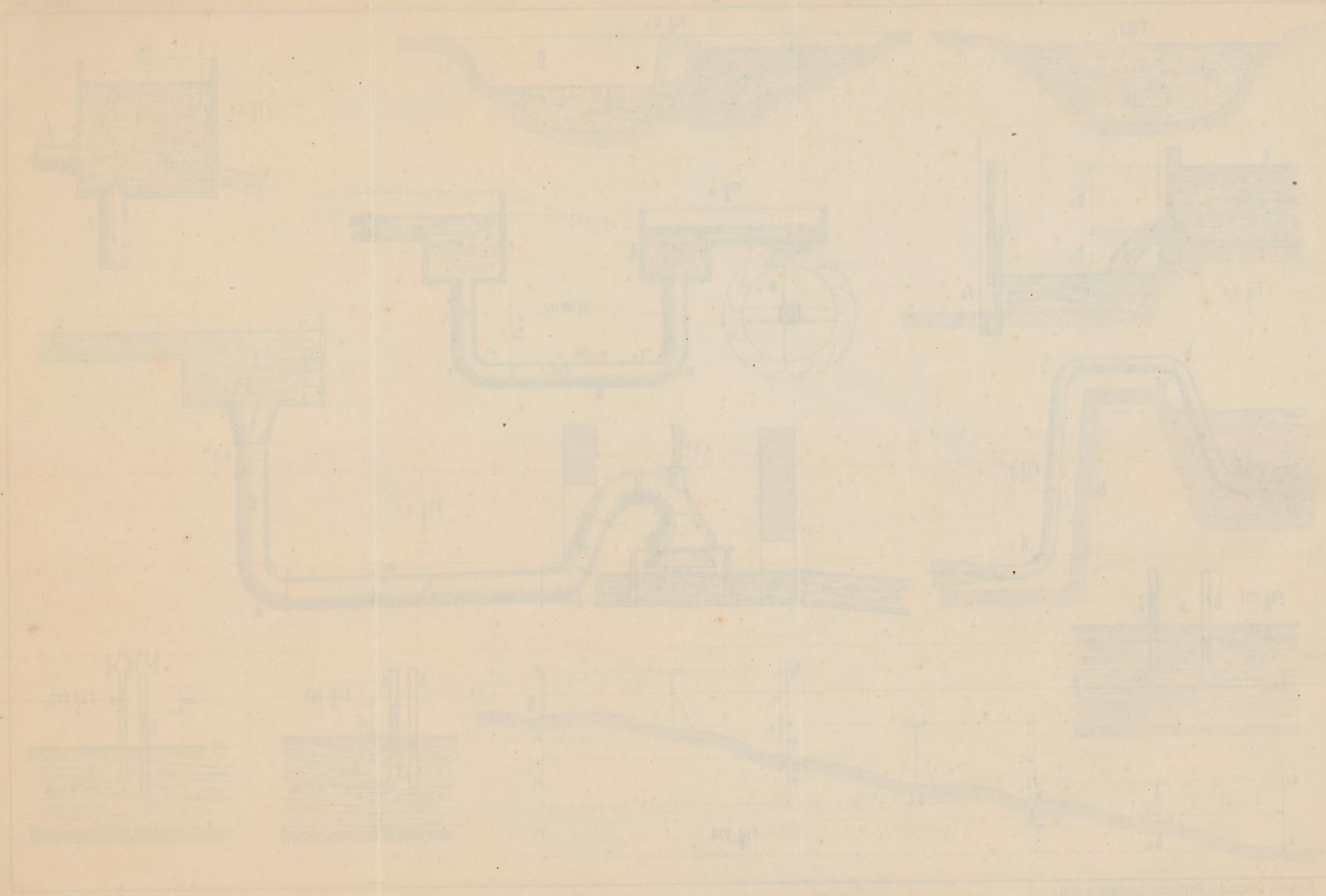
Fig. 101



Fig. 102







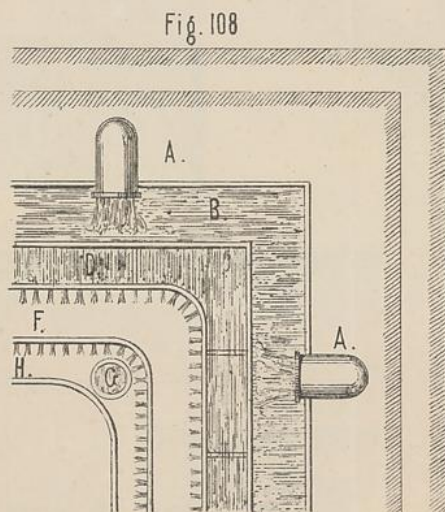
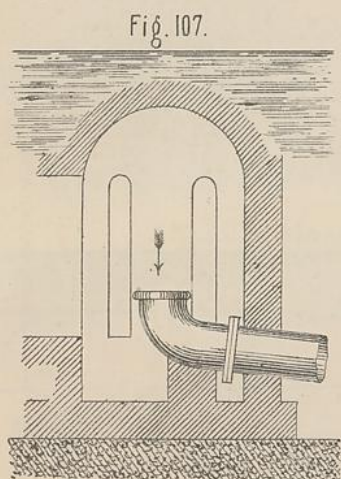
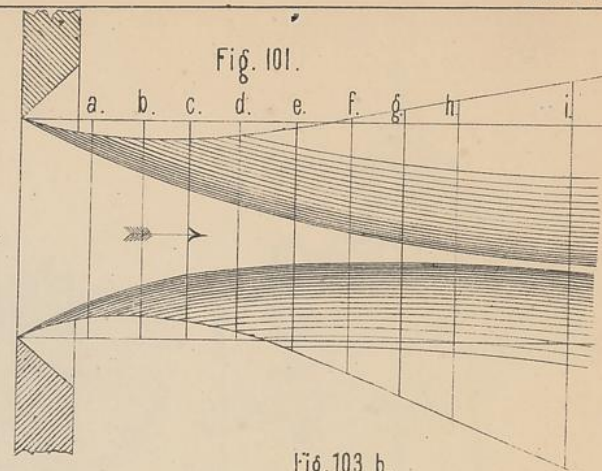
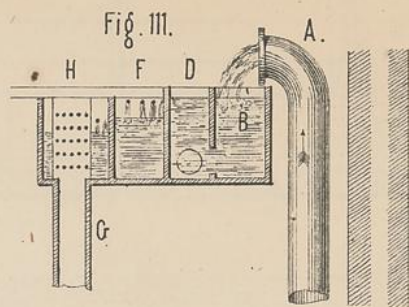
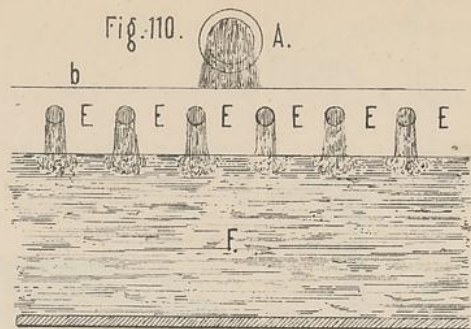
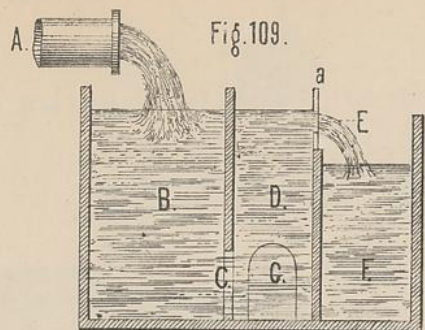


Fig. 102.

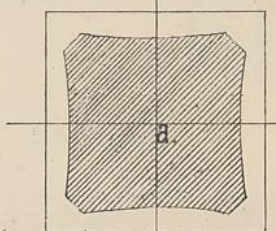


Fig. 103 a.

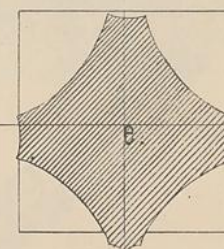


Fig. 103 b.

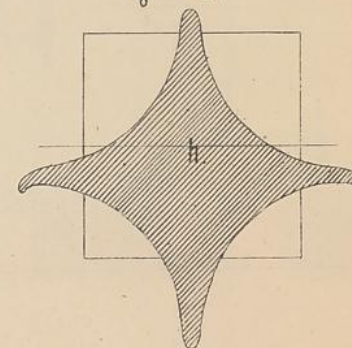


Fig. 104.

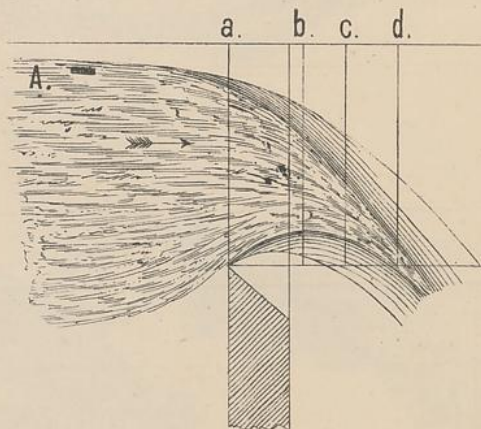


Fig. 105.

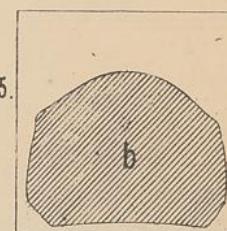


Fig. 105.

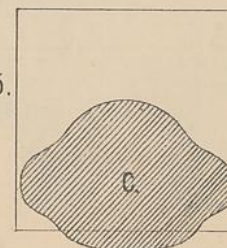
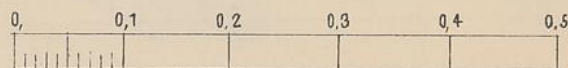
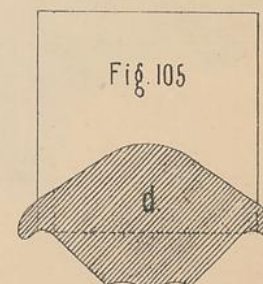
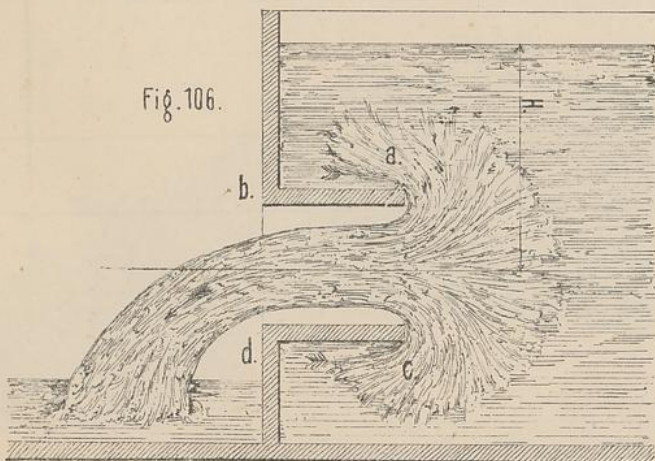


Fig. 105.



Mafsstab zu Fig. 102-105.

Fig. 106.



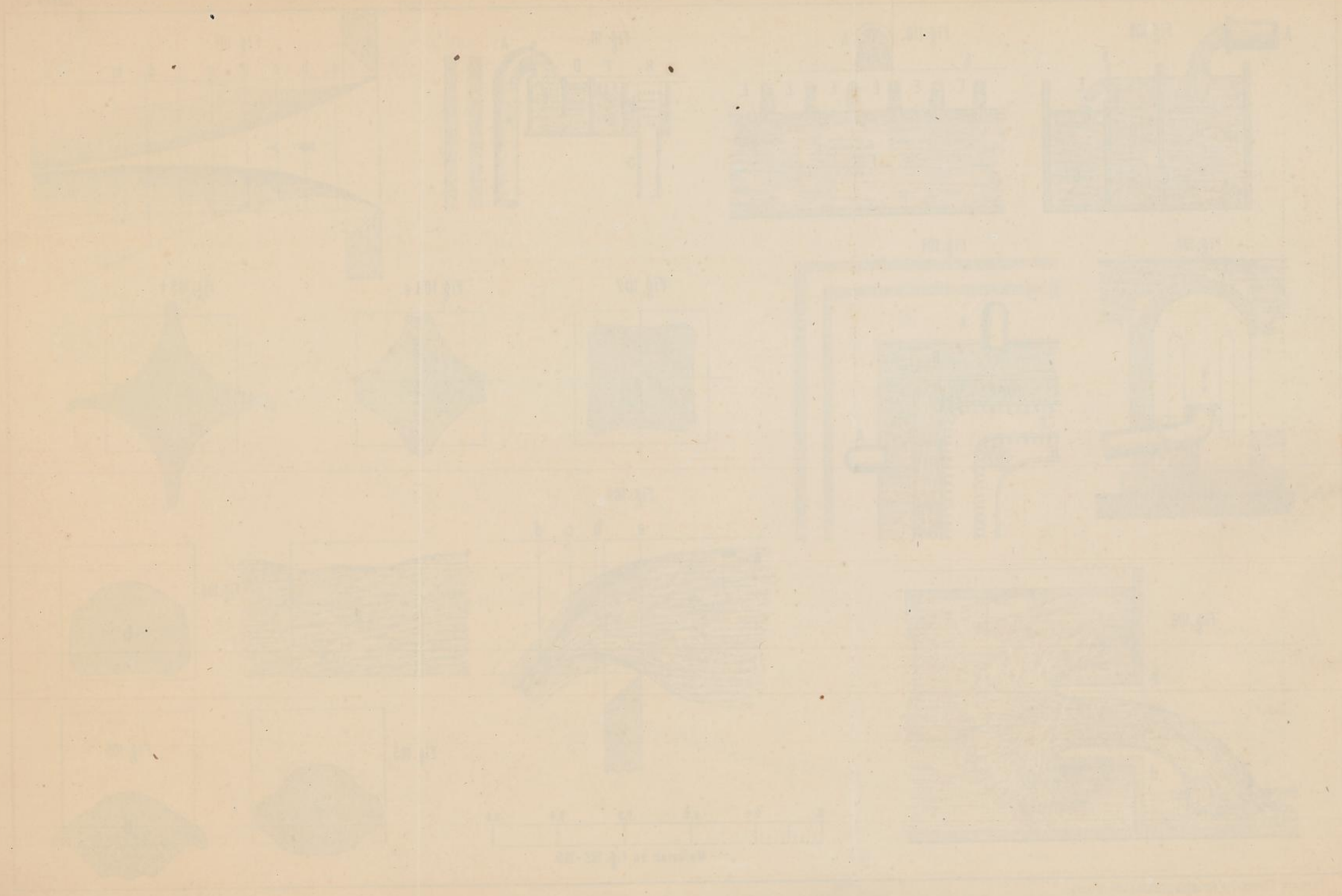
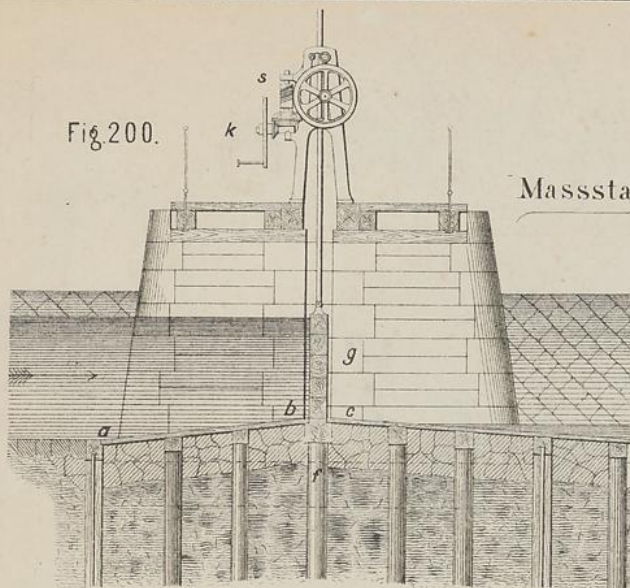


Fig.200.



Massstab = 1: 100.

Fig.201.

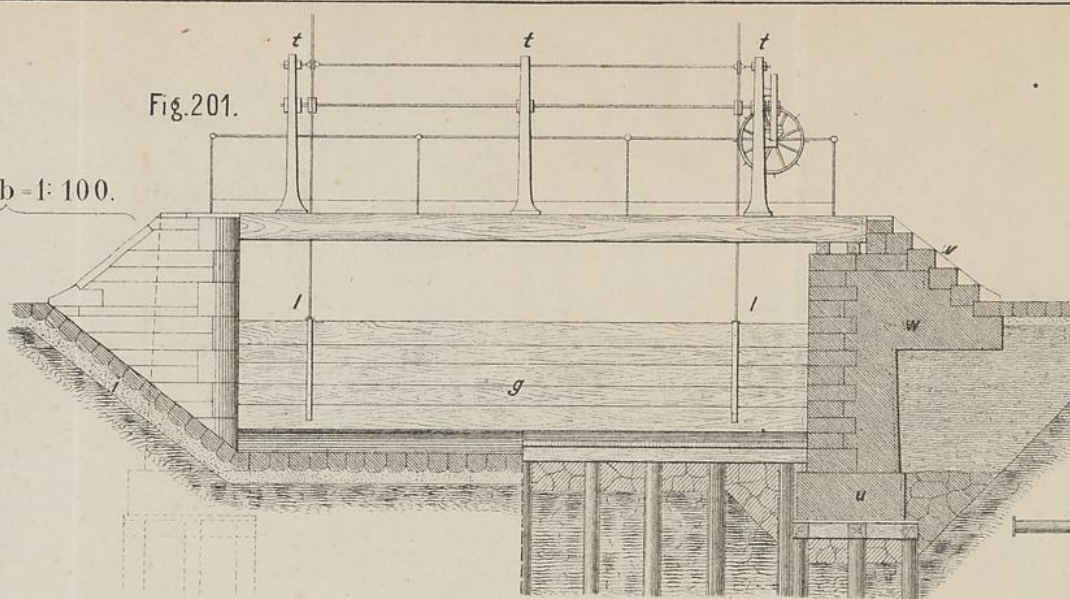


Fig.202.

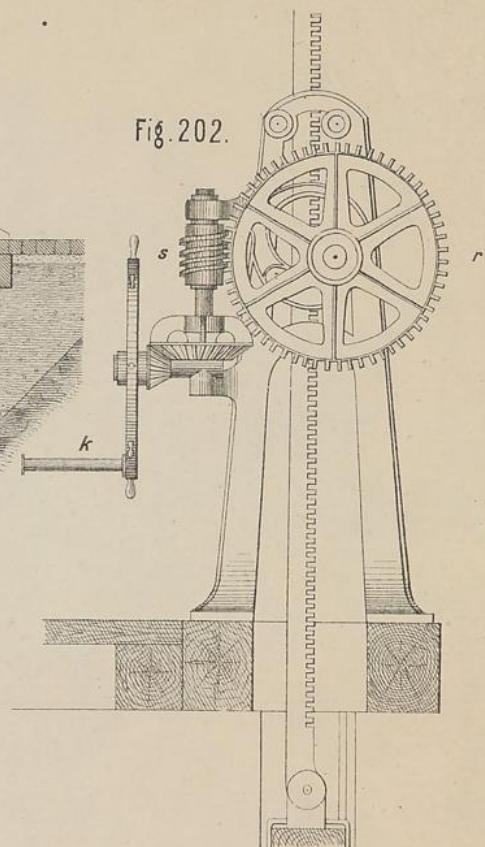


Fig.203. Massstab=1: 100.

