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PLATEN

BEHOORENDE BIJ HET

HANDBOEK

VOOR DEN

TECHNISCHEN DIENST VAN DE VELDCOMPAGNIEËN

VAN HET

KORPS GENIETROEPEN.

DEEL III.

GEMEENSCHAPSMIDDELEN.

BATAVIA
LANDSDRUKKERIJ
1914.

PERPUSTAKAAN NASIONAL

VI 414 a

PLATEN

BEHOORENDE BIJ HET

HANDBOEK

VOOR DEN

TECHNISCHEN DIENST VAN DE VELDCOMPAGNIEËN

VAN HET

KORPS GENIETROEPEN.

DEEL III.

GEMEENSCHAPSMIDDELEN.

BATAVIA
LANDSDRUKKERIJ
1914.

BAT GENOOTSCHAP VAN K.EN W.

PERPUSTAKAAN NASIONAL REPUBLIK INDONESIA

PERPUSTAKAAN NASIONAL R.I.
Tanggal : 1-7-2010
Nomor Induk : 1284 / PN-Mus
BIB - ID : 0000-29572160
ITEM - ID : 0000308124965
Asal : Museum Pusat

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REPUBLIK INDONESIA

(1 : 5000). Traceeren van tijdelijke wegen in oneffen terrein.

Fig. 1.

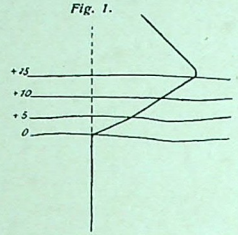


Fig. 2.

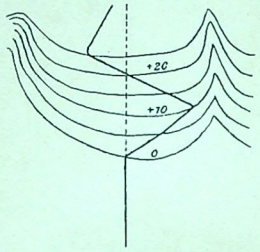


Fig. 3.

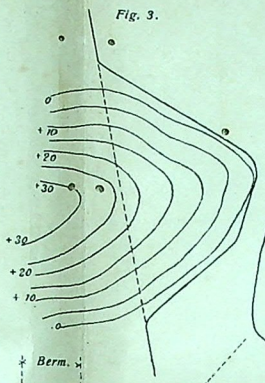


Fig. 4.

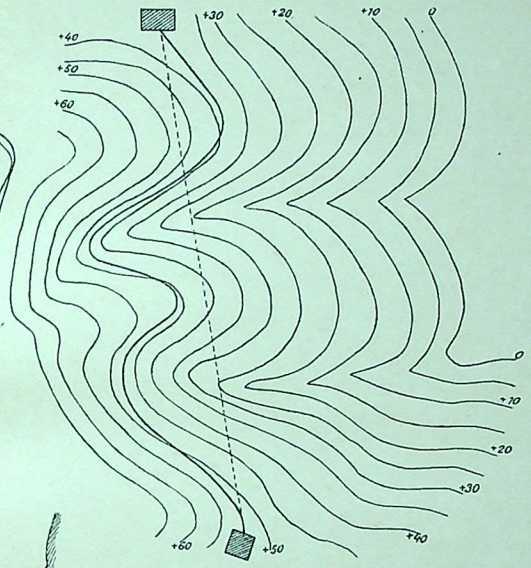


Fig. 5. (1 : 100). Algemeene vorm van een tijdelijken weg.
(De gestippelde lijnen geven de bermen aan bij ingraving).

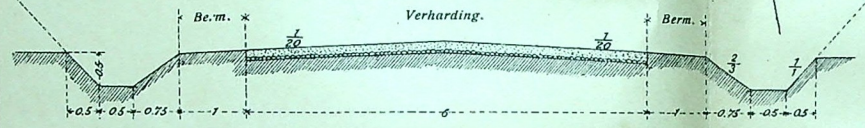


Fig. 6. (1 : 200). Weg langs een dijk

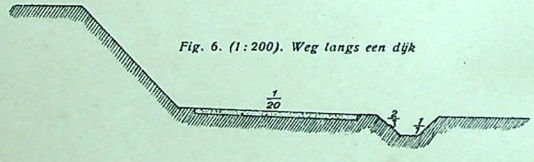


Fig. 7. (1 : 200). Weg langs een dijk, met natuurlijke afwatering.

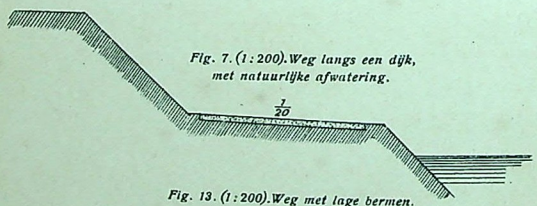


Fig. 8. (1 : 200). Weg langs een helling.

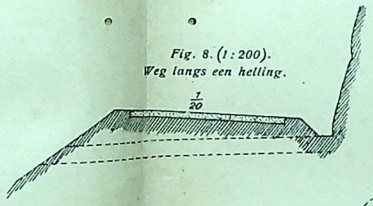


Fig. 9. (1 : 200). Weg langs een helling.

(1 : 100). Duikers onder wegen langs hellingen.

Fig. 10.



Fig. 11.

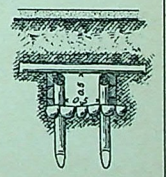


Fig. 12. (1 : 100). Trapsgewijze aanleg der zool van slooten, die anders te veel helling zouden hebben.

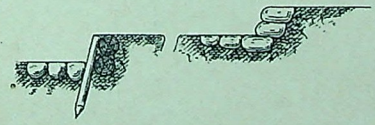
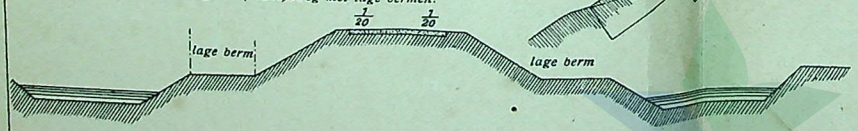


Fig. 13. (1 : 200). Weg met lage bermen.



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REPUBLIK INDONESIA

Fig. 14. (1 : 50). Stuk zeildoek of een huid aan een pikolan, voor transport van grond, puin, steenen, grint.

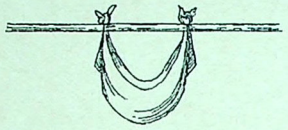


Fig. 15. (1 : 200). Tijdelijke weg, waarvan de verharding rust op een grondslag van keien.

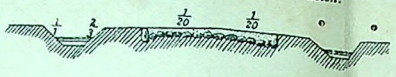


Fig. 16. (1 : 200). Tijdelijke weg met lage bermen in drassig terrein.

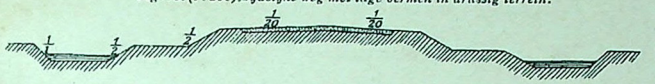


Fig. 17. (1 : 100). Knuppelweg.

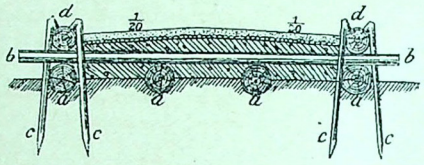


Fig. 17a. (1 : 200). Verdeeling de liggers.

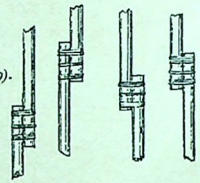


Fig. 18. (1 : 100). Knuppelweg in nog zachteren grond.

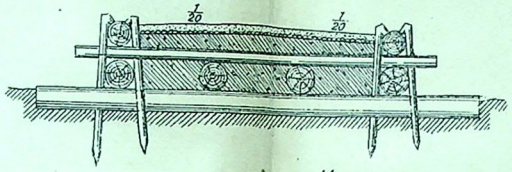


Fig. 18a. (1 : 200). Verdeeling der dwarsliggers en liggers.

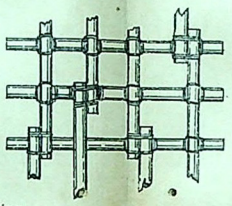


Fig. 19. (1 : 100). Knuppelweg over enkele diepere gedeelten.

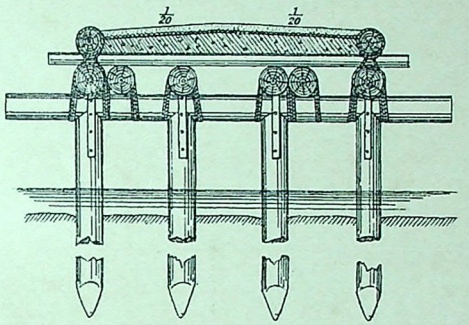


Fig. 20. (1 : 100). Planken weg.

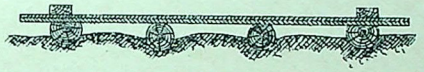


Fig. 21. (1 : 100). Tijdelijke weg op een grondslag van fascines.

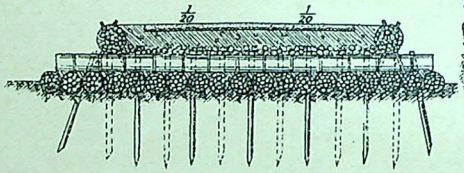


Fig. 21a. (1 : 50). Bekleeding der taluds met vlechtwerk.

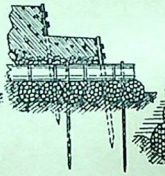
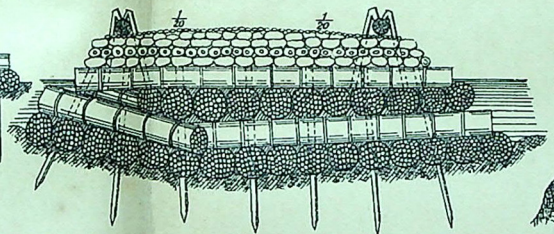


Fig. 22. (1 : 100). Tijdelijke weg op fascines bij grootere waterdiepte.



(1 : 500). Wegen langs rotsachtige hellingen.

Fig. 27.

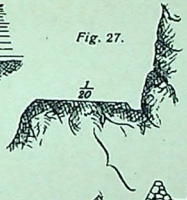


Fig. 28.

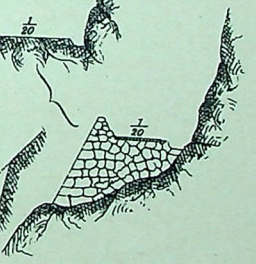
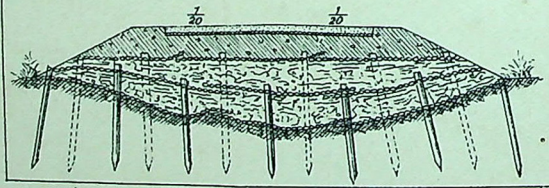


Fig. 23 (1 : 100). Tijdelijke weg op een grondslag van sesak en rijshout.



(1 : 500). Wegen langs hellingen

Fig. 24.

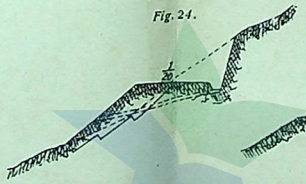


Fig. 25.

