

Ponts levants à presses hydrauliques.

Fig. 1. Sur le canal de Bourgogne
près de Dijon.

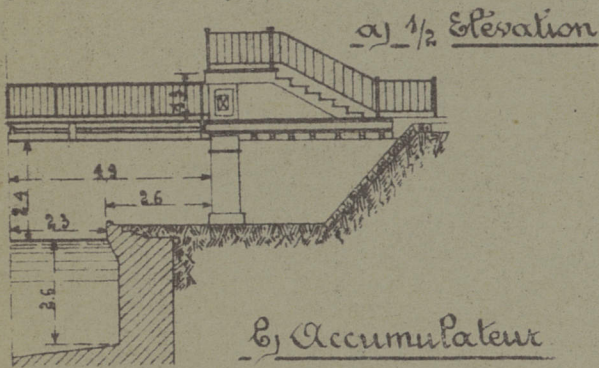
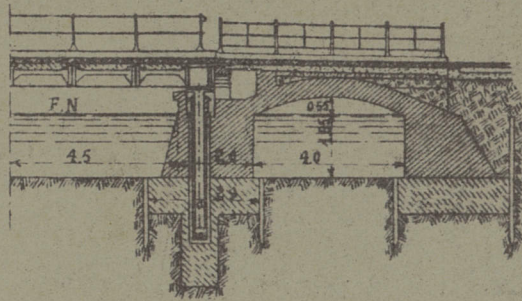


Fig. 2. à Berlin (port Urban)
(1895)



- a) pignon
- b) axes
- c) crémaillères
- d)

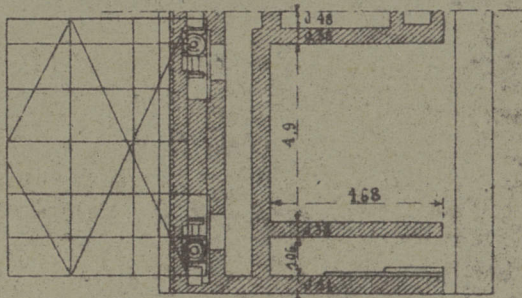
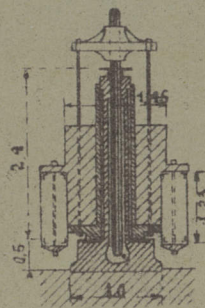
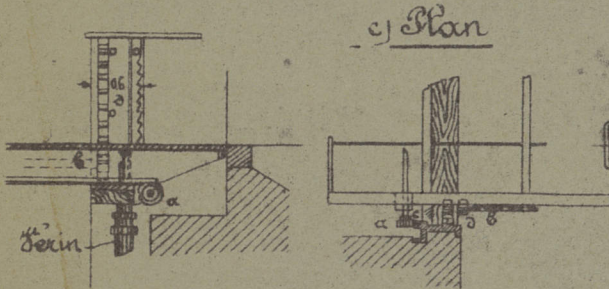
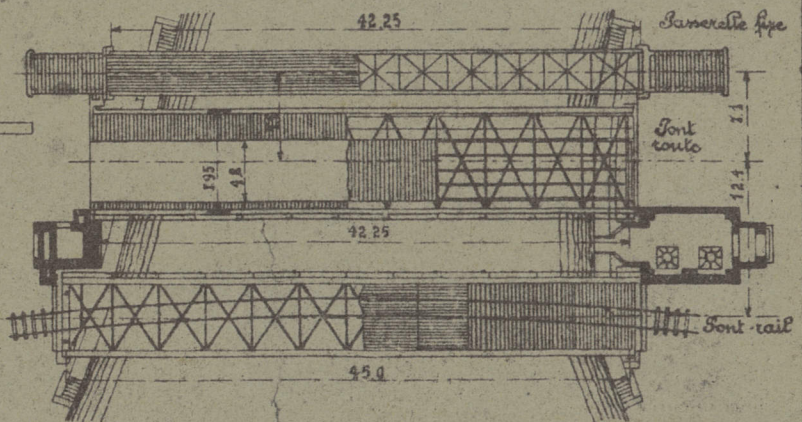


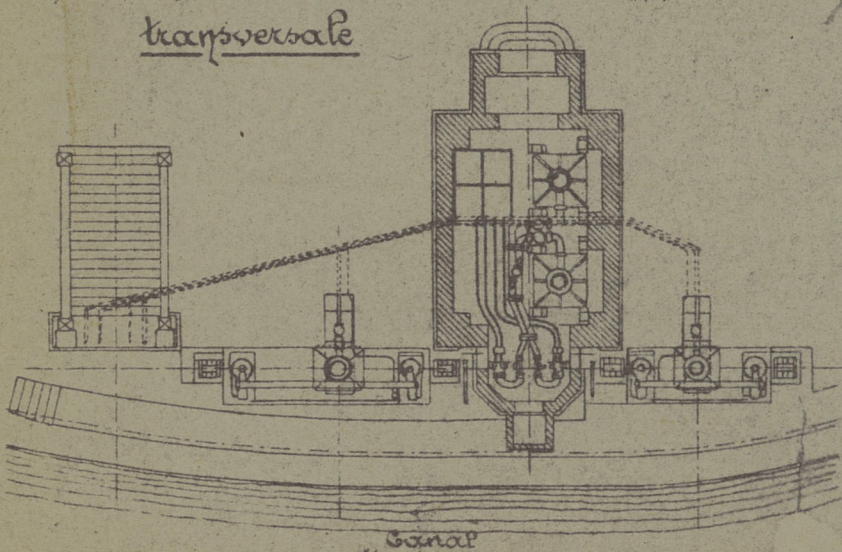
Fig. 3. à Suseck (1900)



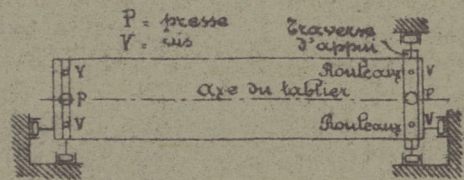
a) Plan.



b) Coupe
transversale



c) Schéma des appuis
et du guidage.



Pont levant à presses hydrauliques de Subeck (1900) (suite)

d) Accumulateurs et veins.

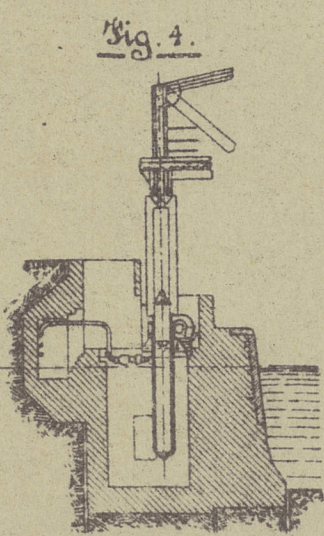
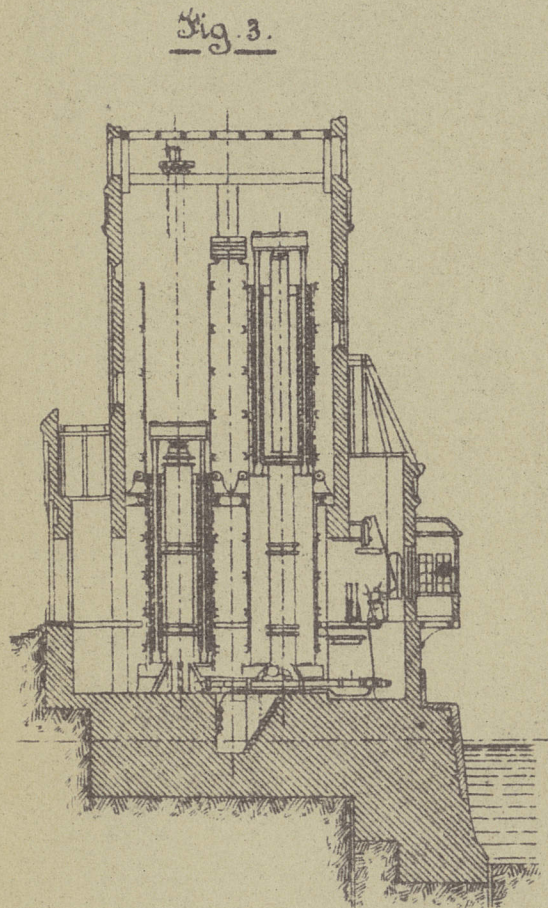
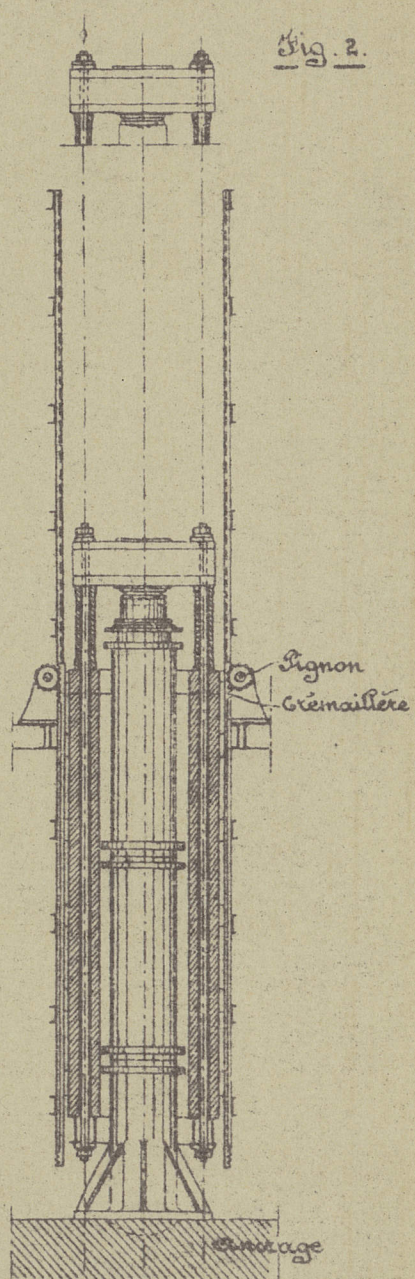
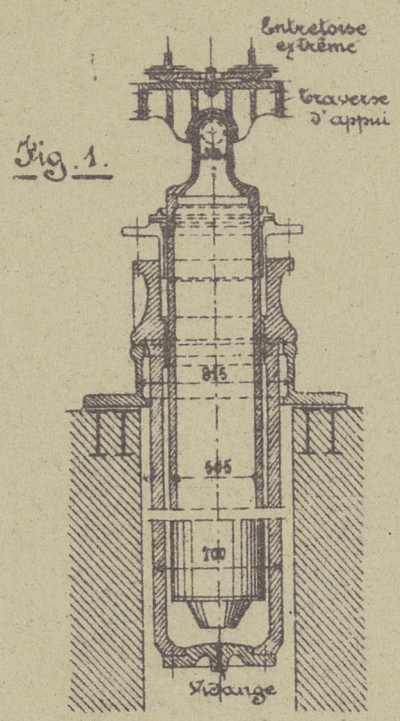


Fig. 1. Appui fixe

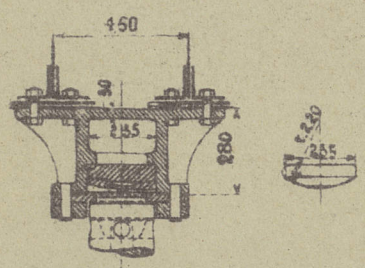
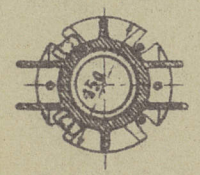
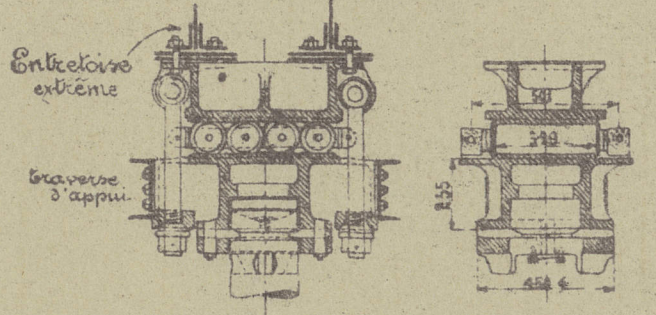
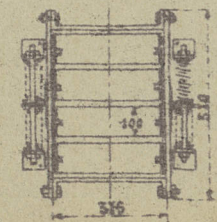


Fig. 2. à rouleaux



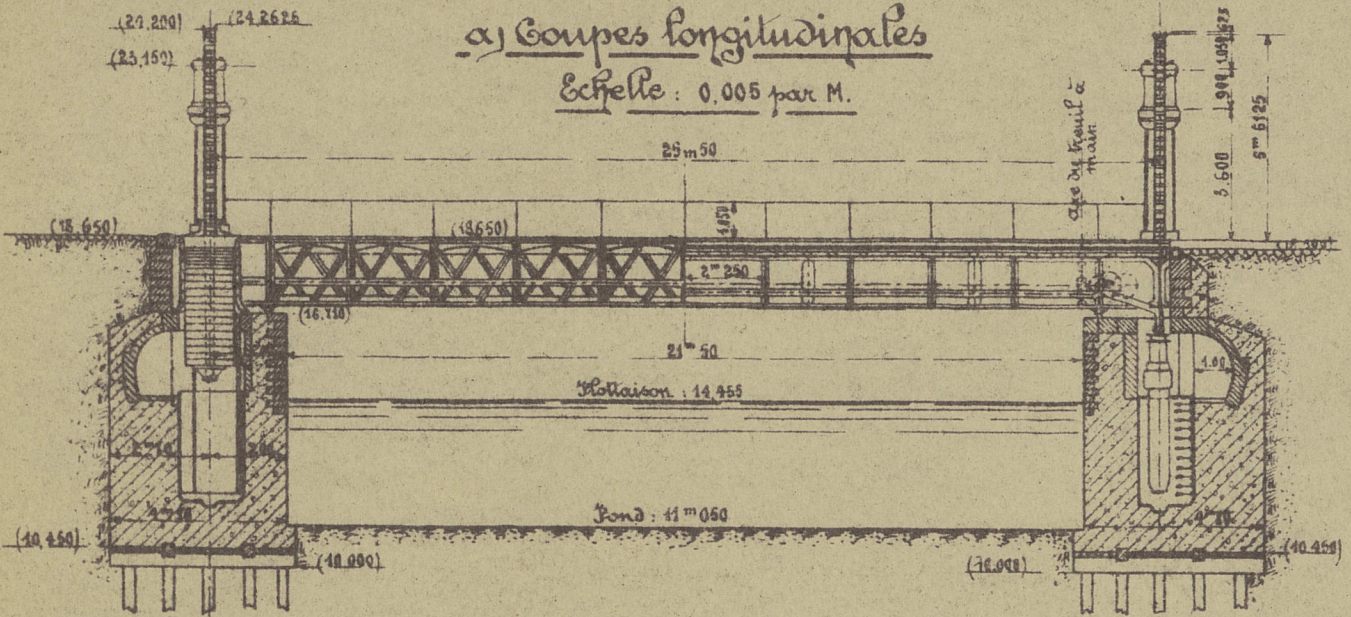
e) Appuis sur les vis.



Pont de fer à Courmoulin sur l'Escaut (1910-11)

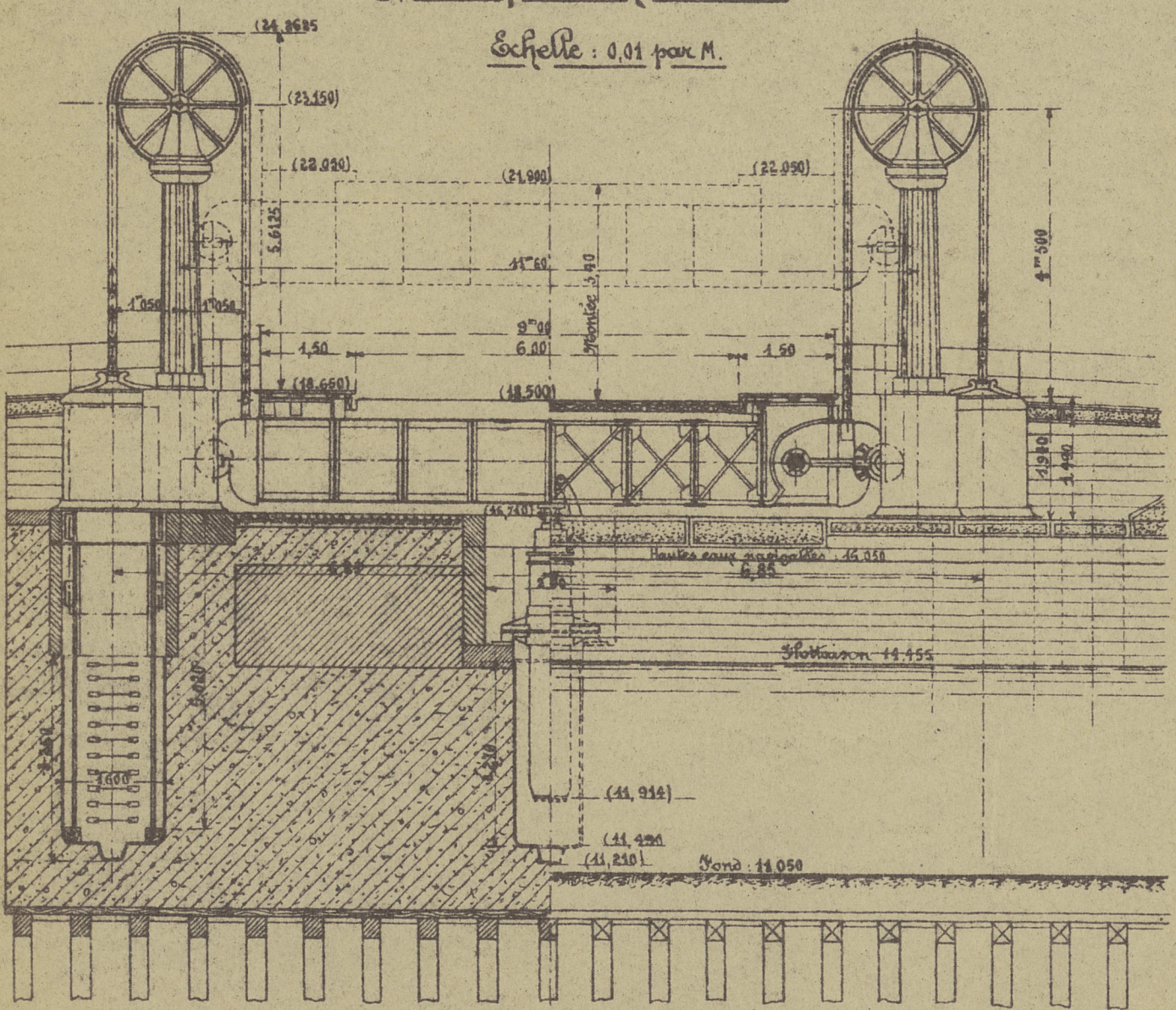
a) Coupes longitudinales

Echelle : 0,005 par M.



b) Coupes transversales

Echelle : 0,01 par M.