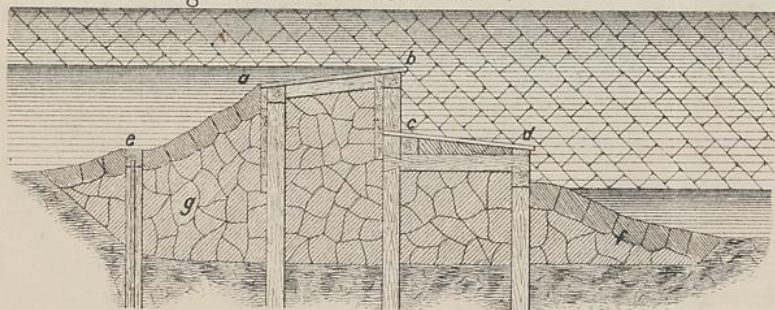


Fig.204.

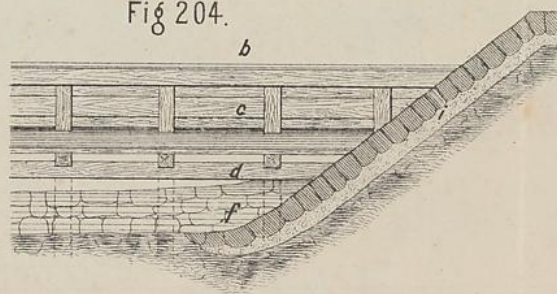


Fig.205.

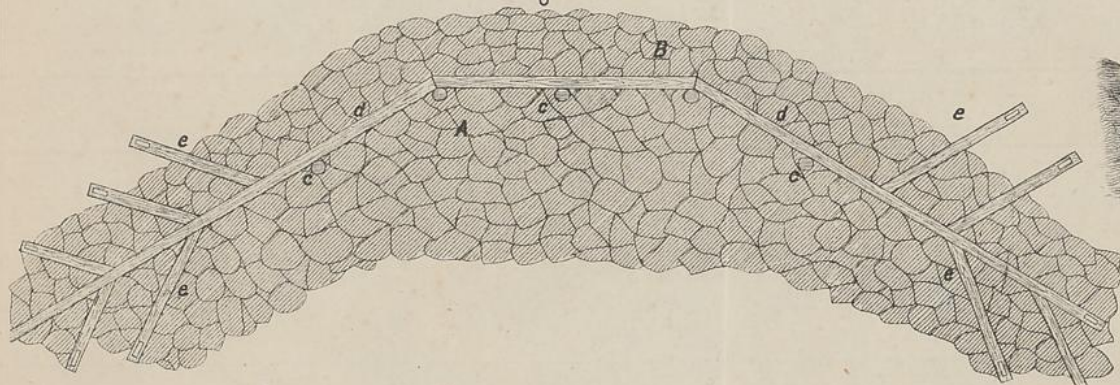
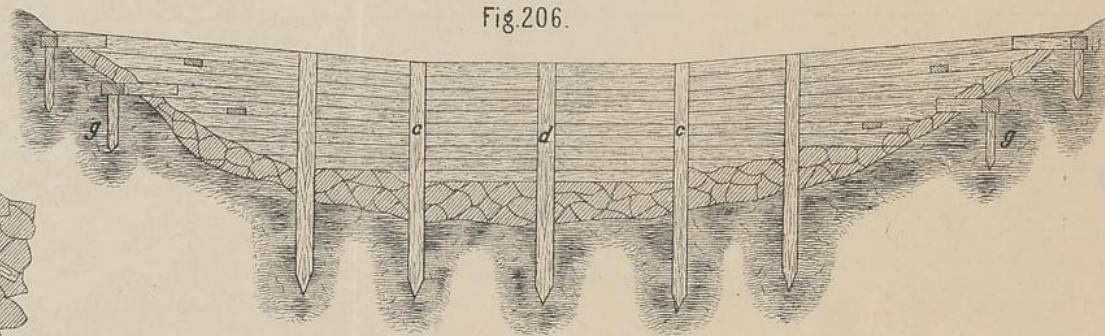
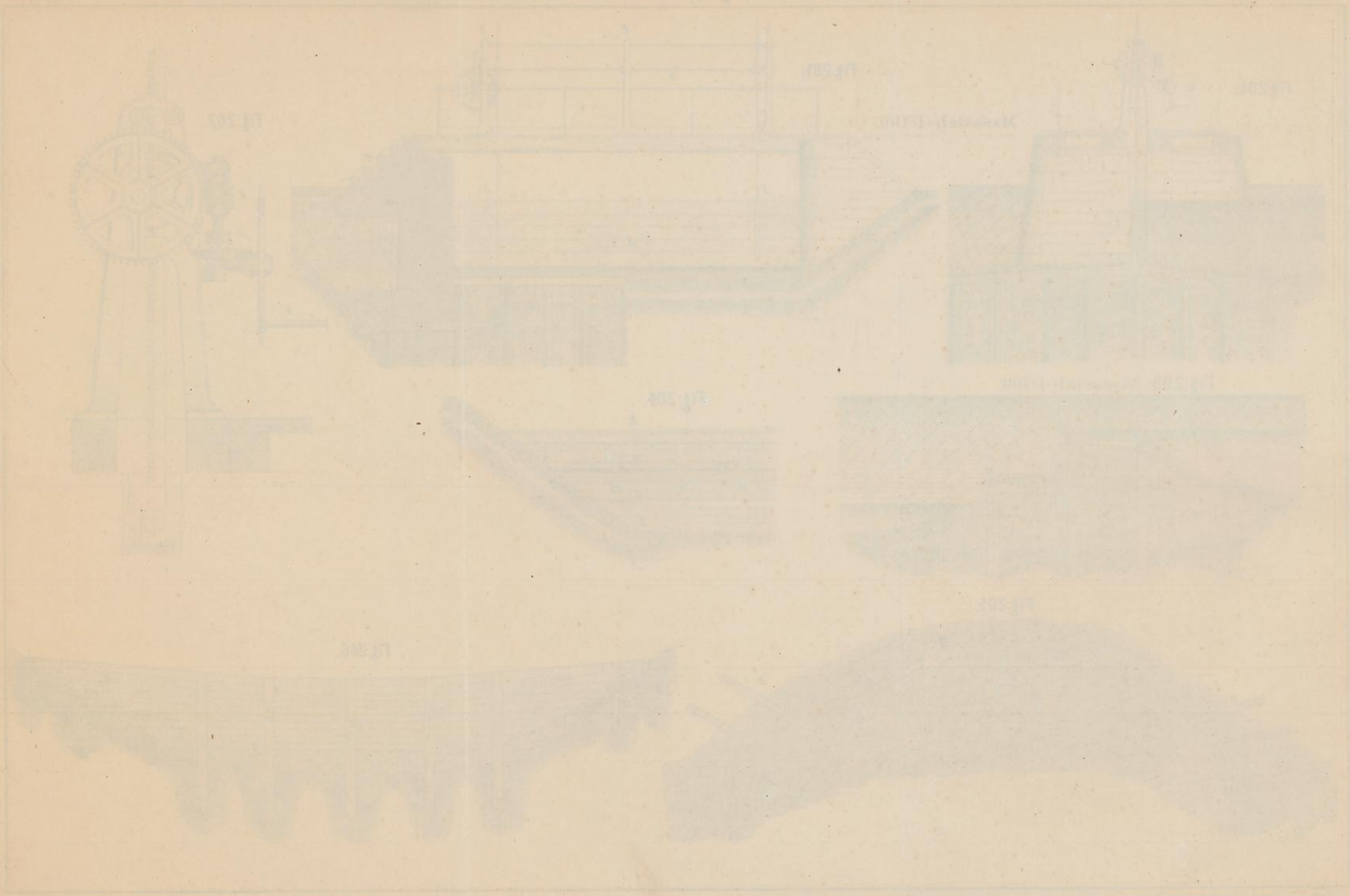


Fig.206.





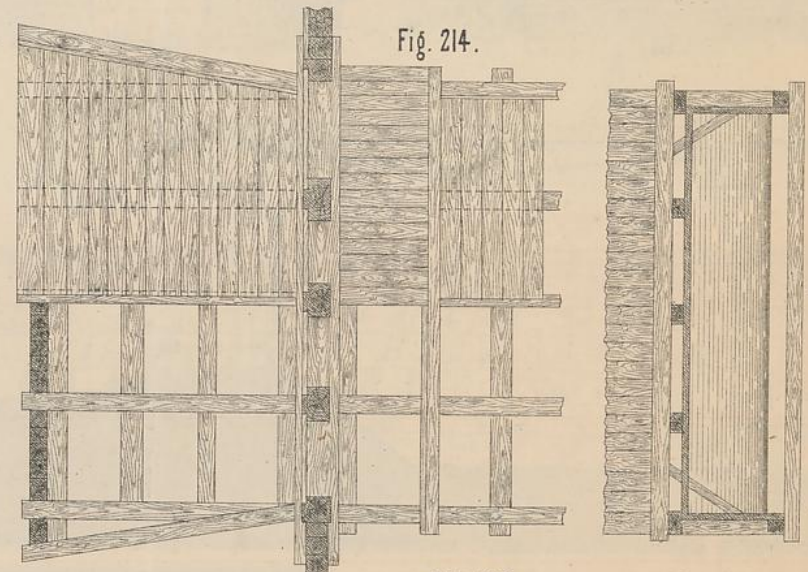
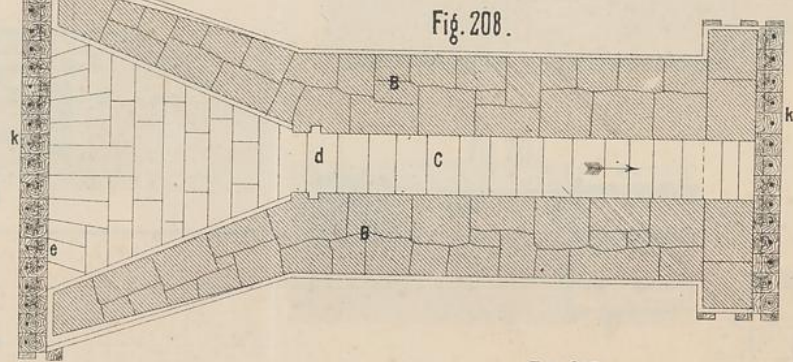
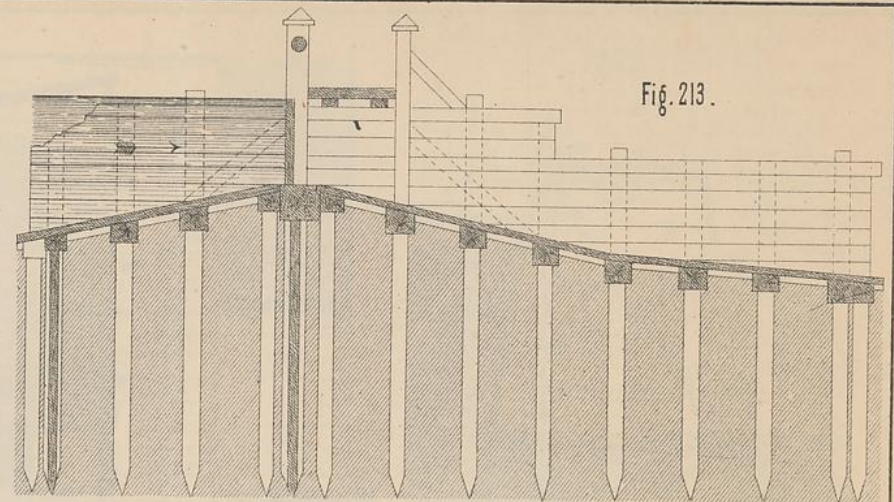
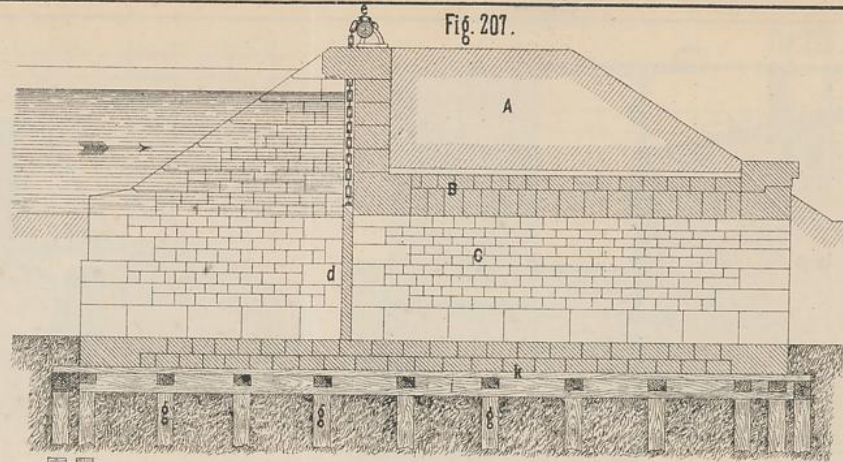
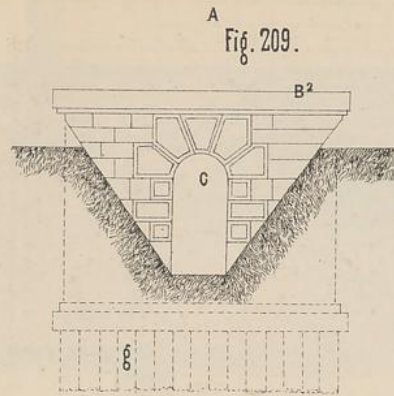
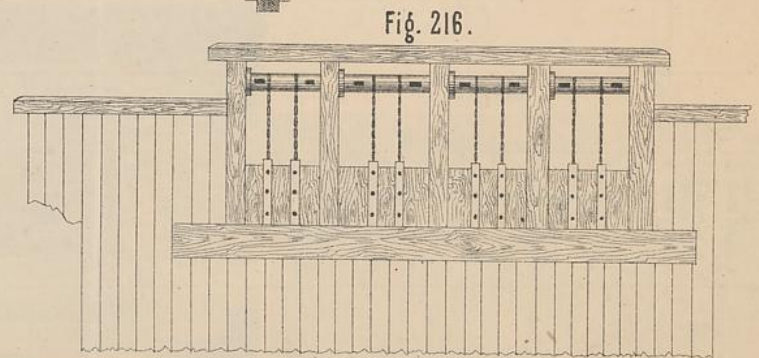
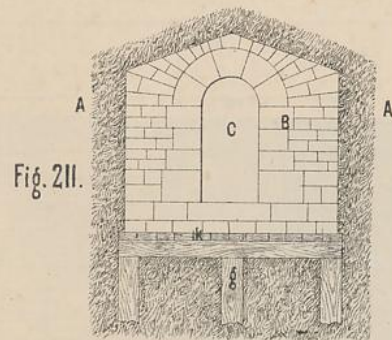
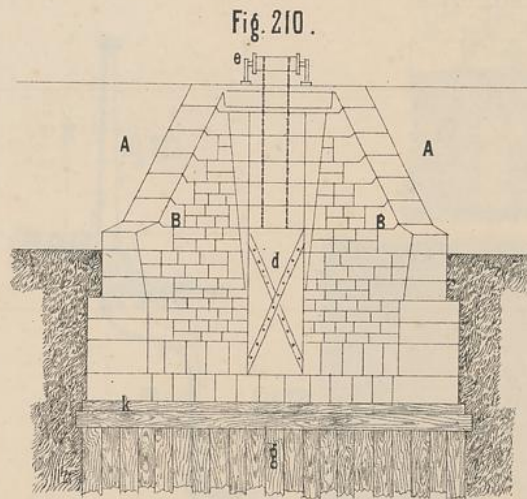
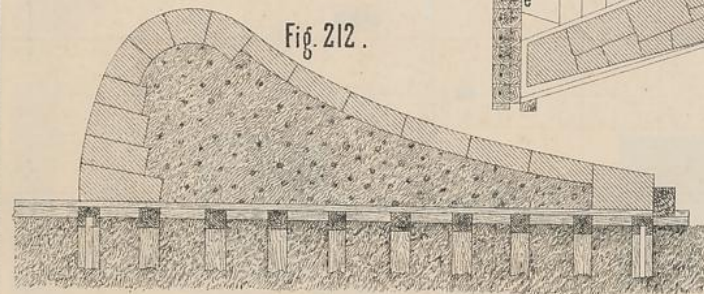
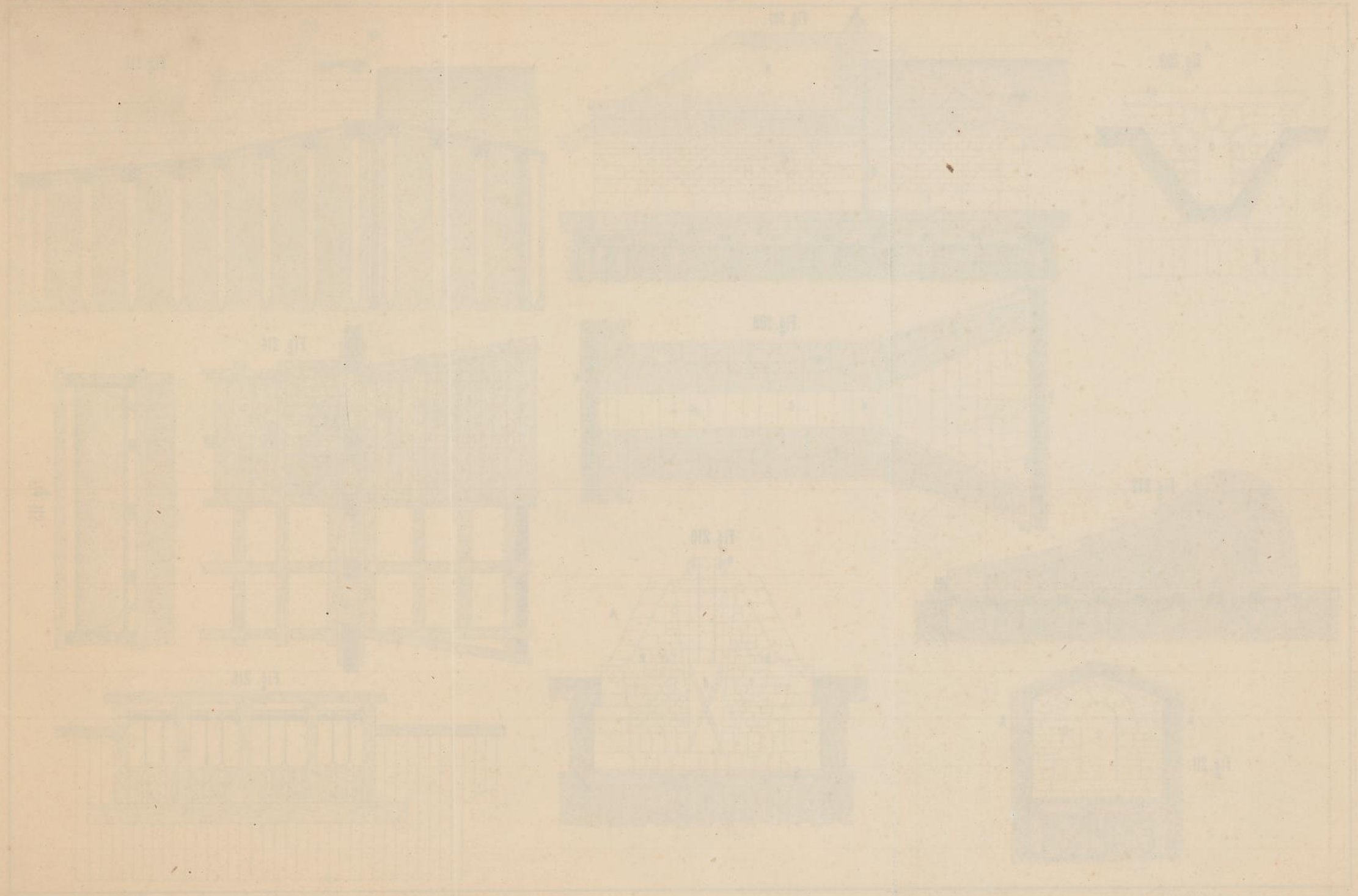
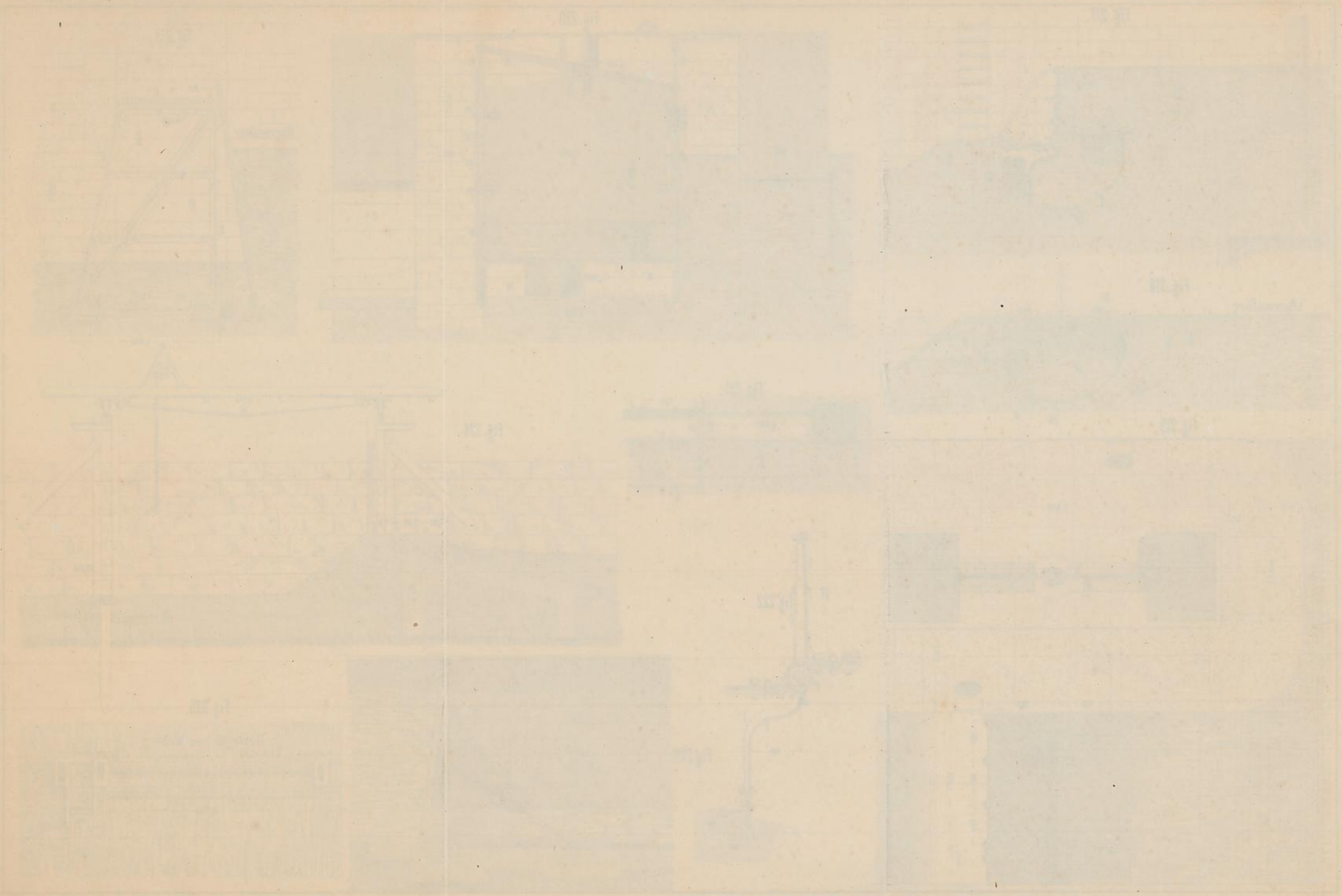


