

**Zeitschrift:** Schweizerische Polytechnische Zeitschrift  
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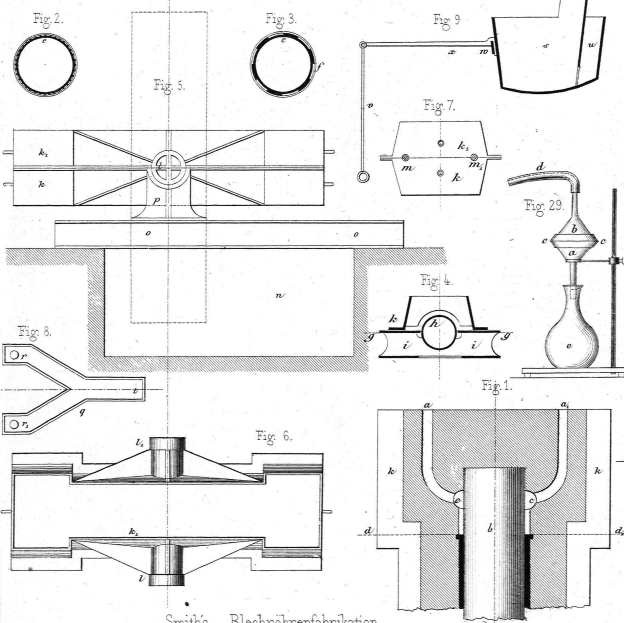
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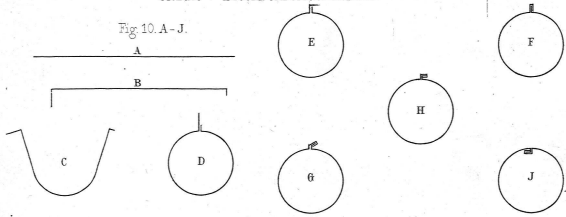
**ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>**

Arzberger: Ueber Einformen weiter gusseiserner Röhren.

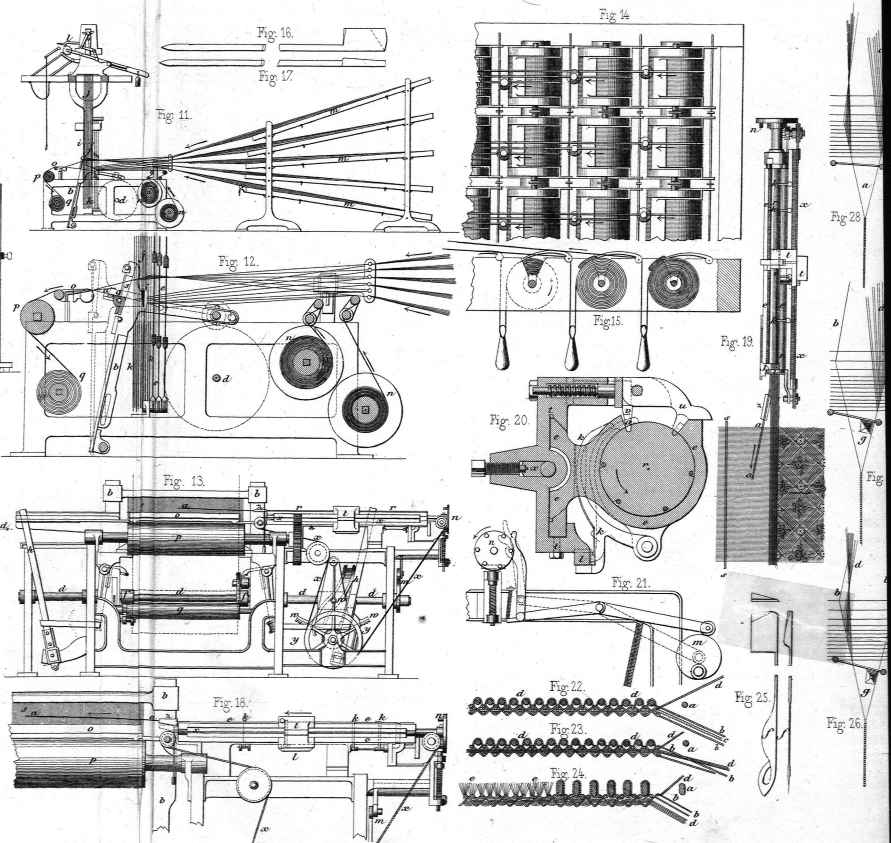


Smith's Blechröhrenfabrikation.

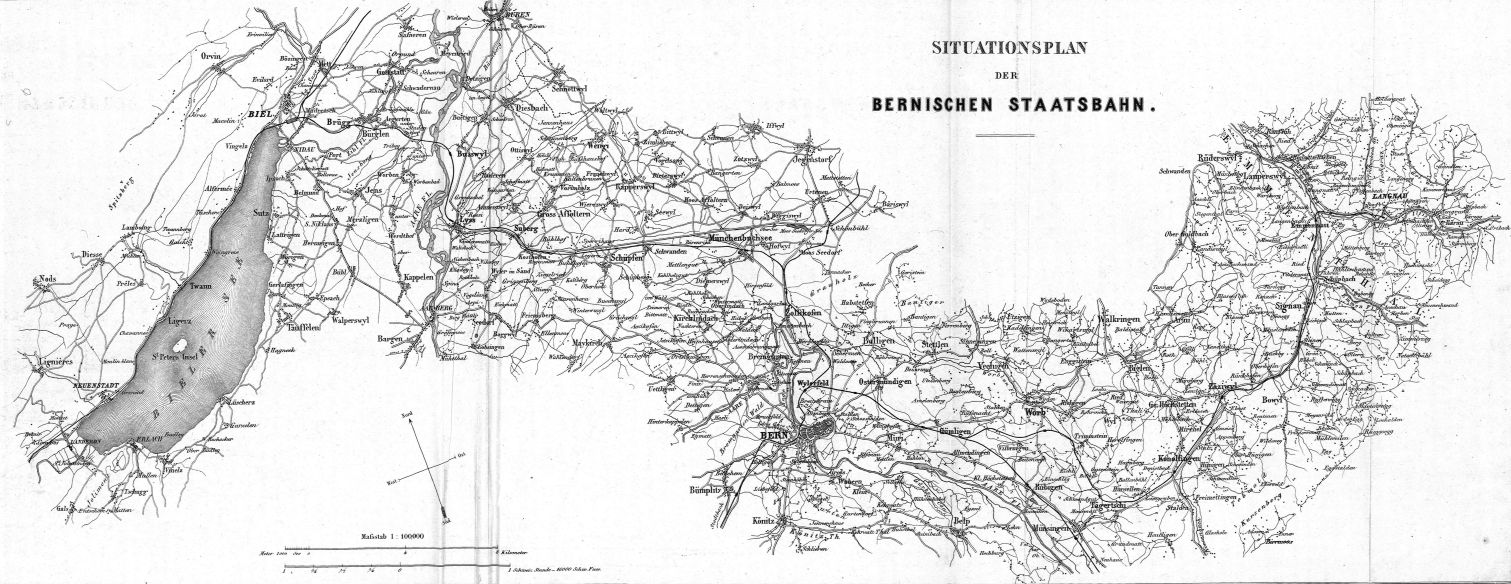
Fig. 10. A-J.



Weild's mechan. Teppichstuhl.