Ponts levants funiculaires.

Fig. 1. Sur le canal de l'Ourcq à la Villette (1885)

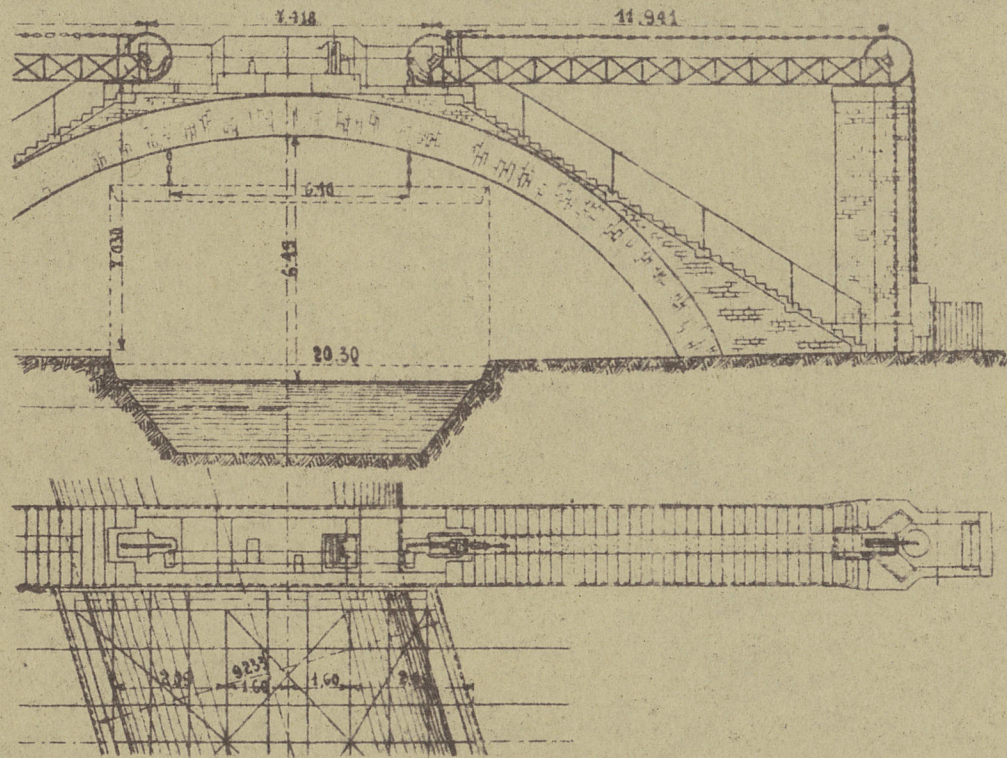
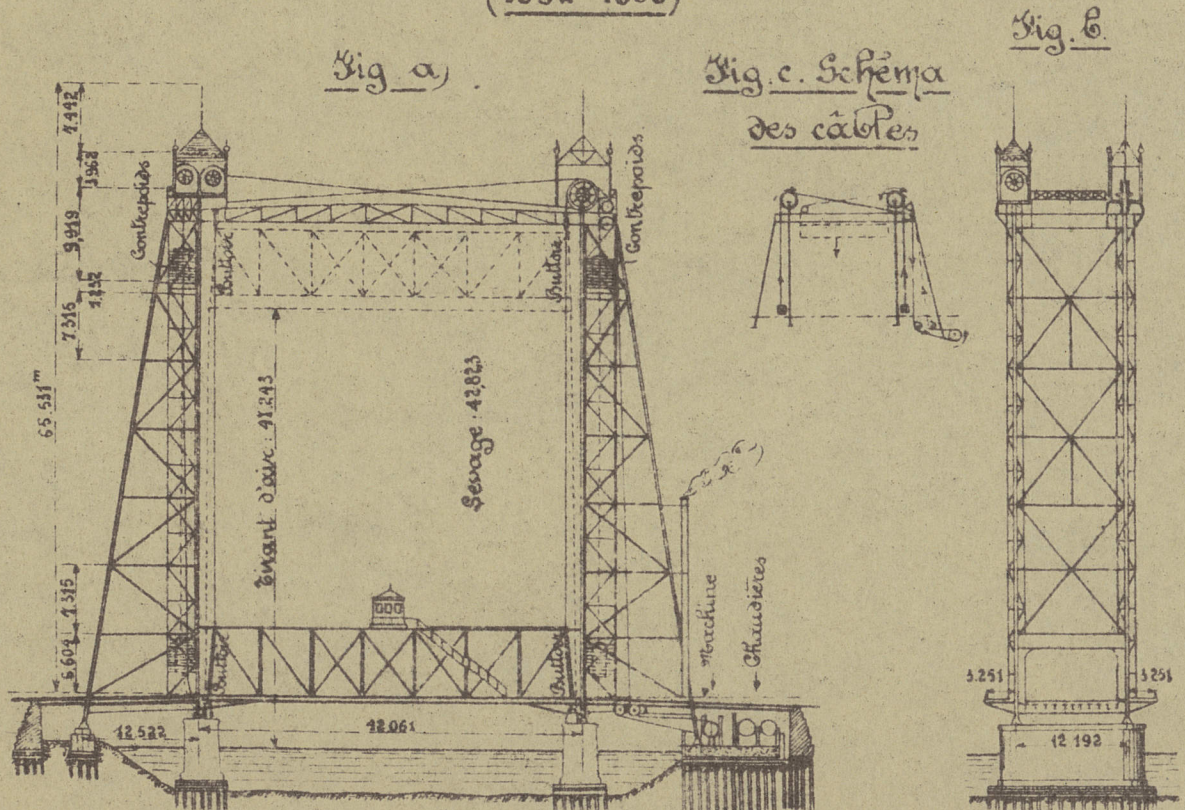
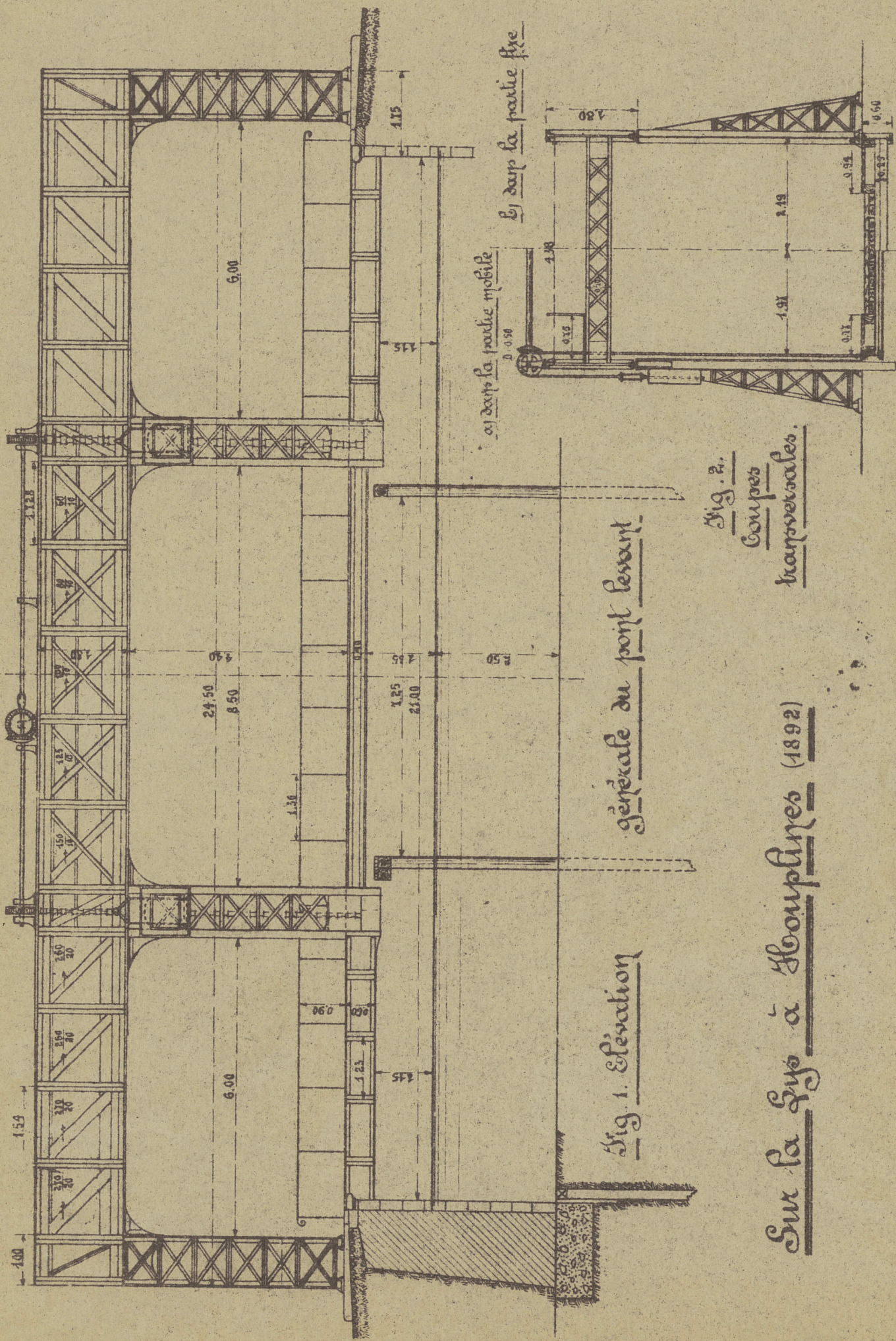


Fig. 2. Sur la rivière Halsted à Chicago.

(1892 - 1895)





générale du pont levé

Fig. 1. Elevation

Fig. 2. Coupes transversales.

Sur la Sys à Houplines (1892)

Fig. 4. Dispositif des câbles d'équilibrage et de parallélisme de translation.

Sur la Meuse
à Rotterdam

(1925-1926)

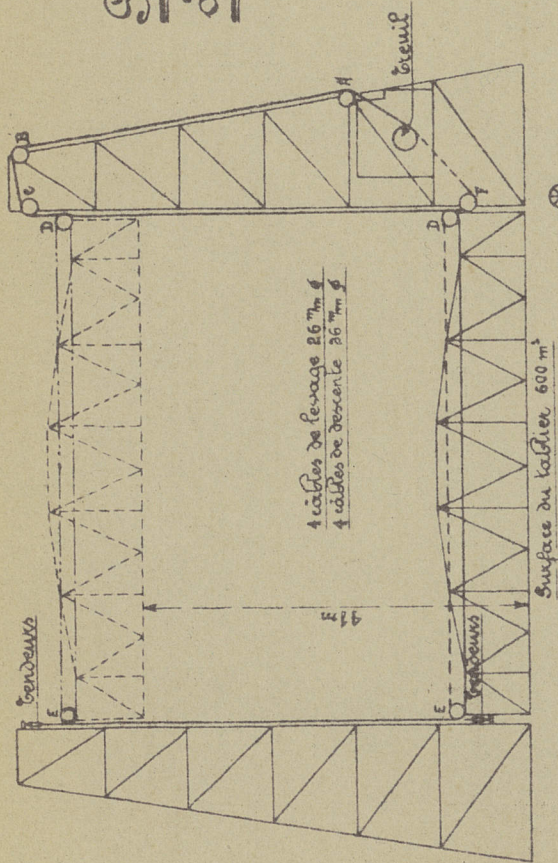
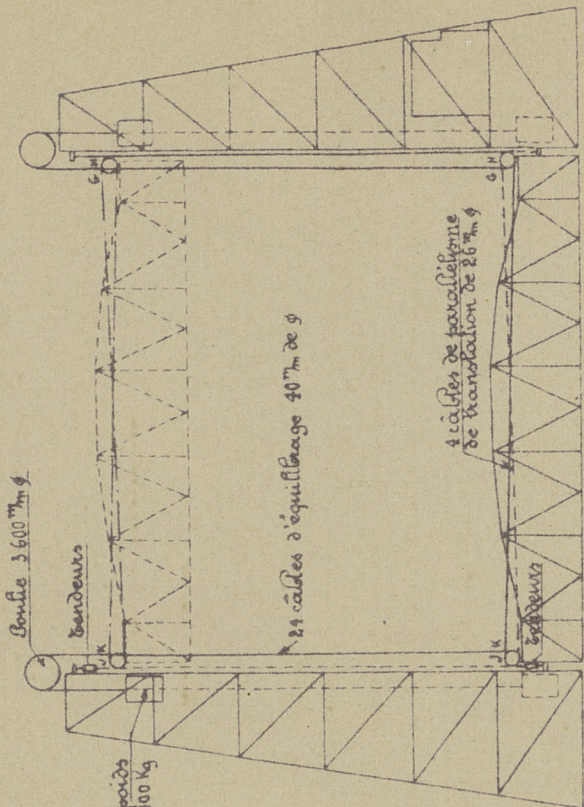
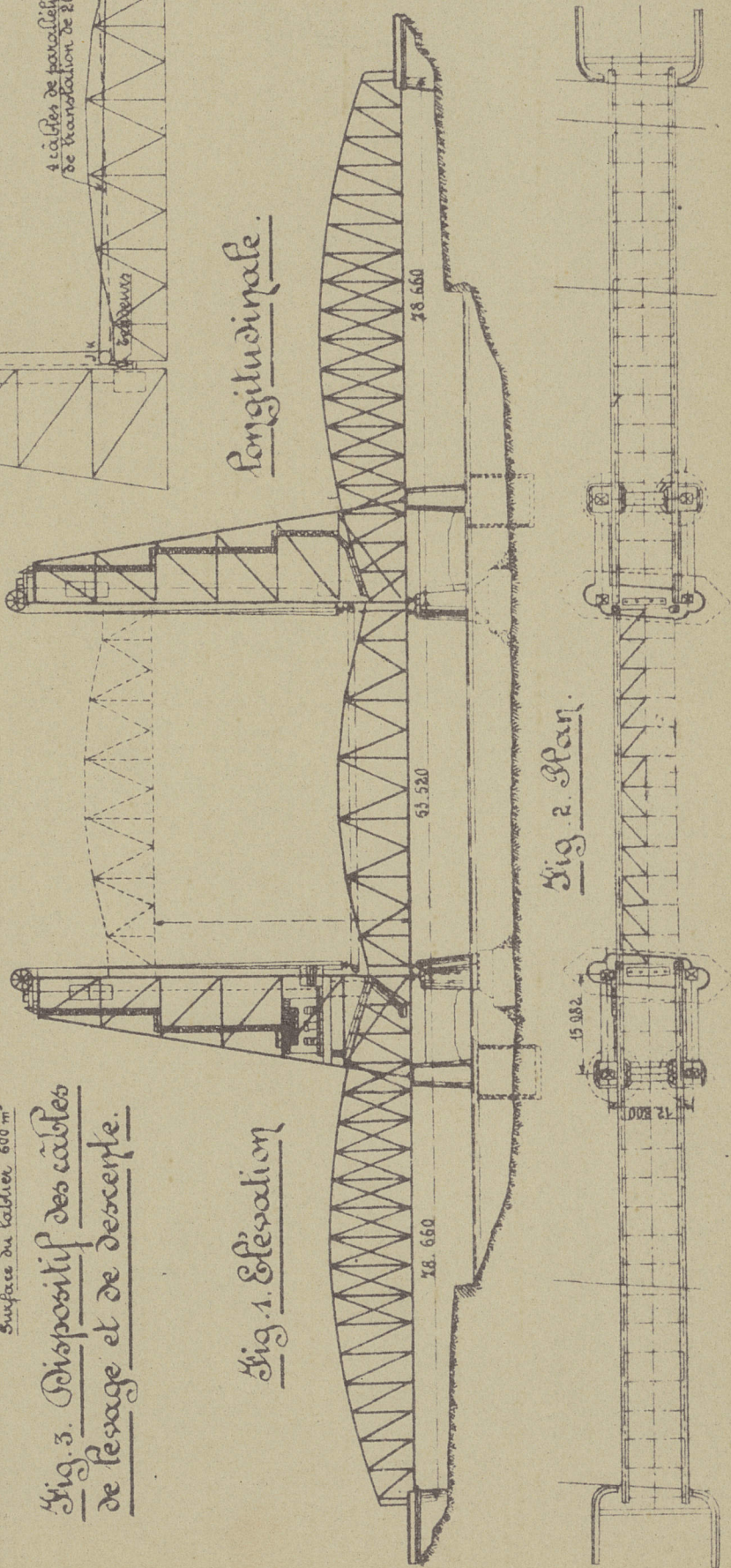


Fig. 3. Dispositif des câbles de levage et de descente.



longitudinale.