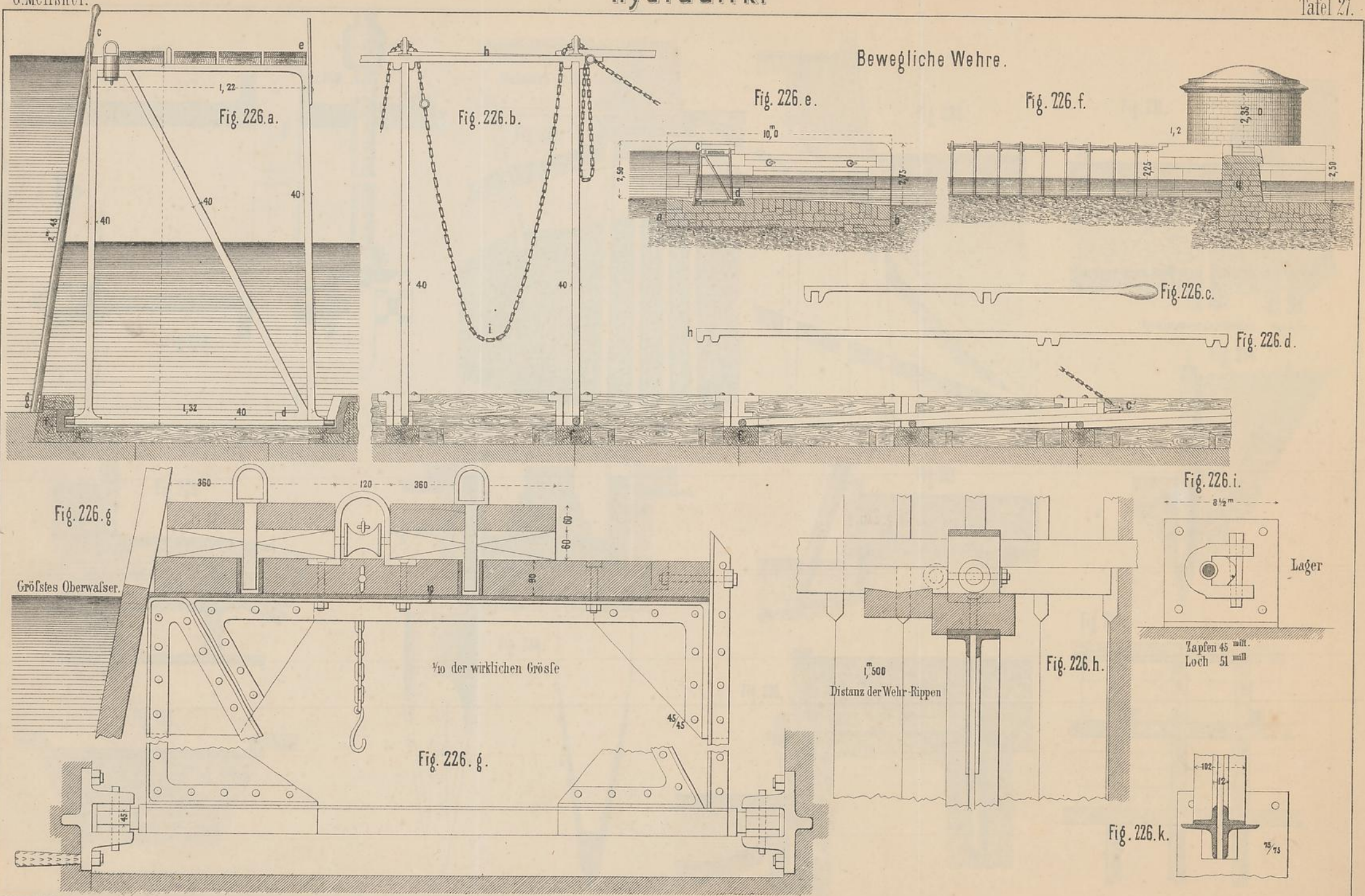
Fig. 115.

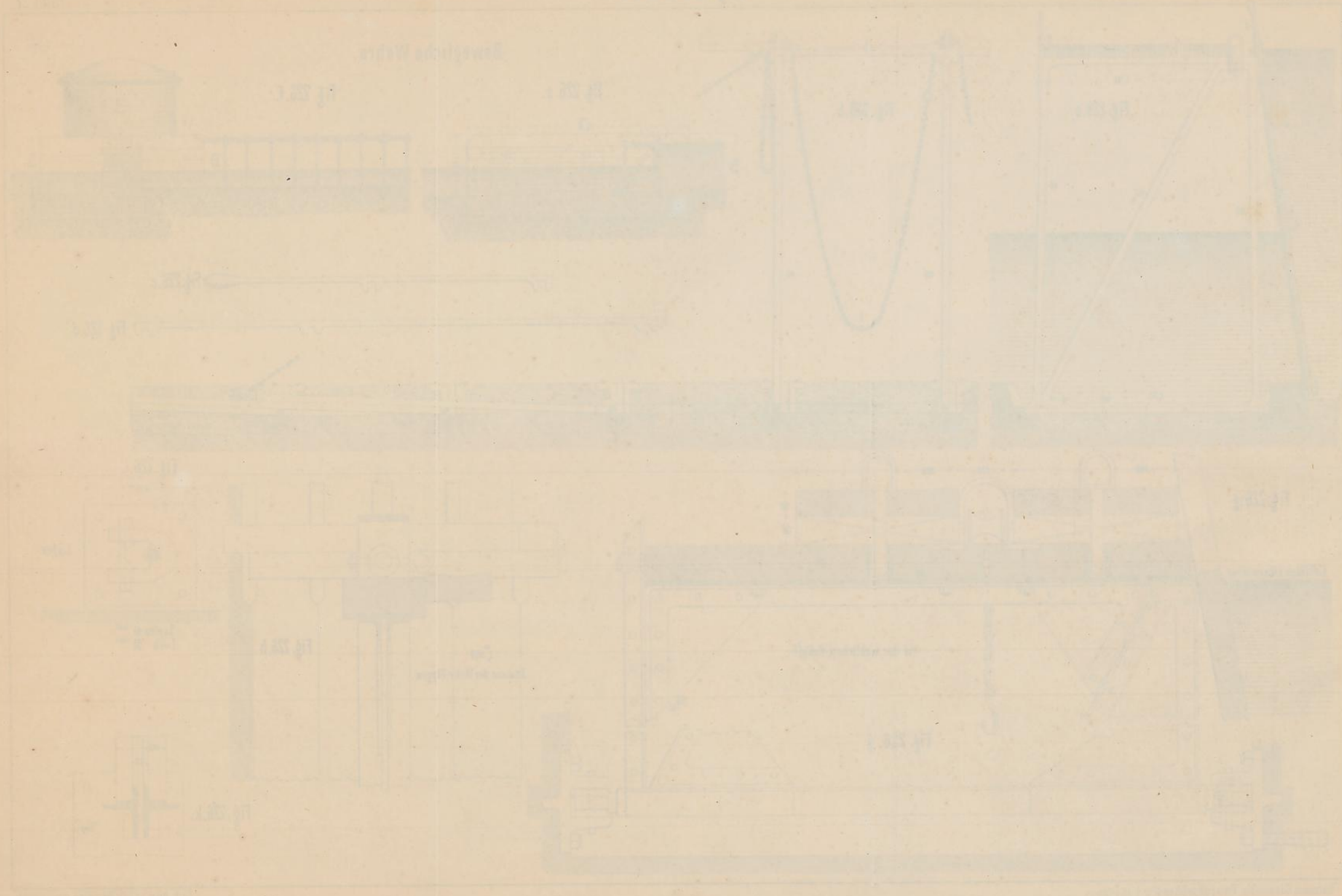






Bewegliche Wehre.





Einseitige Wehre

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

Fig. 12

Fig. 13

Fig. 14

Fig. 15

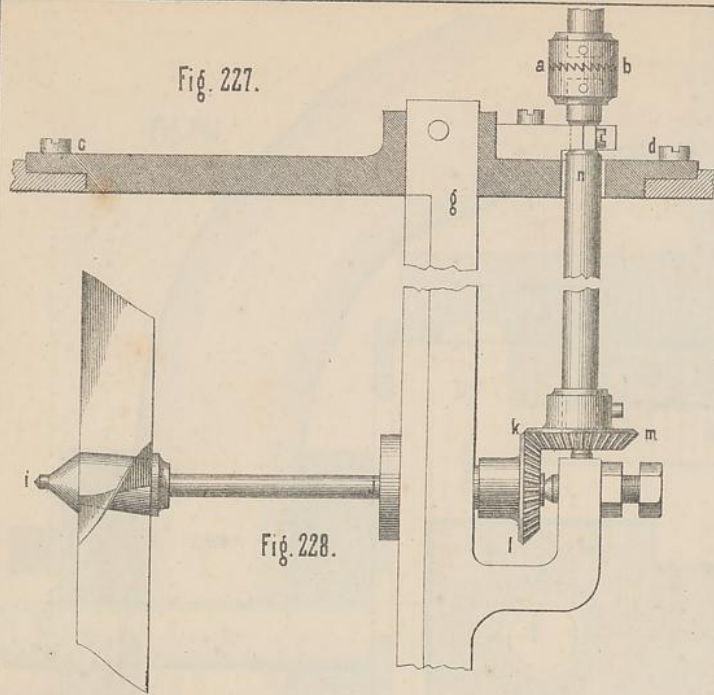


Fig. 227.

Fig. 228.

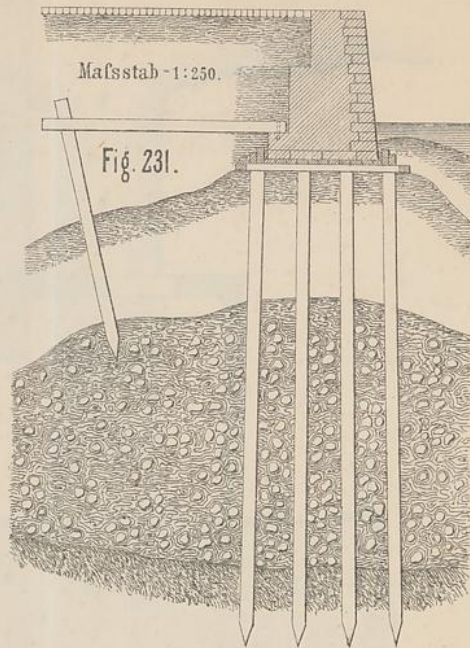


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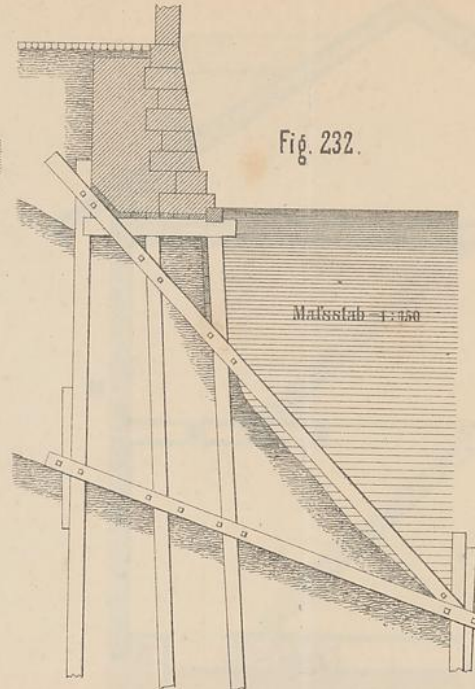


Fig. 232.

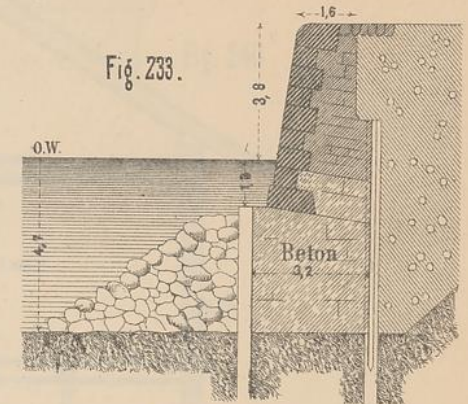


Fig. 233.

Quaimauer der Donau. 1/200 n.Gr.

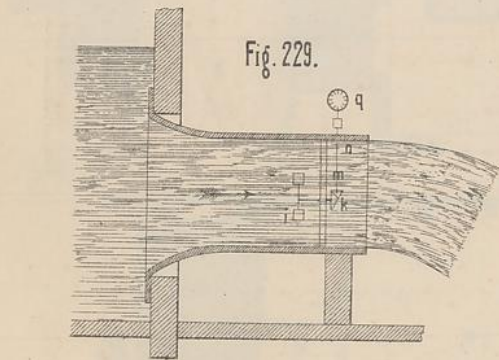


Fig. 229.

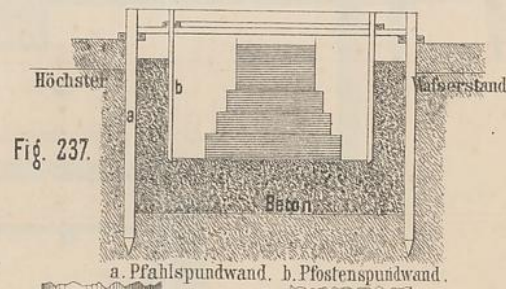


Fig. 237.

a. Pfahlsplundwand, b. Pfostensplundwand.

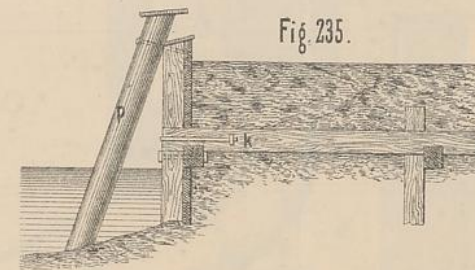


Fig. 235.

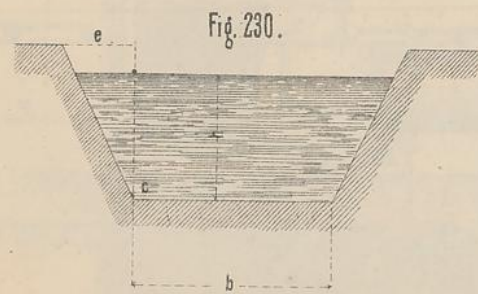


Fig. 230.