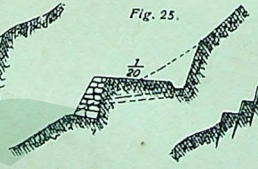
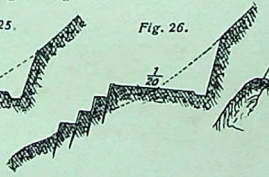


Fig. 26.



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TIJDELIJKE WEGEN.

Fig. 29. (1:1000). Stompe bocht.

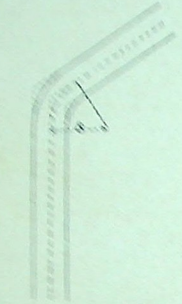


Fig. 30. (1:1000). Scherpe bocht.

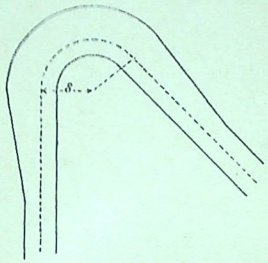


Fig. 31 (1:1000). Ontmoeting.

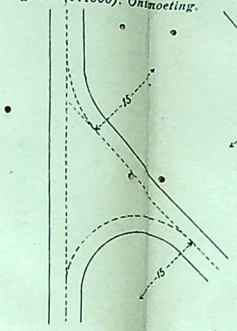


Fig. 32. (1:1000). Kruising.

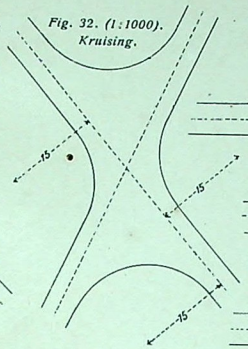


Fig. 33. (1:1000). Uithaalplaats.

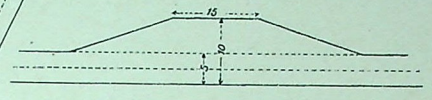


Fig. 34. (1:1000). Uithaalplaats.

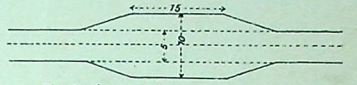
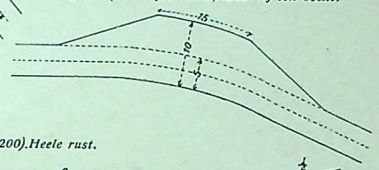


Fig. 35. (1:1000). Uithaalplaats bij een bocht.



(1:50). Halve rusten.

Fig. 36.



Fig. 37.

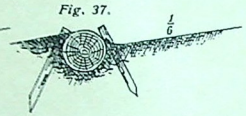


Fig. 38.

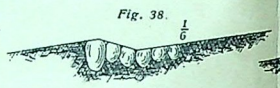


Fig. 39. (1:200). Heele rust.

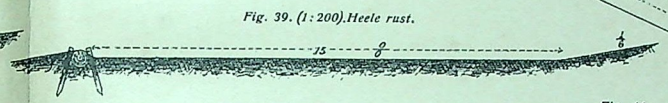


Fig. 40. (1:1000). Bocht tevens heele rust, en uithaalplaats op den hoek van een zigzag op een helling.

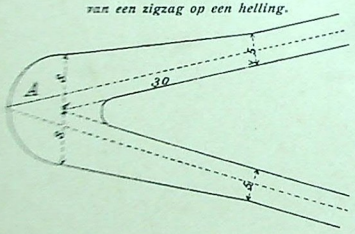


Fig. 41. (1:100). Verbreeding eener kade.

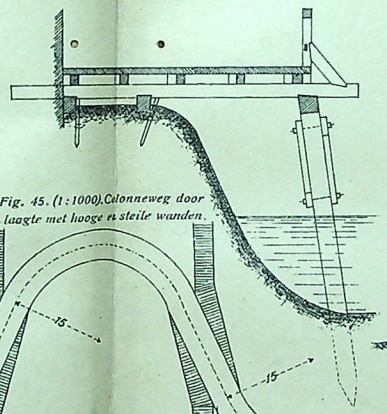


Fig. 42. Verbreeding van een hollen weg.

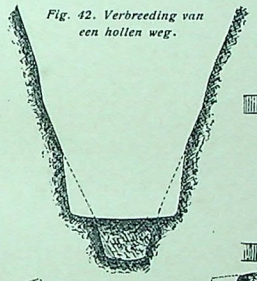


Fig. 43.

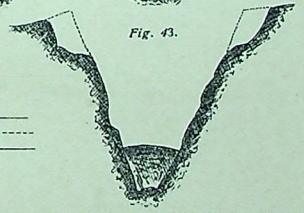


Fig. 44. (1:1000). Colonneweg door een ondiepe sloot.

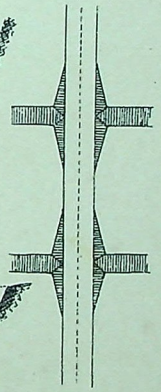


Fig. 45. (1:1000). Colonneweg door een laagte met hooge en steile wanden.

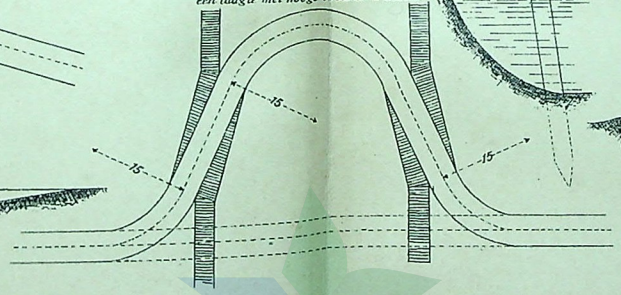


Fig. 46. (1:400). Colonneweg door een doorwaadbaar riviertje.



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Fig. 47. (1:20). Stand van de raden op het spoor.

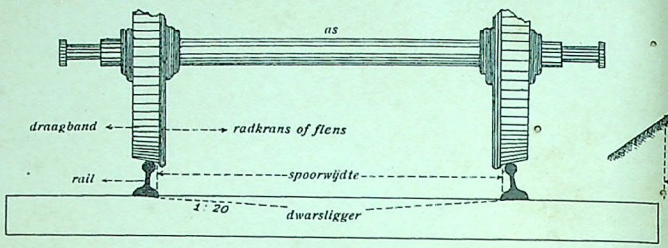

Fig. 54. (1:50). Ballastbed.

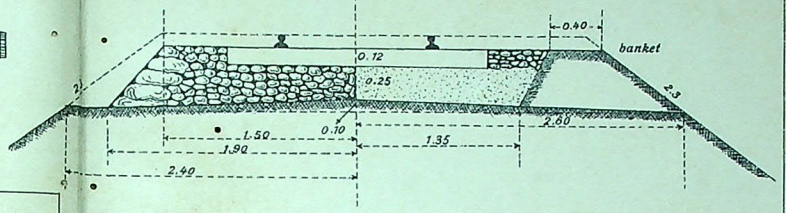

Fig. 52. (1:5). Verbinding met vleugellaschplaat.

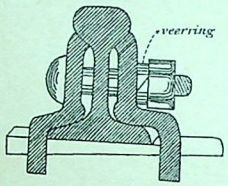

Fig. 48. (1:100). Profiel van de aardebaan.

Fig. 49.

Fig. 50. (1:6). Bevestiging van den rail

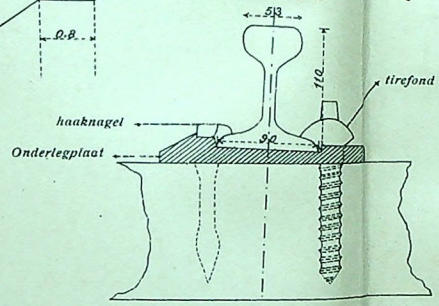

Fig. 53. (1:5). Verbinding met vlakke- en hoeklaschplaat.

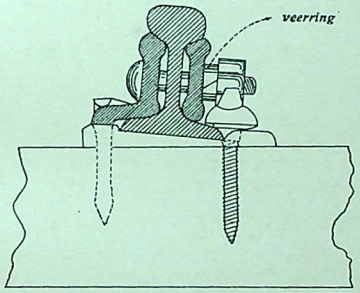

Fig. 51. (1:50). Dwarsligger verdeeling

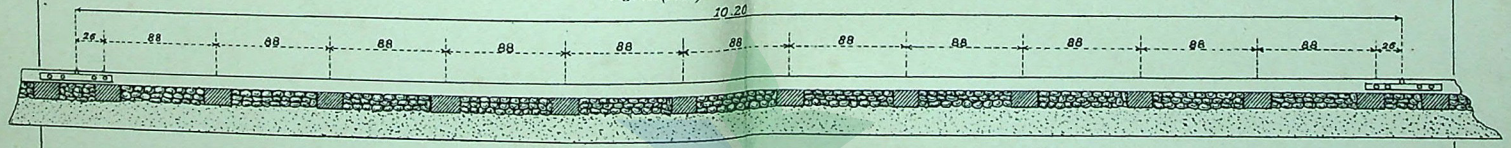

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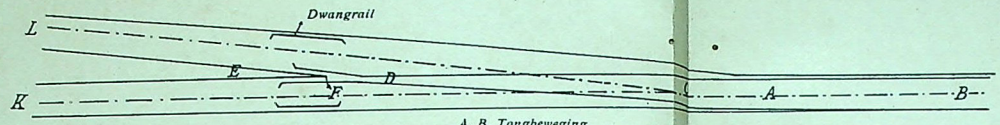
Fig. 57. Rechts wissel.



A. B. Tongbeweging
C. Middelpunt wissel
D. E. Puntstuk
F. Punt puntstuk

Fig. 55. (1:50). Profiel van vrije ruimte op hoofdbanen trambanen

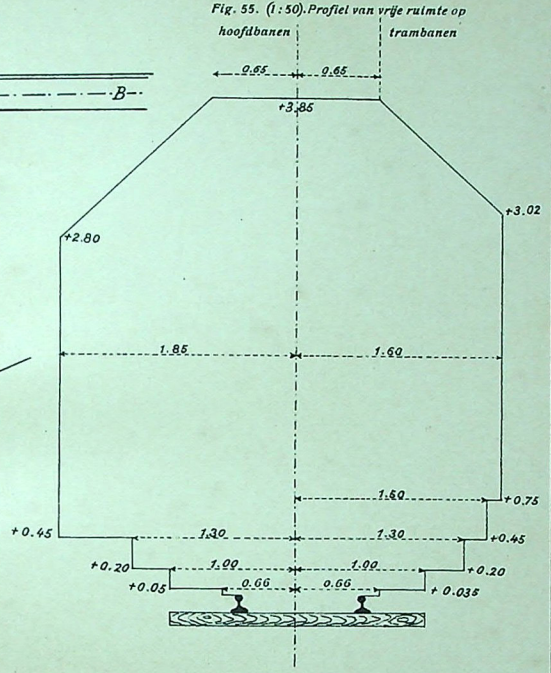


Fig. 56. Overgangshelling.