Sur la Meuse à Rotterdam (1925-26) (suite)

Fig. 5. Plan des piles

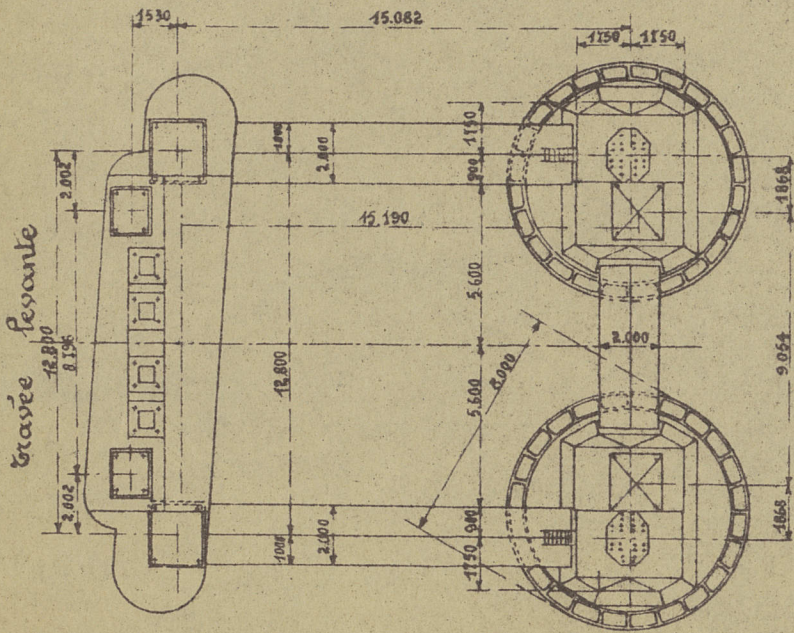


Fig. 6. Coupe E-F

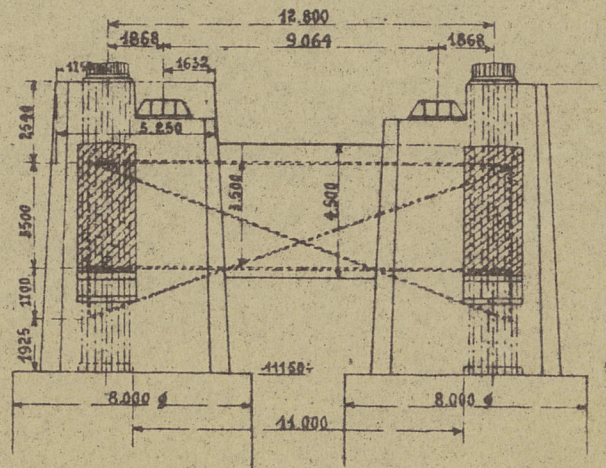
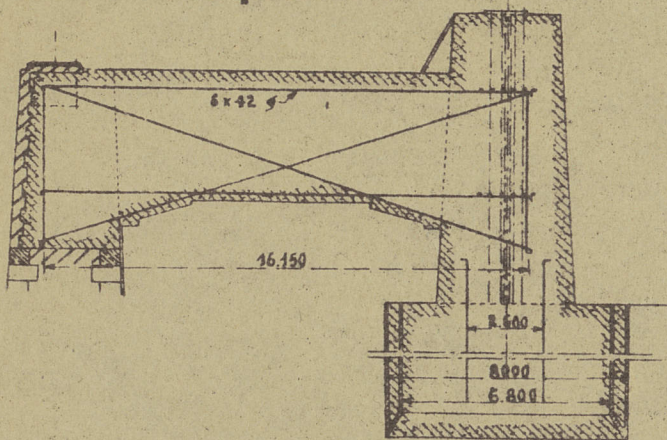


Fig. 7. Coupe G-H

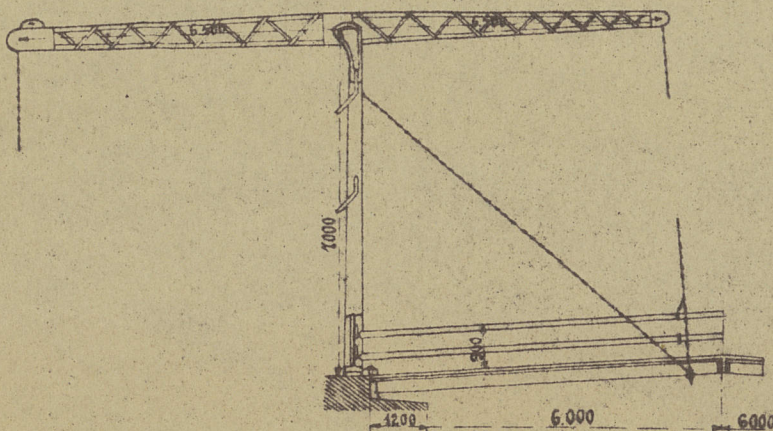


Pont levis à flèche

Fig. 1. Type à 2 volées

(Vreeswyk Pays-Bas)

b) Coupe



a) Elevation



c) Plan

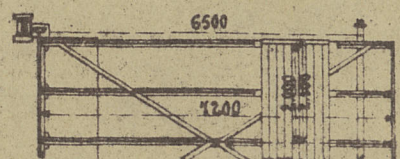


Fig. 1. Pont levé à pèche ... Type à simple voie de faible portée.
a) Elevation longitudinale

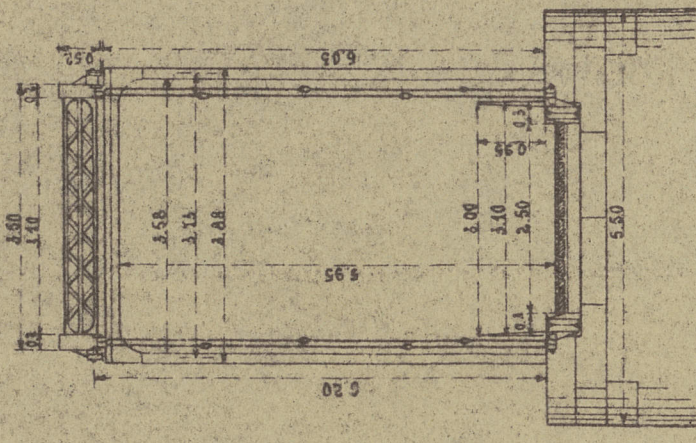
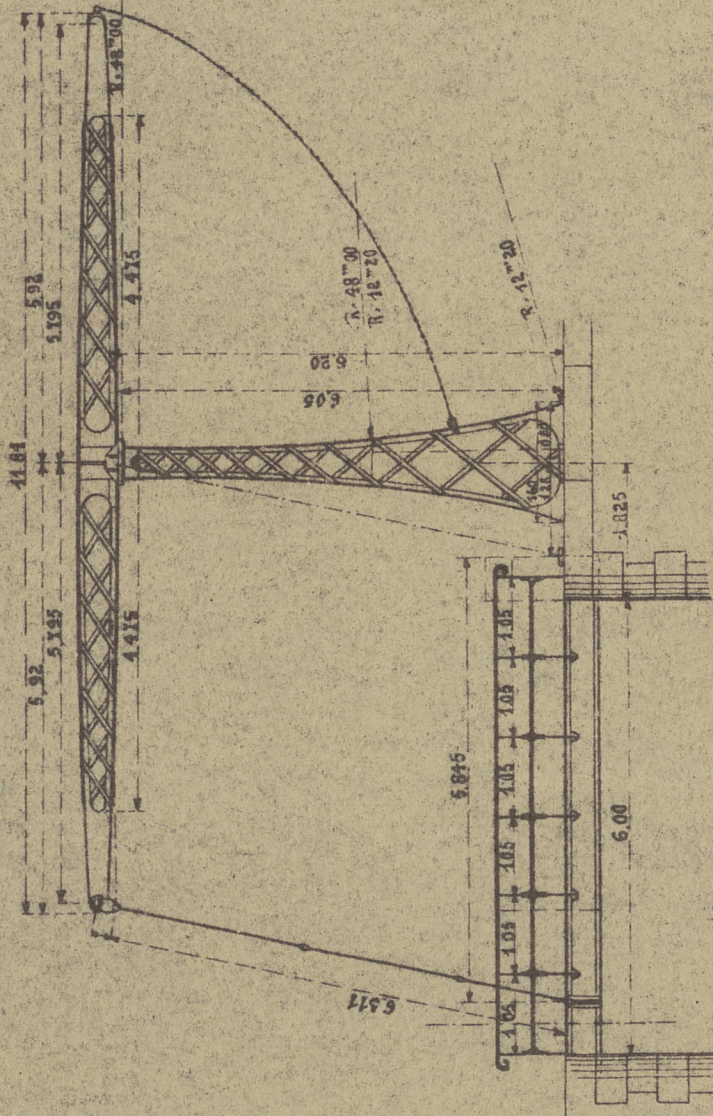
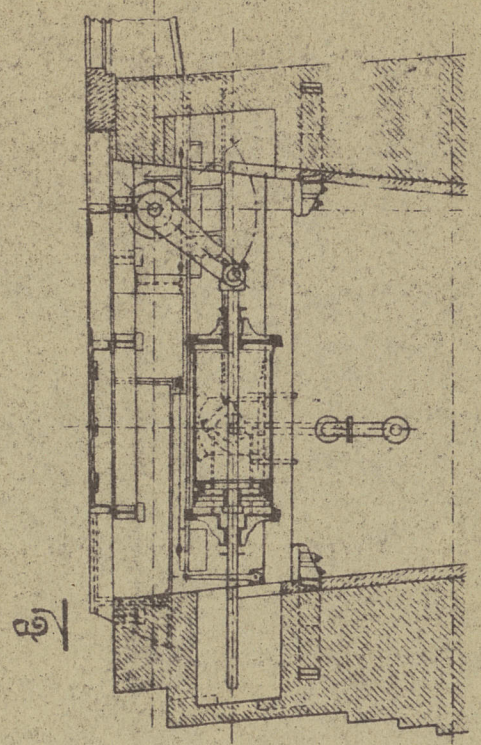
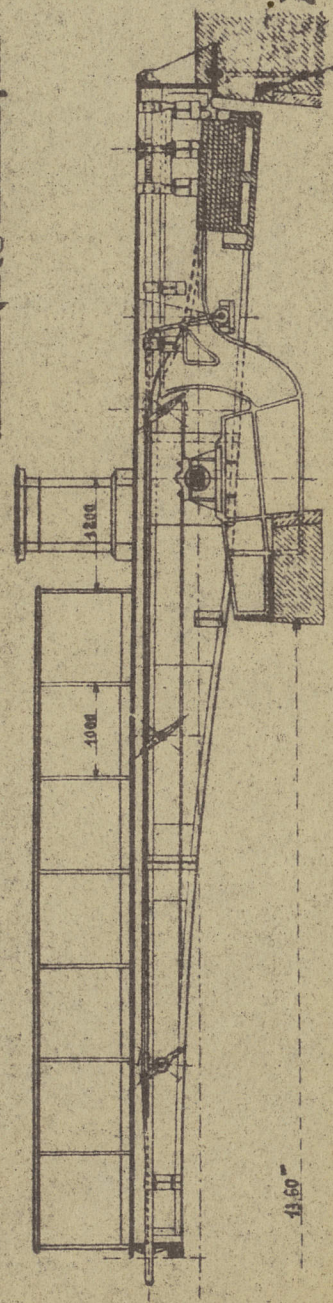


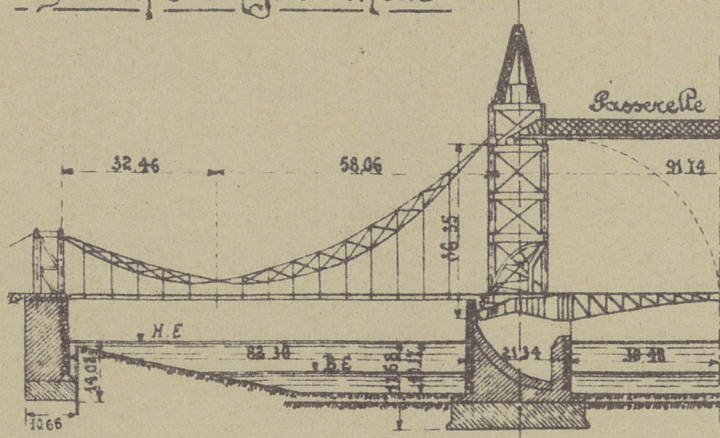
Fig. 2. "Scheluweweg" près de Rotterdam
à voie hydraulique



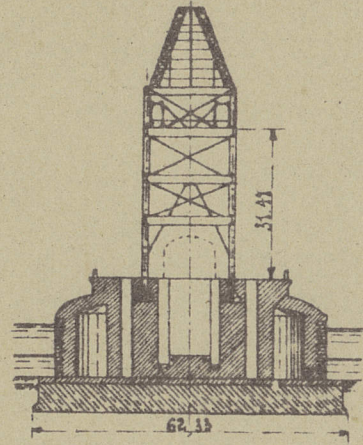
Pont de la Tour de Sondres (1894)

Fig. 1. Schémas d'ensemble

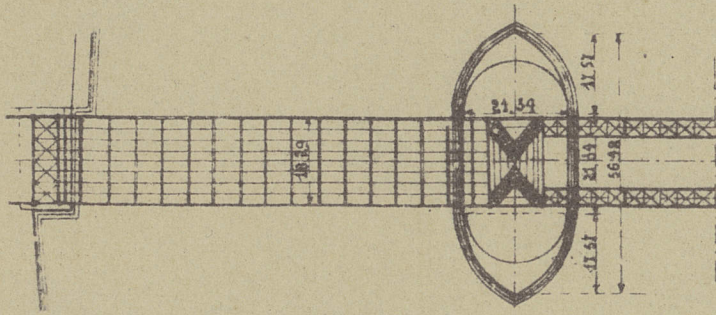
a) Coupe longitudinale



b) Coupe transversale



c) Plan



d) Coupe horizontale

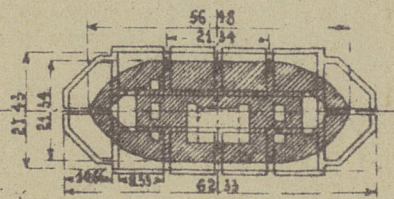


Fig. 2. Détail de la travée

basculante.