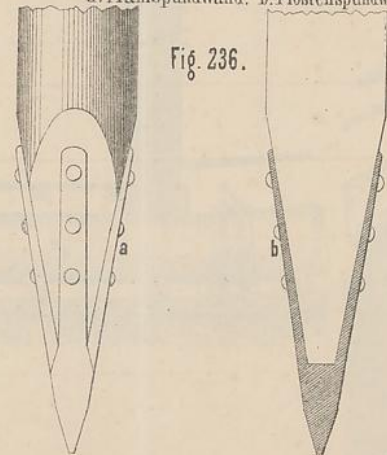


Fig. 236.

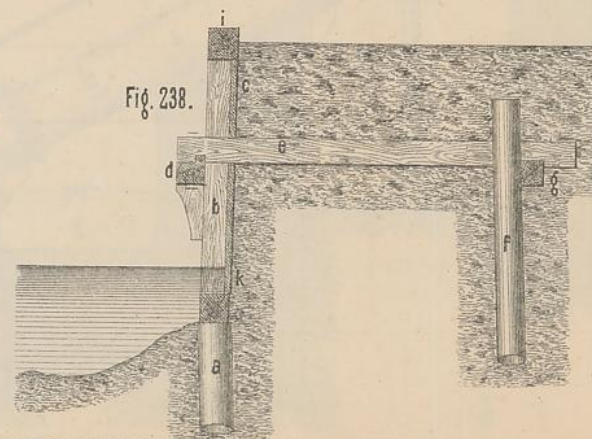


Fig. 238.

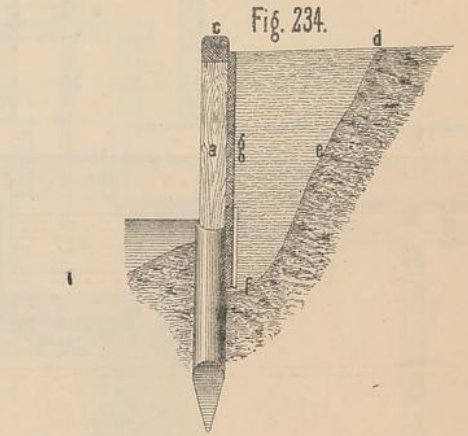


Fig. 234.

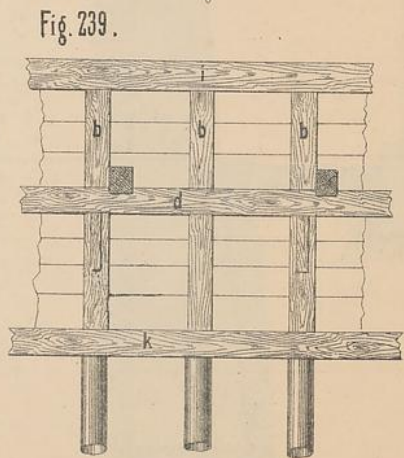
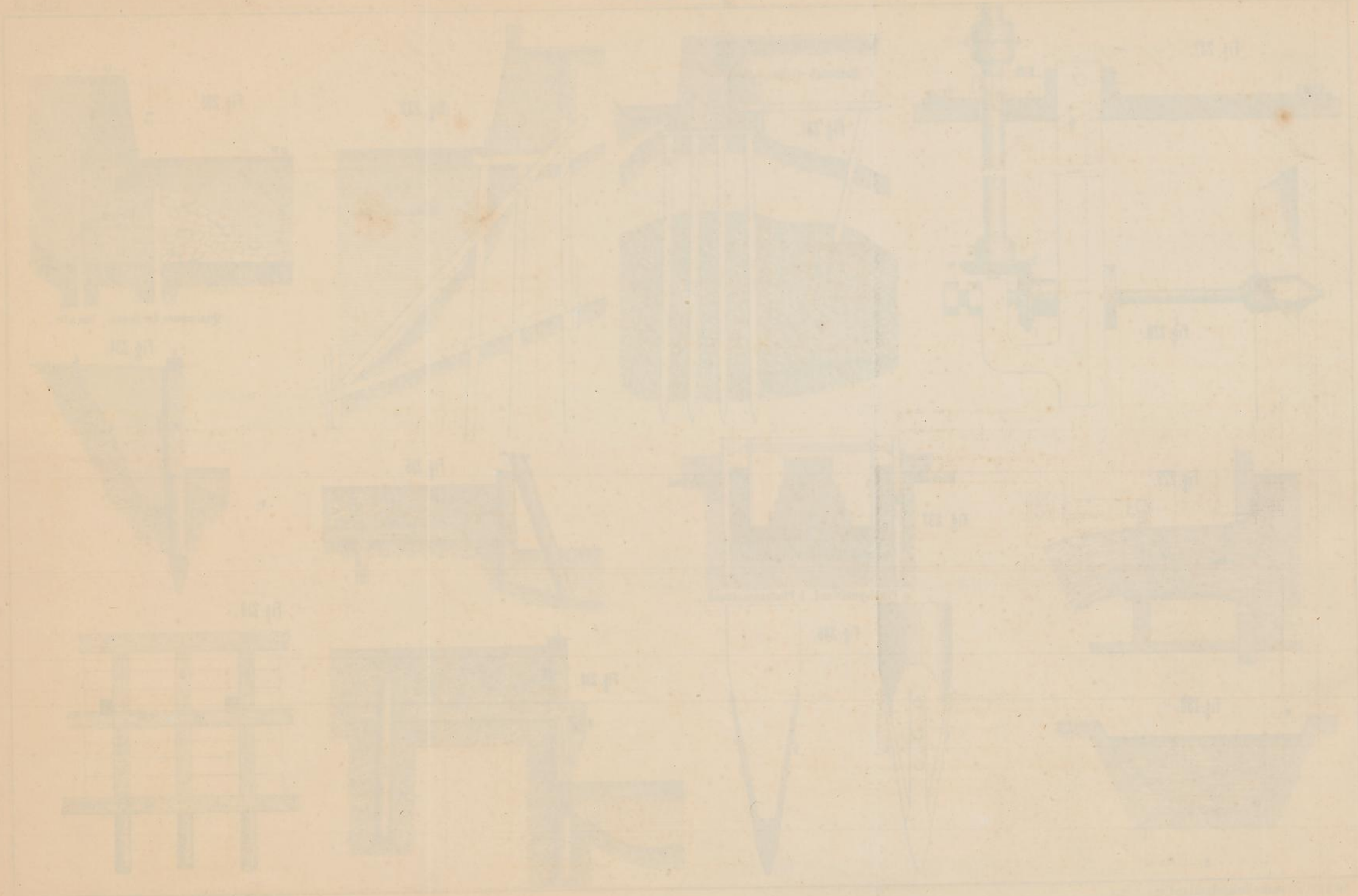
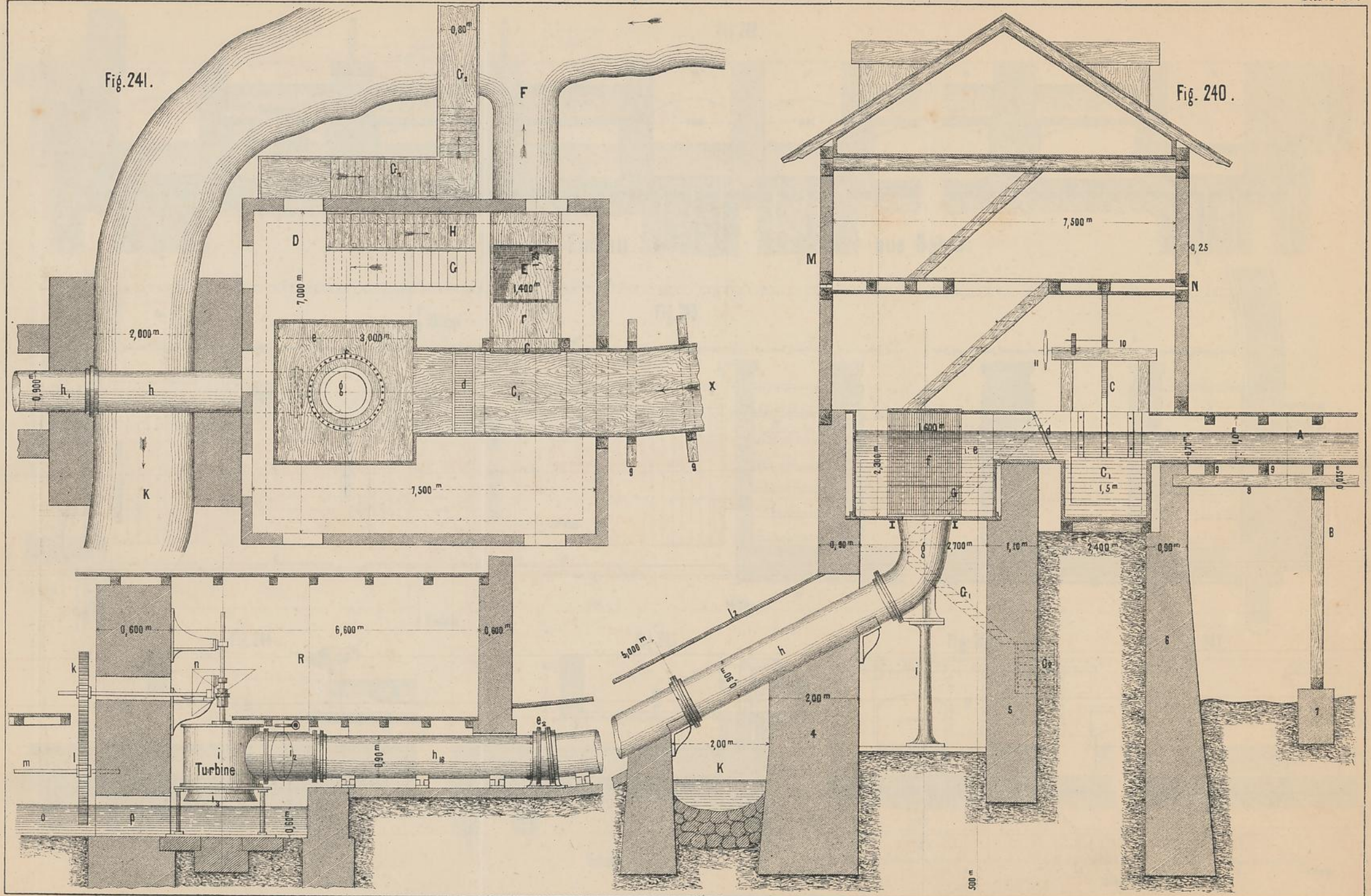


Fig. 239.

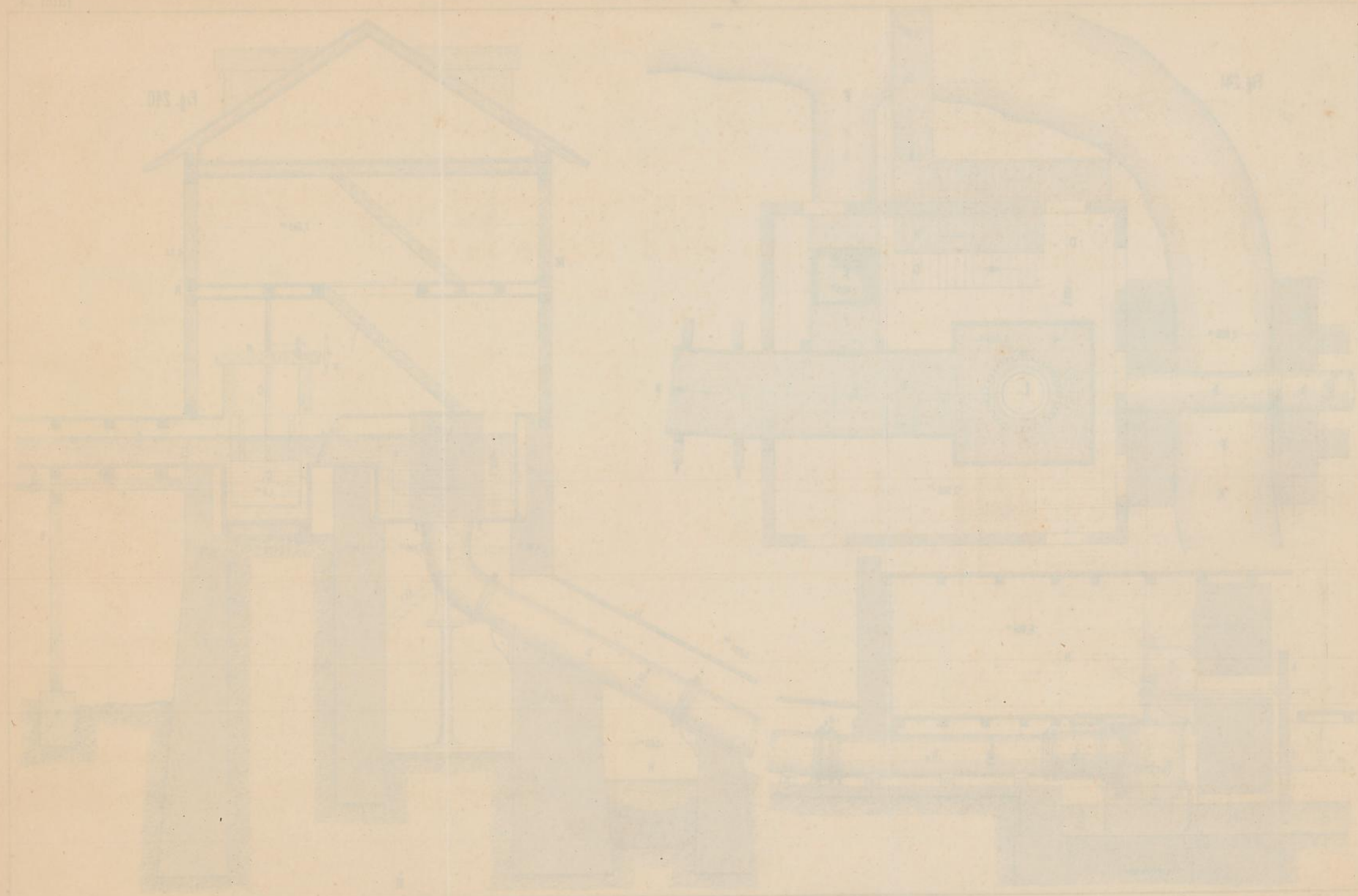


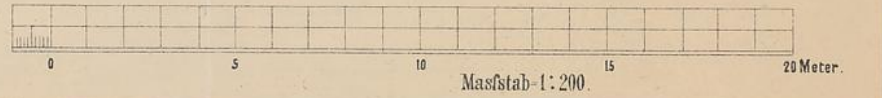
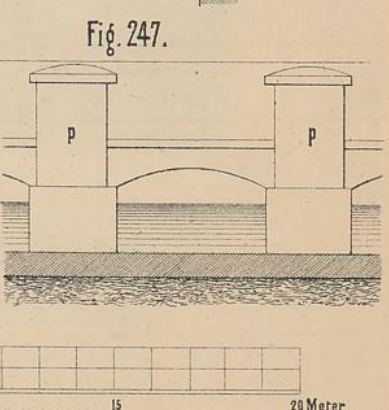
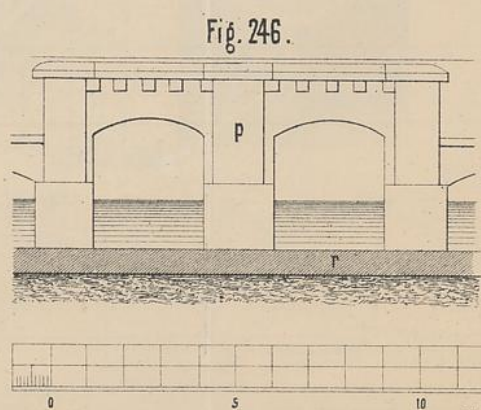
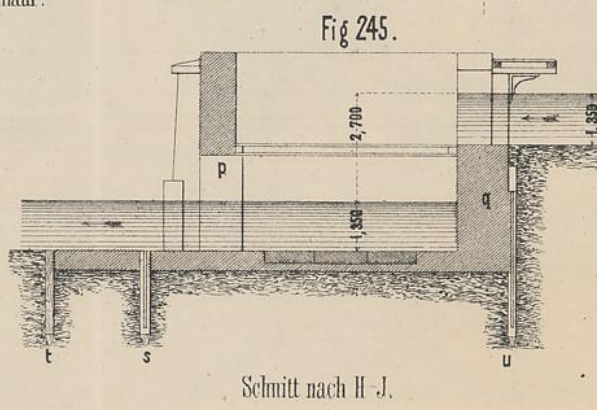
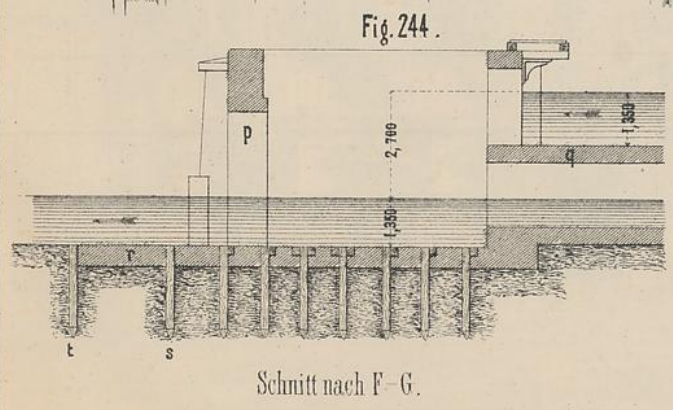
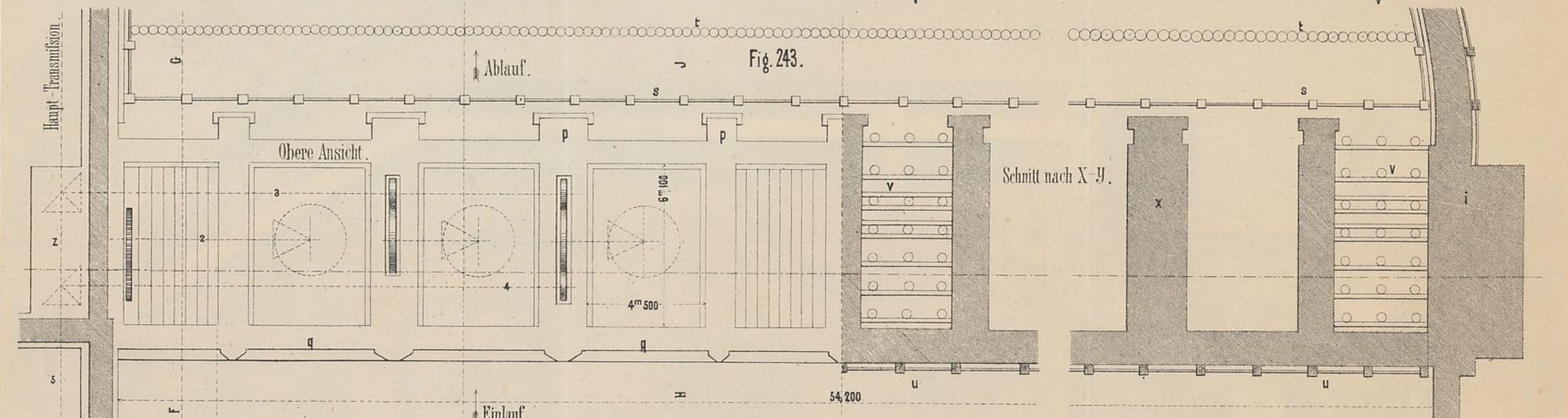
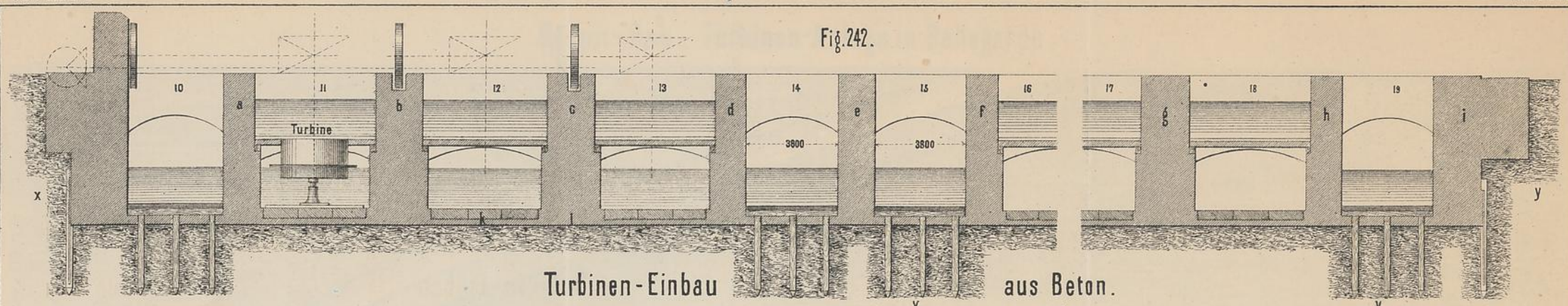