# SITUATIONSPLAN DER BERNISCHEN STAATSBAHN.



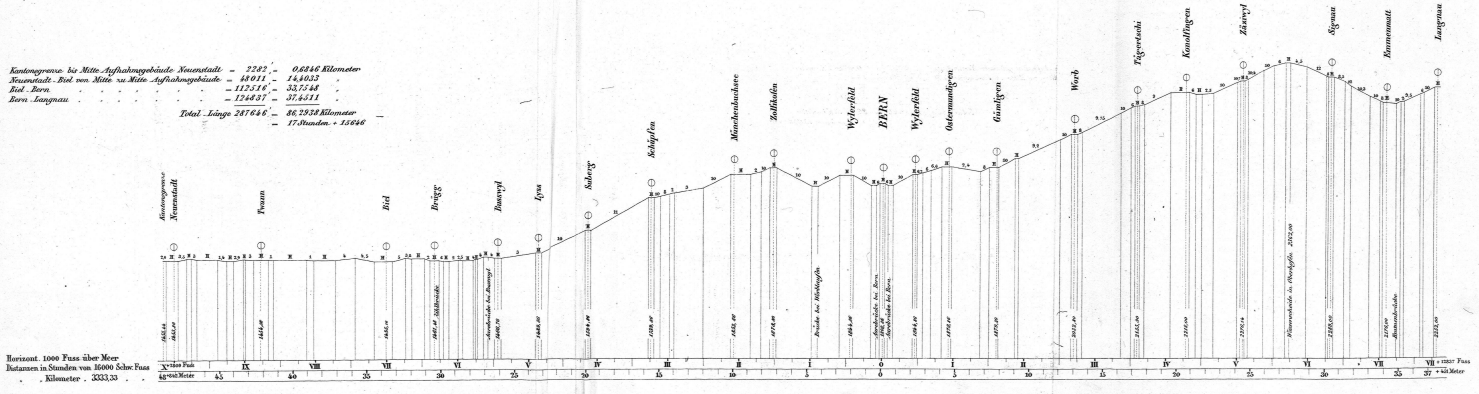
Verlag, Anstalt v. W. & A. B. Neumann, Neudamm, Berlin. 1880. 100000. 1:100,000.

# BERNISCHE STAATSBAHN NEUENSTADT - BIEL - BERN - LANGNAU.

## Längenprofil

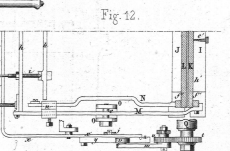
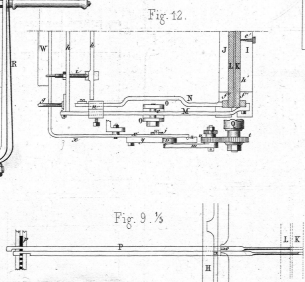
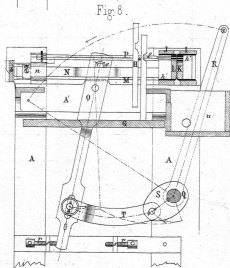
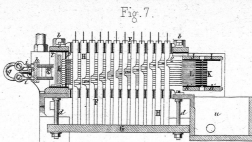
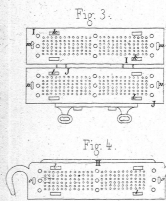
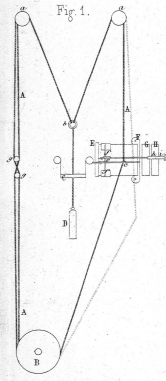
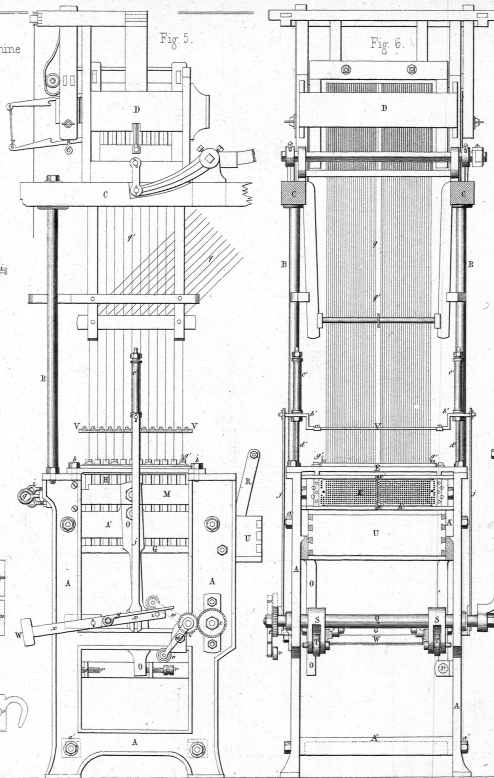
Mafstab für die Längen - 1:200000  
für die Höhen - 1:4000

Kantonsgrenze bis Mitte Aufstiegsgebäude Neuenstadt = 2287 = 0,8346 Kilometer  
 Neuenstadt - Biel von Mitte von Mitte Aufstiegsgebäude = 14011 = 14,011 Kilometer  
 Biel - Bern = 112516 = 112,516 Kilometer  
 Bern - Langnau = 174437 = 174,437 Kilometer  
 Total - Länge 287646 = 287,646 Kilometer  
 17 Stunden - 1898

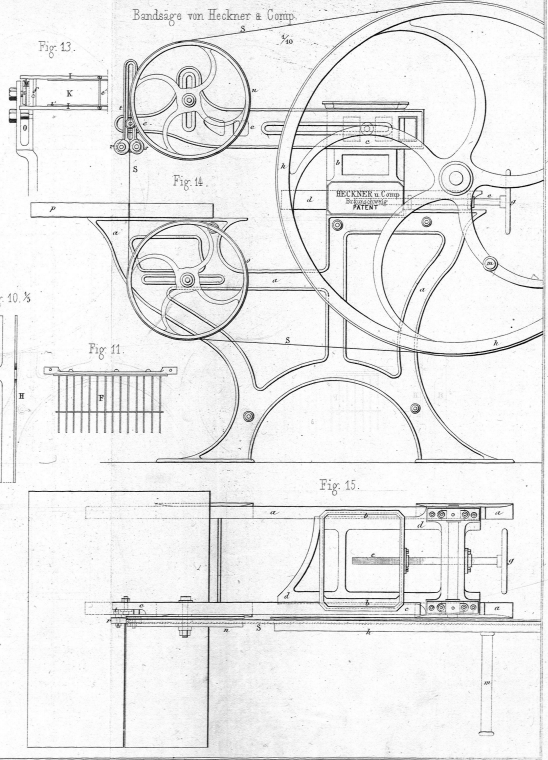


Topogr. Anstalt v. Werner, Baugingen & Co. Winterthur

### Kartenausschlagmaschine von Ulbricht. 1/20.



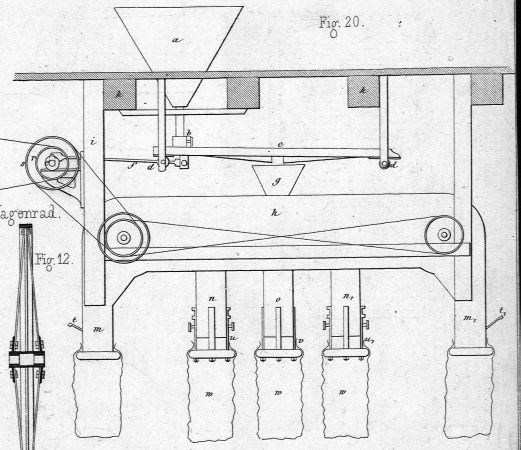
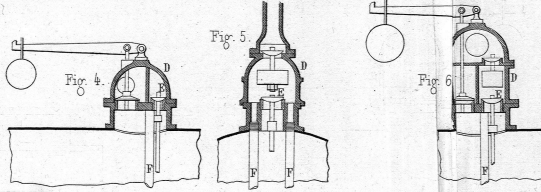
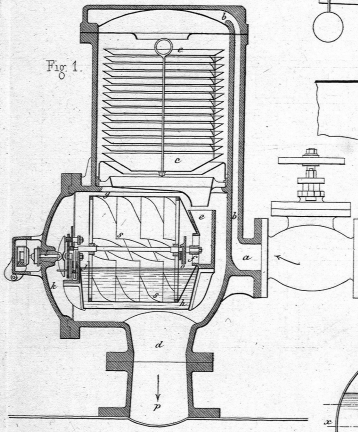
### Bandsäge von Heckner & Comp.