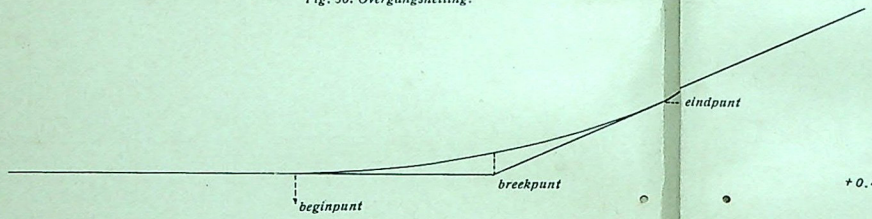


Fig. 58. Tolwissel.

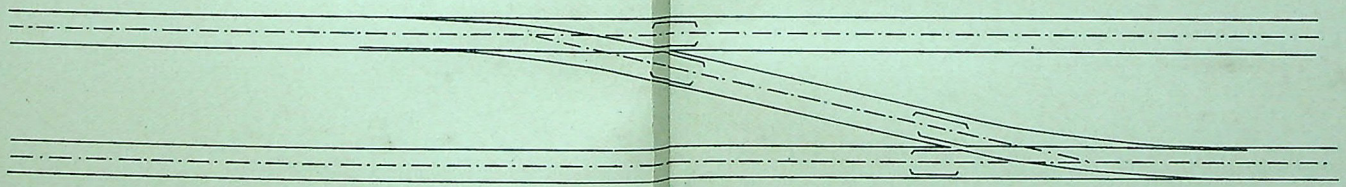


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Fig. 59. Tongbeweging.

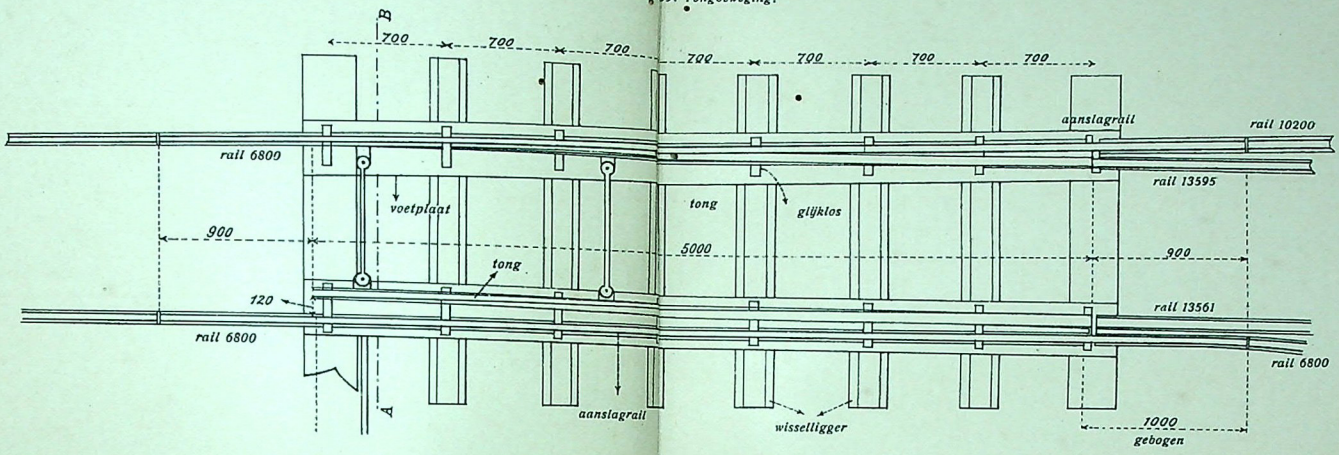

Fig. 59b. Opvolgende profielen van de tongen.
(van de hiel naar de punt van de tong).



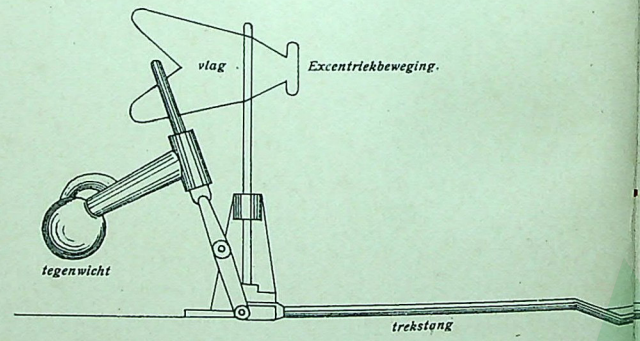

Fig. 59a. Doorsnede A. B.
Excentriekstoel

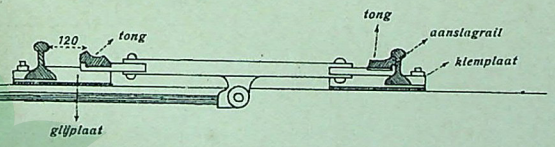

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Fig. 60. Puntstuk met dwangrails.

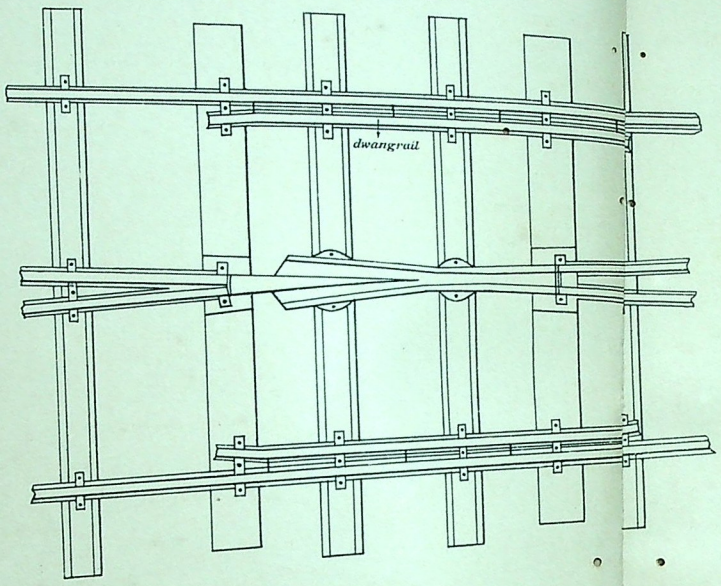


Fig. 60a. Puntstuk.

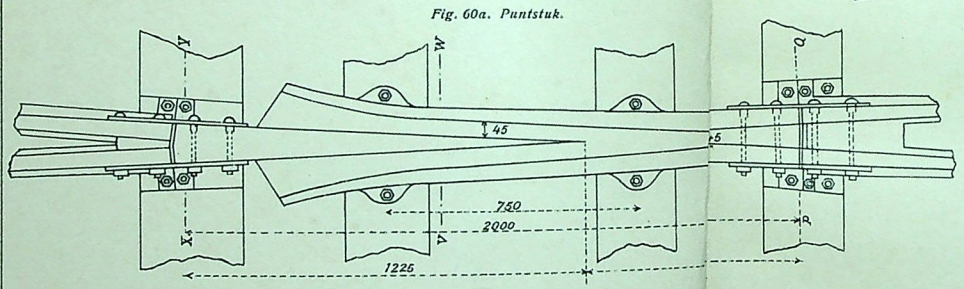


Fig. 60b. Doorsnede X. IJ.

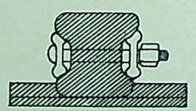


Fig. 60c. Doorsnede V.W.

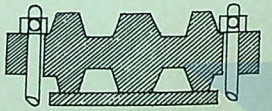


Fig. 60d. Doorsnede P.Q.

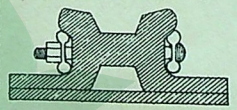


Fig. 62a. Rechte kruising

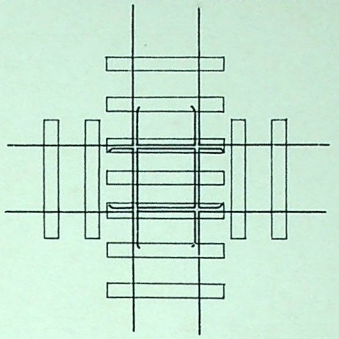
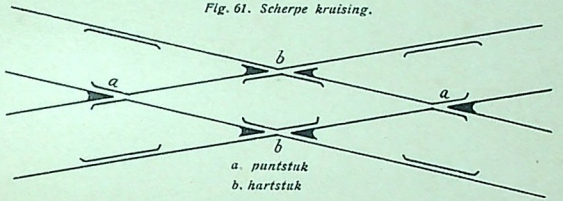


Fig. 61. Scherpe kruising.



a. puntstuk
b. hartstuk

Fig. 62. Stompe kruising.

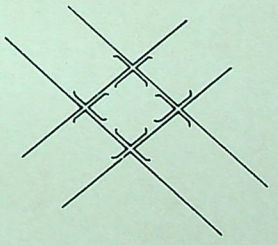


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Fig. 63. Overweg met stootbalk en contrarail.

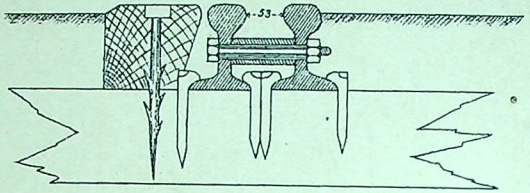

Fig. 64. Draaischijf (1:100).

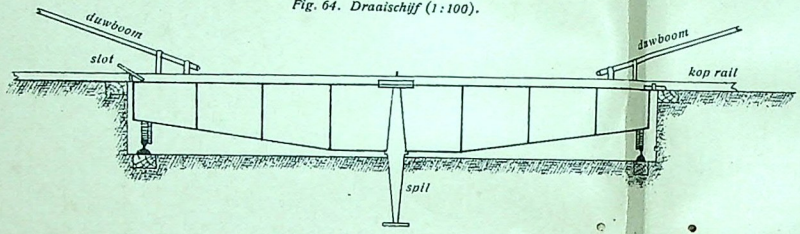

Fig. 64a. Draaischijf in bovenaanzicht.

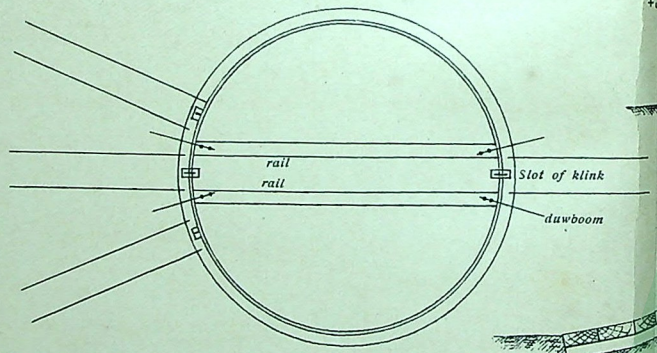

Fig. 65. Laadplaats

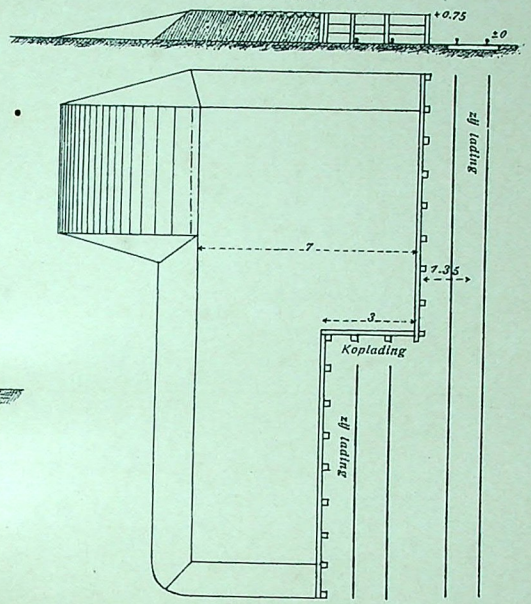

Fig. 65b. Hulplaadplaats.