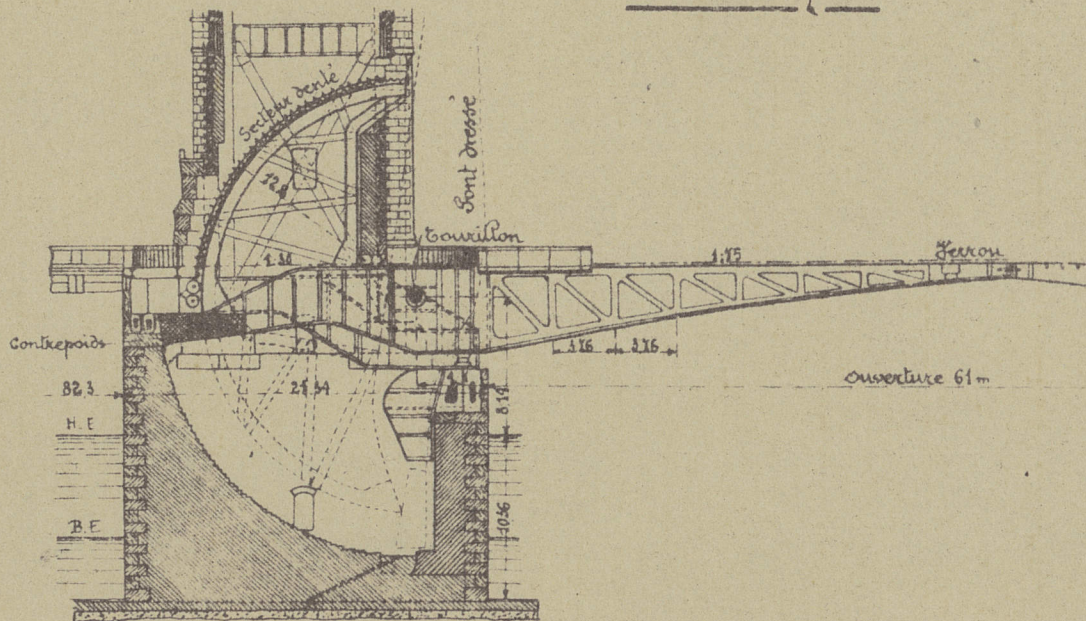


Fig. 1. Pont de Roensbourg (Canal de la Baltique)

1899

Fig. 2. Boötule de jonction des volées du pont de Nyenørd (Rotterdam)

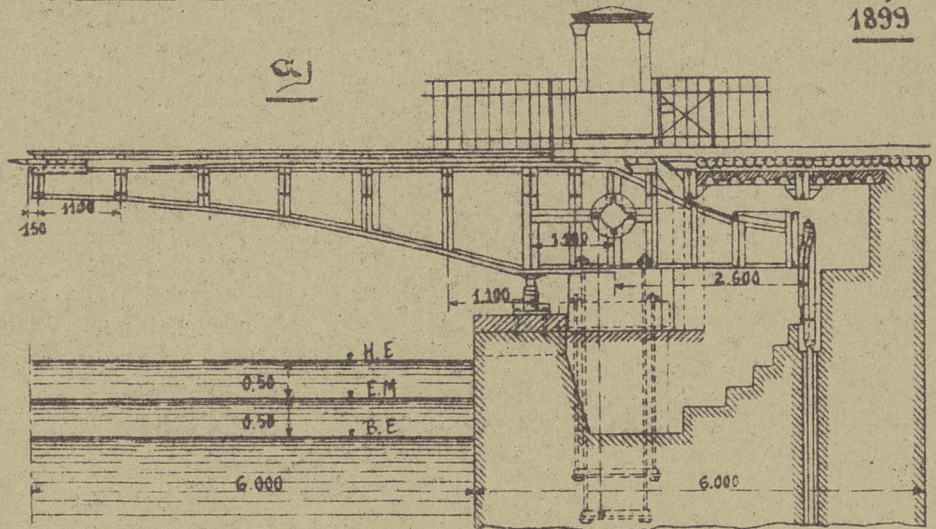
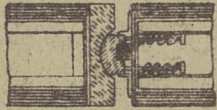


Fig. 3. Ferrouillage à griffe des volées du Pont Haut de Königsberg.

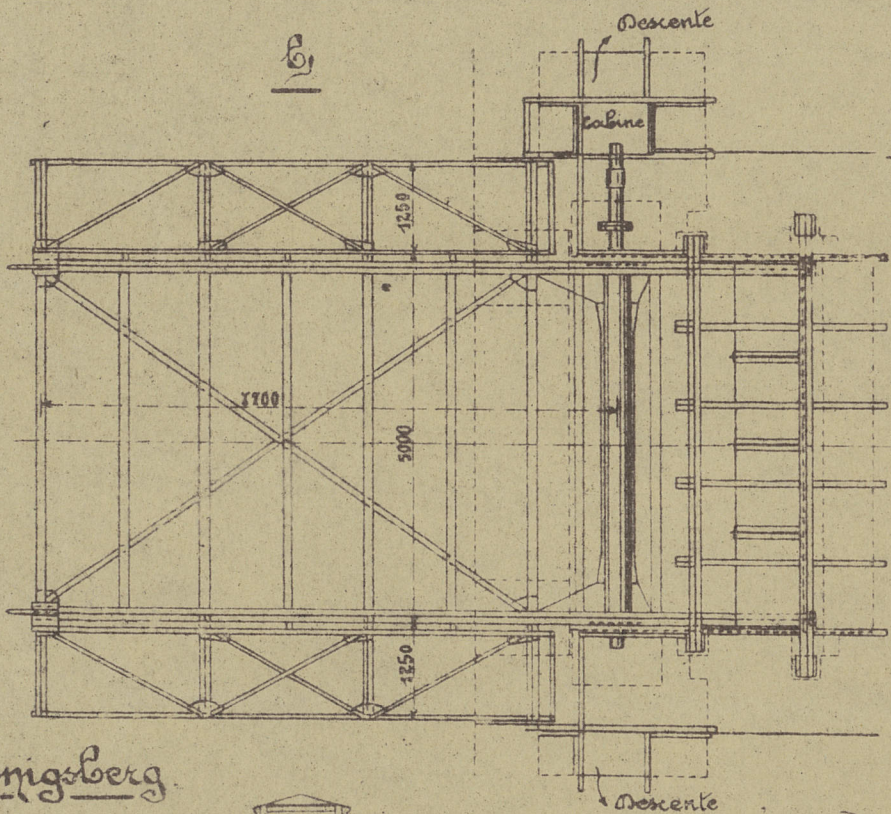
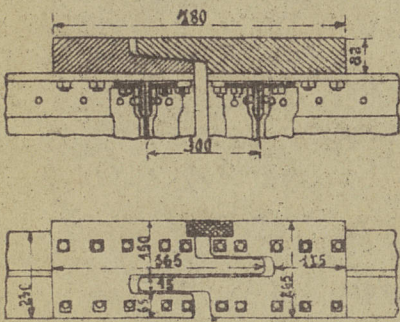


Fig. 4. Ancrage et butée de culas de d'un pont à Königsberg.

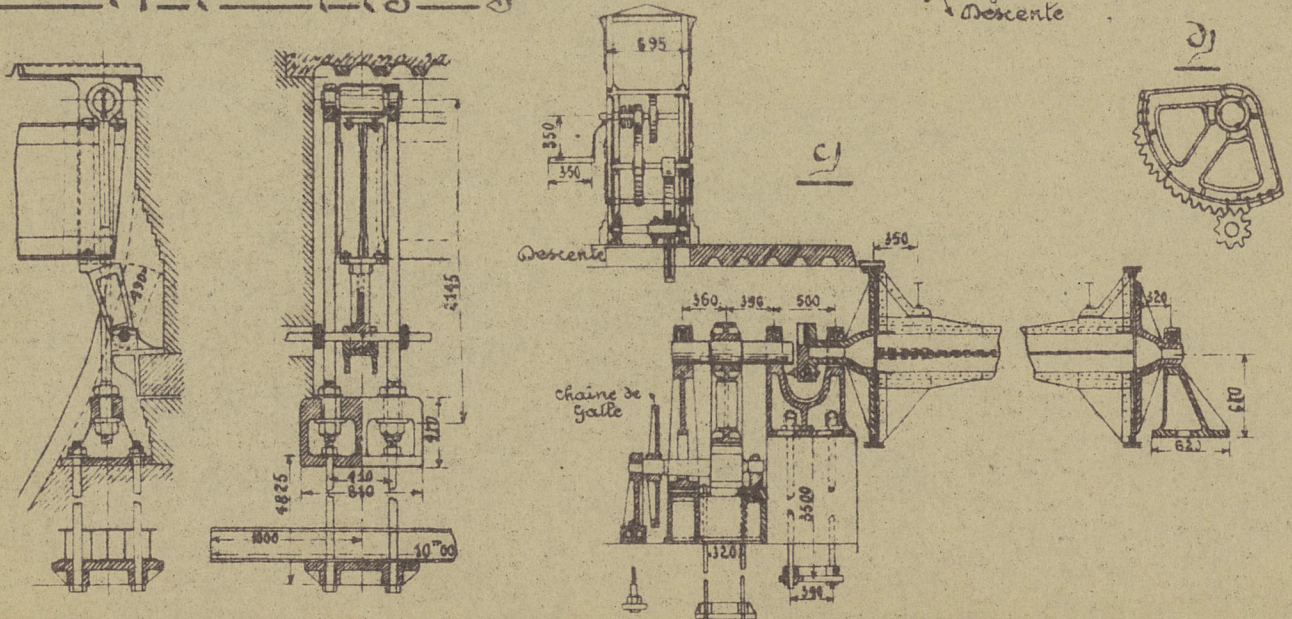
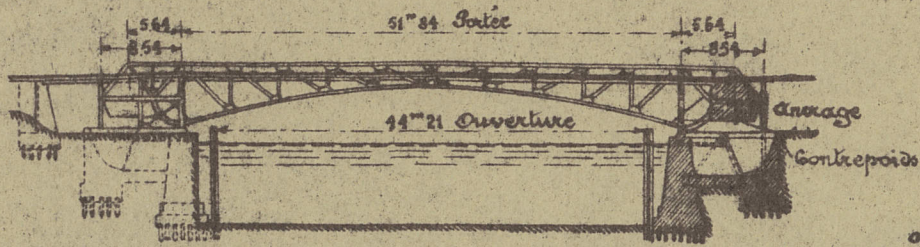


Fig. 1. Ponts Basculants Scherer à double volée.

a) à tablier supérieur.



b) Pont de
Weston Creek à

b) à tablier inférieur.

New York.

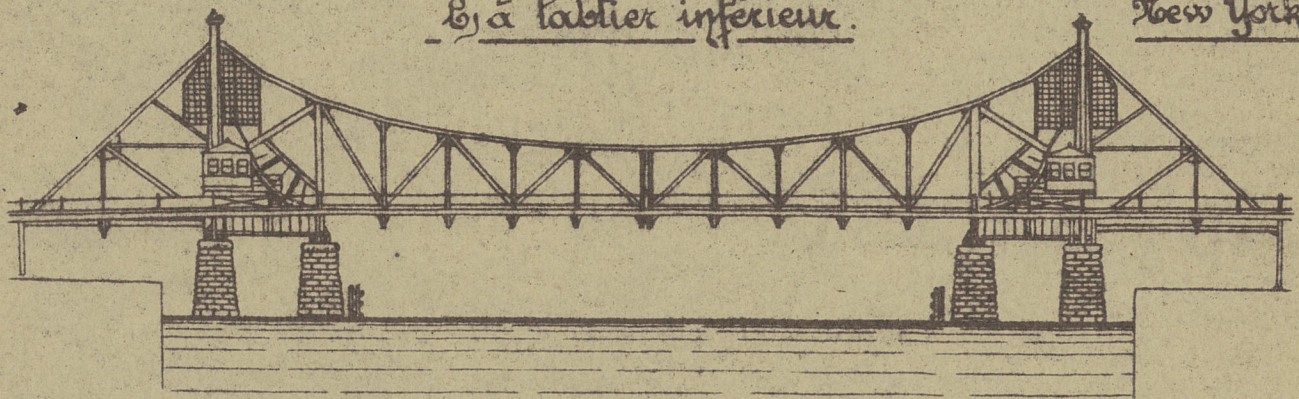


Fig. 2. Pont de bateaux du port de Rustrin (Oder).

à travée tournante

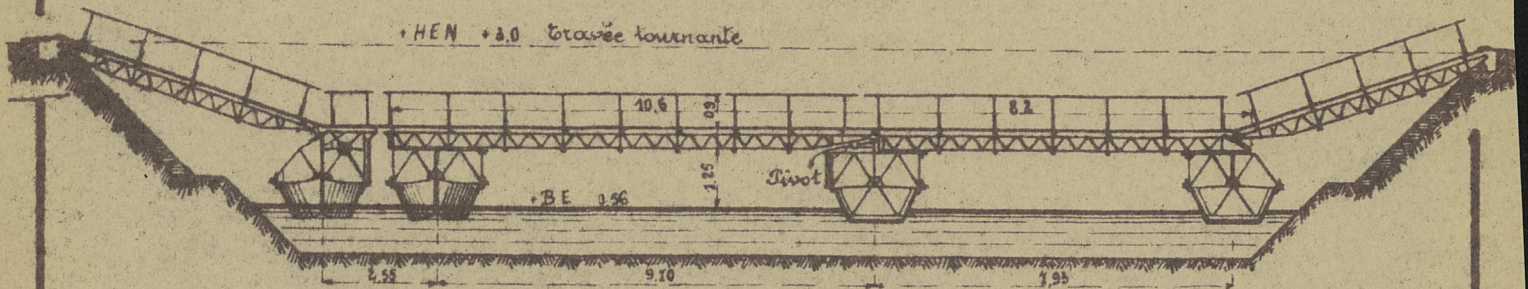


Fig. 3. Schéma du pont roulant de l'écluse du Kattendyk à Anvers.

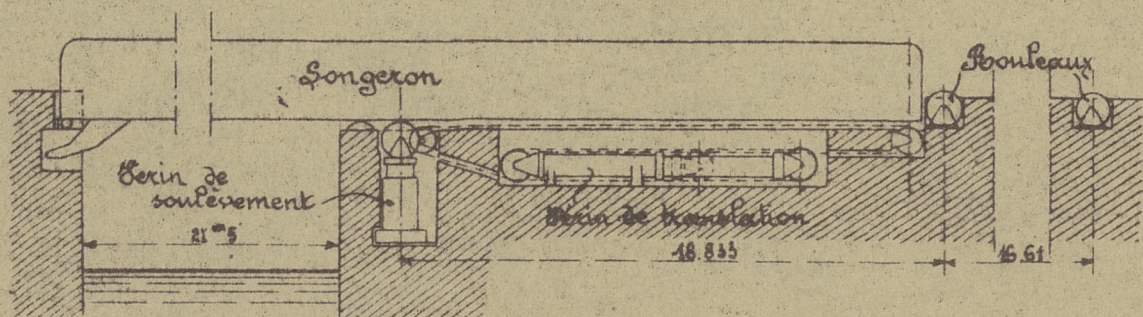


Fig. 2. Pont basculant
Kansa, à Stettin (1900)

Disposition du secteur de
roulement, de la culasse
et du cylindre régu-
lateur de course.

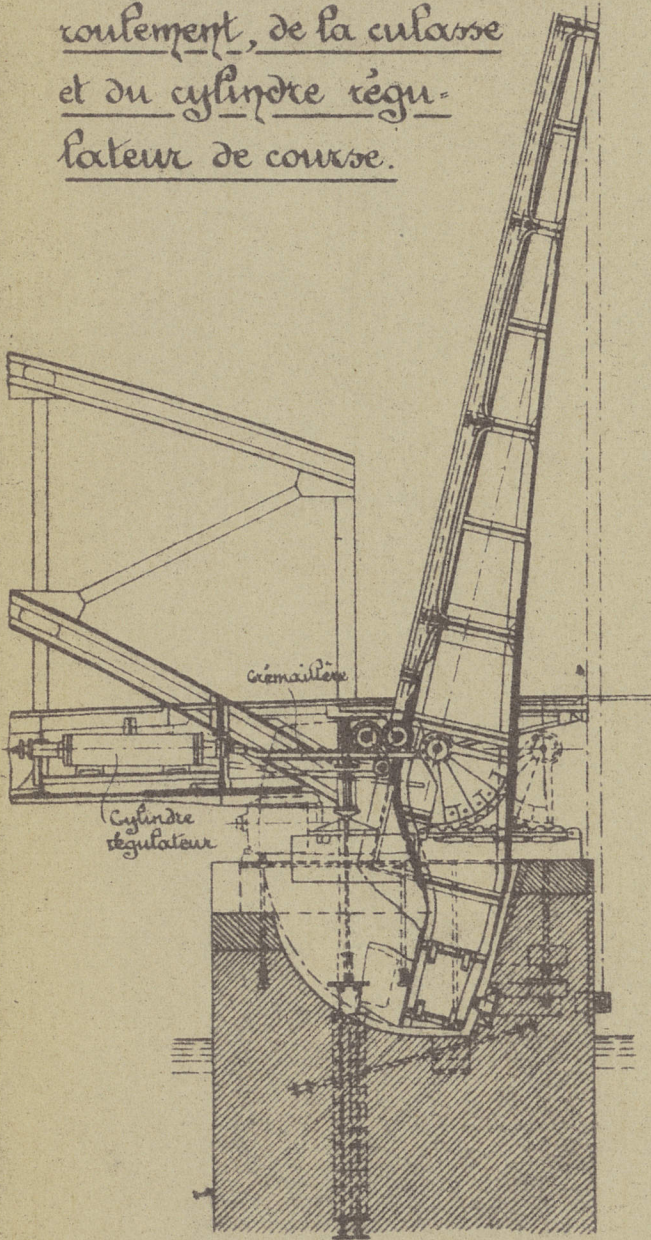


Fig. 1. Pont
transbordeur de
Stouen (1899)

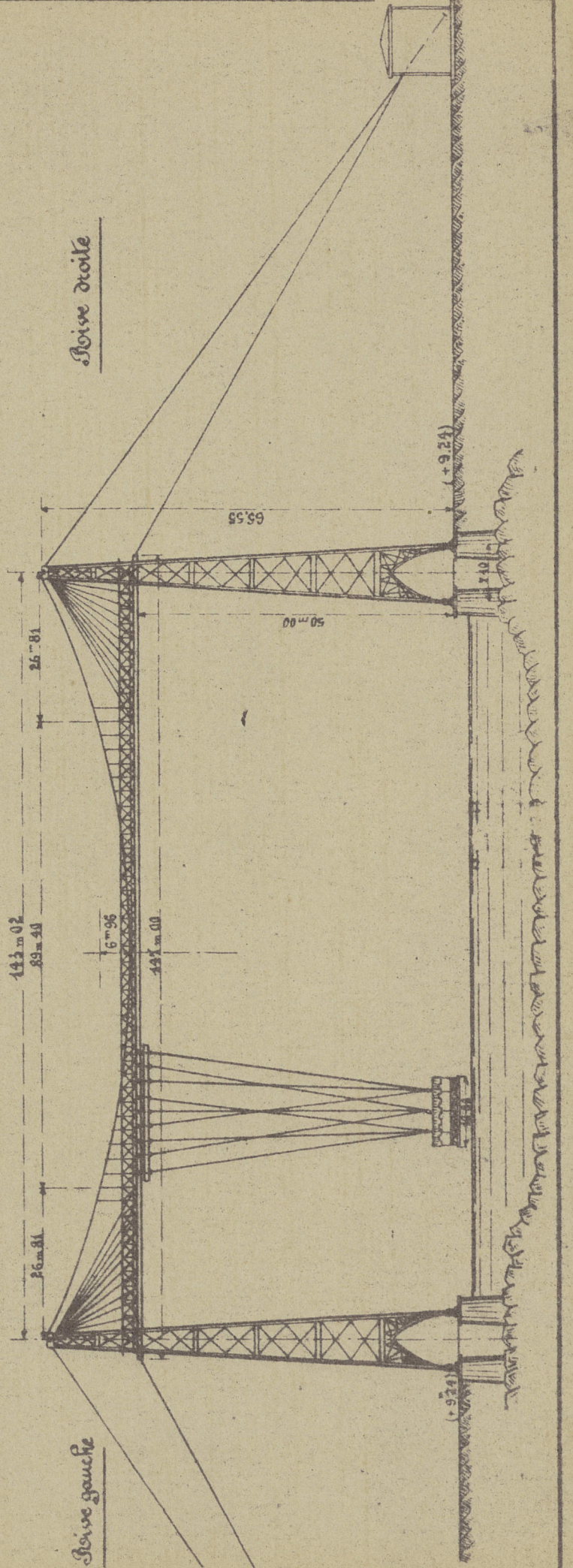


Fig. 1. Pont roulant Victoria sur la Dee près de Queensferry en Angleterre.