Verdampfungsmesser von Fischer u. Stiehl.

Sicherheitsventile von Hayhes u. Sellers.

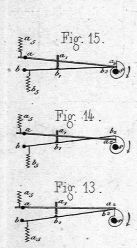
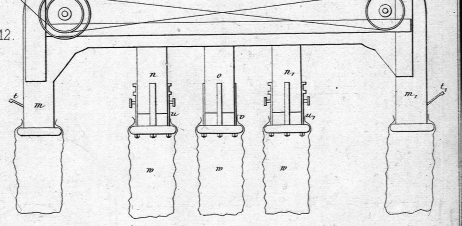
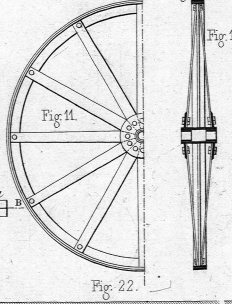
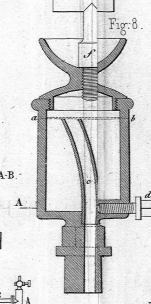
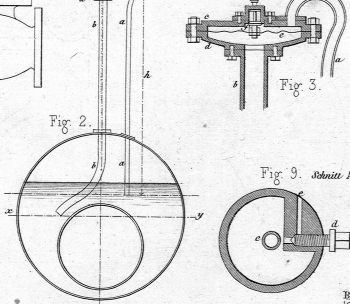
Arndt's Griesputzmaschine. 3/2



Prüsmann's Sicherheitsapparat für Dampfkessel

Verbesserte Scherbüchse für Dampfcylinder

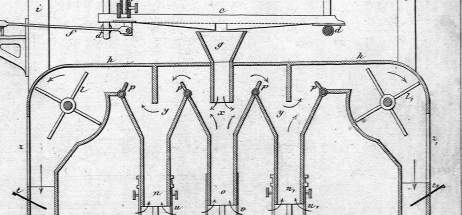
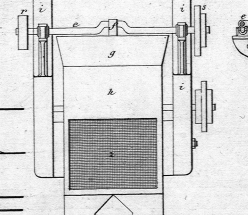
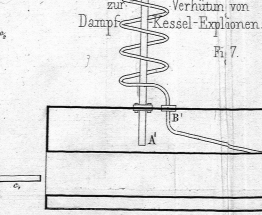
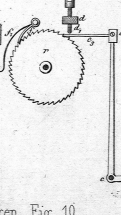
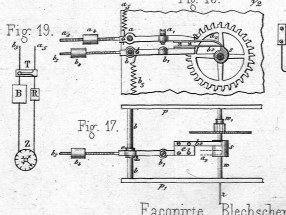
Clark's stählernes Wagenrad



Artzberger's elektrische Uhr

Fig. 18

Zabel's Vorrichtung zur Verhütung von Dampf-Kessel-Explosionen



Façonirte Blechscheren Fig. 10



Desgoffes Apparate zur Bestimmung der Festigkeit der Materialien.

Masstab 1:10.

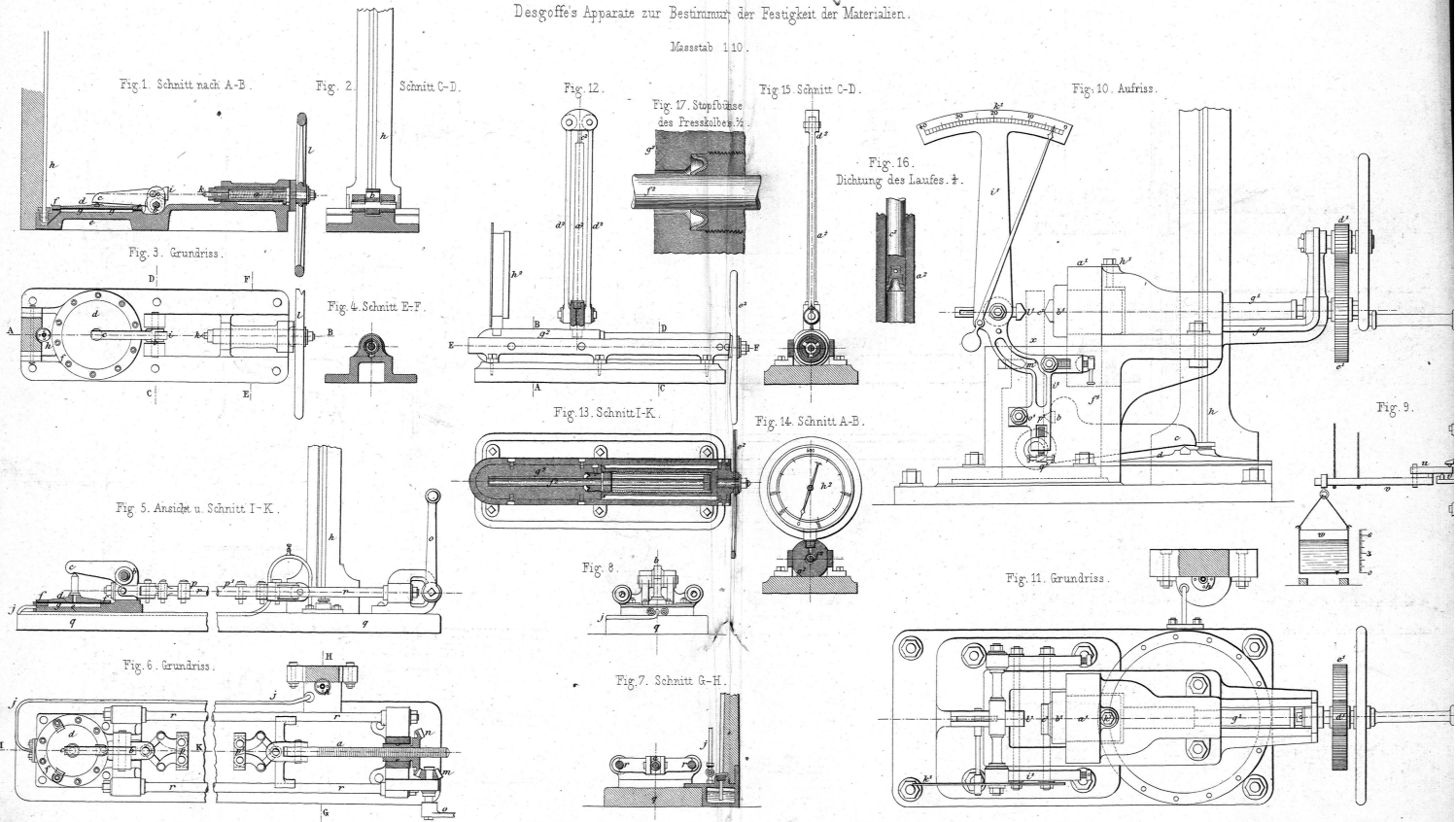
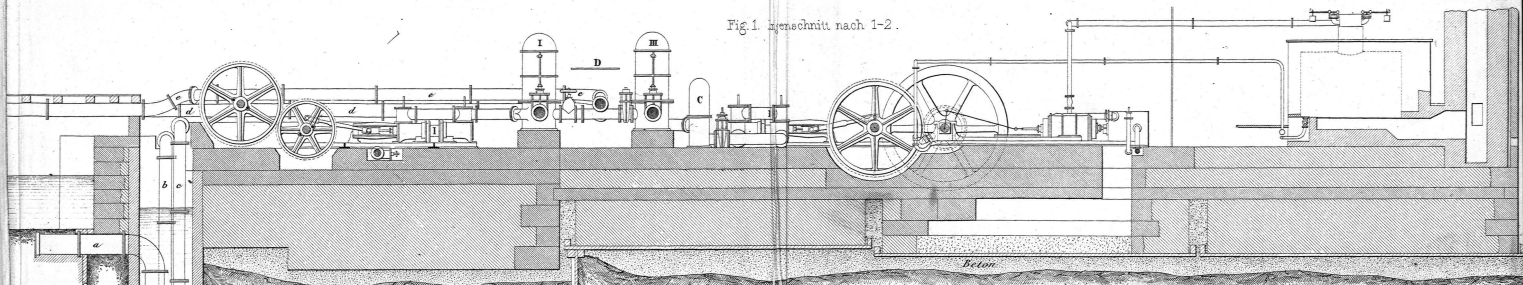