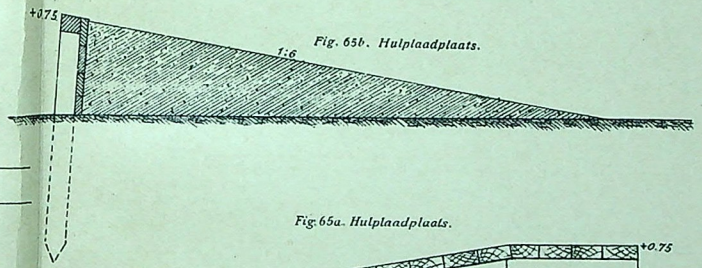

Fig. 65a. Hulplaadplaats.

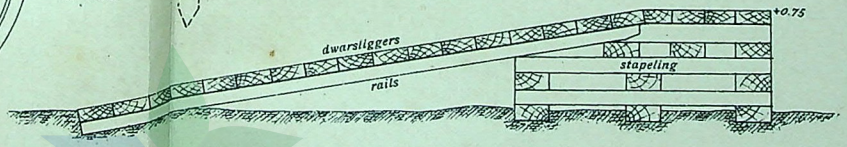

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Fig. 66.

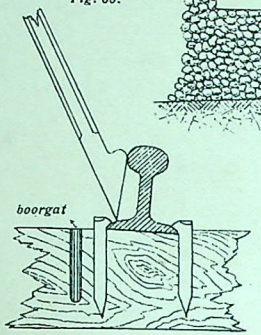


Fig. 67. Klauw.

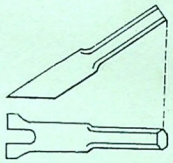


Fig. 68.

Fig. 71. (1:40). Draagbare draaischijf.

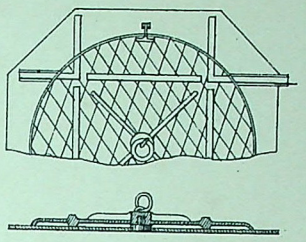
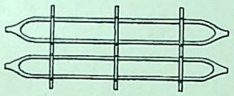


Fig. 74. Koppelen van djoekoengs.

(1:200).



(1:100). Doorsnede.

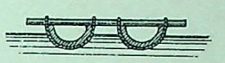


Fig. 69. Materieel van Decauville.

Fig. 69a (1:50). Stuk baan van 5 M.

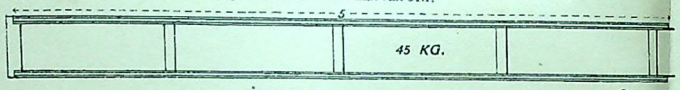


Fig. 69c. (1:50). Kromming van 25 M. (6 M. straal).

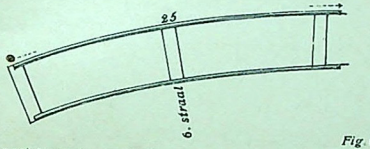


Fig. 75. Schets van de metalen plaatjes en pennen voor de dwarsribben.

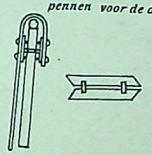


Fig. 70. (1:50). Wissel symmetrische.

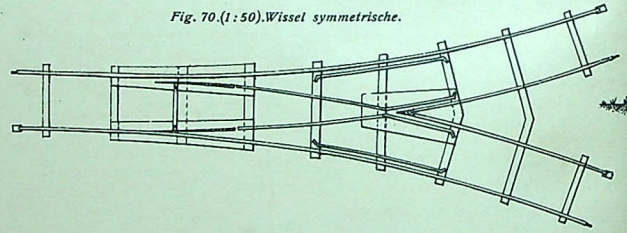


Fig. 73. (1:200). Kanaal voor djoekoengs en tambangans.

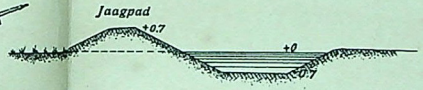


Fig. 69b. (1:10). Verbinding van 2 stukken baan.

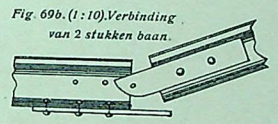


Fig. 72. (1:50). Wissel linksche.

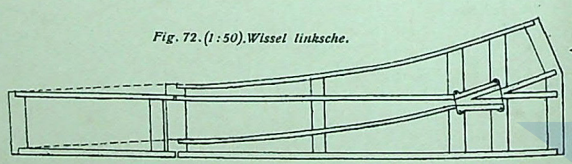


Fig. 76. Schema van een langsligger.

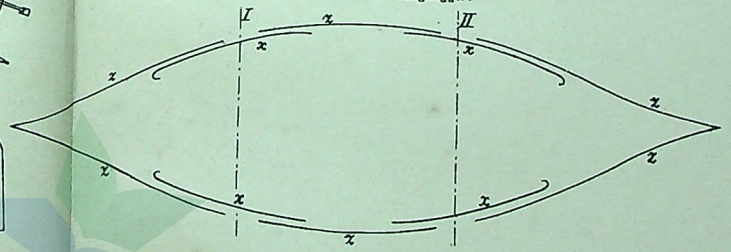


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Fig. 77. Schets van de verbinding van boordrib, eindrib en ring.

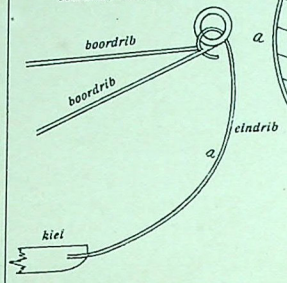

Fig. 78. Doornede A. B. in fig. 80. (1:20).

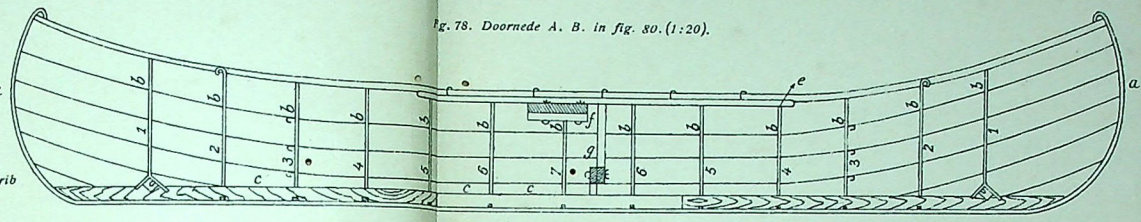

Fig. 80. Bovenaanzicht. (1:20).

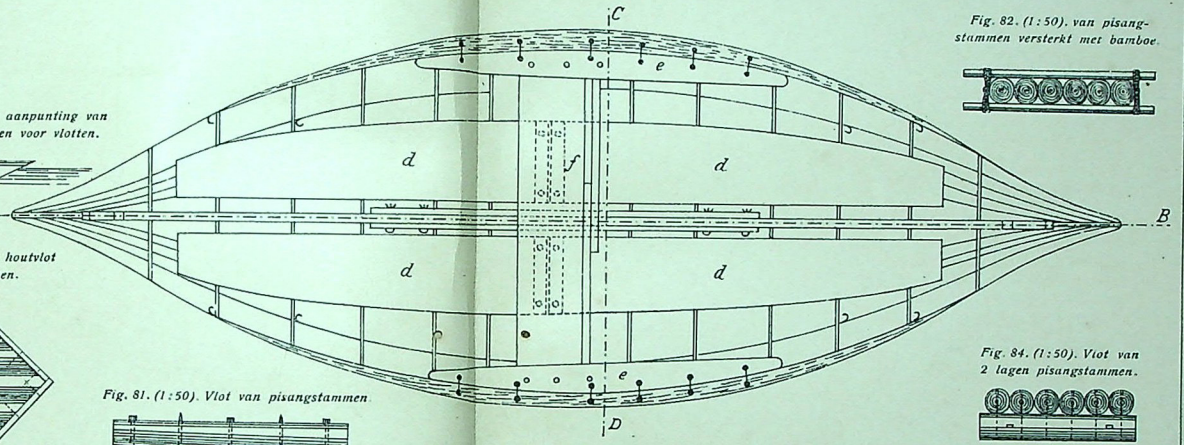

Fig. 82. (1:50). van pisangstammen versterkt met bamboe.

Fig. 87. (1:100). Fluitsgewijze aanpunting van het vooreinde van stammen voor vlotten.



Fig. 88. (1:100). Punt aan een houtvlot en bespijkeren met planken.

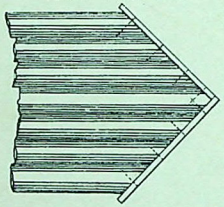

Fig. 84. (1:50). Vlot van 2 lagen pisangstammen.

Fig. 81. (1:50). Vlot van pisangstammen.

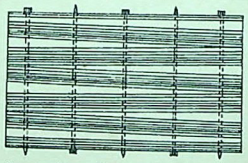

Fig. 79. Doorsnede C. D. in fig. 80. (1:20).

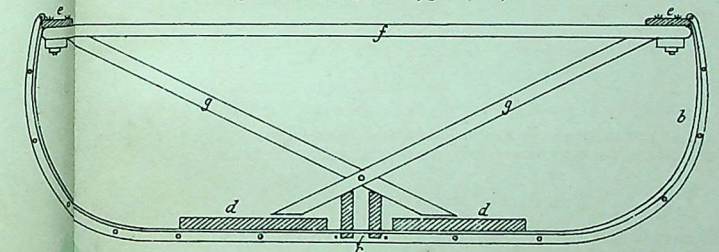

Fig. 86. (1:100). Vlot van 2 lagen pinangstammen.

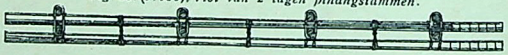

Fig. 85. (1:100). Vlot van pinangstammen.

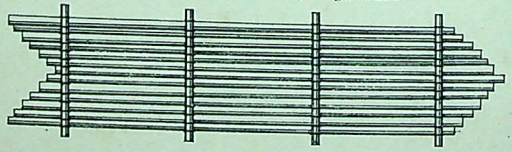

Fig. 83. (1:50). Langer vlot van pisangstammen.



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Fig. 89. (1:100). Houtvlot met dek.

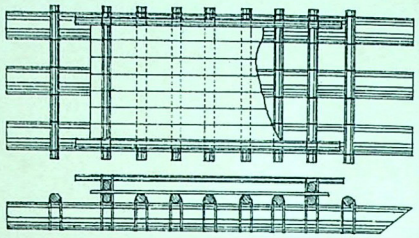

Fig. 90. (1:100). Verdeeling van kortere stammen in houtvlotten.