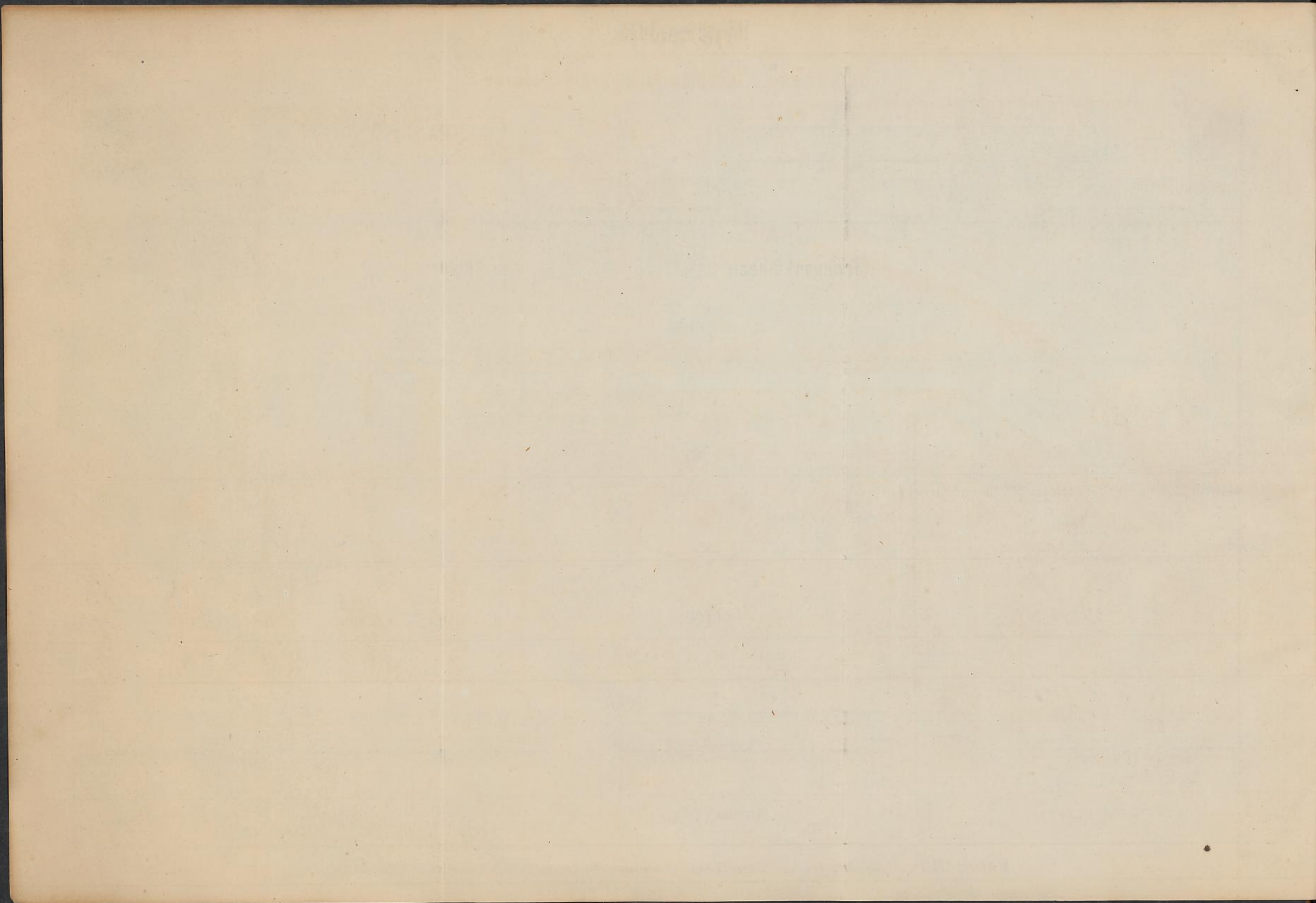
Hermann Costenoble, Verlagsbuchhandlung in Jena

Turbinen-Anlage am Pissvache (Wallis, Schweiz.)
Fassung u. Leitung des Wassers.

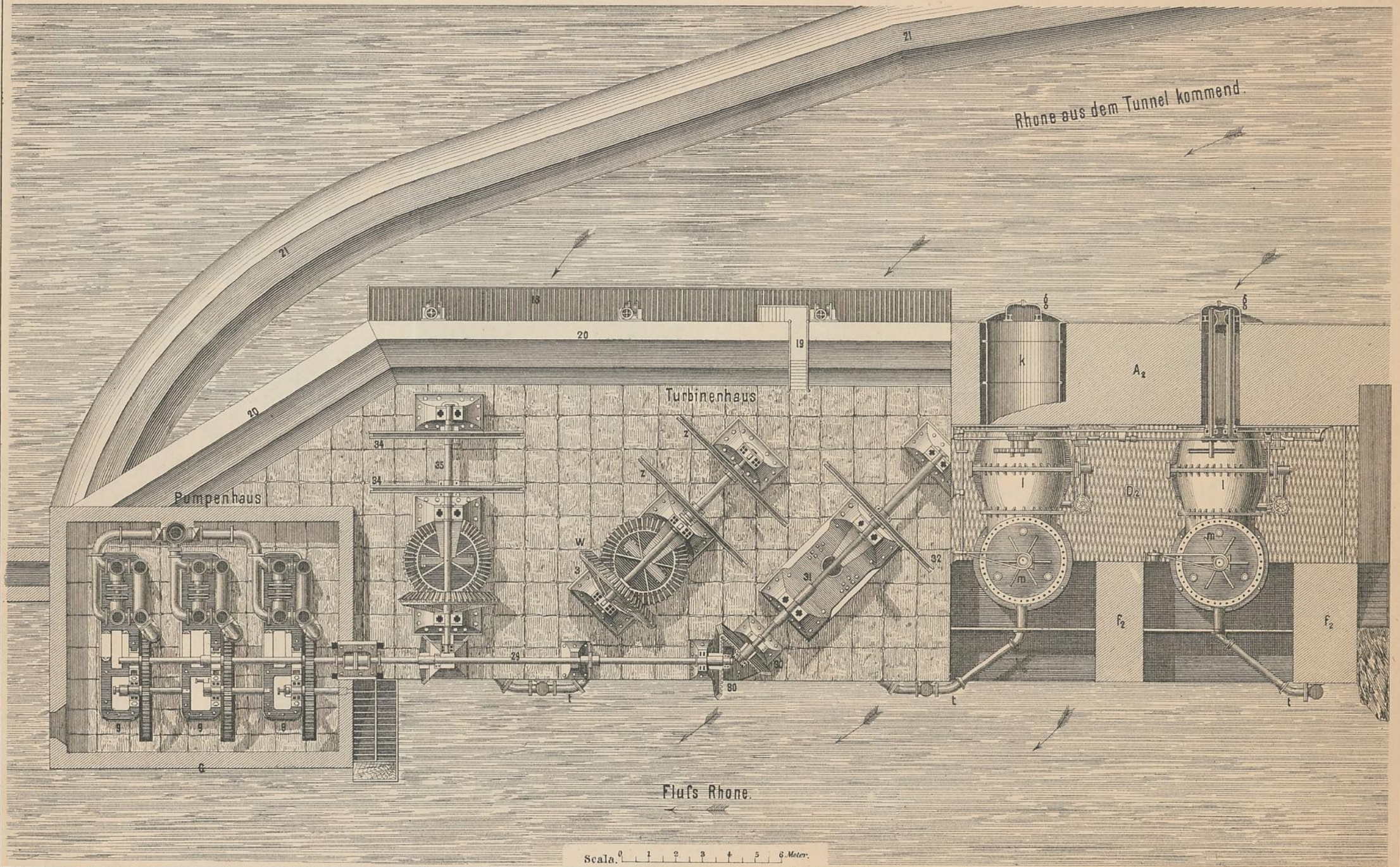
Lith. Anst. v. J.G. Fritzsche in Leipzig.







Beton-Bau . Turbinen-Anlage in Bellegarde.



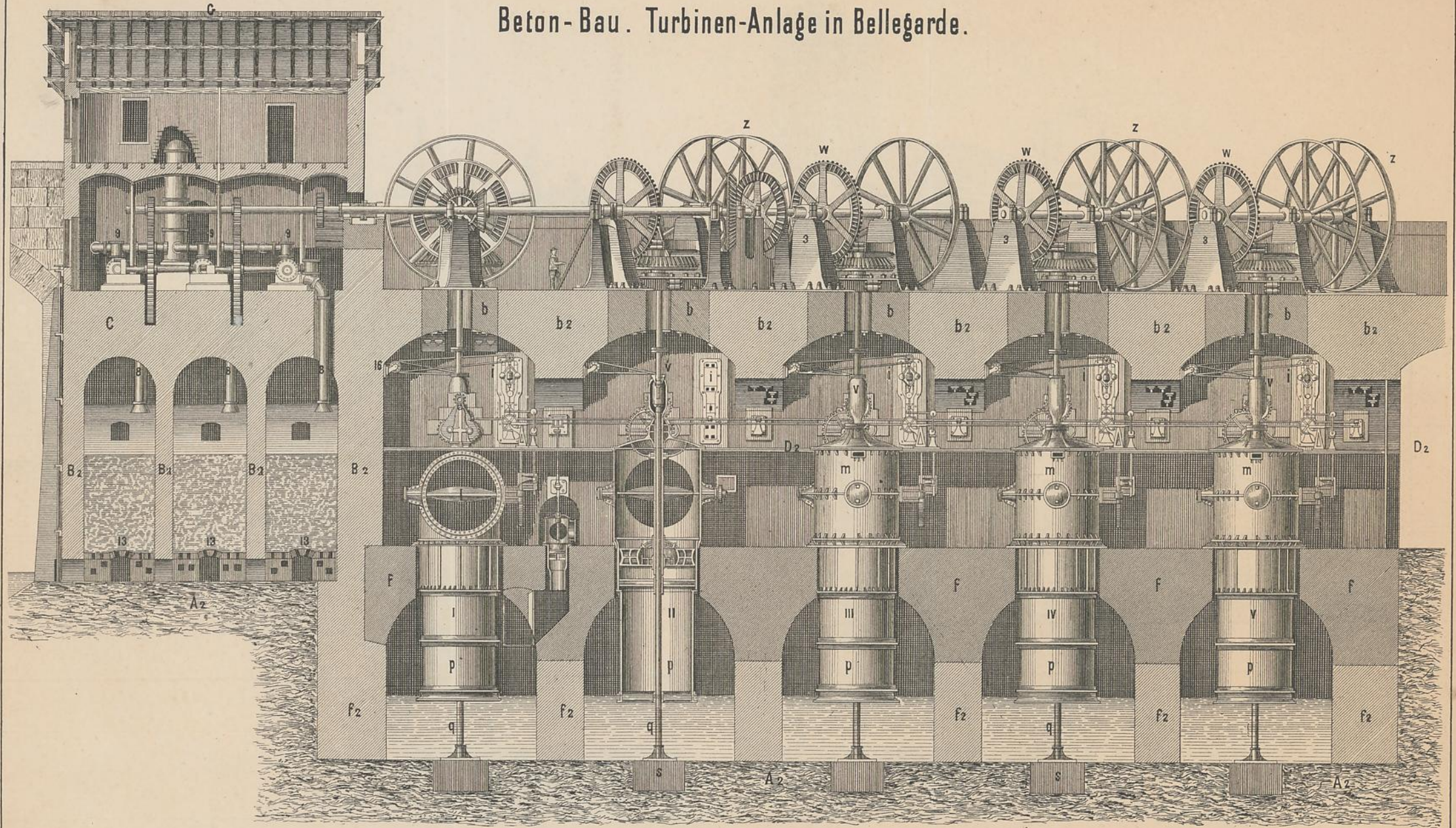
1875

Baton Rouge, Louisiana, August 10, 1875

Dear Sir,

I have the honor to acknowledge the receipt of your letter of the 7th inst. in relation to the matter of the purchase of land for the proposed canal. I am sorry to hear that you are not satisfied with the plan proposed. I have no objection to your making such changes as you may think proper, provided they do not materially increase the cost of the work. I am, Sir, very respectfully,
Yours truly,
J. M. [Name]

Beton-Bau. Turbinen-Anlage in Bellegarde.



0 1 2 3 4 5 6 Meter.

1870

John Doe, Esq. New York

Faint, illegible text, possibly bleed-through from the reverse side of the page.

1871

John - Geo. Johnson - 1871

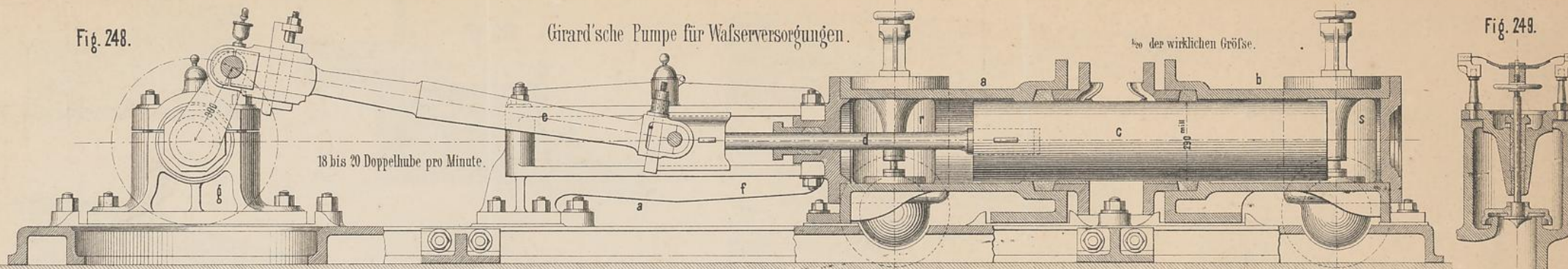
Year	John	Geo.
1871		
1872		
1873		
1874		
1875		
1876		
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1878		
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1881		
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1898		
1899		
1900		

Fig. 248.

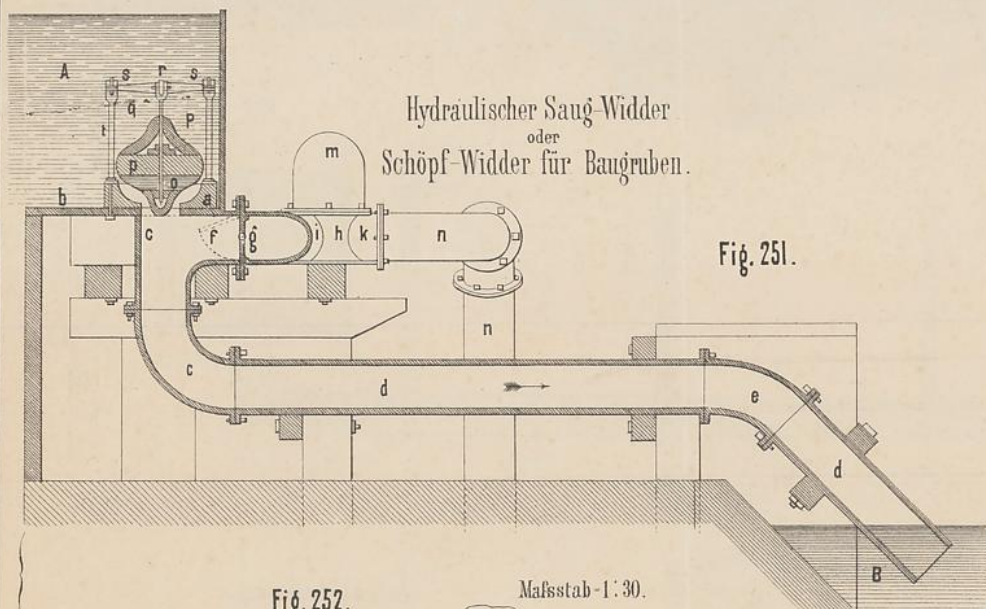
Girard'sche Pumpe für Wasserversorgungen.

$\frac{1}{20}$ der wirklichen Größe.

Fig. 249.

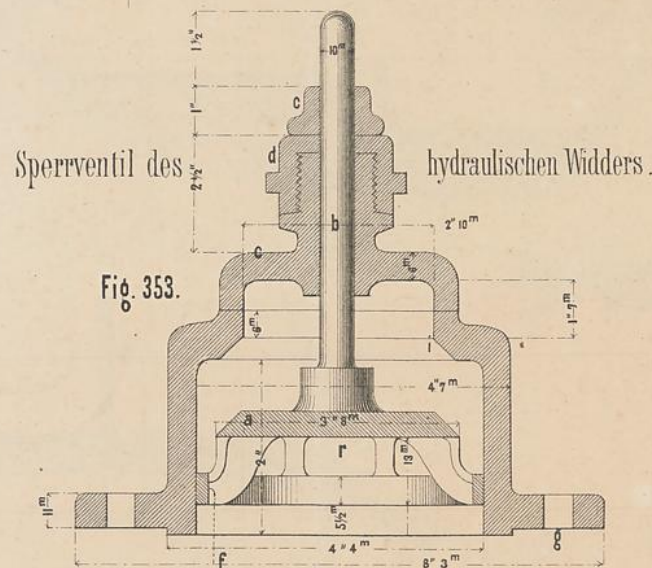


18 bis 20 Doppelhube pro Minute.



Hydraulischer Saug-Widder
oder
Schöpf-Widder für Baugruben.

Fig. 251.