Fig. 1. Längsschnitt nach 1-2.



36 Schaufeln

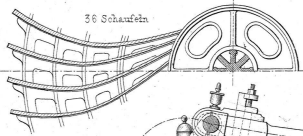


Fig. 5. Querschnitt des Wasserrades (1/6)

Fig. 4. Ventil der Pumpen III u. IV. Fig. 4. Querschnitt. 5-6.

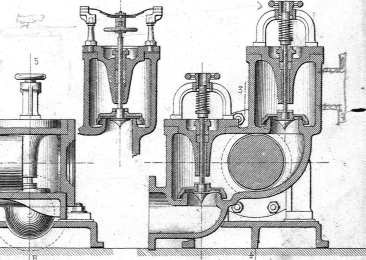
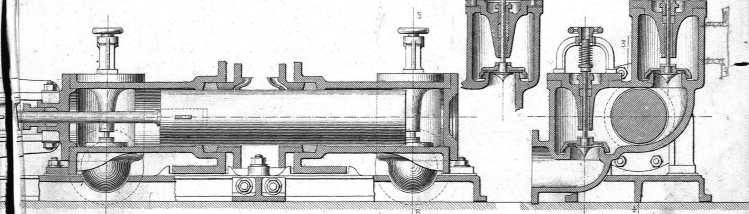


Fig. 4. Längsschnitt der grösseren Pumpe I nach 3-4



**PUMPWERK  
zur  
WASSEHVERSORGUNG  
DER STADT ZÜRICH.**

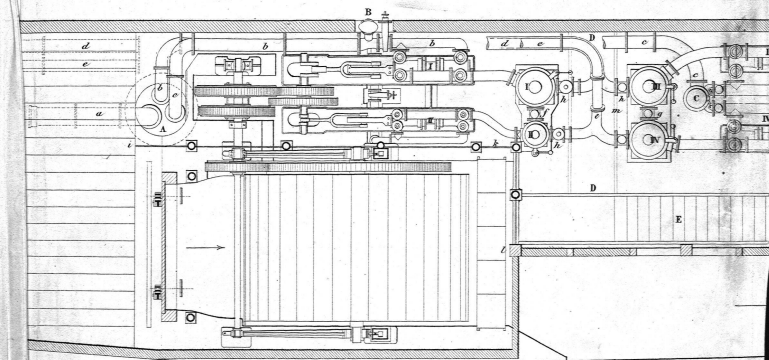


Fig. 2. Grundriss

Maßstab 1/500 zu Fig. 1 u. 2. 10 Meter

Maßstab 1/50 zu Fig. 3 u. 4. 1.2 Meter



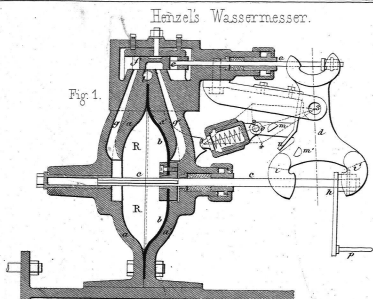


Fig. 1.

Henzels Wassermesser.

Vorrichtung zum selbstthätigen Kugelrollen.

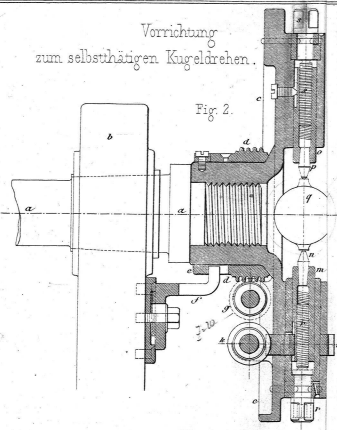


Fig. 2.

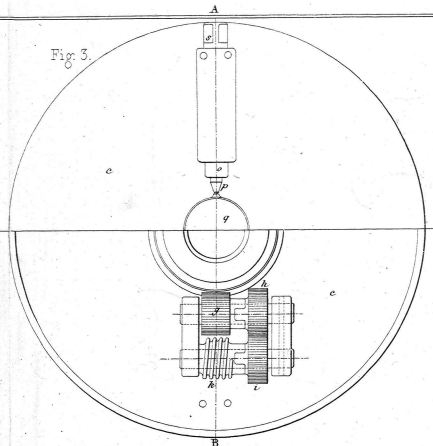


Fig. 3.

Osterkamp's pat. Gesteinbohrmaschine

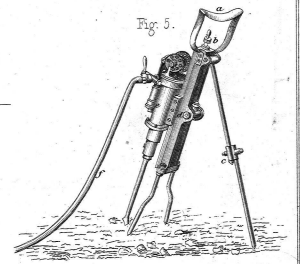
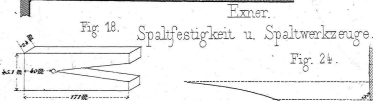


Fig. 5.



Exner's Spaltfestigkeit u. Spaltwerkzeuge.

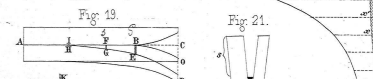


Fig. 19.

Fig. 21.

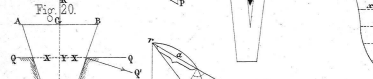


Fig. 20.

Fig. 26.

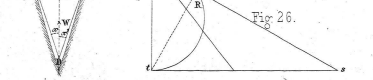


Fig. 22.

Fig. 23.



Fig. 23.



Fig. 27.

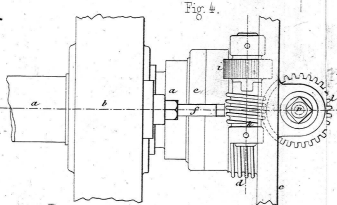


Fig. 4.

Dreyer's autom. Markencontrollapparat.

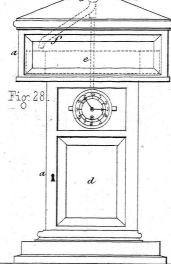
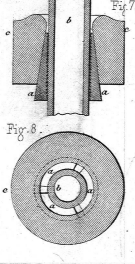


Fig. 28.

Kalkherde für Rohrenbrennen.

Fig. 7.

Fig. 8.



Wolf's pat. Sicherheitsschloss.