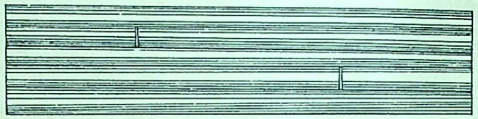

Fig. 91. (1:100). Verbinding van tonnen in 1 rij voor vlotten.

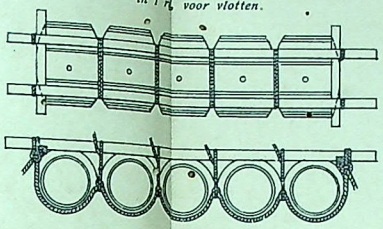

Fig. 92. (1:100). Verbinding van tonnen. in 2 rijen voor vlotten.

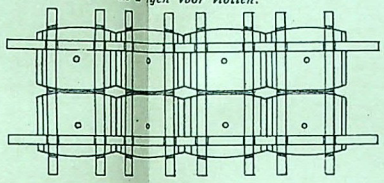

Fig. 91a. (1:50). Wijze van sjorren.

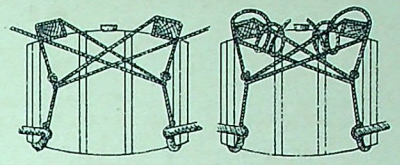

Fig. 95. (1:20). Anker.

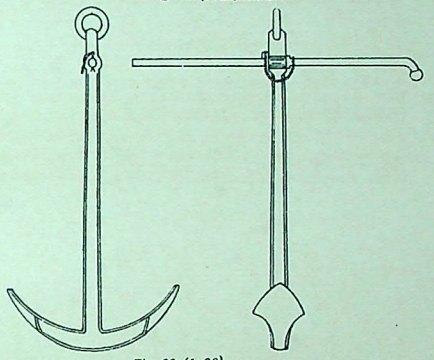

Fig. 93. (1:200). Enkel tonvlot.

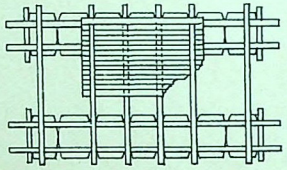

Fig. 98. (1:20). Ankerboei van hout.

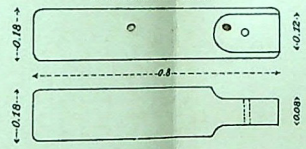

Fig. 99. (1:20). Ankerboei van bamboe



Fig. 94. (1:200). Dubbel tonvlot.

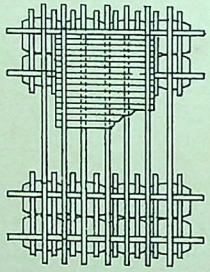

Fig. 96. (1:20). Groote dreg.

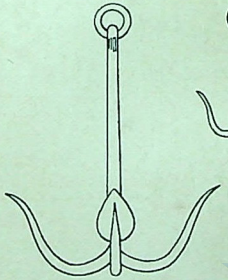

Fig. 97. Kleine dreg.

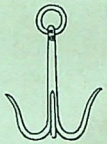

Fig. 103. (1:20). Roldolbeugel.



Fig. 102. (1:20). Korvijnagel.



Fig. 101. (1:20). Hoosschop.

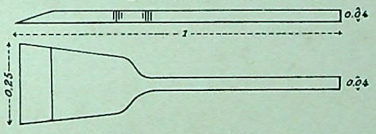

Fig. 100. (1:20). Handhoosvat

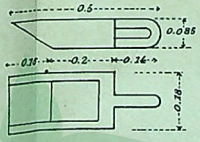

Fig. 104. (1:20). Pagaai.

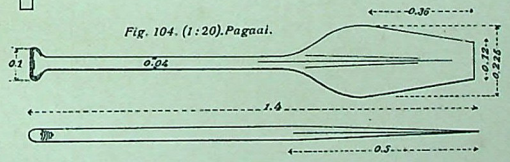

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Fig. 106. (1:20). Grote roeiriem.

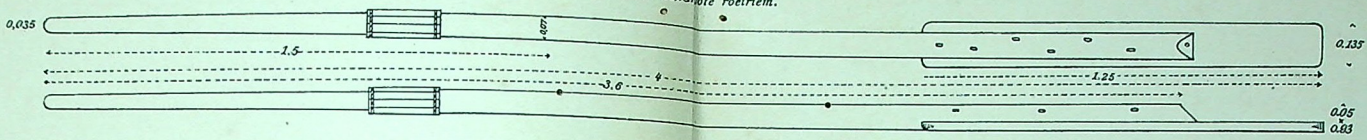

Fig. 107. (1:20). Schipperboom.

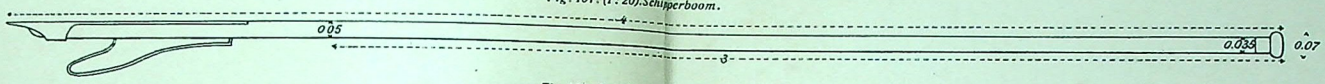

Fig. 108. (1:20). Schippershaak.

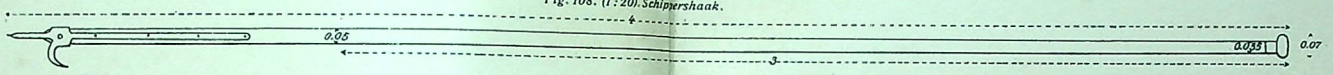

Fig. 109. (1:20). Strijkroer.

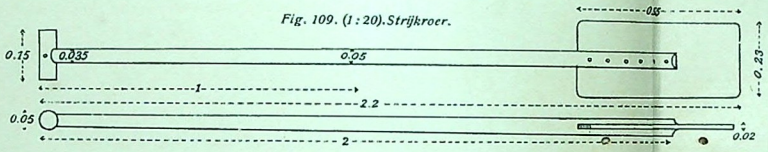

Fig. 111. (1:50). Schippersboom van bamboe met houten punt en steun.



Fig. 112. (1:50). Roeiriem van bamboe met houten blad.

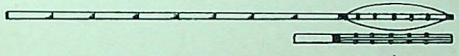

Fig. 105. (1:20). Roeiriem.

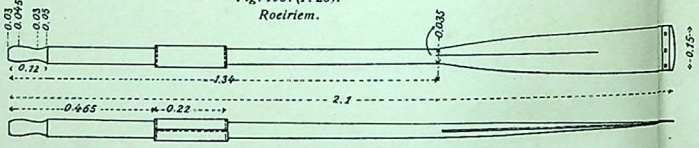

Fig. 114. Drijver van 6 petroleumblikken.

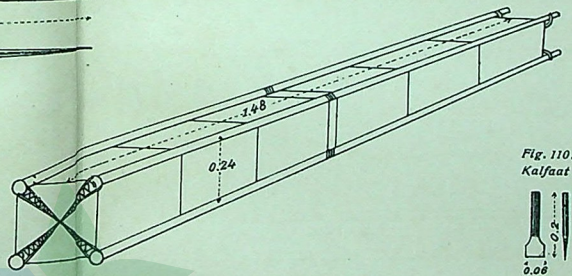

Fig. 113. (1:50). Strijkroer van bamboe.

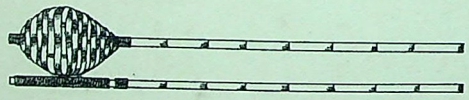

Fig. 110. (1:20). Kalfaat beitel.

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Vlot van 72 petroleumblikken. (1:50).

Fig. 115. Plattegrond.

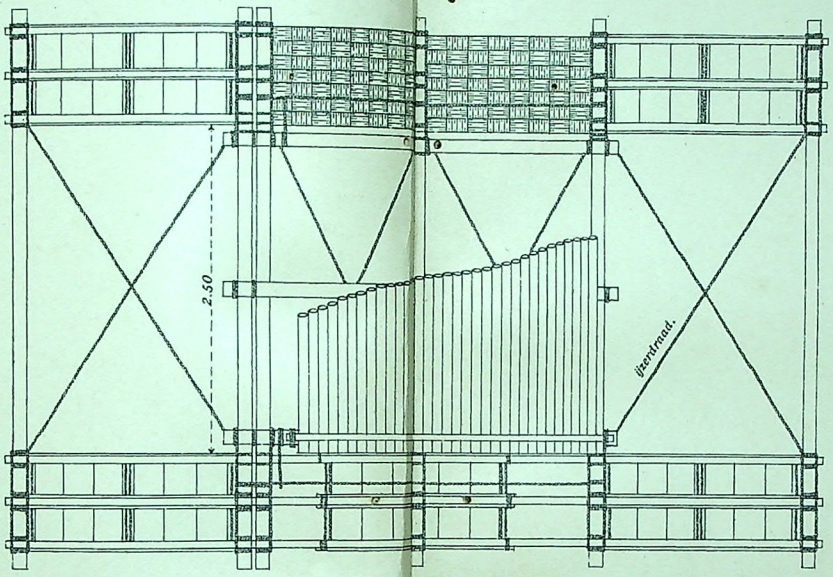


Fig. Bovenaanzicht.

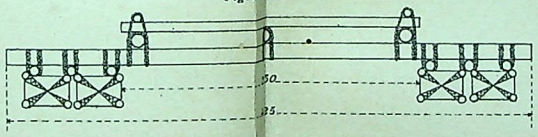


Fig. Zijaanzicht.

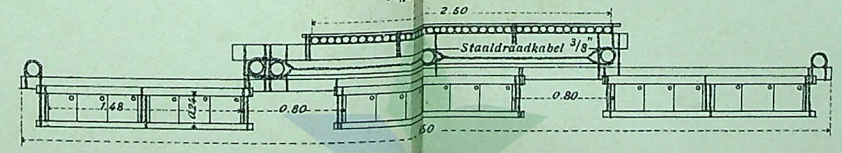


Fig. 118a. (1:50). Langsdoorsnede.

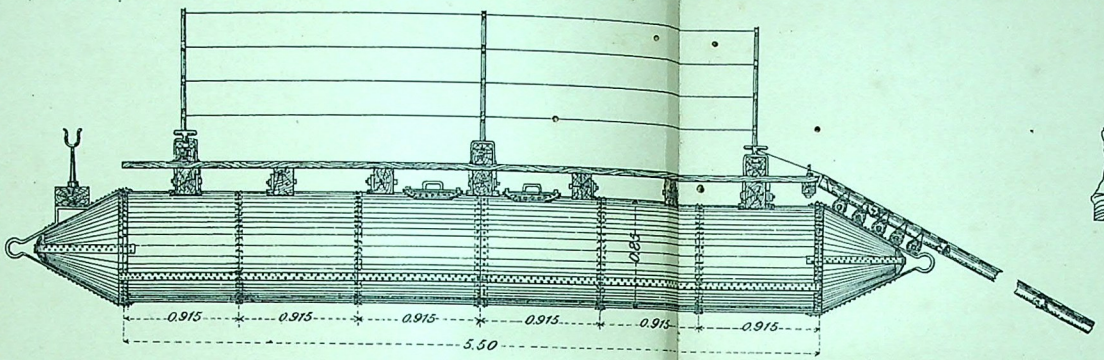


Fig. 118d. (1:10). Sluitribbeugel met kruisklamp.