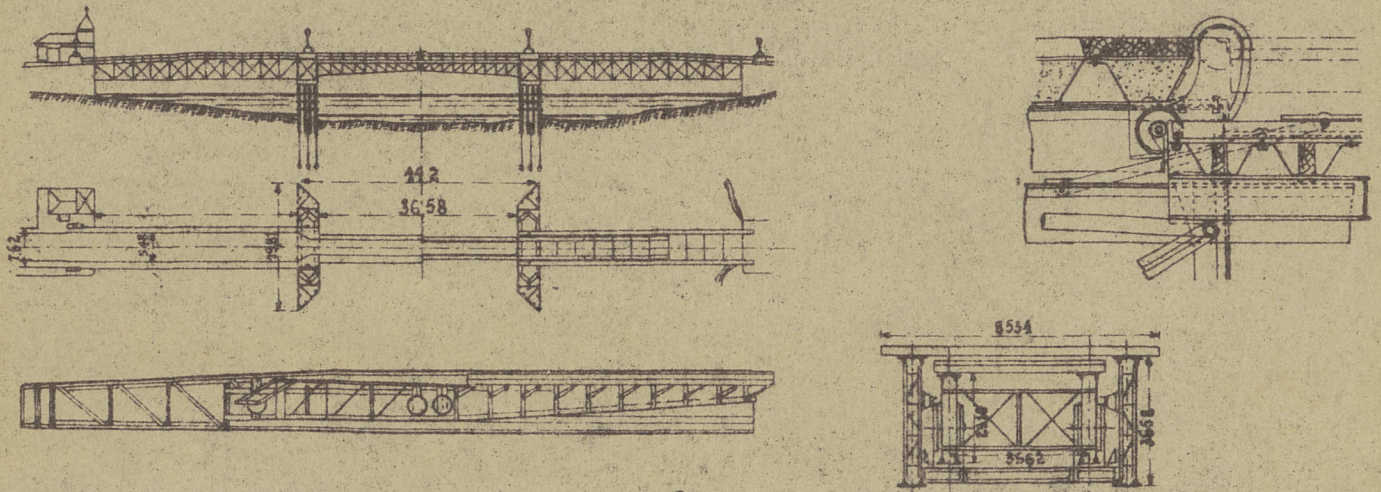
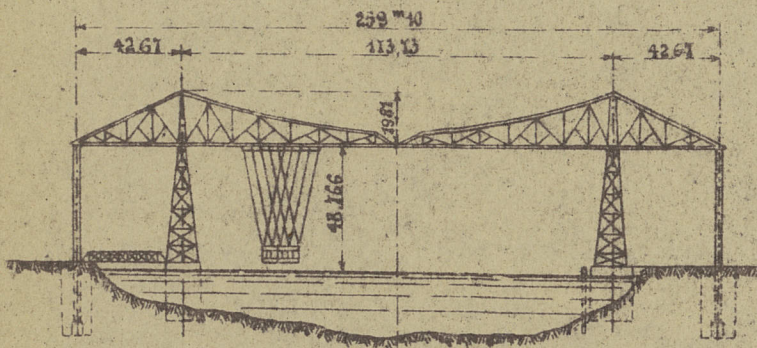
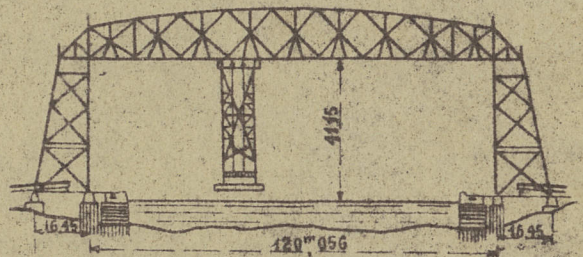


Fig. 2. Ponts transbordeurs.

a) de Middlesbrough (1911)



b) de Duluth (1906)



c) de Osten près d'Hambourg (1909)

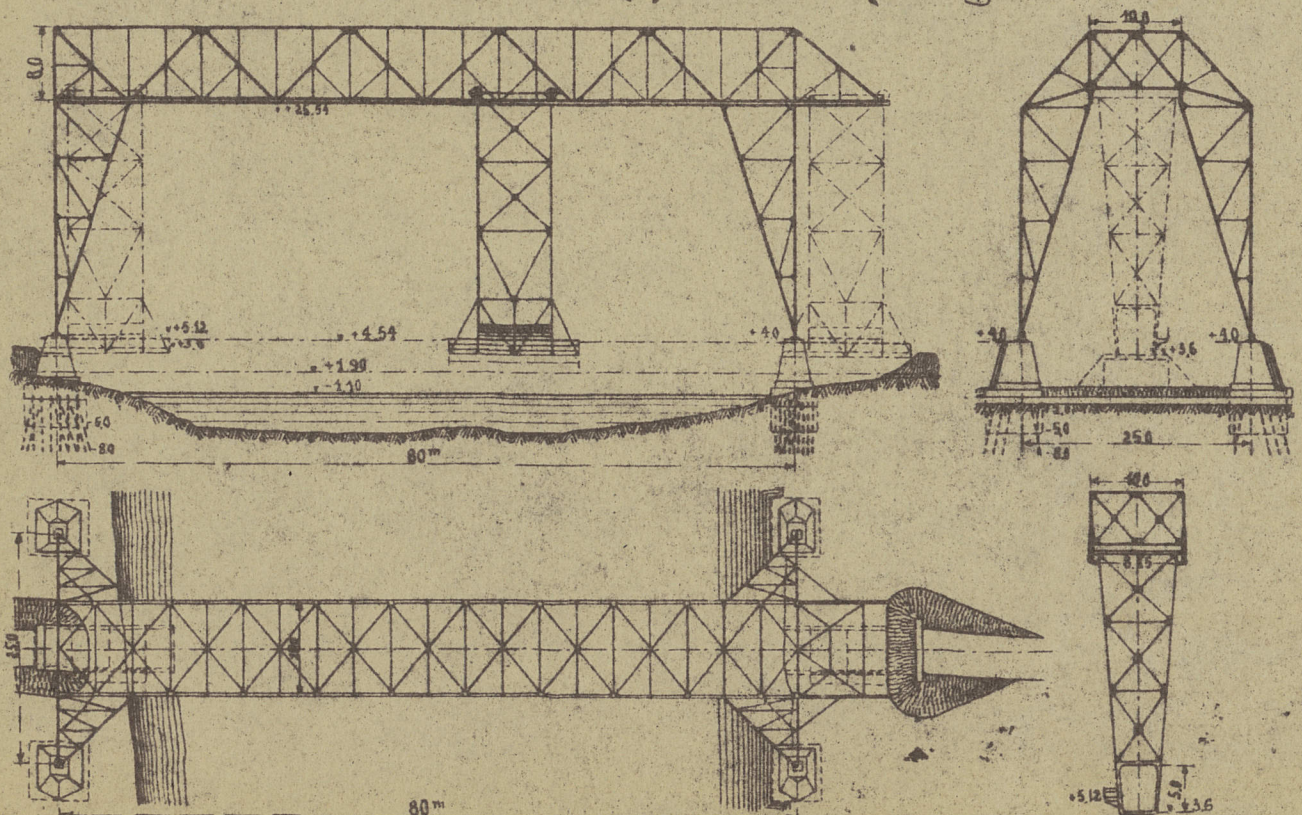
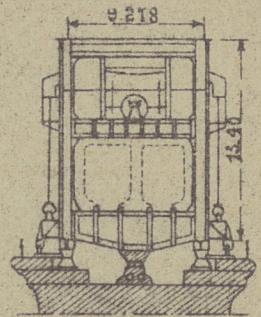
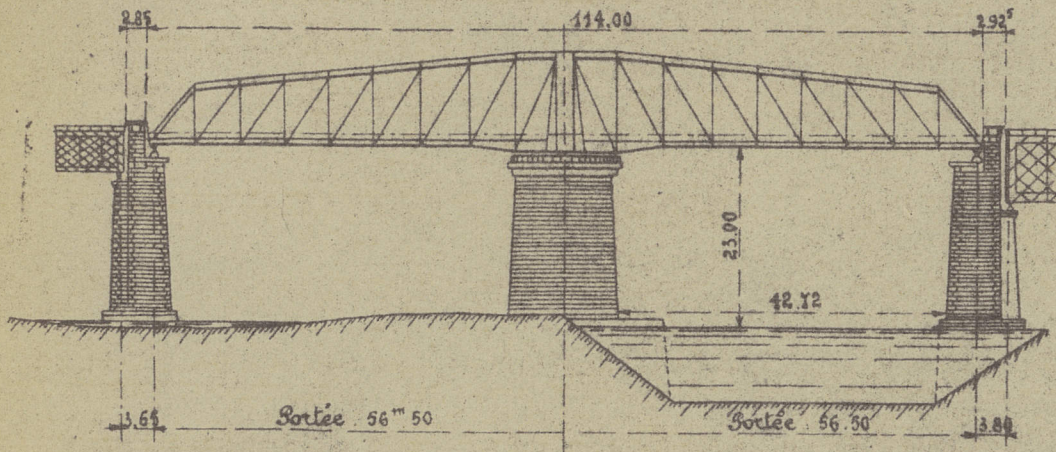


Fig. 1. Pont tournant de Garonte.

a) Elevation

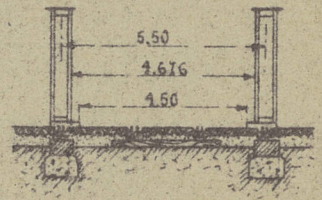
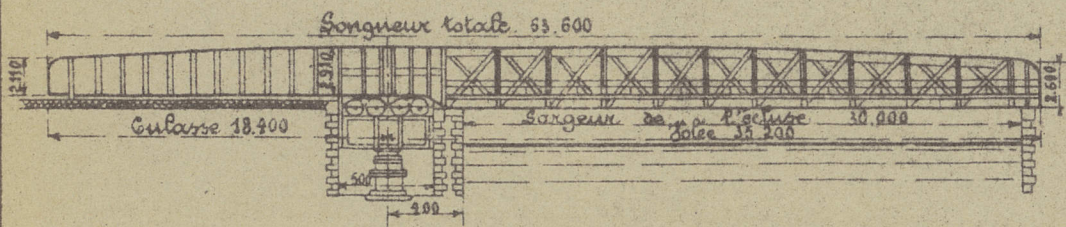
b) Coupe sur l'axe



Coupe sur la culasse

Fig. 2. Pont roulant de Saint Nazaire.

Elevation extérieure



Coupe sur la voie

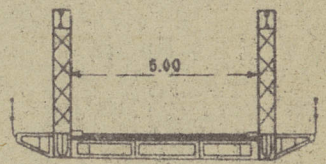
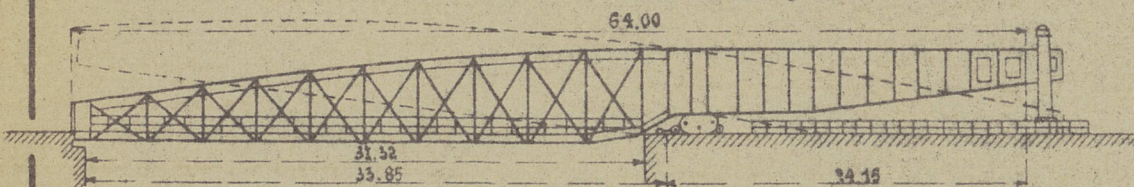


Fig. 3. Pont roulant de Cherbourg

a) Elevation générale.



b) Chariot de roulement.

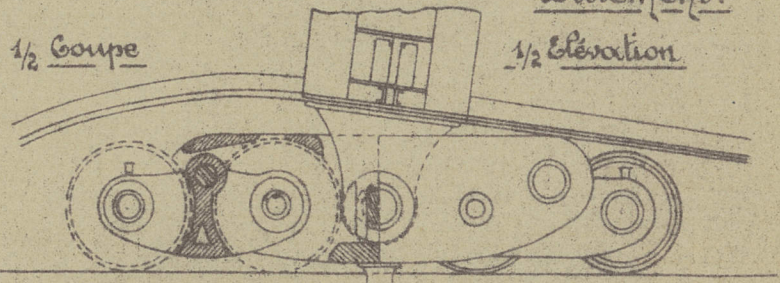
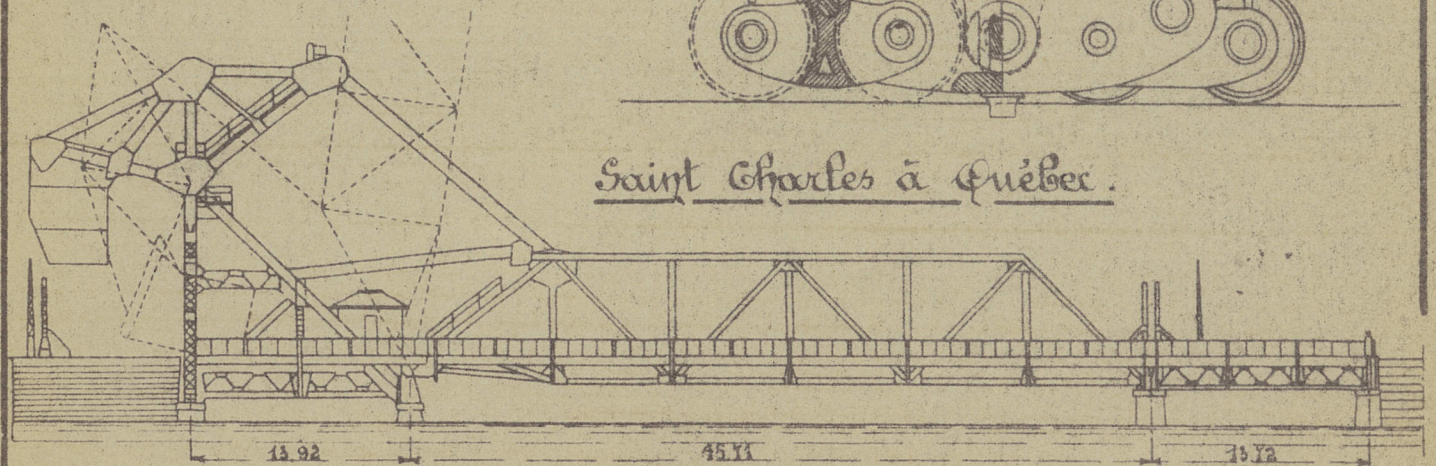


Fig. 4. Pont basculant

Strauss sur la rivière

1/2 Coupe

1/2 Elevation



Saint Charles à Québec.

Pont rail tournant des écluses à Strasbourg (1926) Fig. 1. Elevation

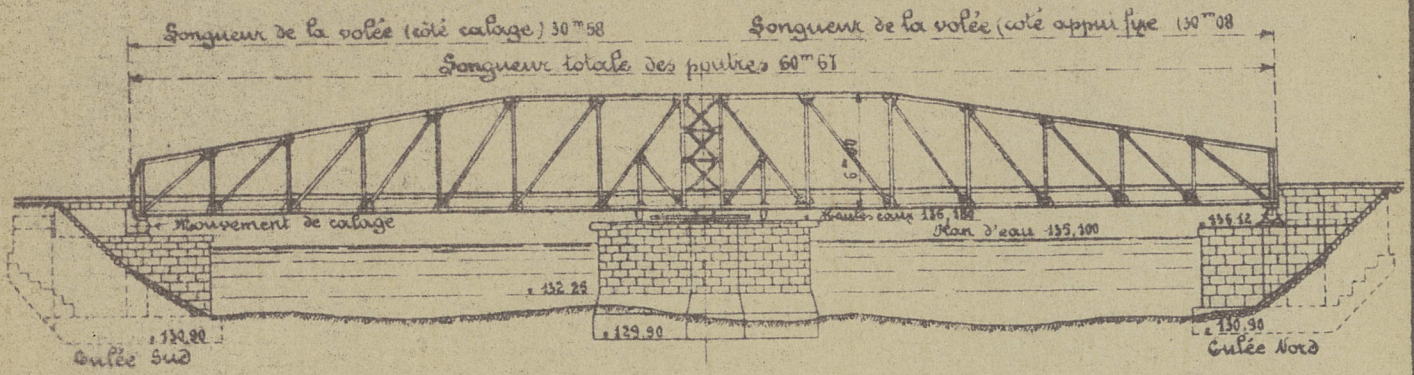


Fig. 2. Plan.