Fig. 11. +



Fig. 17.

Fig. 12.

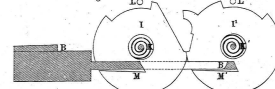


Fig. 13.

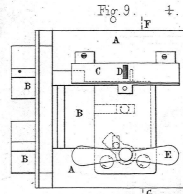


Fig. 9. +

Fig. 10.

Fig. 15. +

Fig. 16.

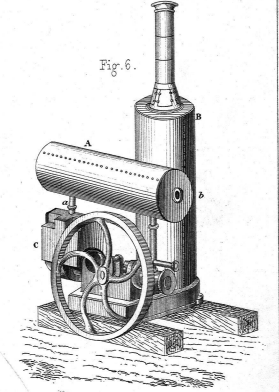


Fig. 6.

Fig. 1.

# GUSSEISERNER BRUNNEN

mit drei Schalen und einer Büttenträgerschale.

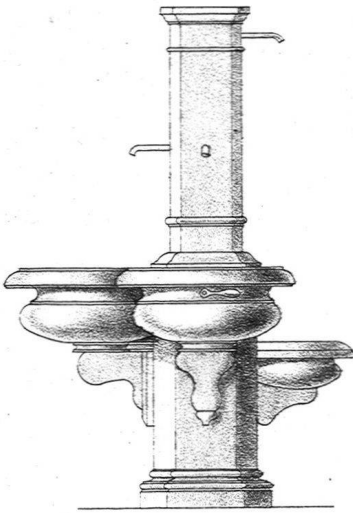


Fig. 2. Seitenansicht des Brunnens.

$\frac{3}{10}$ .

$\frac{1}{10}$ .

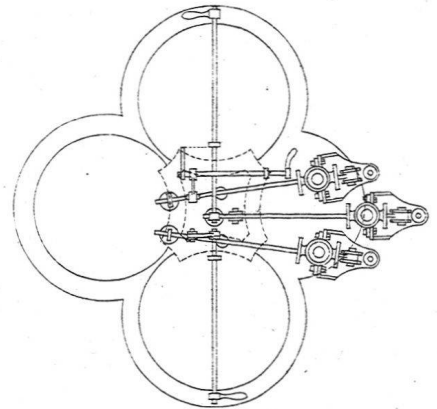
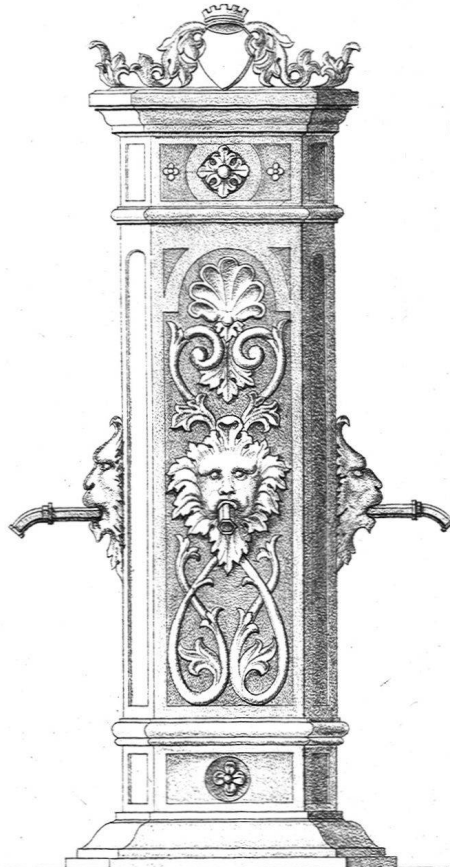
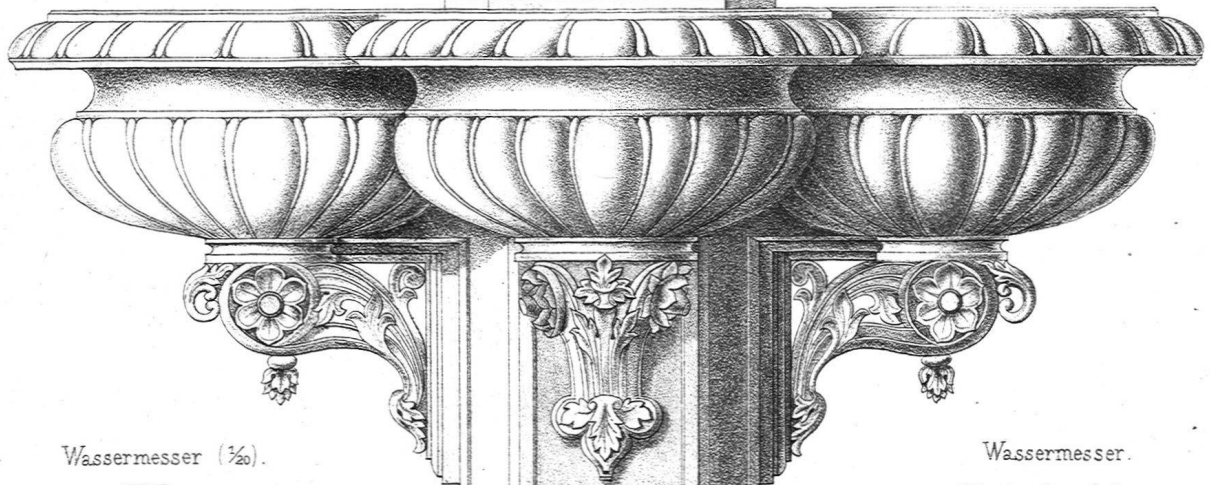


Fig. 3.

Grundriss des Brunnens  
mit den Absperrventilen.

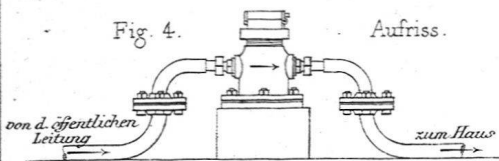
$\frac{3}{10}$ .



Wassermesser ( $\frac{1}{20}$ ).

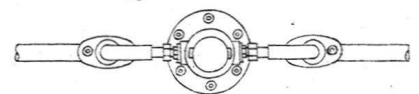
Fig. 4.