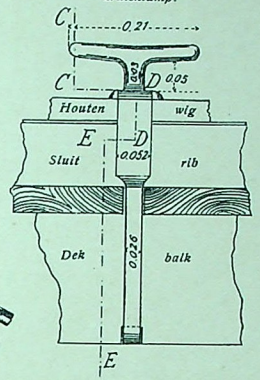


Fig. 118f (1:10). Doorsnede volgens CCDDEE. op fig. 118d.

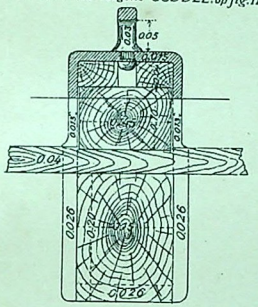


Fig. 118c. (1:10). Achterbeugel met ring en ankerbalk.

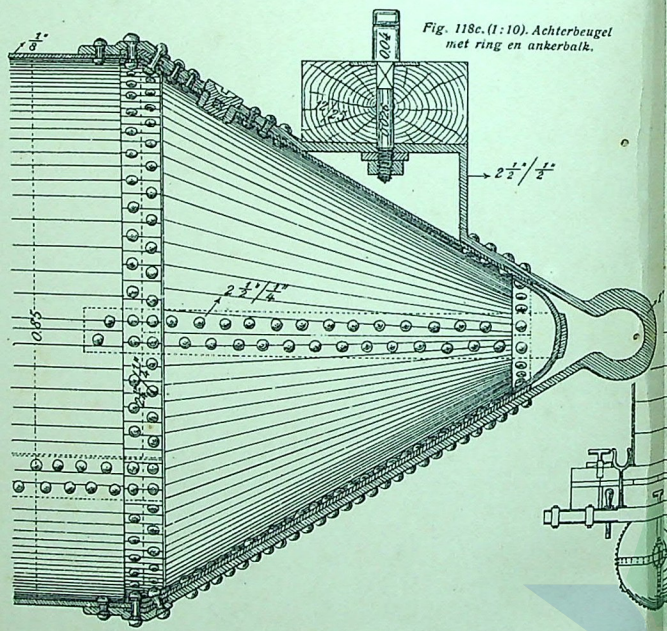


Fig. 118e. (1:10). Oogbout voor debarkements klep.

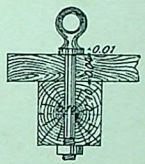
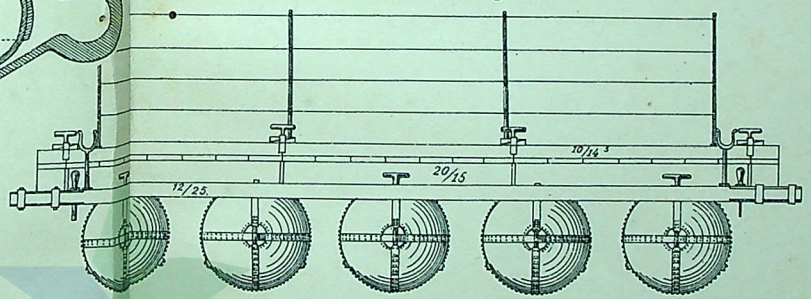


Fig. 118b. (1:50). Standgezicht.



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MIDDELEN VOOR DEBARKEMENT EN EMBARKEMENT.

Fig. 119 (1:200). Loopplank

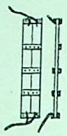


Fig. 119 a. (1:50).



Fig. 119 b. (1:20).



Fig. 120 (1:2000). Landingshoofd.

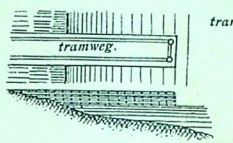


Fig. 121 (1:2000). Landingsbrug op palen.

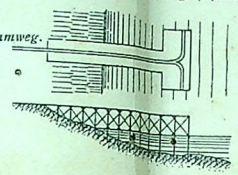


Fig. 122 (1:2000) Landingsbrug op vaartuigen.

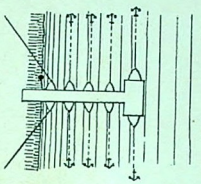


Fig. 123 (1:1000). Reeppont.

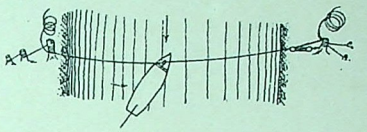


Fig. 123 a. Vastleggen van den reep

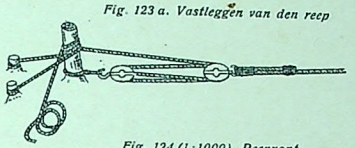
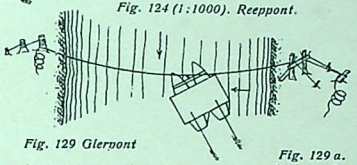


Fig. 124 (1:1000). Reeppont.



Verbinding der pont met den reep.

Fig. 125.

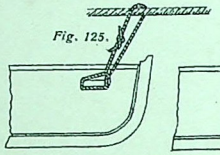


Fig. 126.

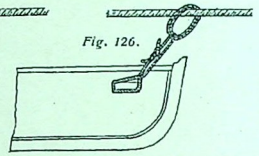


Fig. 127 Reep bij breede rivieren met zwakken stroom.

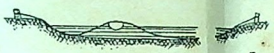


Fig. 128. Reep bij breede rivieren met sterken stroom

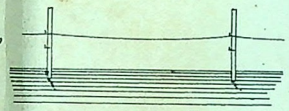


Fig. 127 a. Verbinding van pont met reep



Fig. 127 b.

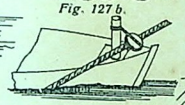


Fig. 128 a.

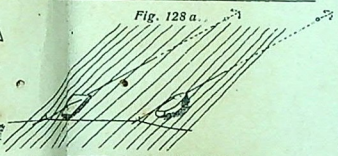


Fig. 129 Gierpont

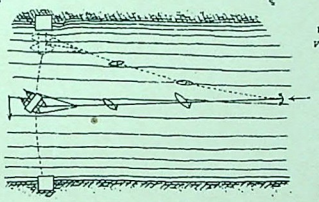


Fig. 129 a. Andere wijze van verankering van den gierreep.



Fig. 130 Gierpont.

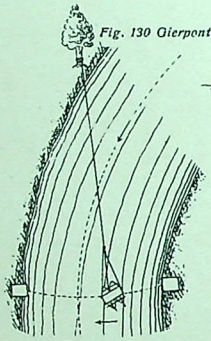


Fig. 131 Ondersteuning van den gierreep.

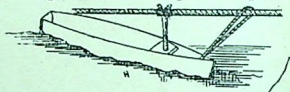


Fig. 132 Gierpont met galg.

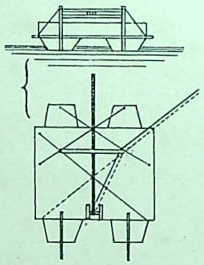


Fig. 133 Gierpont met steektouwen.

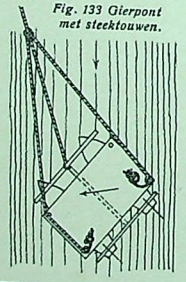
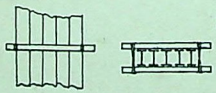


Fig. 141 Aaneensluitende liggers tevens dek.



METEN DER RIVIERBREEDTE

Fig. 134

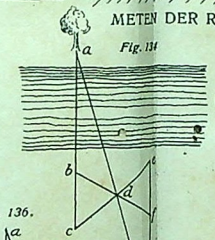


Fig. 135

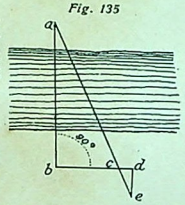


Fig. 136.

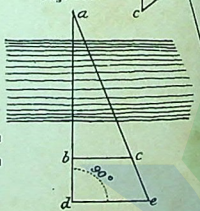
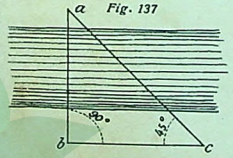


Fig. 137



AANEENSLUITENDE LIGGERS TEVENS DEK.

Fig. 138

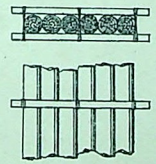


Fig. 139

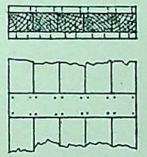
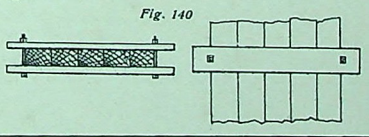


Fig. 140



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AANEENSLUITENDE LIGGERS MET DEK.

Fig: 142
Aarden dek.

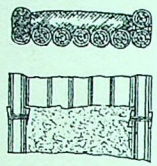

Fig: 143
Dek van knuppels.

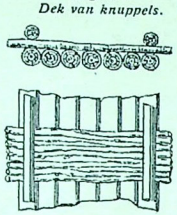

Fig: 144
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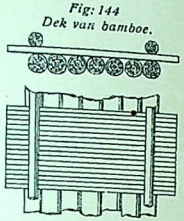


Fig: 145
Dek van sesak.



Fig: 146
Dek van planken.

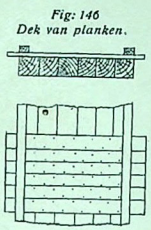


Fig: 148 Knuppelhouten en aarden dek.

Aanensluitende liggers dwarsliggers en dek.

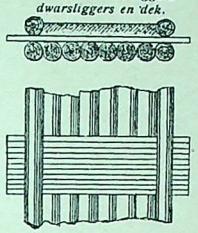
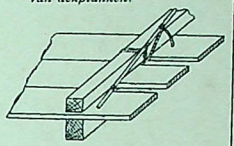


Fig: 147 Woelsjorring tot het vasthouden van sluitribben van dekplanken.



OP AFSTAND VAN ELKANDER GEPLAATSTE LIGGERS EN DEK.

Fig: 149
Knuppels of bamboe dek.

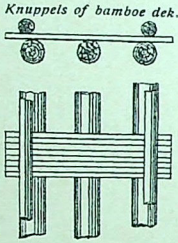


Fig: 150 Planken dek.

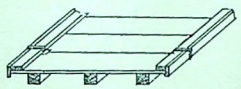


Fig: 151 Planken dek.

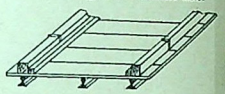


Fig: 152 Planken dek.

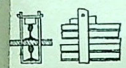


Fig: 154 Op afstand van elkander geplaatste liggers, dwarsliggers (bamboe of knuppels) en dek (sesak).

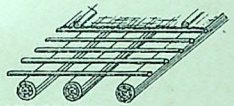
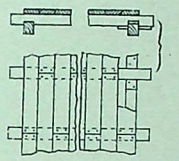


Fig: 153 Op afstand van elkander geplaatste liggers met dwarsliggers en dek.