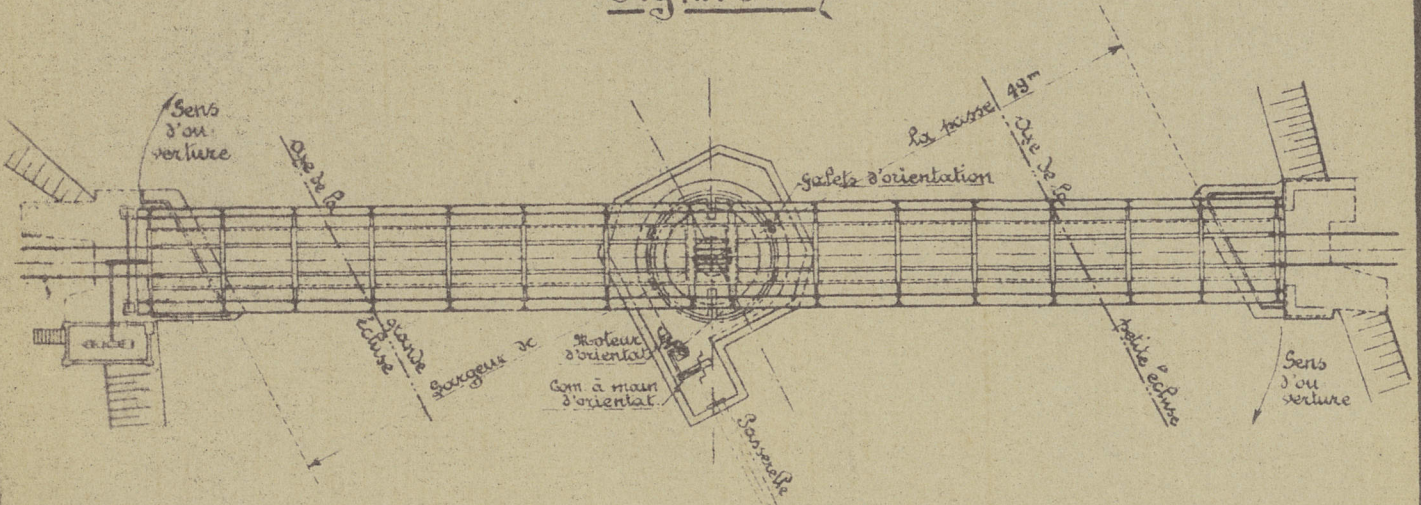


Fig. 5. Mécanisme d'orientation

Fig. 3. Coupe transversale

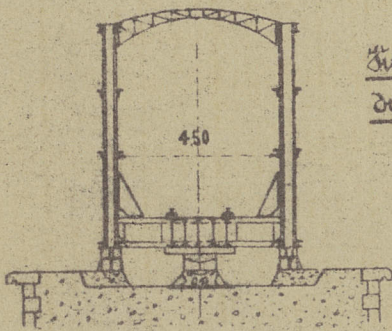


Fig. 4. Pivots

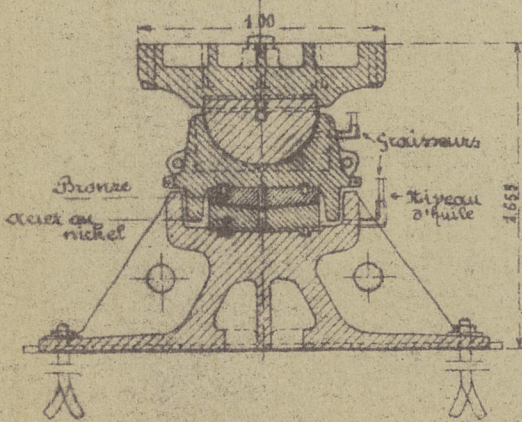


Fig. 7. Vue latérale du mécanisme de calage

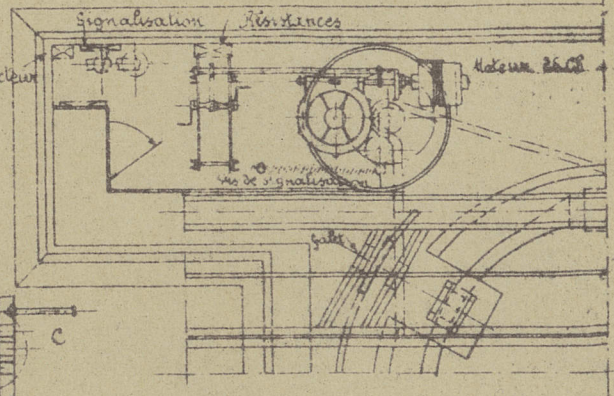
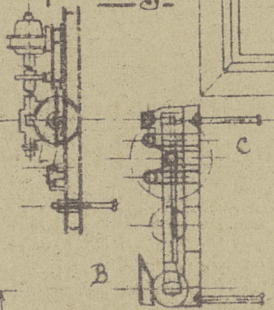
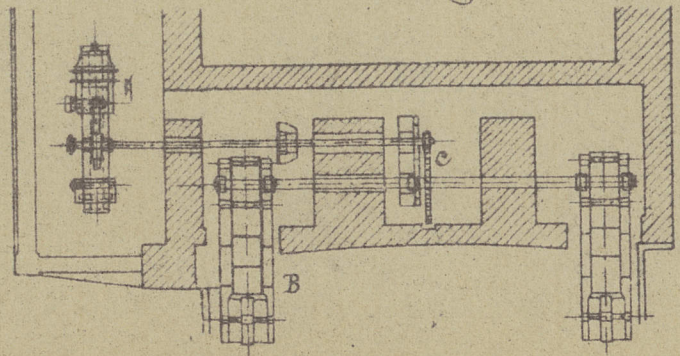


Fig. 6. Mécanisme de calage.



Pont rail tournant d'Hoofstade (1913)

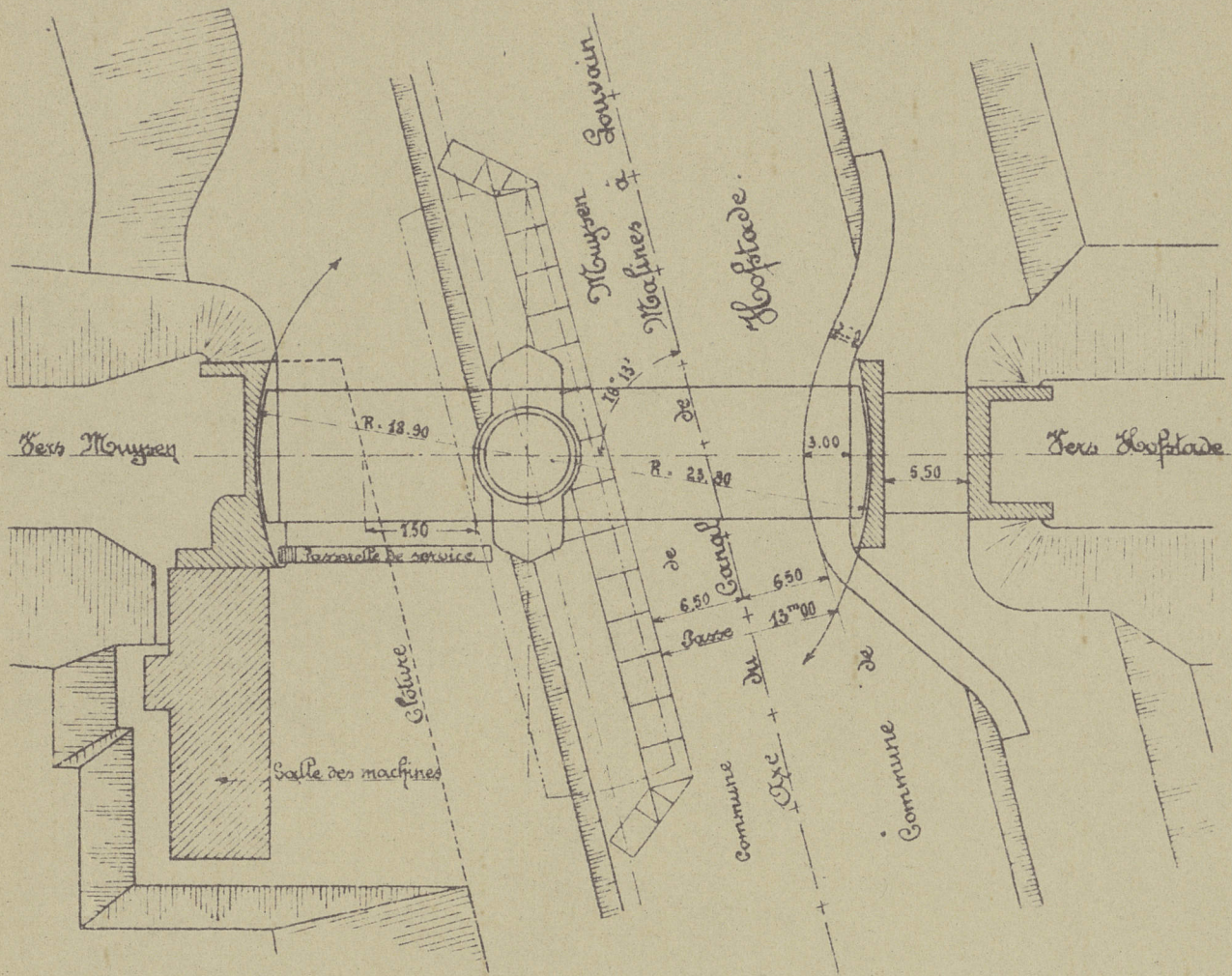


Fig. 1. Plan schématique.

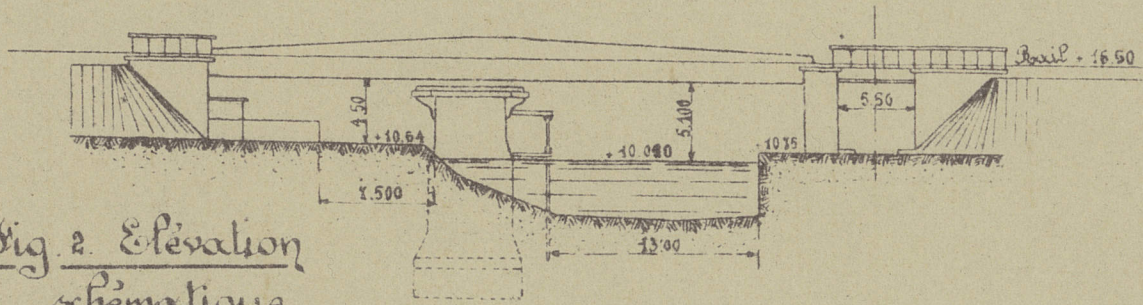


Fig. 2. Elevation schématique.

Fig. 3. Amortisseur hydropneumatique.

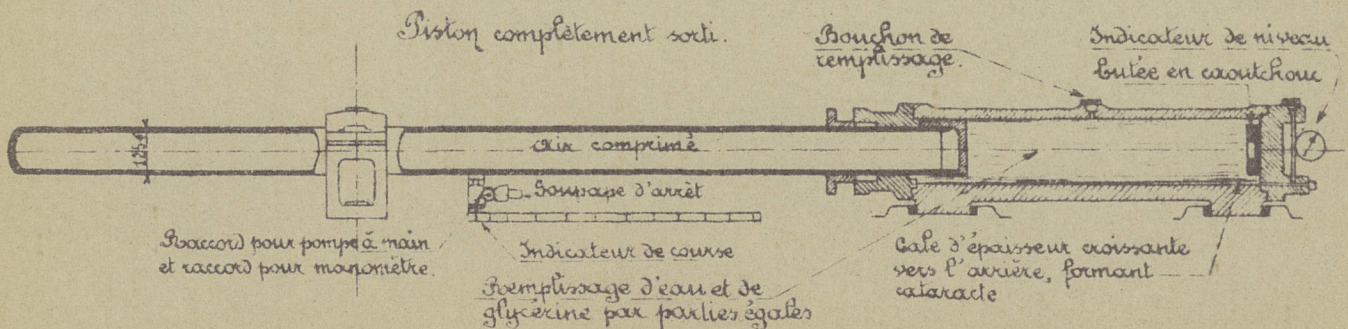


Fig. 4. Appui de voûte à rotule.

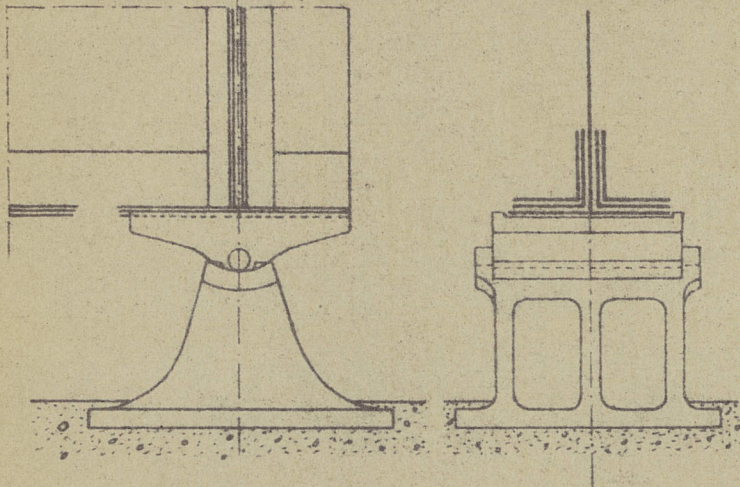


Fig. 7. Galets d'équilibre.

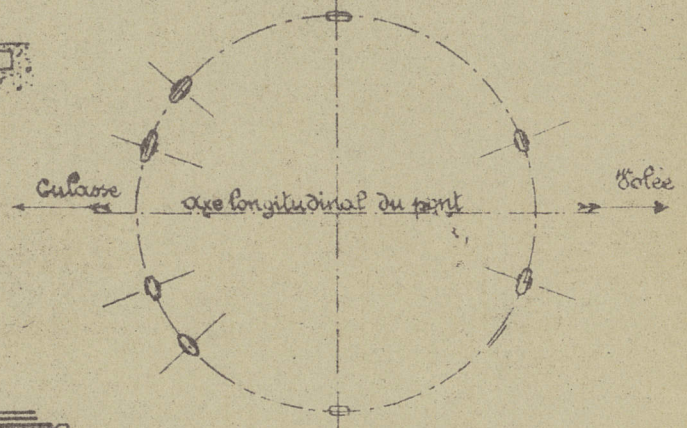
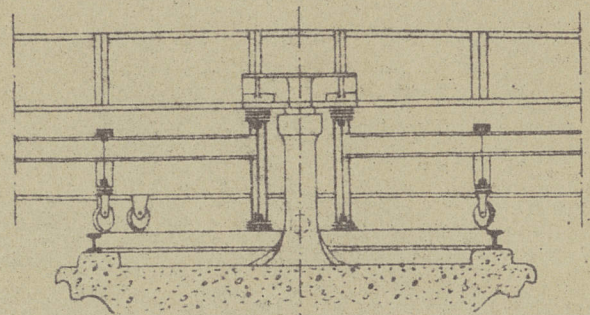


Fig. 5. Appui de culasse à effacement.

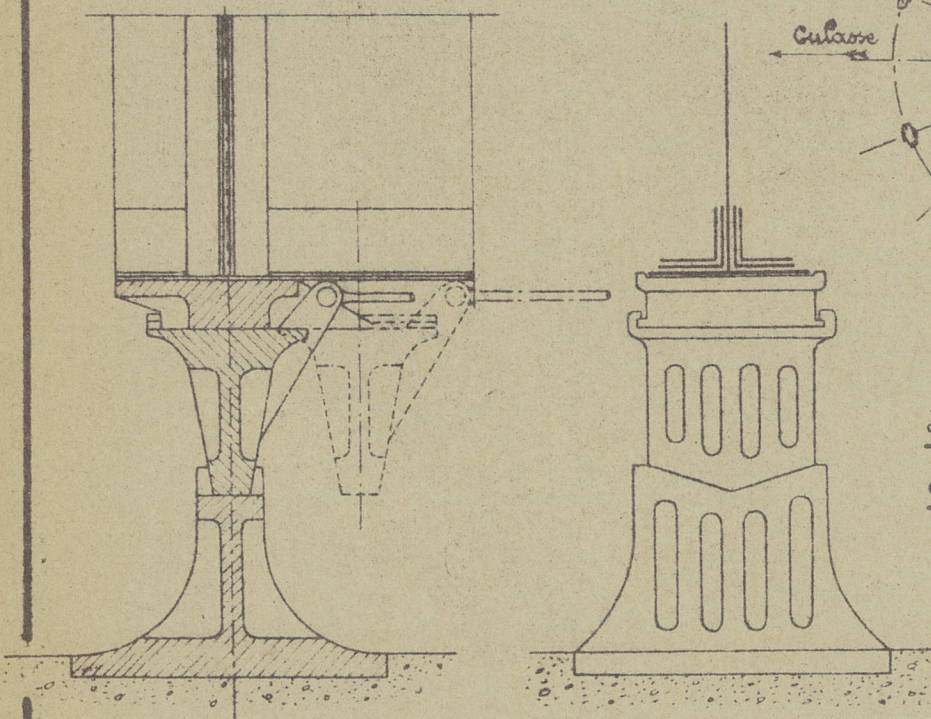


Fig. 6. Appui central à effacement.