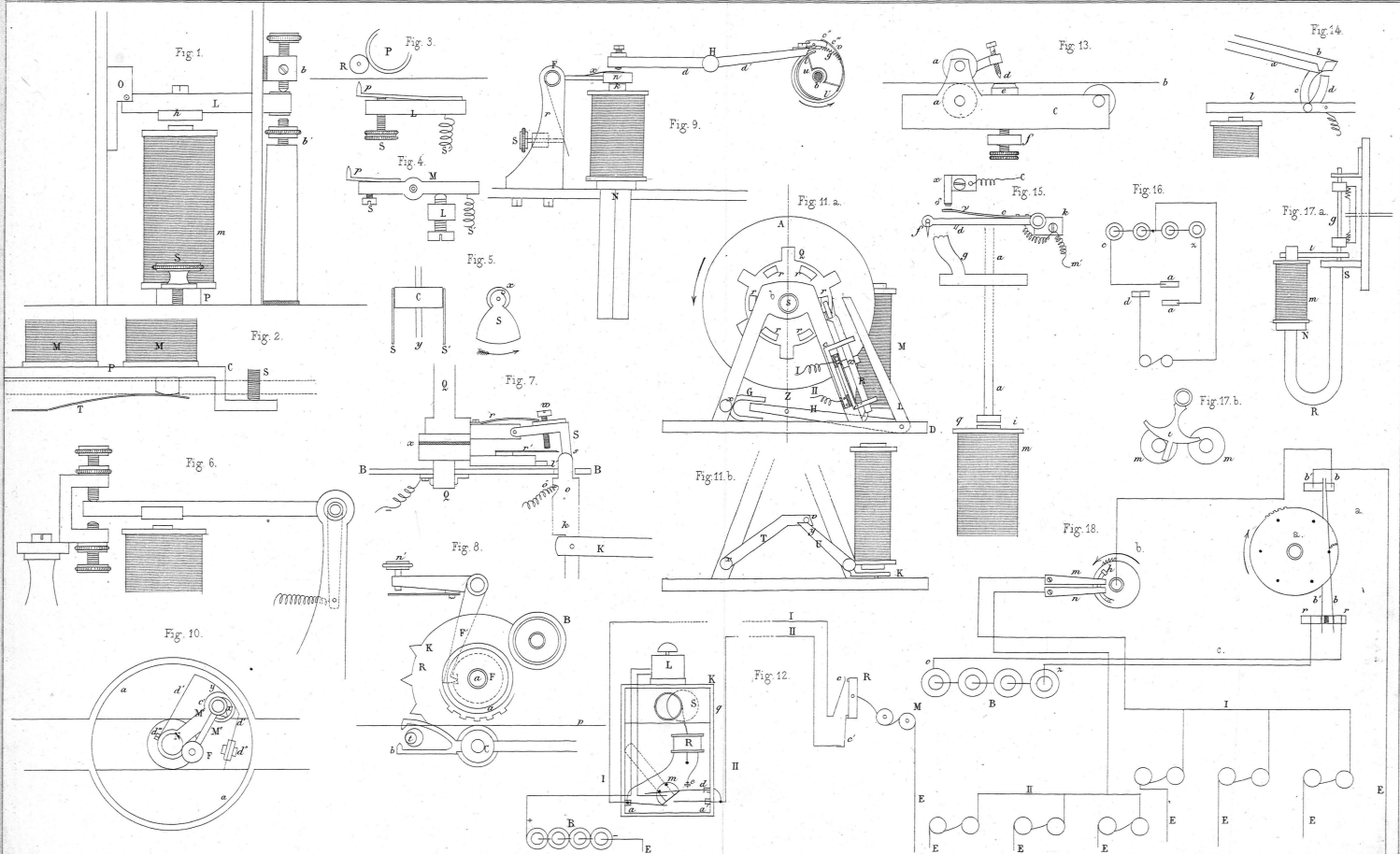
Aufriss.



Wassermesser.

Fig. 5. Grundriss.





RIGI-BAHN.

Fig 1 Querschnitt der Bahn 1/25

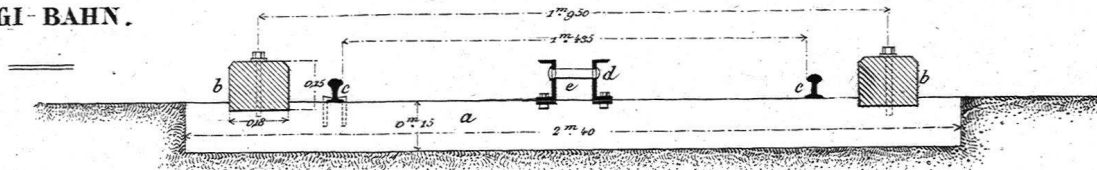
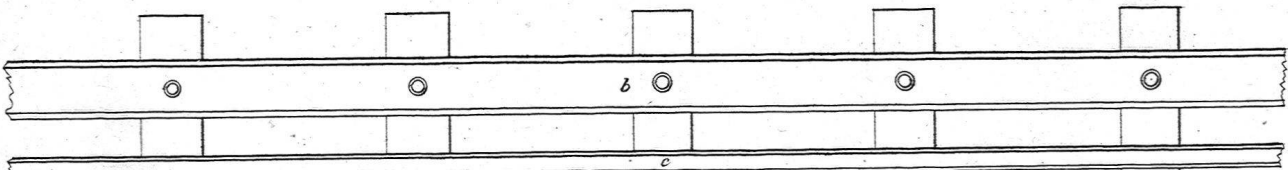
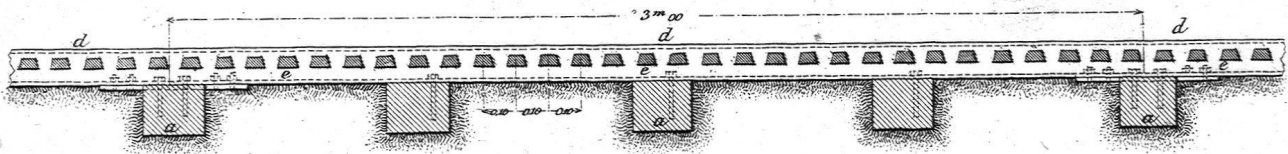
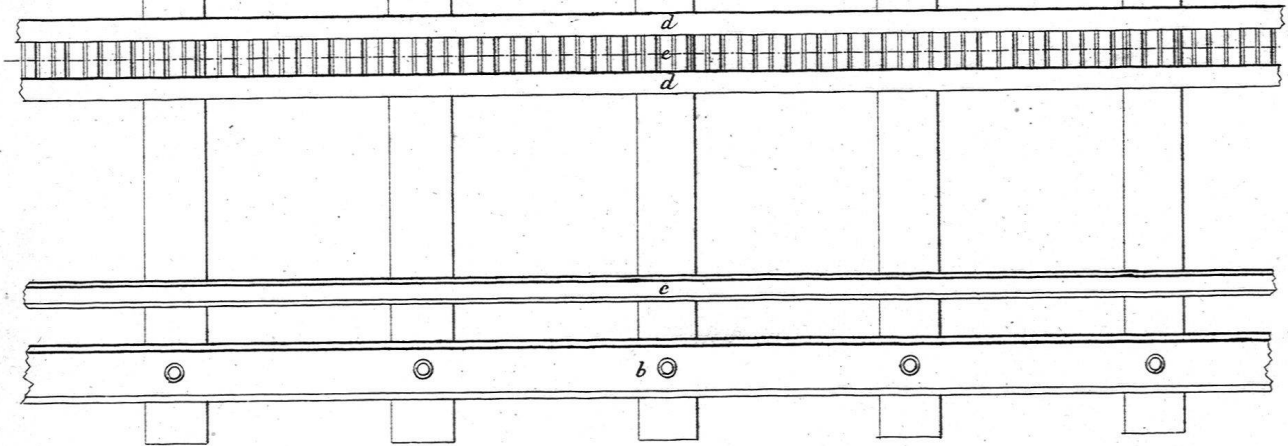


Fig. 2. Längensicht der Bahn 1/25.



Grundriss a der Bahn 1/25.



Drehbühne.