LANDHOOFDEN EN VASTMAKEN DER LIGGERS OP DE LANDHOOFDEN.

Fig: 155 Schuin gelegde dekplanken bij loopbruggen.

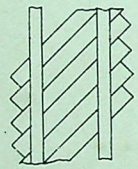


Fig: 156

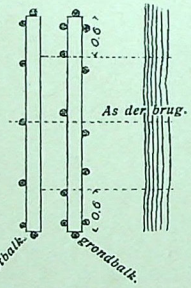


Fig: 157

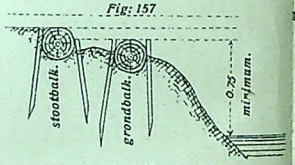


Fig: 158

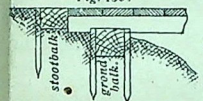


Fig: 159

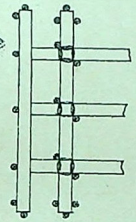


Fig: 160

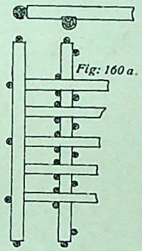


Fig: 160 a.

Fig: 161

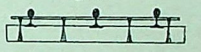


Fig: 162



Fig: 163

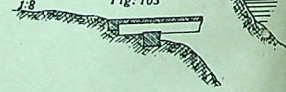


Fig: 165

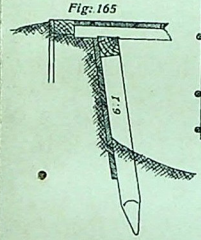


Fig: 164

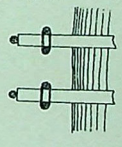


Fig: 166 (1:20). Verbinding van 2 liggers van hauten platen op een tussschensteunpunt.

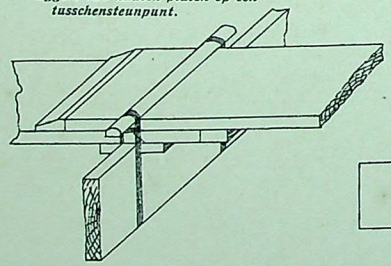


Fig: 167 (1:20). Verbinding van aaneensluitende liggers van rails aan een tussschensteunpunt.

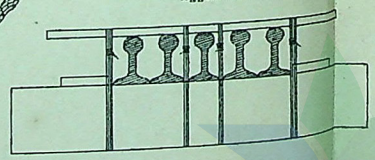




Fig: 168 (1:20). Verbinding van aaneensluitende rails in elkanders verlengde en op een tussschensteunpunt.

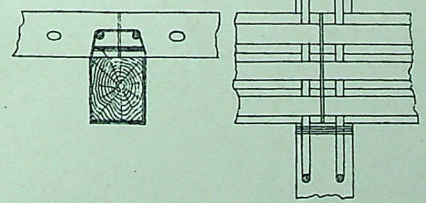


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Fig: 169 (1:20). Als Fig: 168 maar met laschplaten en sjorringen.

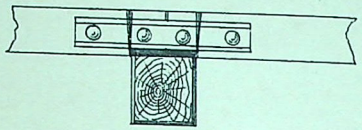


Fig: 170 (1:20). Verbinding van de einden der aaneensluitende rails op elkander en op het tusschensteunpunt.

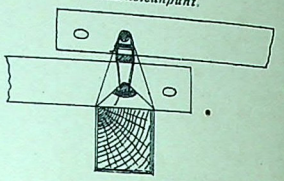


Fig: 171 (1:20). Verbinding van een der op afstand van elkander geplaatste houten liggers op een tusschensteunpunt.

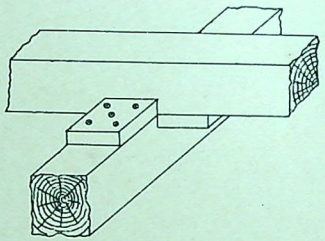


Fig: 174 (1:20). Verbinding van op afstand van elkander geplaatste liggers op de tusschensteunpunten.

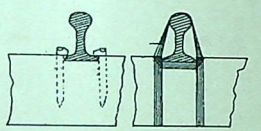


Fig: 179 Verdeeling der liggers, wanneer men enkele zeer lange heeft.

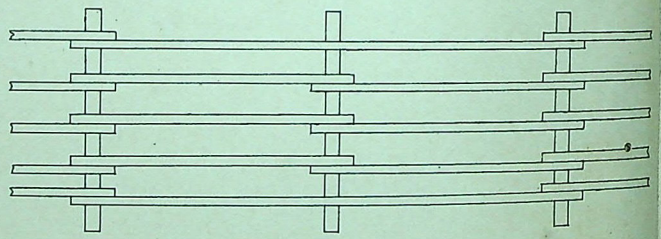


Fig: 180 Verdeeling van lange liggers.

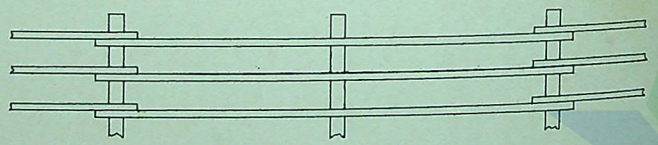


Fig: 173 (1:50). Verbinding door ijzeren pinnen.

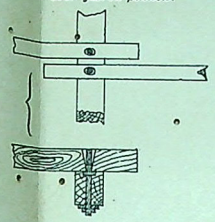


Fig: 172 (1:20). Verbinding der einden van liggers op de tusschensteunpunten en aan elkander, wanneer de liggers van de vakken op afstand van elkander zijn geplaatst.

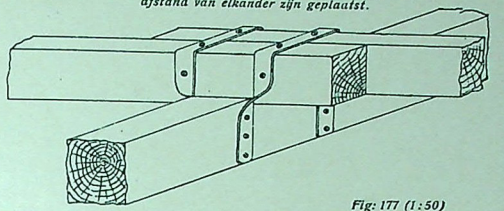


Fig: 178 Gewone verdeeling der liggers.

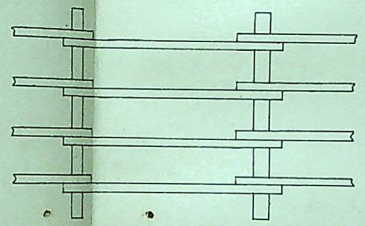


Fig: 177 (1:50) Verbinding der rails aan elkander en op het tusschensteunpunt.

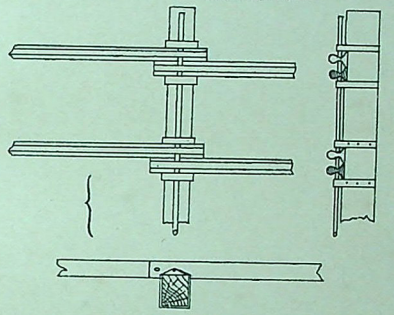


Fig: 175 (1:50). Verbinding in elkanders verlengde met laschplaten, en met haakbouten op het tusschensteunpunt.

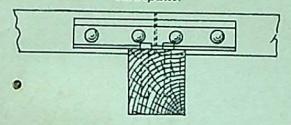
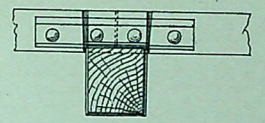


Fig: 176 (1:50). Als Fig: 175, maar met sjorring in stede van haakbouten.



Voorwaarden.
$ab > 18\ df$
$ac = bc$
$Q_I > Q_{II}$
$dg : fg = Q_{II} : Q_I$
$dc = gc$

Fig: 181 Grootste belasting, welke door een vierraderig voertuig op 1 ligger wordt te weeg gebracht.

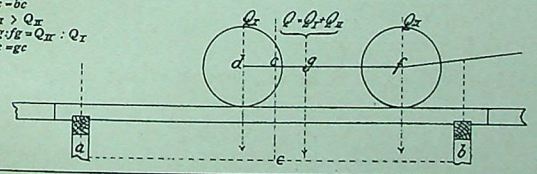


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Fig. 182 (1:200). Oeverbrug bestaande uit 1 boomstam.

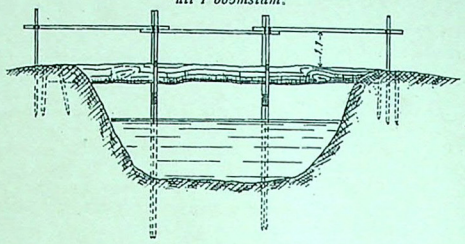


Fig. 182a. (1:200). Plaatsing der leuningstijlen.

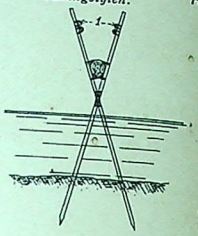


Fig. 183 (1:200). Andere wijze van plaatsing der leuningstijlen.

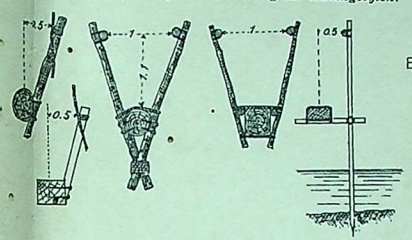


Fig. 184 (1:200). Enkele ligger bestaande uit 3 bamboezen.

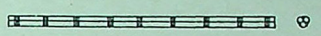


Fig. 185 (1:100). Oeverbrug van aaneensluitende liggers met dek van knuppelhouten.

Dwarsdoorsnede over het midden.



De brug op zijde gezien.

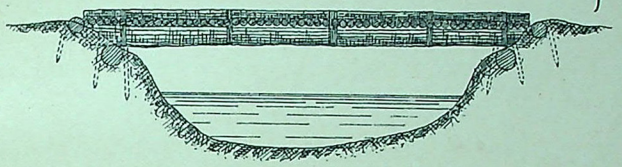
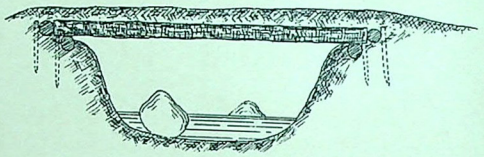


Fig. 186 (1:100). Oeverbrug van aaneensluitende liggers met aarden dek.

Lengte doorsnede over het midden.



Dwarsdoorsnede over het midden.

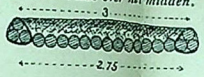


Fig. 187 (1:200). Oeverbrug met vooruitstekende landhoofden.

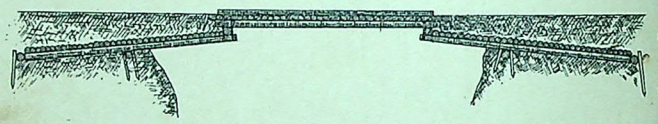


Fig. 188. (1:100). Oeverbrug met op afstand van elkander geplaatste liggers en planken dek.