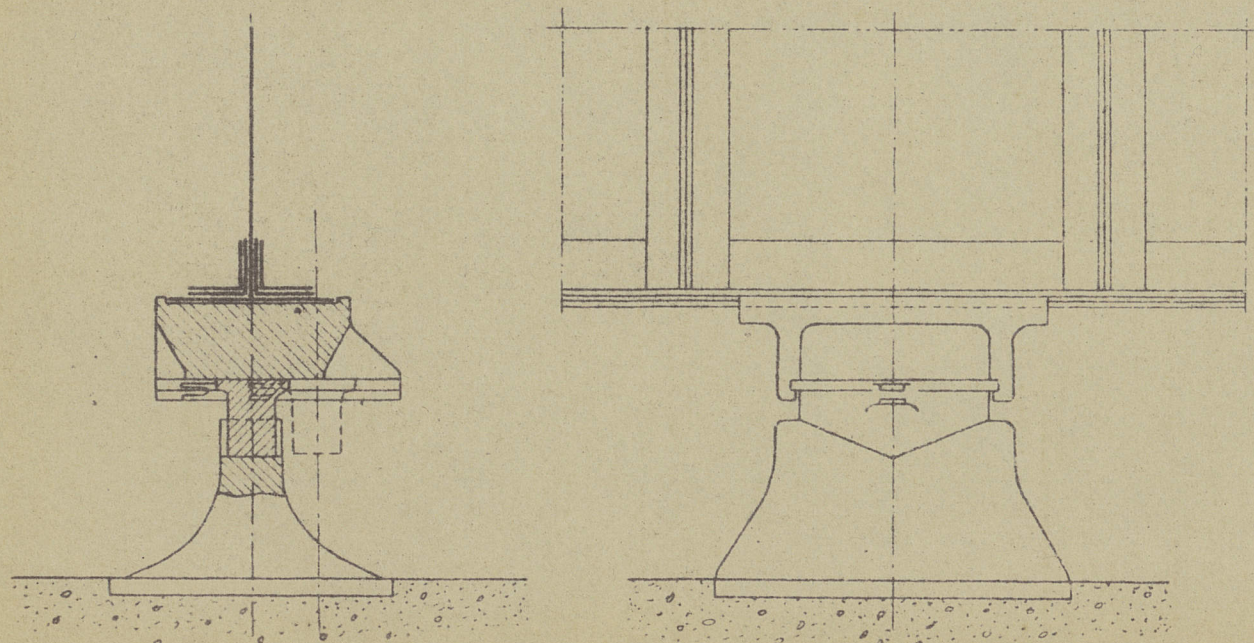


Fig. 8.
Sivol
et
Suspension

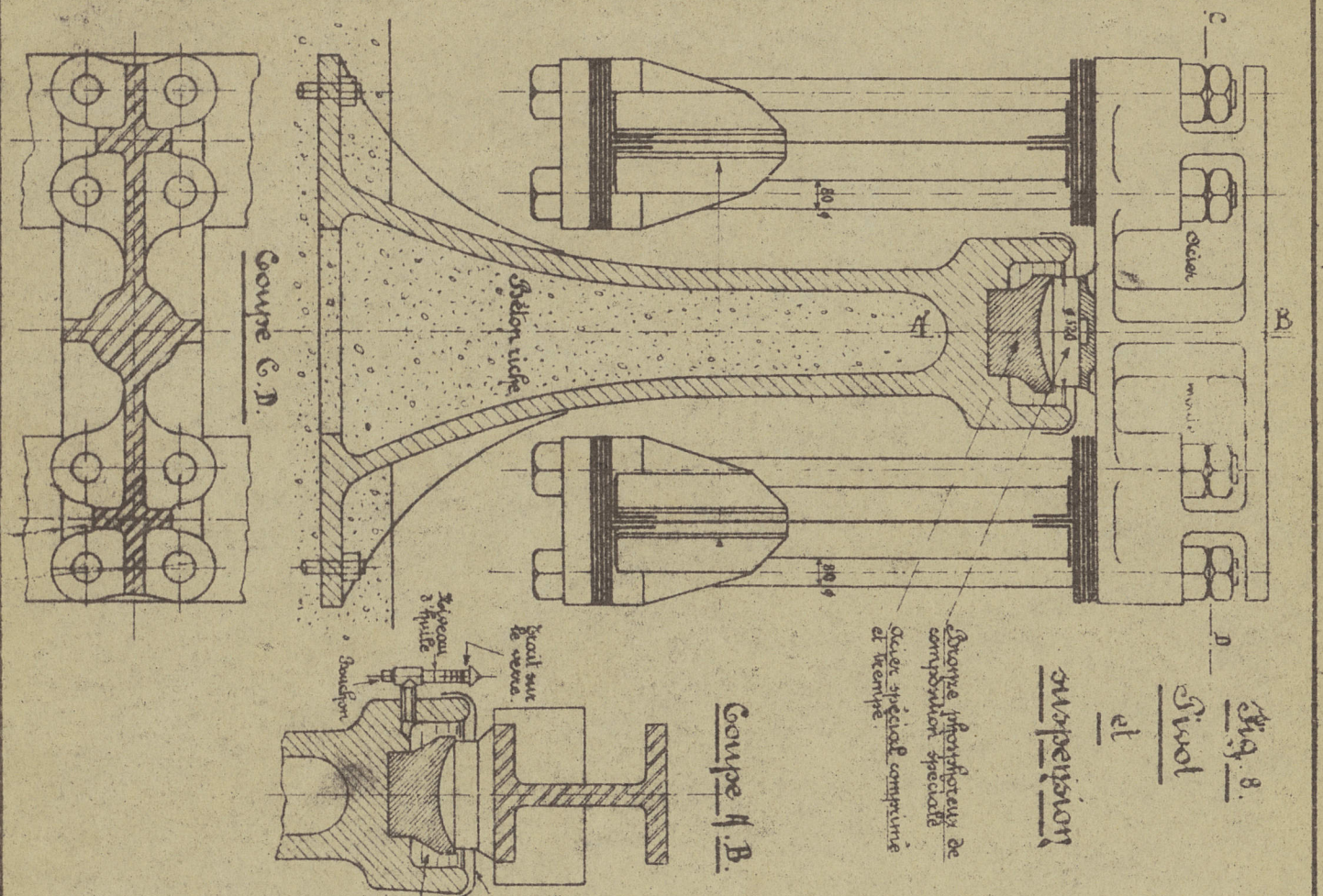
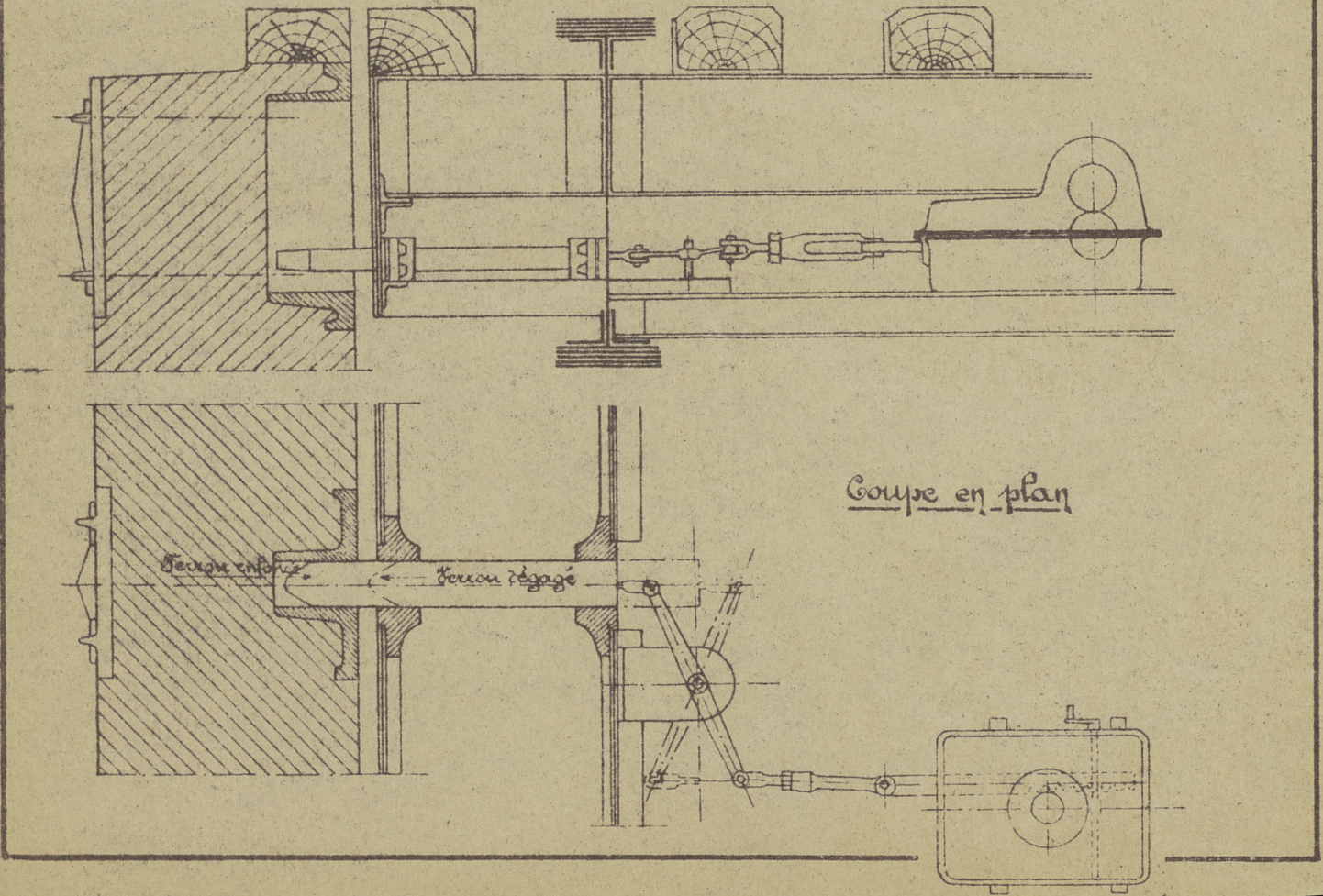


Fig. 9. Ferron.



Types de dispositifs de manoeuvre d'un pont à basculement à pivot.

tournoant

Fig. 2.

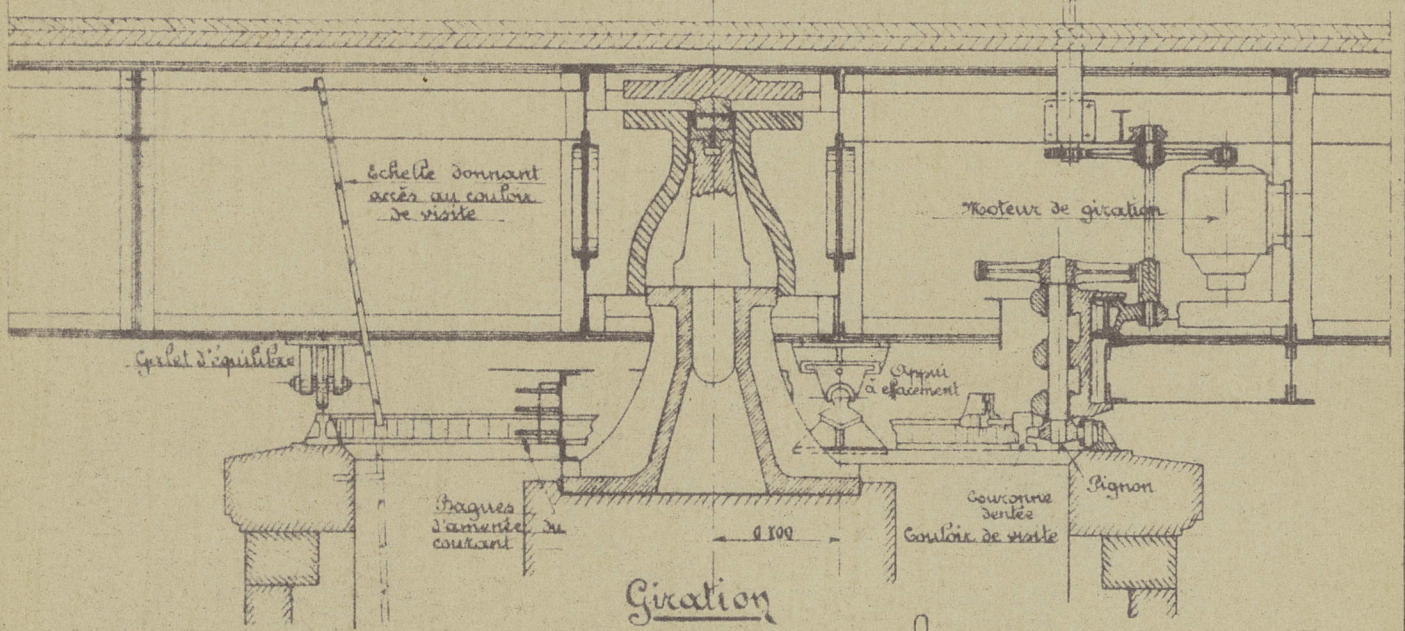


Fig. 4. Ferron à gâche oscillante.

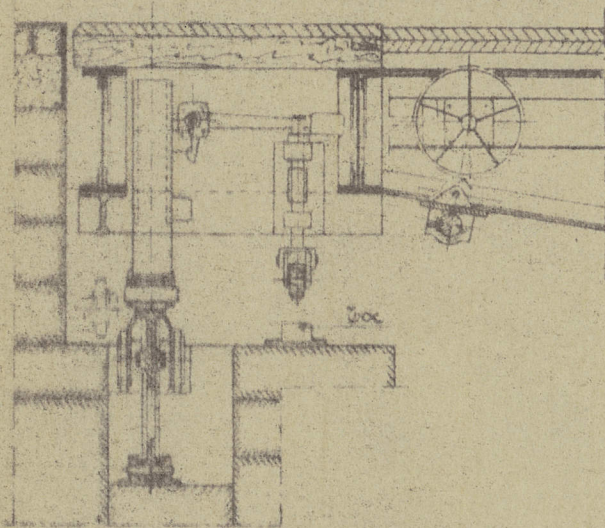


Fig. 1. Calage.

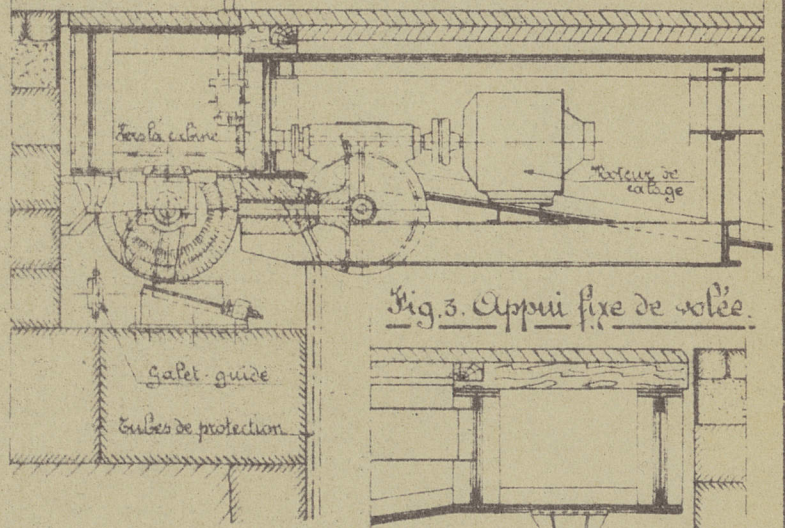


Fig. 3. Appui fixe de volée.

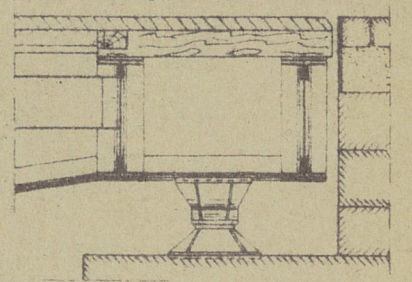


Fig. 5.