Fig 4. Längensicht 1/100

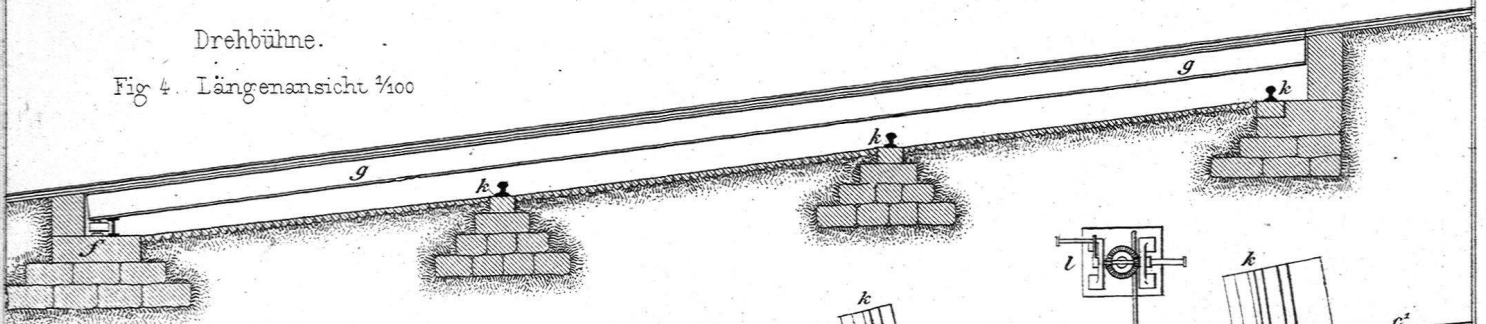


Fig 5. Grundriss 1/100.

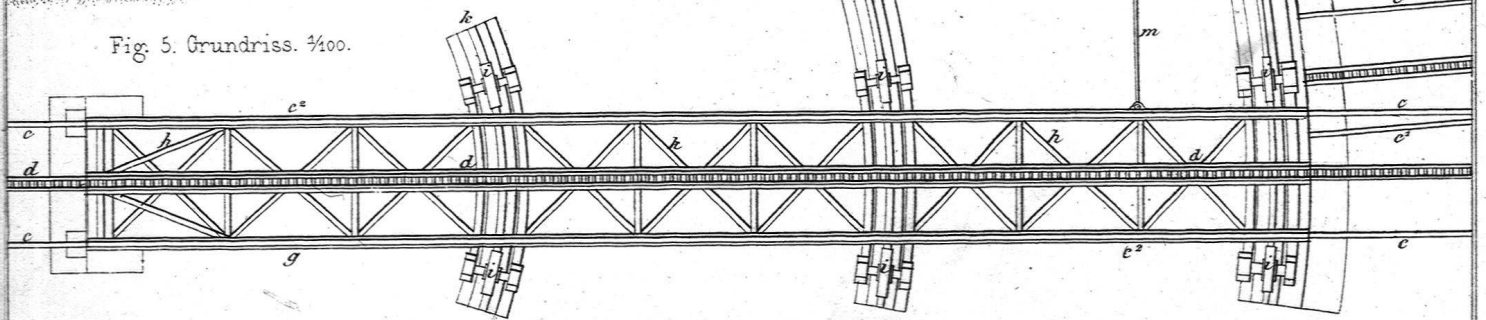


Fig. 8. Querschnitt der Brücke. 1/40.

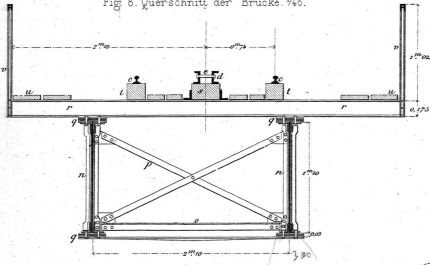


Fig. 9. Längensicht des Brückengeländers. 1/40.

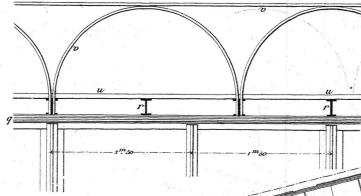
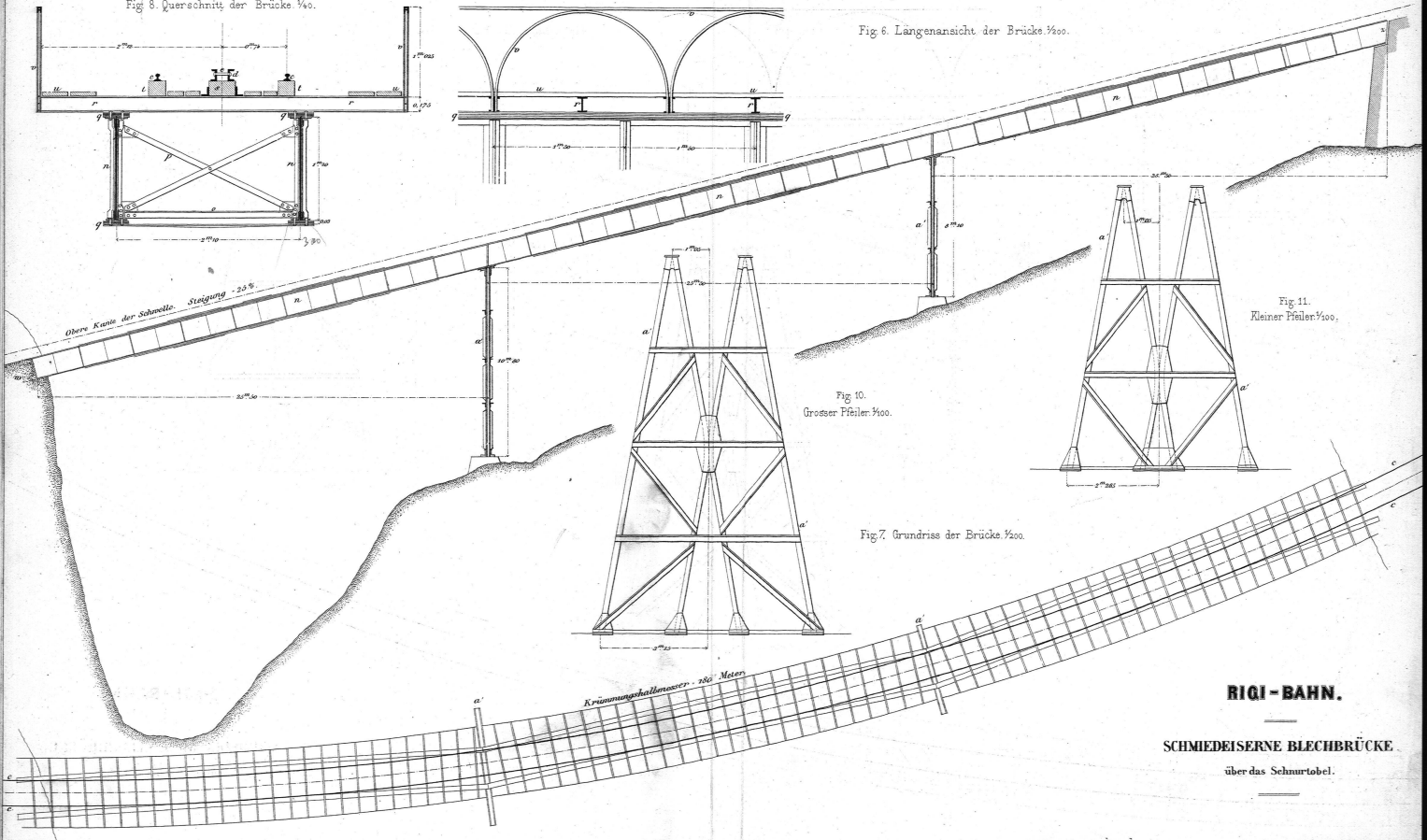


Fig. 6. Längensicht der Brücke. 1/200.



Oberer Kante der Schwelle. Steigung -23%

Krümmungshalbmesser = 280 Meter

Fig. 10. Grosser Pfeiler. 1/400.

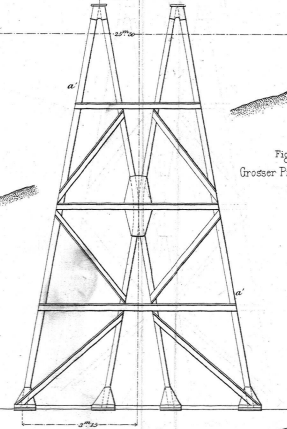


Fig. 11. Kleiner Pfeiler. 1/400.