Sperrventil des hydraulischen Widders.

Fig. 353.

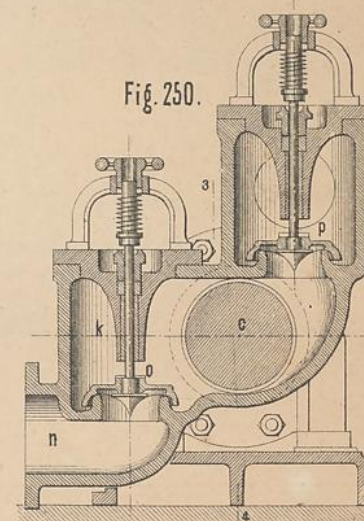


Fig. 250.

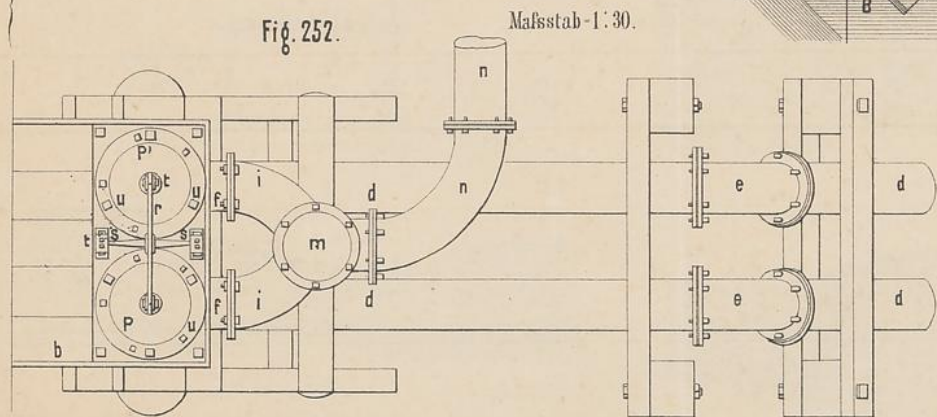
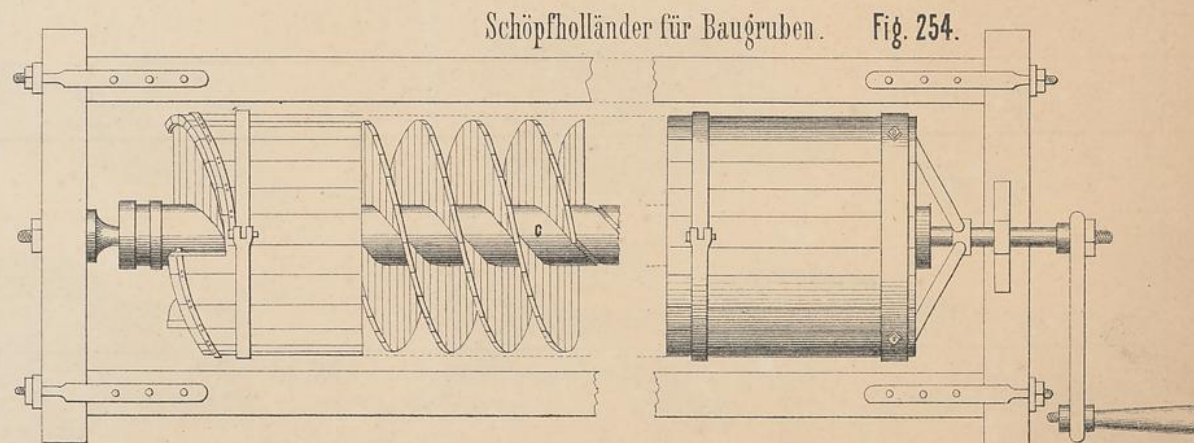
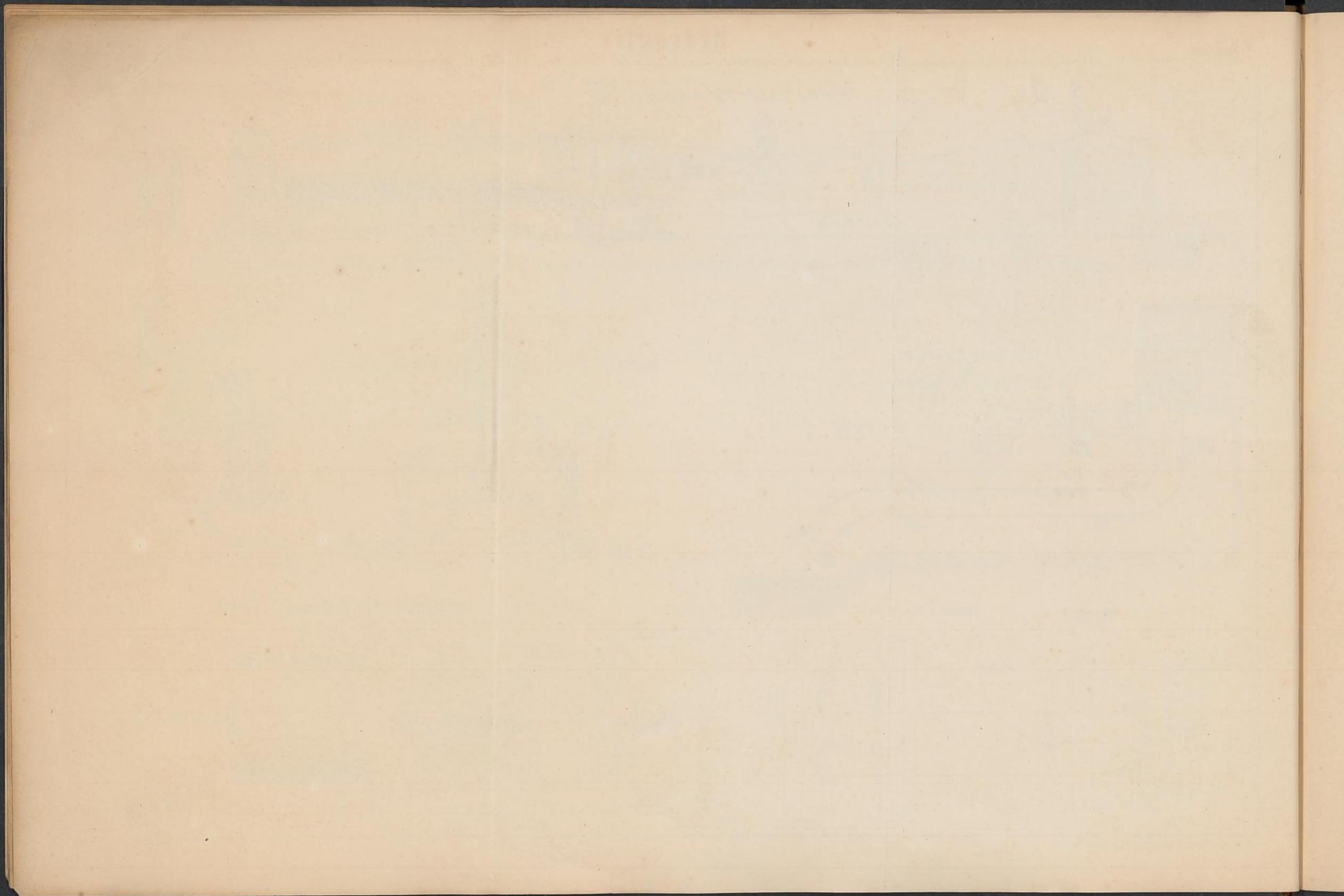


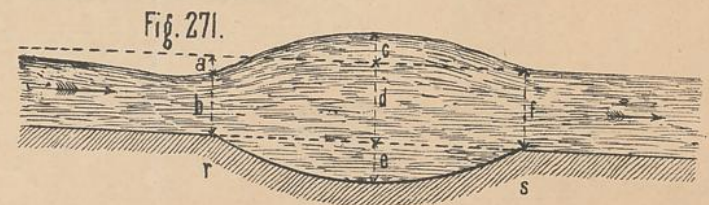
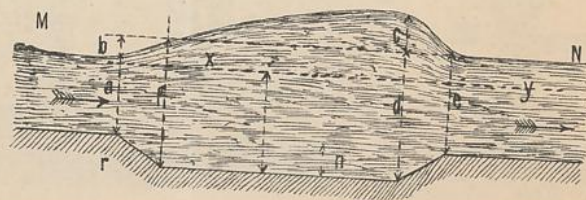
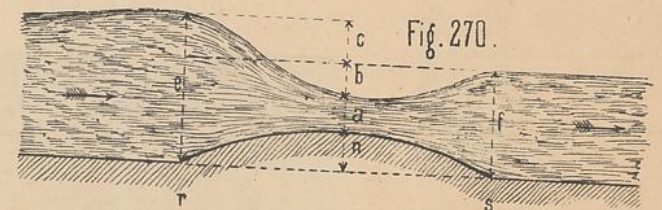
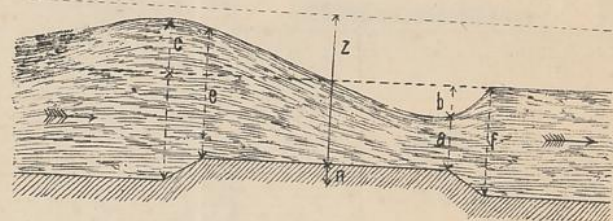
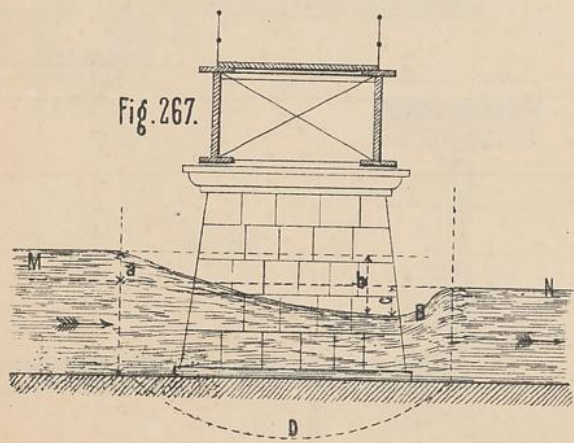
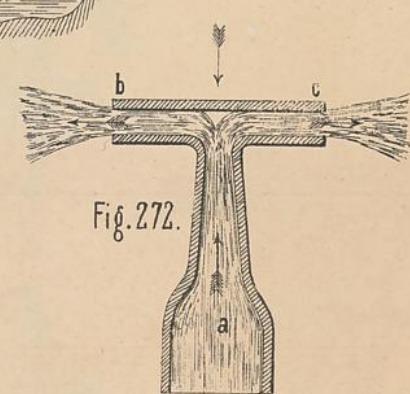
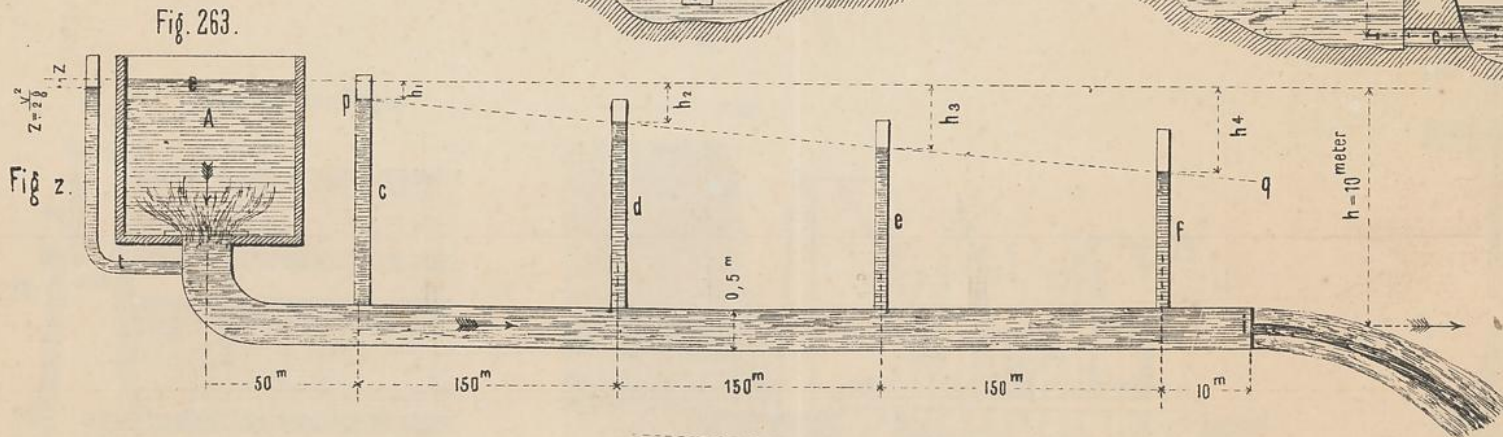
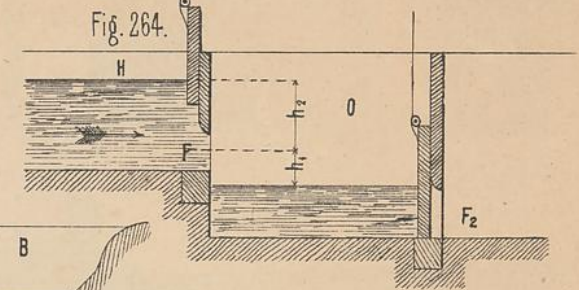
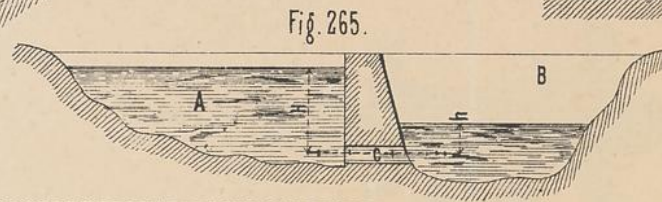
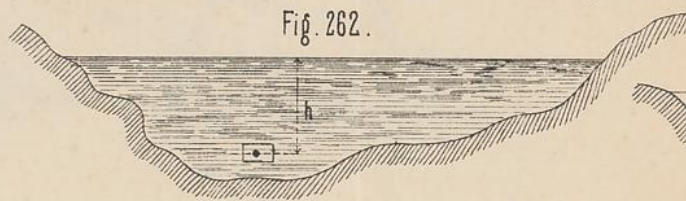
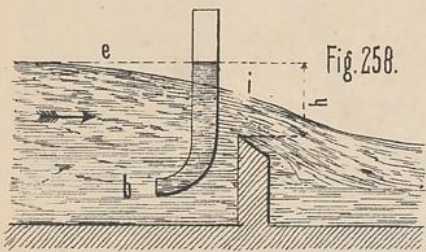
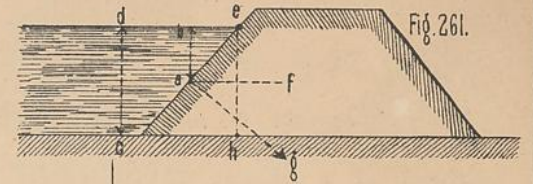
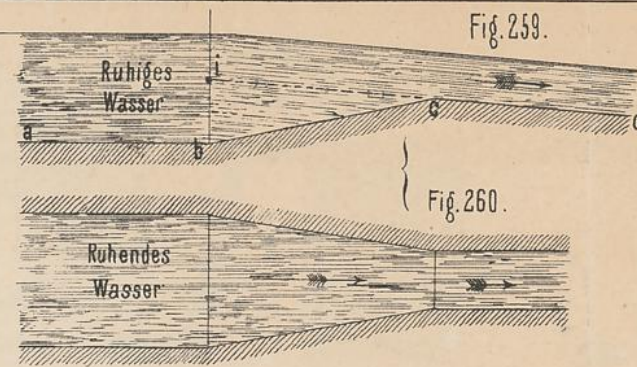
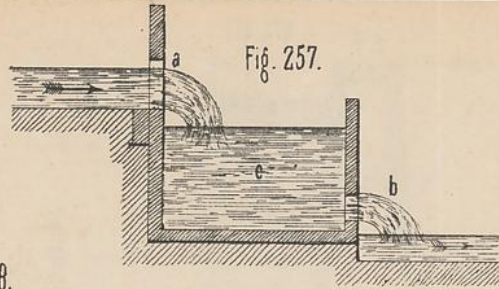
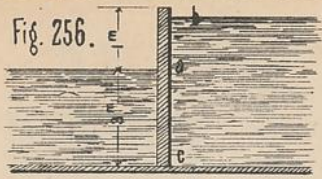
Fig. 252.

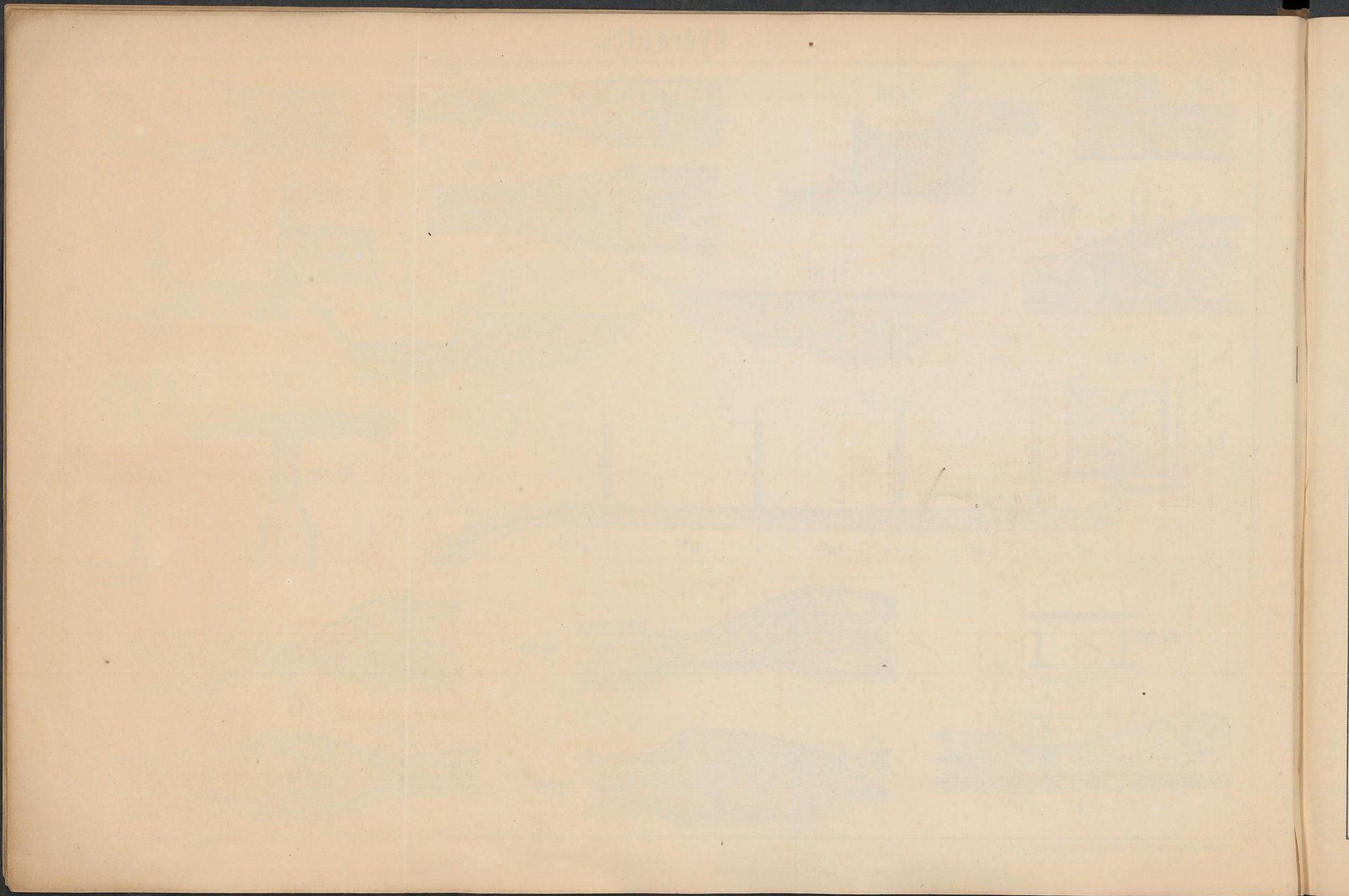
Masstab 1:30.