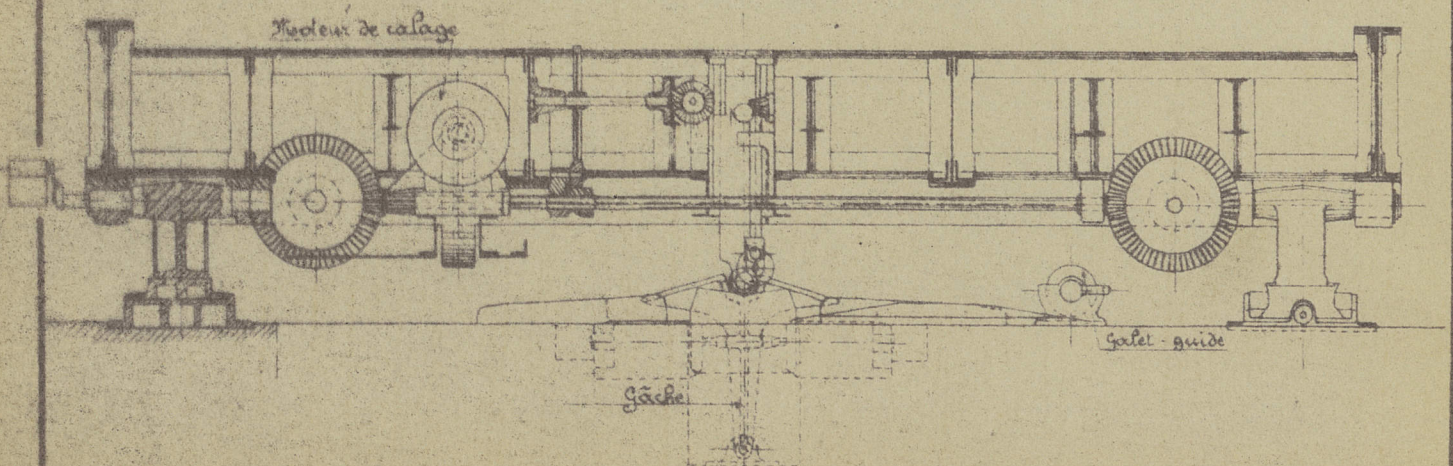


Fig. 1. Sentille à graissage
sous pression du pont de
Verdonck

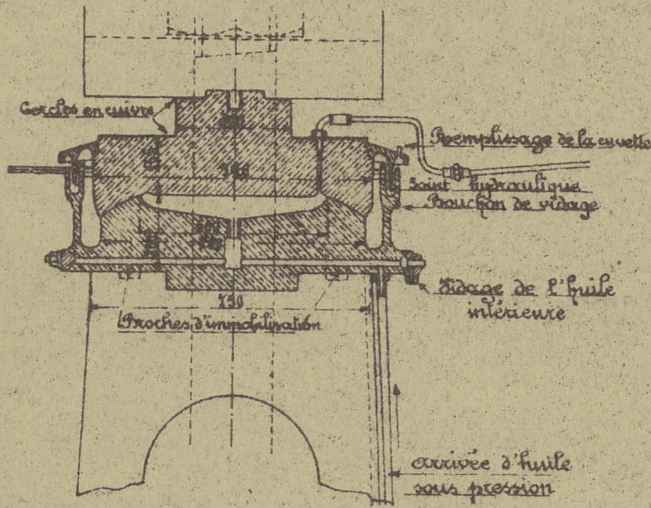


Fig. 2. Pivot à vis
(pont sur le Canal
grande à Trieste.)

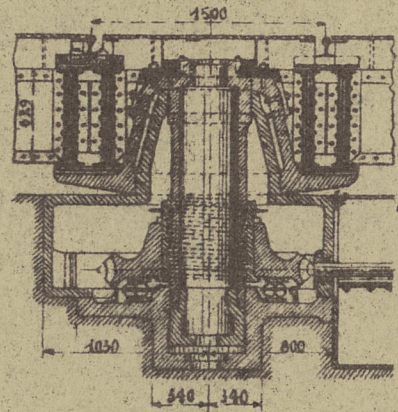


Fig. 4. Pont sur la Hurte
à Elbfleth en Allemagne.

Fig. a.

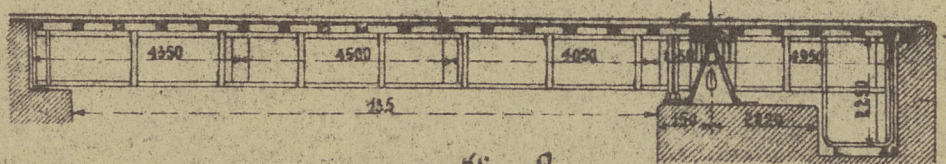


Fig. 3. Pivot
à verin hydraulique
(Pont de Hambourg)

Fig. a.

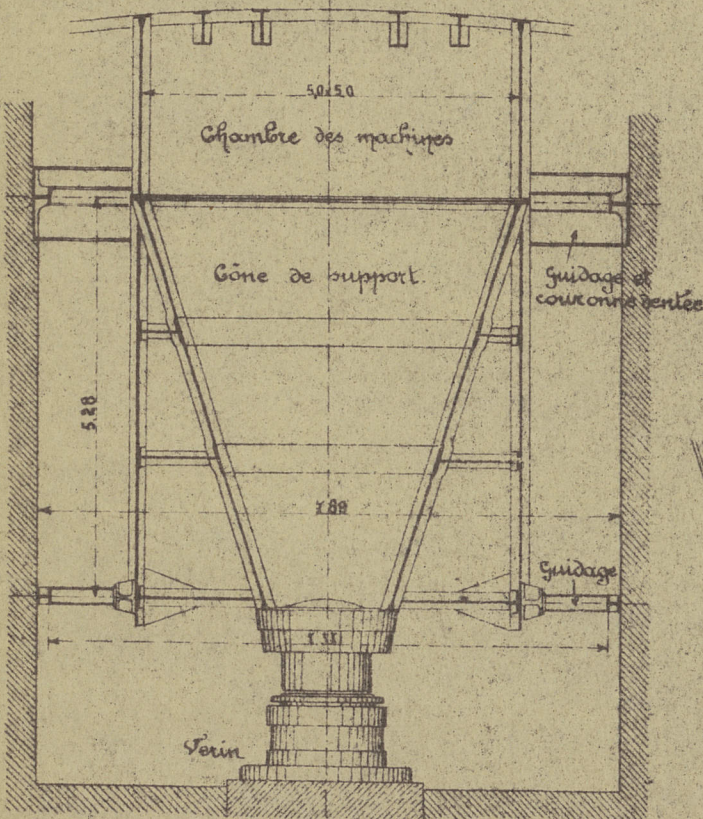


Fig. b.

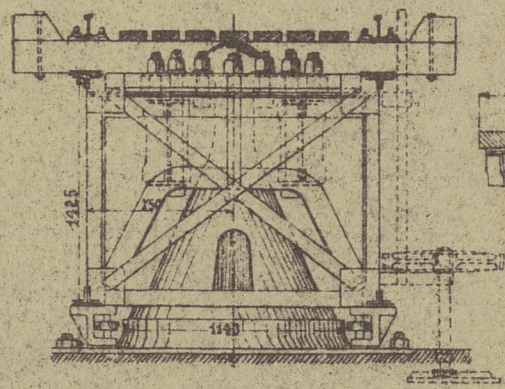


Fig. c.

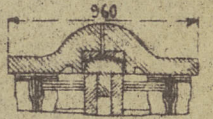
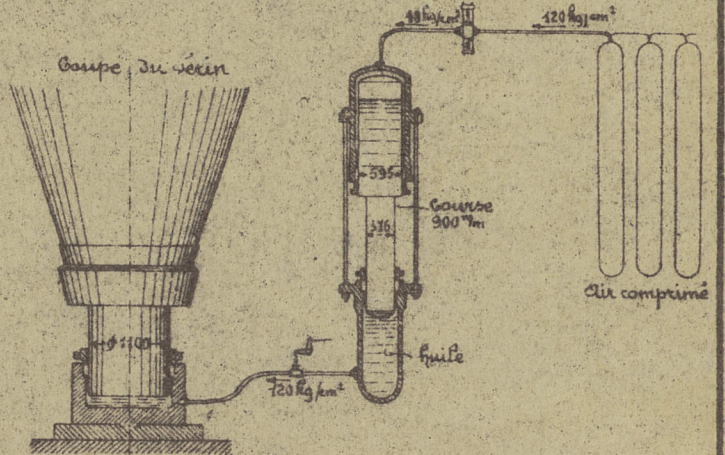


Fig. b.



Bont rail tournant sur couronnes de galets.

Fig. 1. à Ciques-Mortes.

Fig. a.

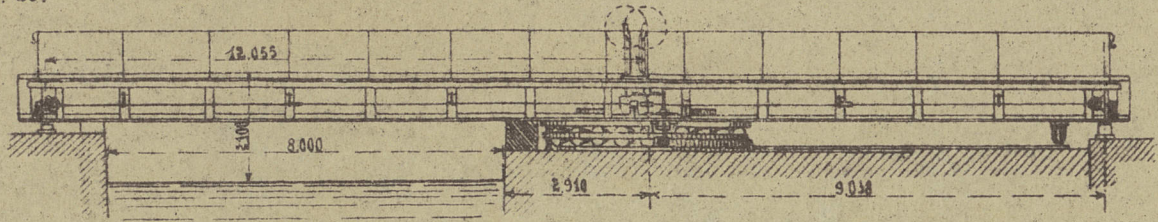


Fig. 8.

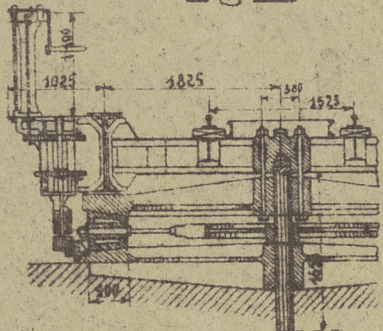


Fig. 2. Sur la Penfeld à Brest.

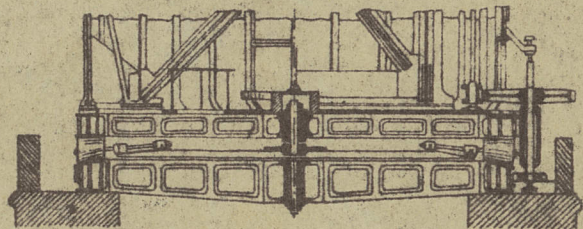
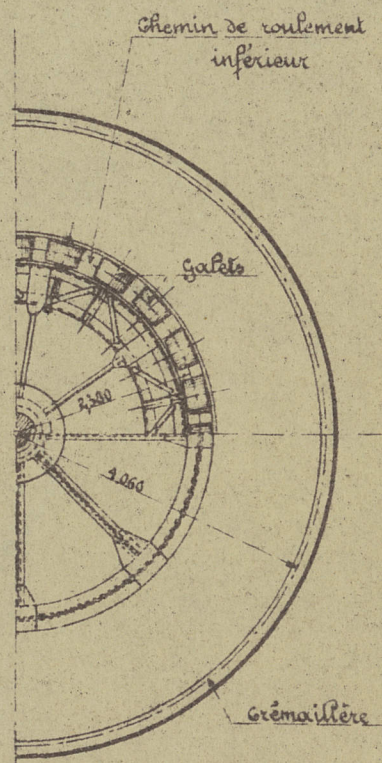
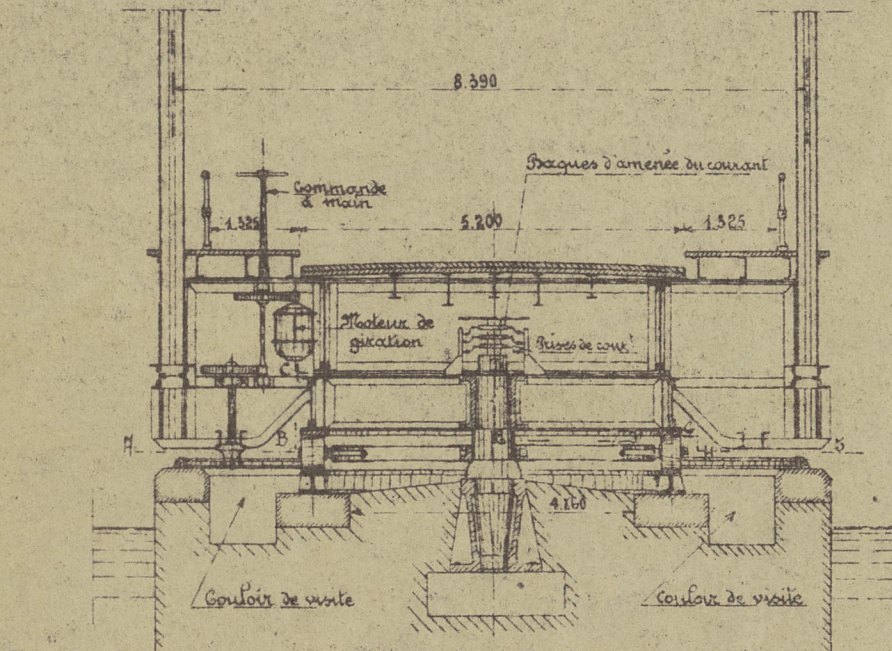


Fig. 3. Type.

Coupe transversale au droit du pivot.

Coupe A B C D E F G H J



Dispositifs de calage et de verrouillage.

Fig. 1. Came.

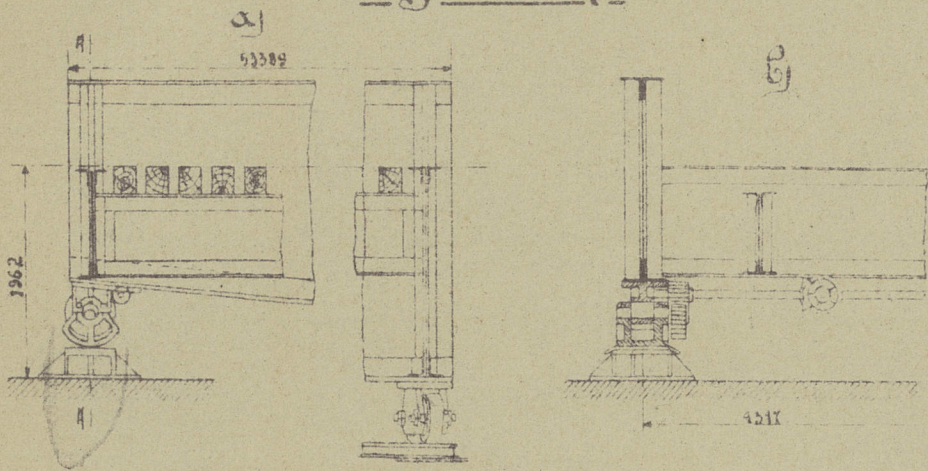


Fig. 2. Verrouil-
lage d'arrêlage.

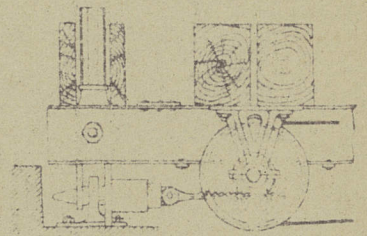


Fig. 3. Coin à rouleaux et verrou glissant

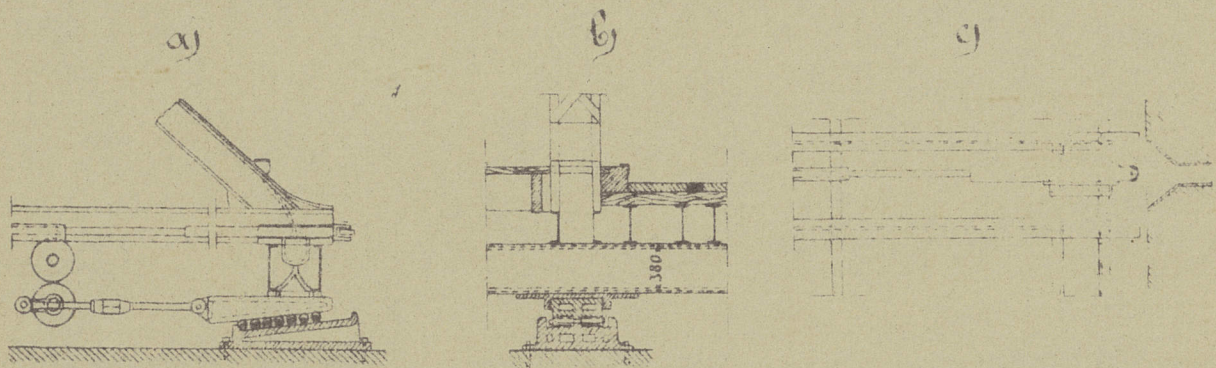


Fig. 4. Calage à vis

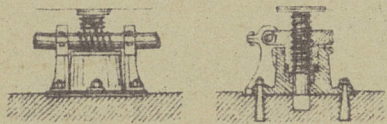


Fig. 5. Coin glissant

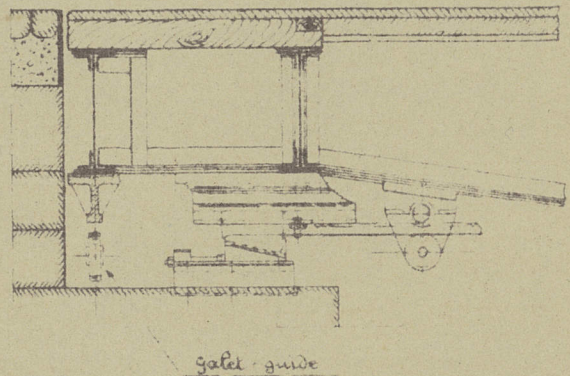


Fig. 6. Calage simultané des
longerons par barre
à coins.

(Amsterdam)