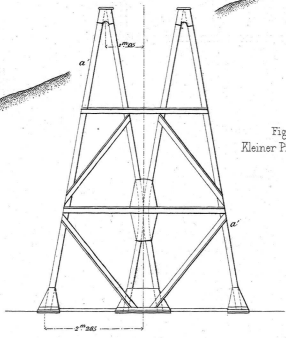
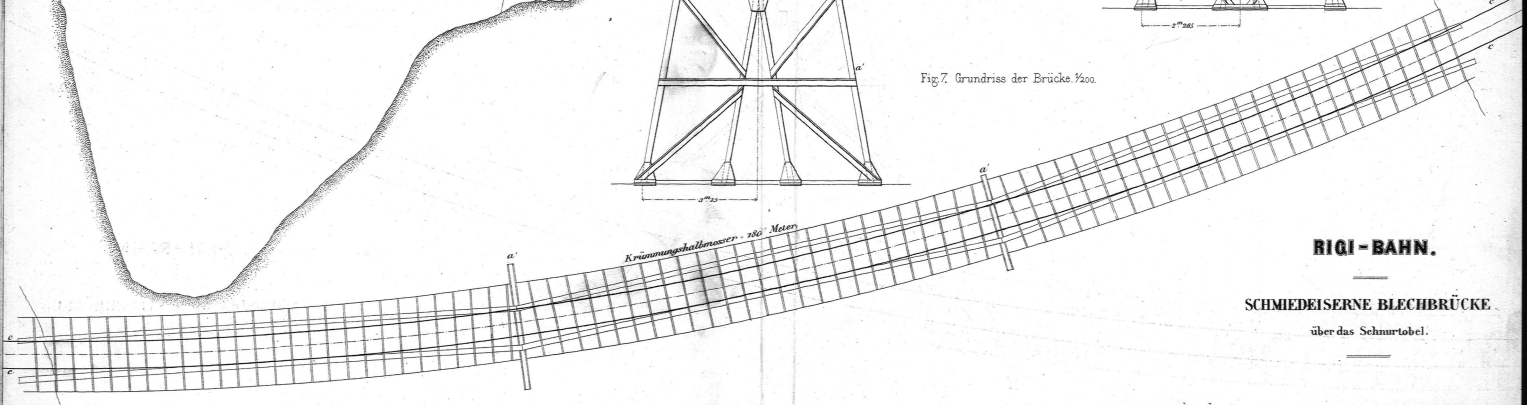


Fig. 7. Grundriss der Brücke. 1/200.



**RIGI-BAHN.**

**SCHMIEDEISERNE BLECHBRÜCKE**  
über das Schurtobel.

Lith. Anstalt von Wurstler, Fasniggen & Co. in Winterthur.

# RIEGL-BAHN

Fig. 13. Locomotive. 1/2s.

## Hauptdimensionen der Locomotive.

Bohlenbau der Pfähle.....	0 <sup>m</sup> 224
Expansionsverhältnis.....	0 <sup>m</sup> 800
Bohlenbau.....	1:3
Bohlenlänge.....	0 <sup>m</sup> 80
Bohlenstärke.....	1 <sup>m</sup> 200
Bohlenabstand.....	1 <sup>m</sup> 200
Bohlenbreite.....	1 <sup>m</sup> 200
Bohlenhöhe.....	1 <sup>m</sup> 200
Bohlenabstand in den Pfählen.....	1 <sup>m</sup> 200
Bohlenabstand der Treibräder n.....	0 <sup>m</sup> 227
Bohlenabstand o.....	0 <sup>m</sup> 832
Bohlenabstand der Zahnstangen.....	0 <sup>m</sup> 832

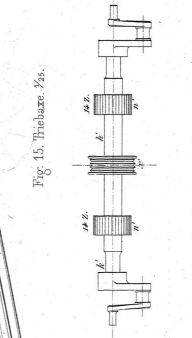
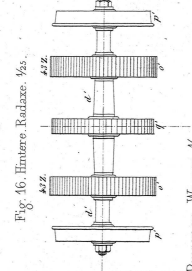
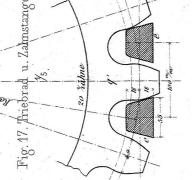
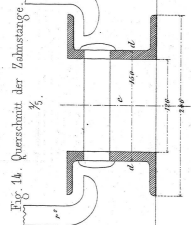
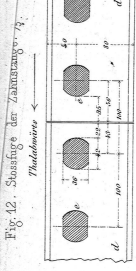
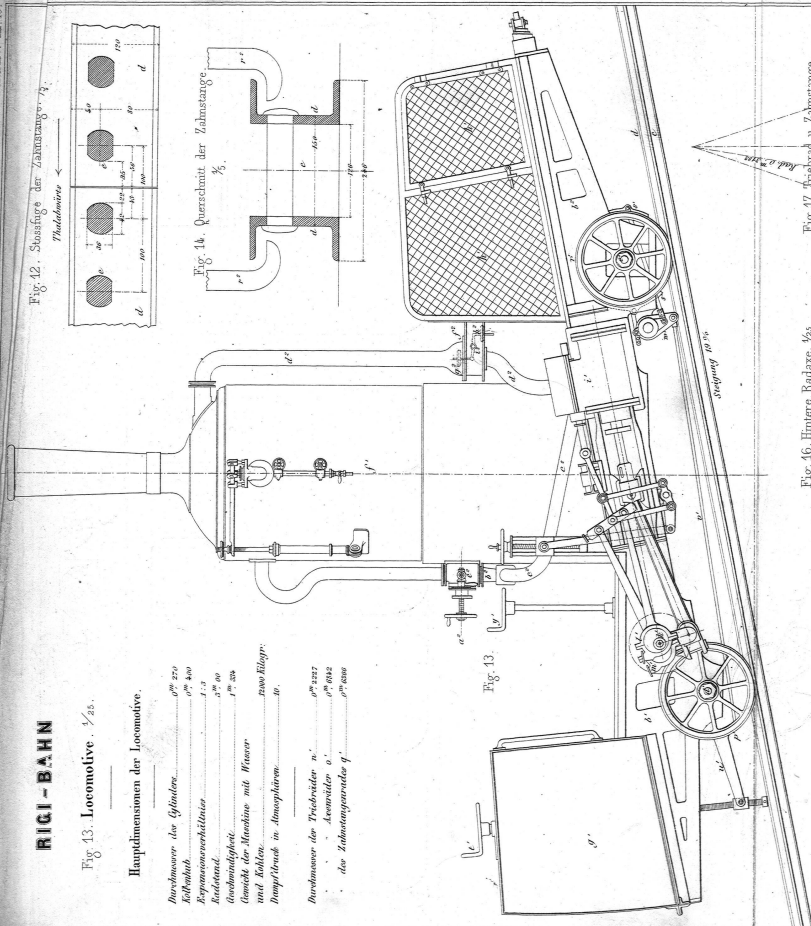


Fig. 19. Querschnitt.

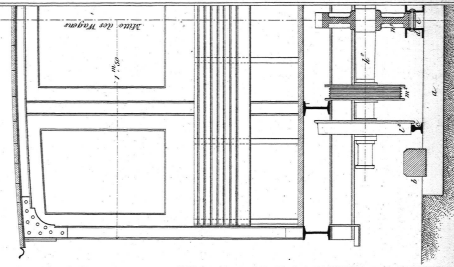


Fig. 18. Längenschnitt u. Ansicht.