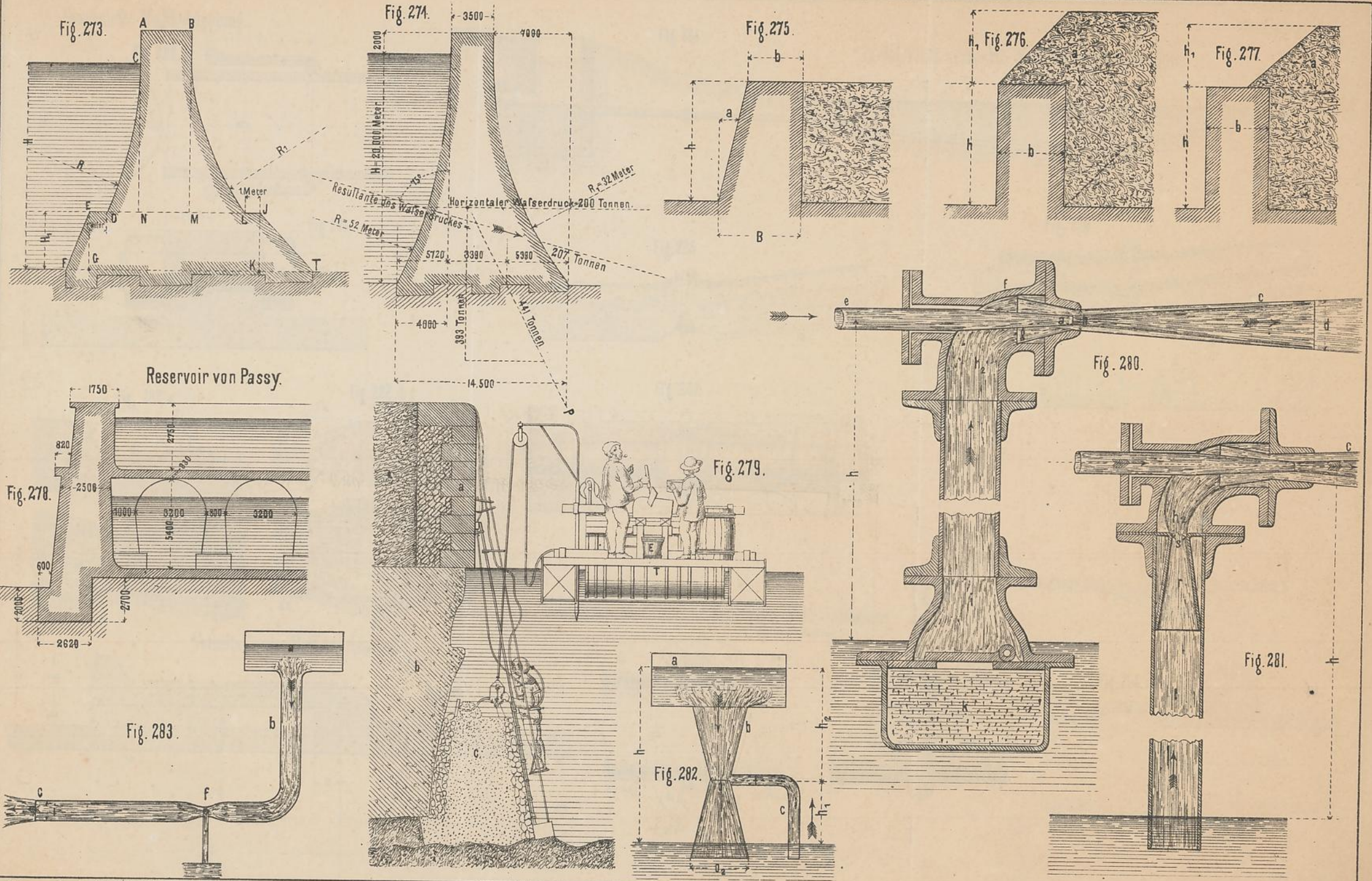


Schöpholländer für Baugruben. Fig. 254.

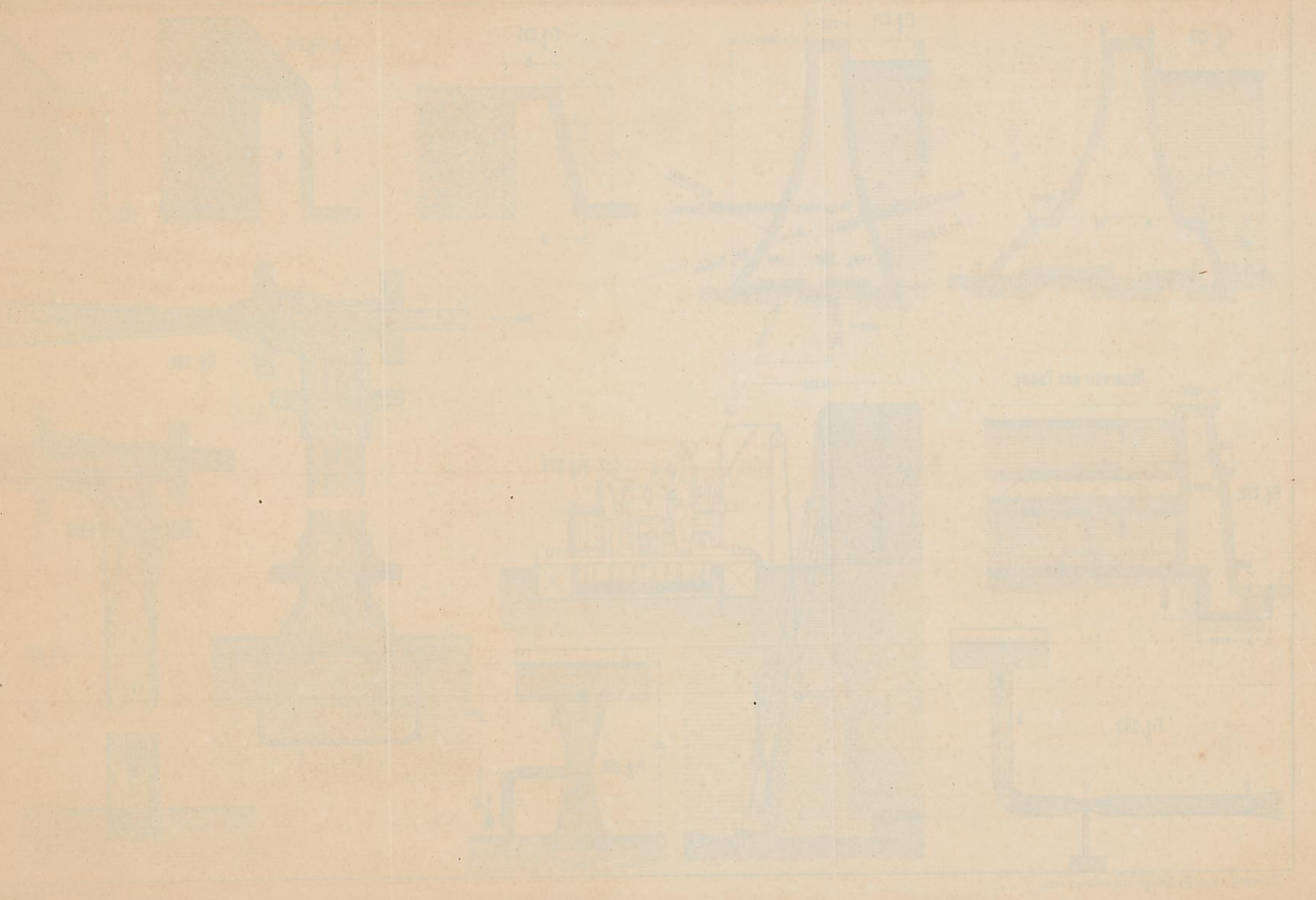








Hydraulic



Gewöhnliche Muffenkupplung.

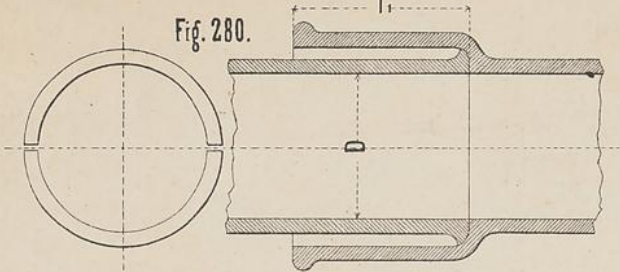


Fig. 280.

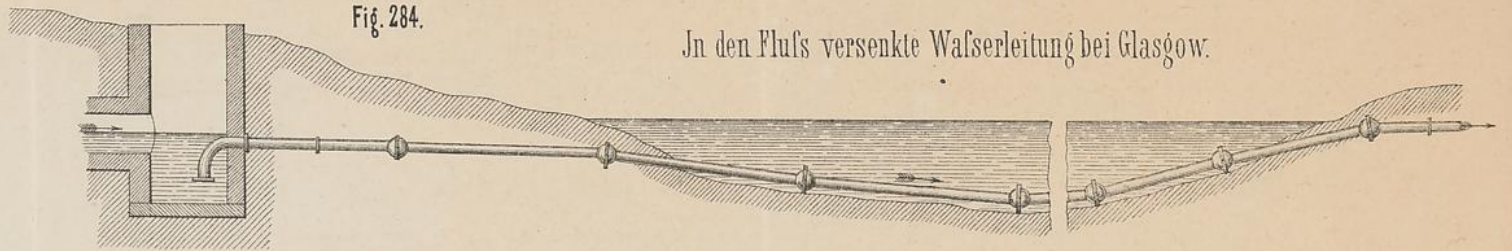


Fig. 284.

In den Fluß versenkte Wasserleitung bei Glasgow.

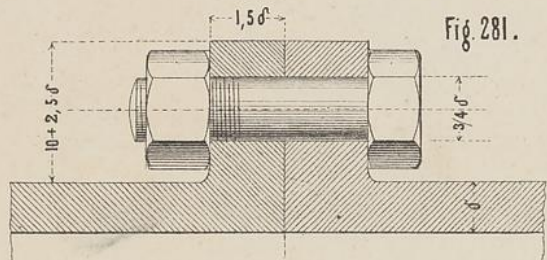


Fig. 281.

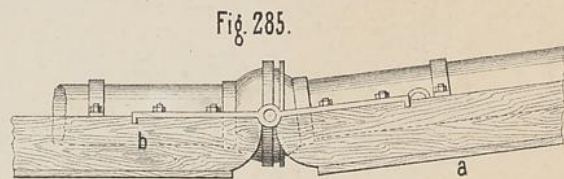


Fig. 285.

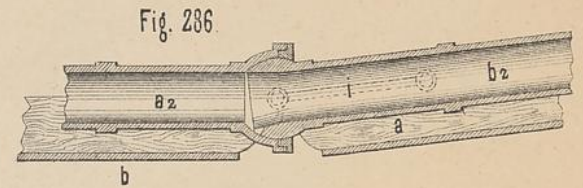


Fig. 286.

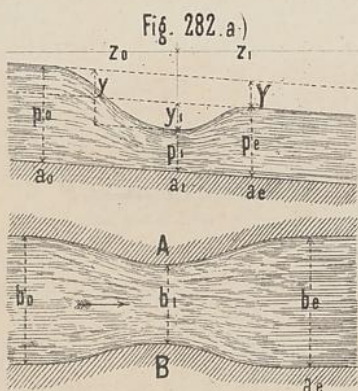


Fig. 282. a.)

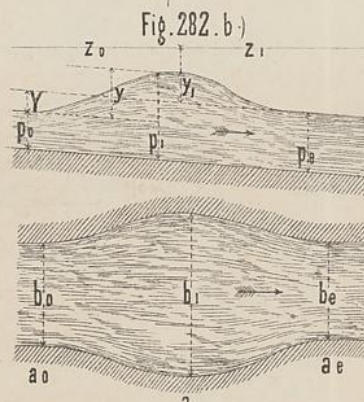


Fig. 282. b.)

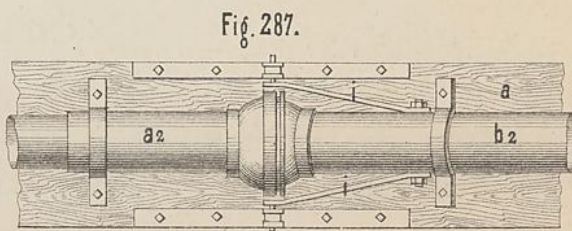


Fig. 287.

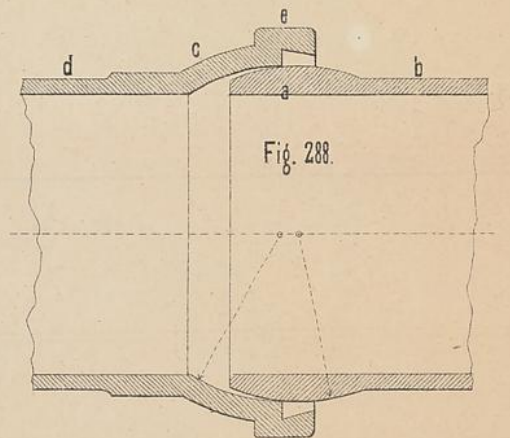


Fig. 288.

Verhältnisse der Muffenverbindung.

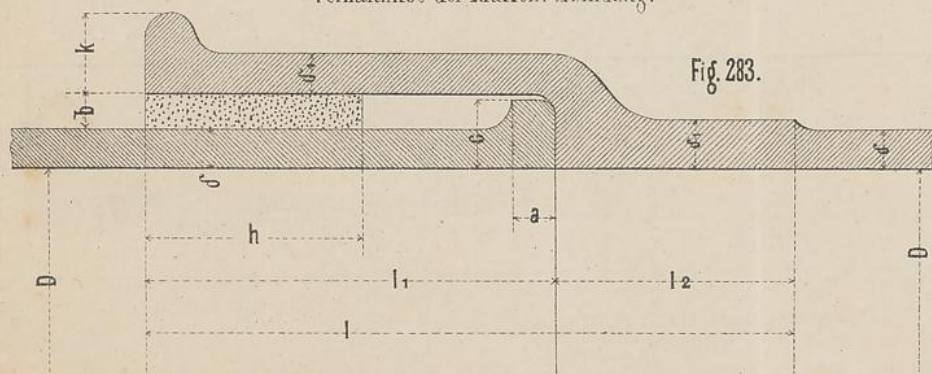


Fig. 283.

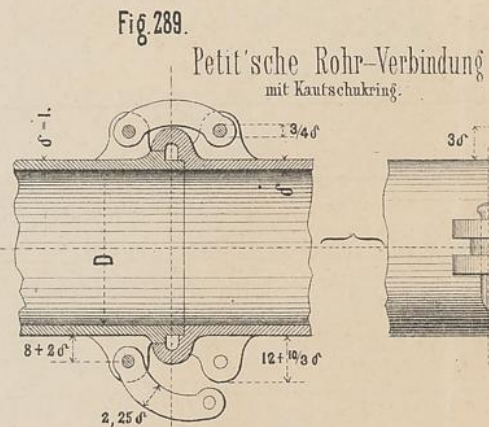


Fig. 289.

Petit'sche Rohr-Verbindung mit Kautschukring.

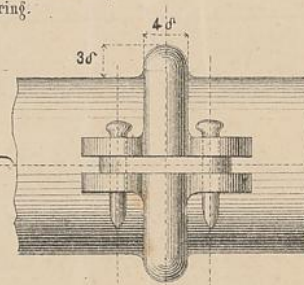


Fig. 290.

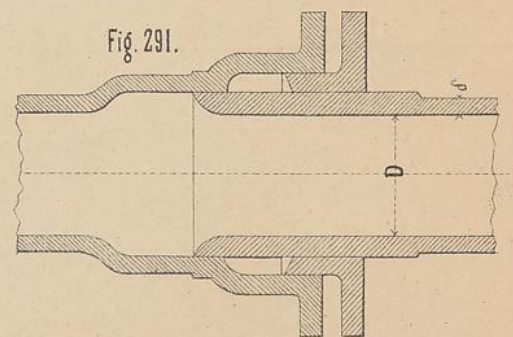
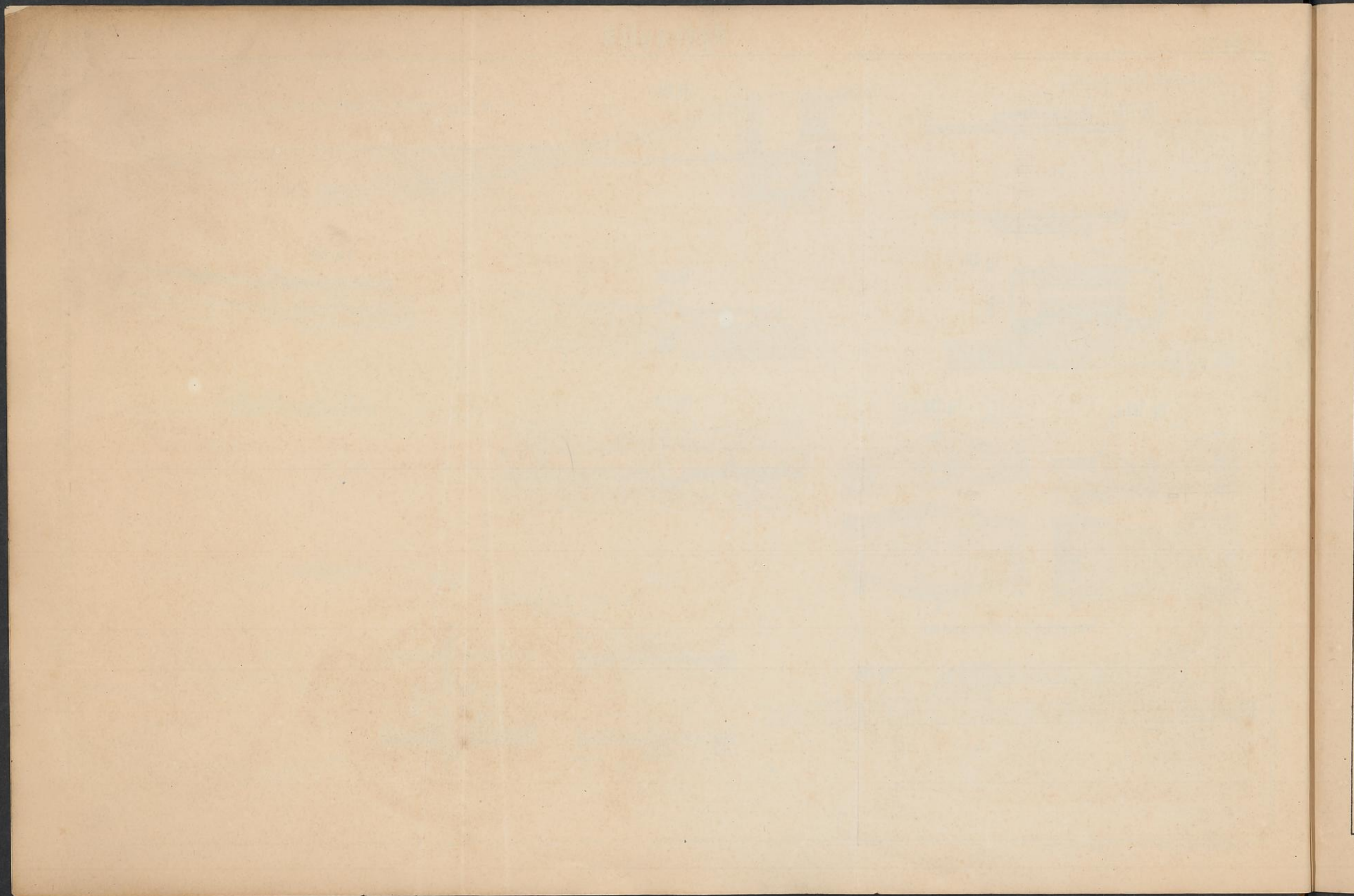


Fig. 291.



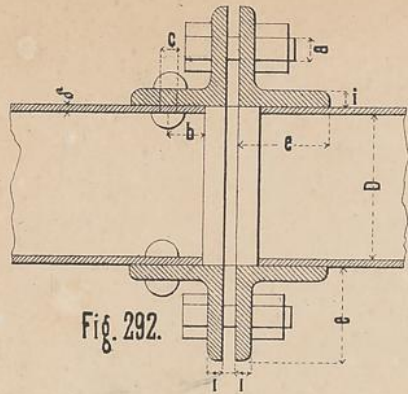


Fig. 292.

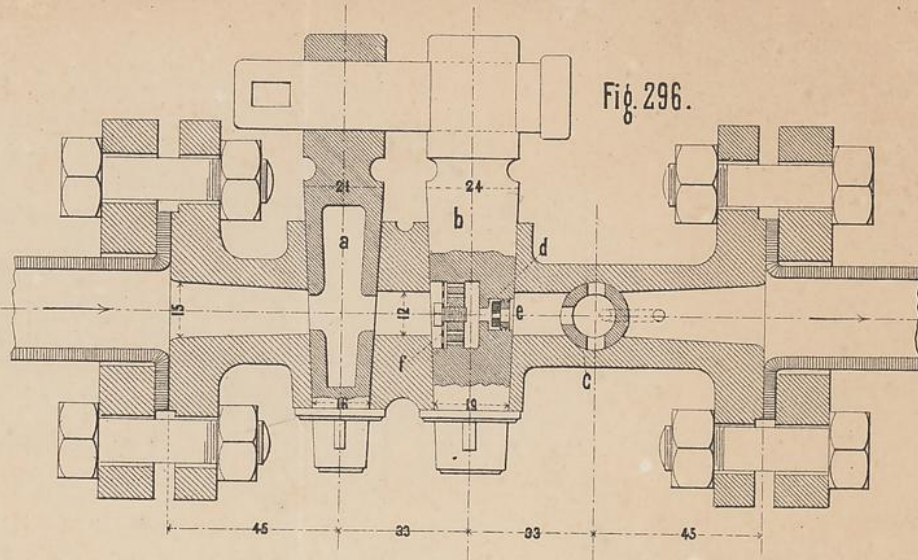


Fig. 296.

Fig. 299.

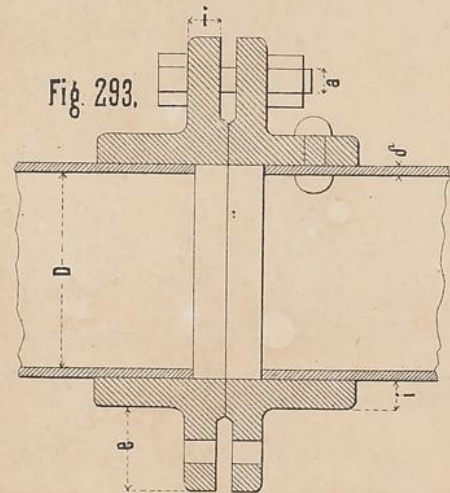
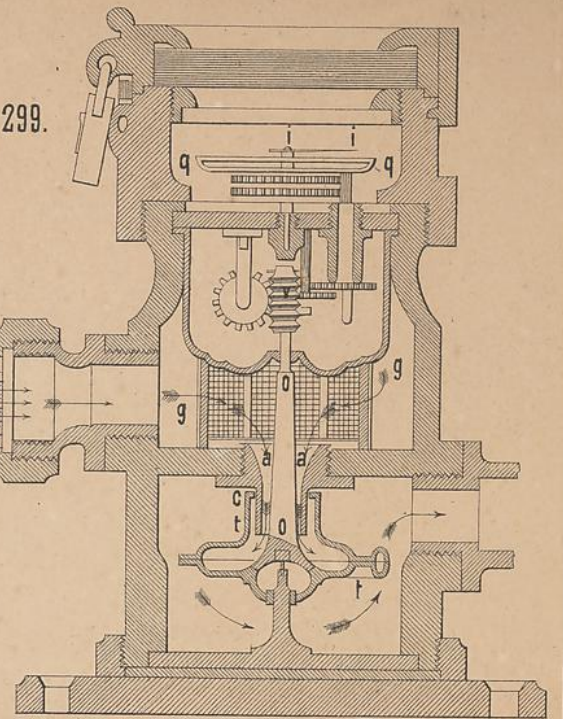


Fig. 293.

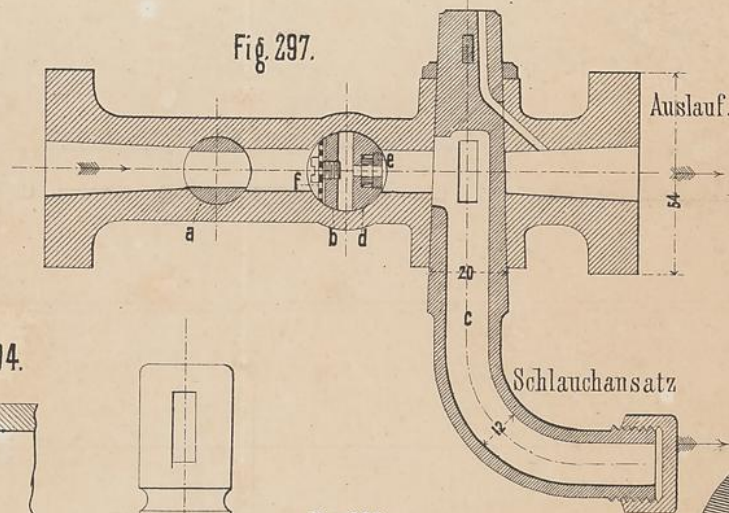


Fig. 297.

Fig. 300.

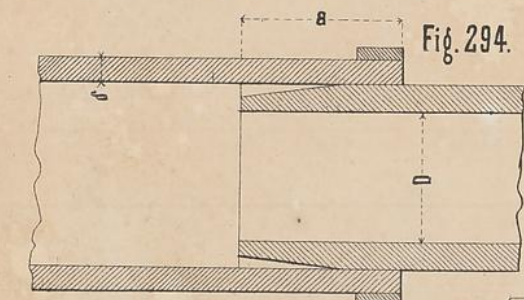
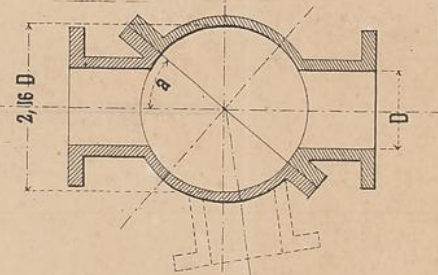


Fig. 294.

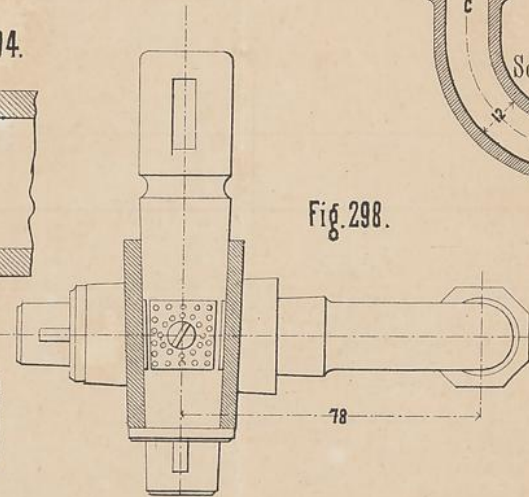


Fig. 298.

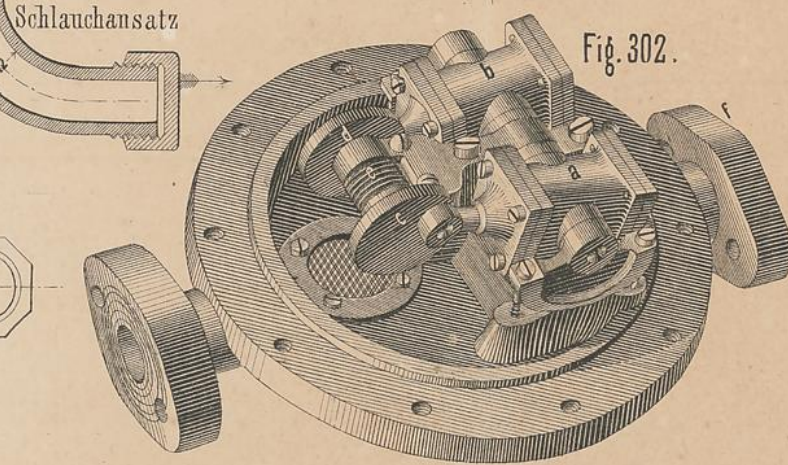


Fig. 302.

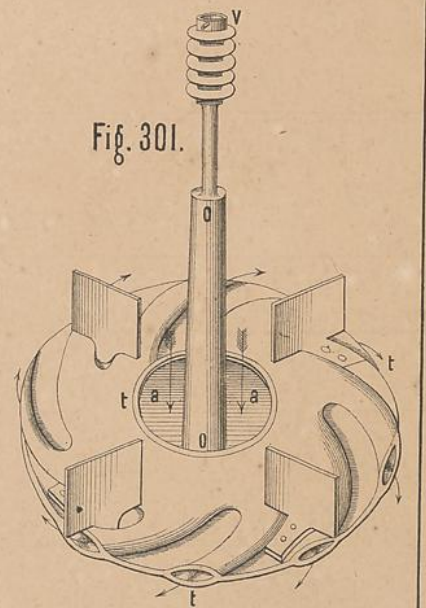


Fig. 301.

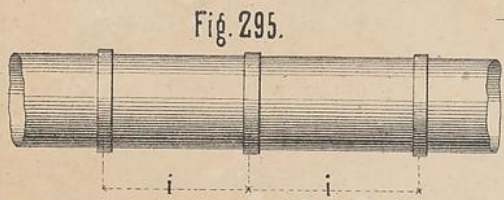
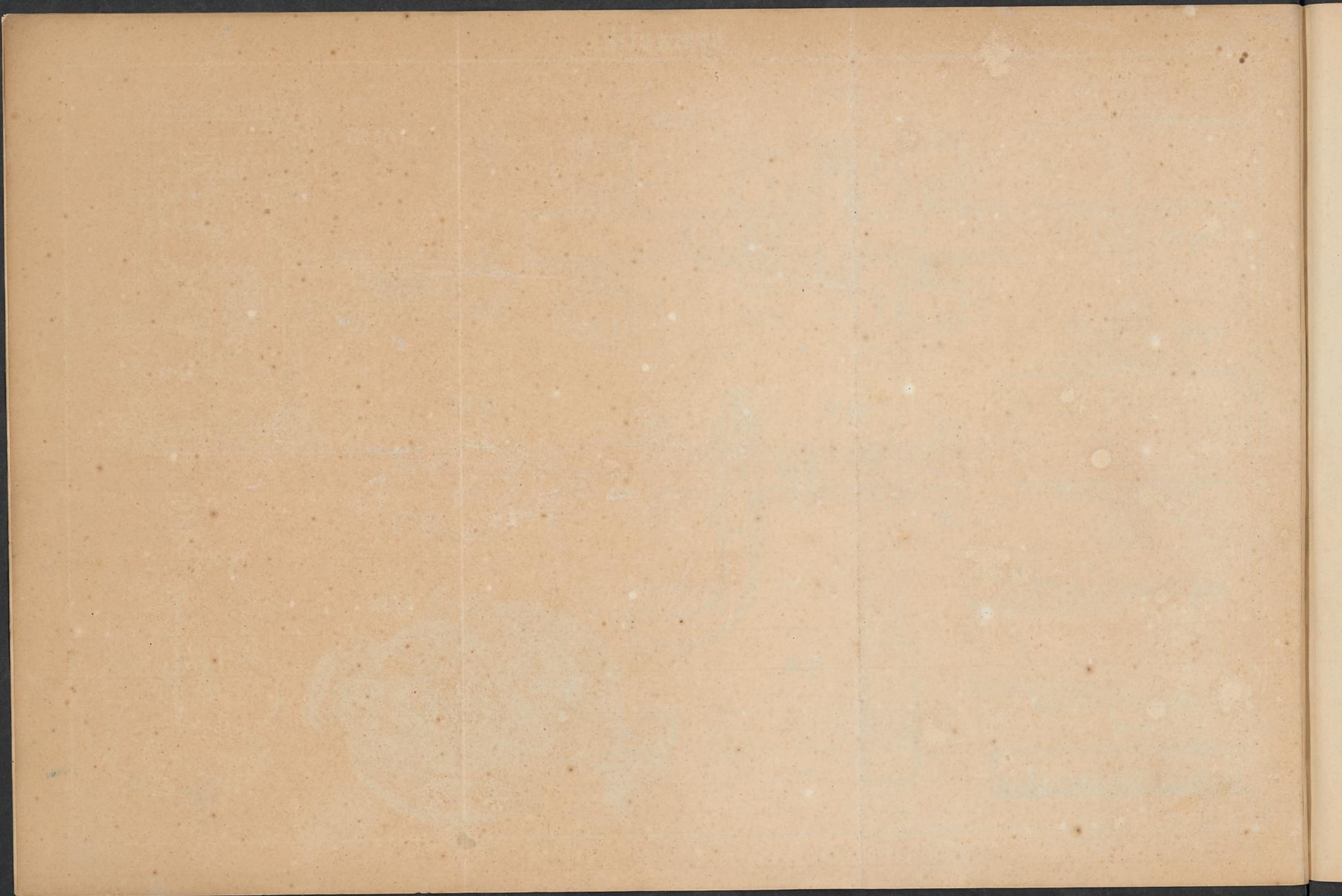
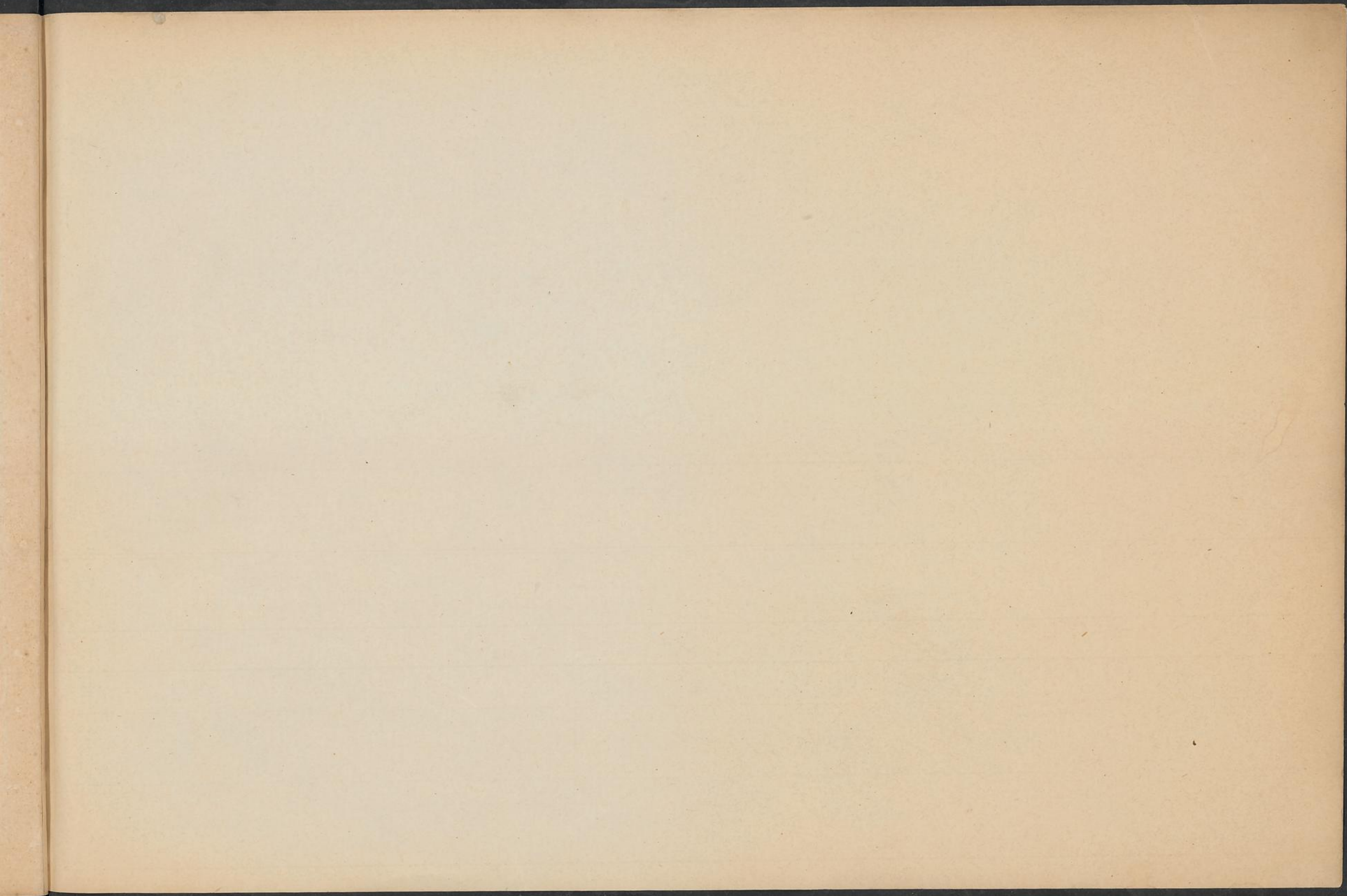


Fig. 295.





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