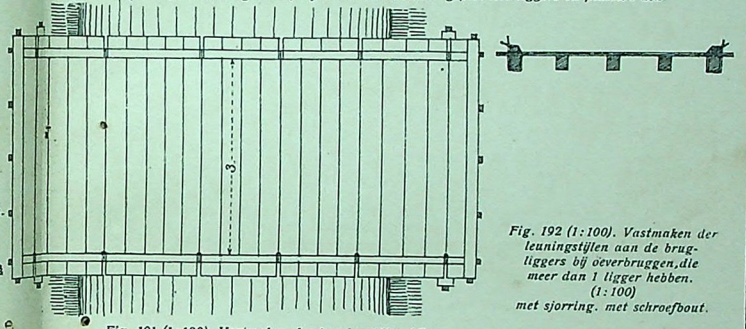
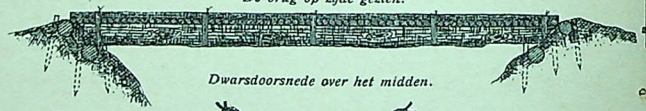


Fig. 189 (1:100). Oeverbrug met op afstand van elkander geplaatste liggers en knuppelhouten dek.

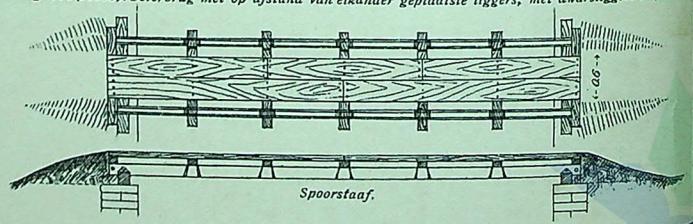
De brug op zijde gezien.



Dwarsdoorsnede over het midden.



Fig. 190 (1:100). Oeverbrug met op afstand van elkander geplaatste liggers, met dwarsliggers en plankendek.



Spoorstaaf.

Fig. 191 (1:100). Vastmaken der leuningstijlen bij oeverbruggen, die meer dan 1 ligger hebben.

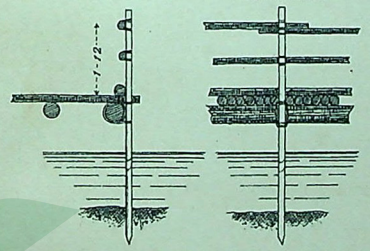
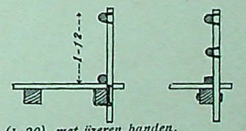


Fig. 192 (1:100). Vastmaken der leuningstijlen aan de brugliggers bij oeverbruggen, die meer dan 1 ligger hebben.

(1:100)

met sjorring. met schroefbout.



(1:20). met ijzeren banden.

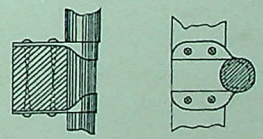


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Fig. 193 (1:100). Dubbele regels tot versterking der brug.

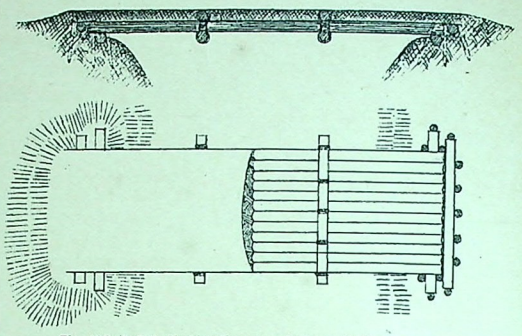

Fig. 196 (1:50). Verbingding van sterke sluitribben met den ligger en den regel.

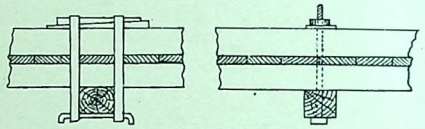

Fig. 199 (1:200). Versterking eener oeverbrug door stijlen en dwarsregel.

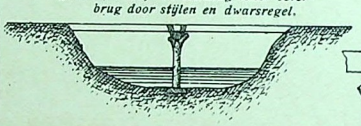

Fig. 201 (1:500). Versterking eener oeverbrug door schragen en dwarsregel.

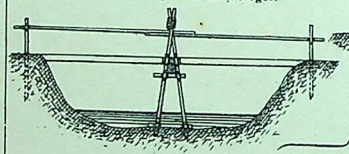

Fig. 202 (1:200). Verschillend gebruik van schoren bij oeverbruggen.

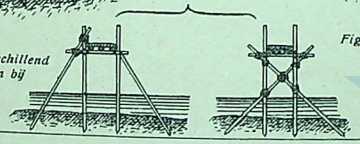

Fig. 1[illegible]100). Regels onder de liggers tot versterking der brug.

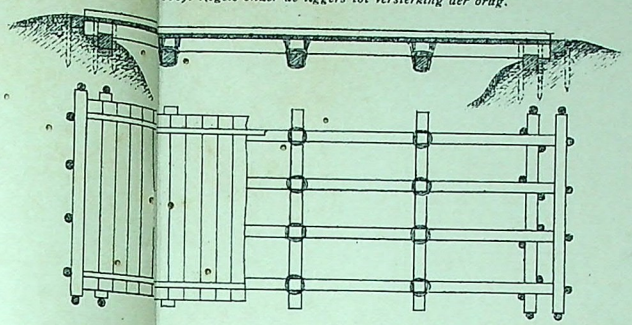

Fig. 197 (1:200). Verste[illegible] eener oeverbrug door staanders en dwarsregel.

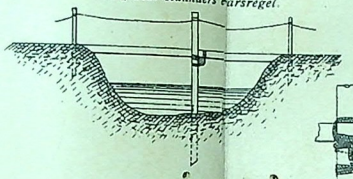

Fig. 200 (1:50) Verschillende wijze[illegible] van plaatsen van stijlen.

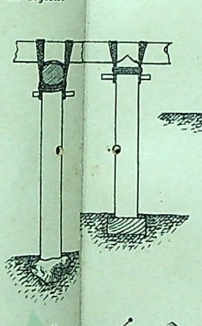

Fig. 203 (1:1000). Gebruik van tuiertouwen.

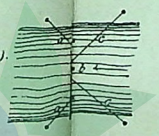

Fig. 195 (1:50). Gebruik van sterke sluitribben. Vastmaken der sluitribben aan de liggers door ijzeren banden.

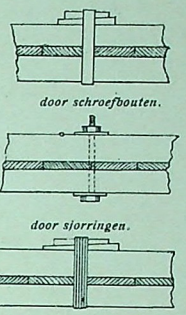

Fig. 198 (1:50). Verschillende wijzen van verbinding der staanders met den dwarsregel.

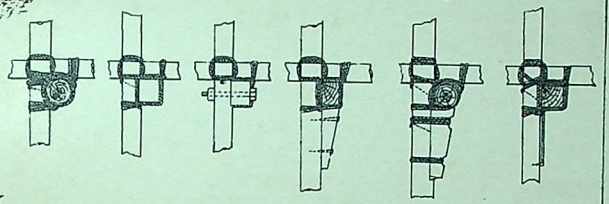

Fig. 204 (1:200). Enkel spanwerk bij oeverbruggen.

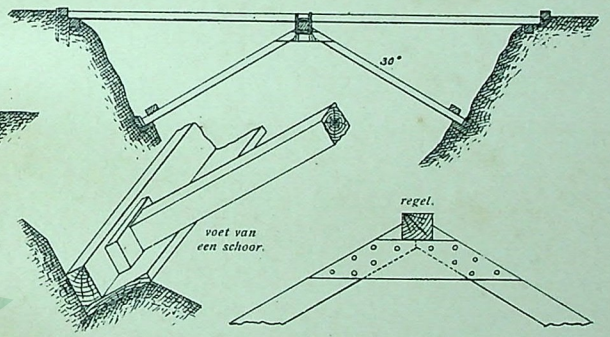

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Fig. 205 (1 : 200). Enkel spanwerk voor oeverbruggen.

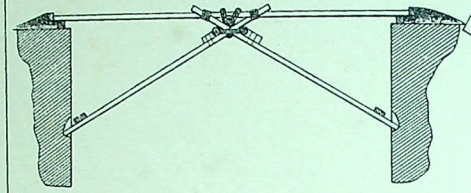
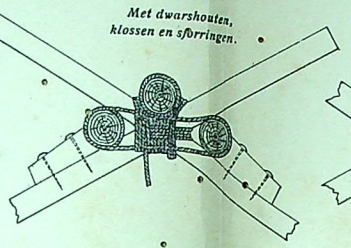
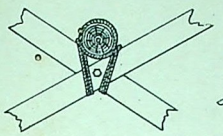


Fig. 206 (1 : 50). Verbinding van de boveneinden der schoren met de regels bij het enkel spanwerk.

Met dwarshouten, klossen en sjorringen.



Met halfhoutsche inkeping, schroefbout en sjorring.



Met pen, gat en klamp.

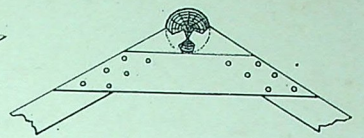
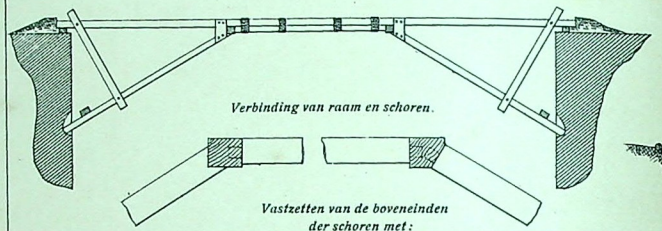


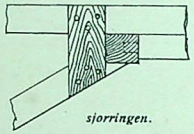
Fig. 207 (1 : 200) Dubbel spanwerk voor oeverbruggen.



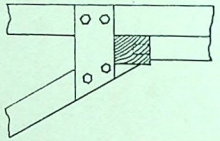
Verbinding van raam en schoren.

Vastzetten van de boveneinden der schoren met:

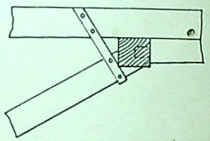
houten platen.



ijzeren platen en schroefbouten.



ijzeren banden.



sjorringen.

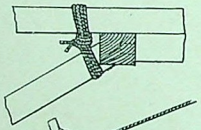


Fig. 208 (1 : 200). Span- en hangwerk voor oeverbruggen.

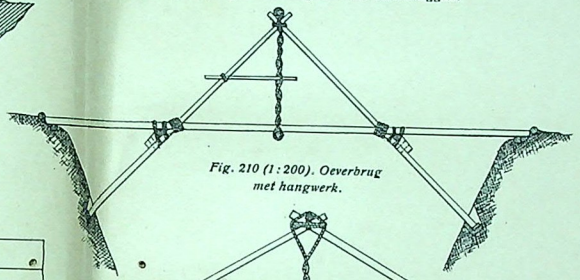


Fig. 209 (1 : 100) Vervanging der wurgsjorring door houten hangers, bij het span- en hangwerk.

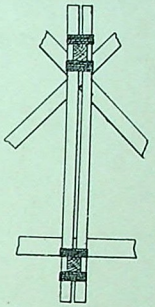


Fig. 210 (1 : 200). Oeverbrug met hangwerk.

Fig. 211 (1 : 200). Oeverbrug met hangwerk.

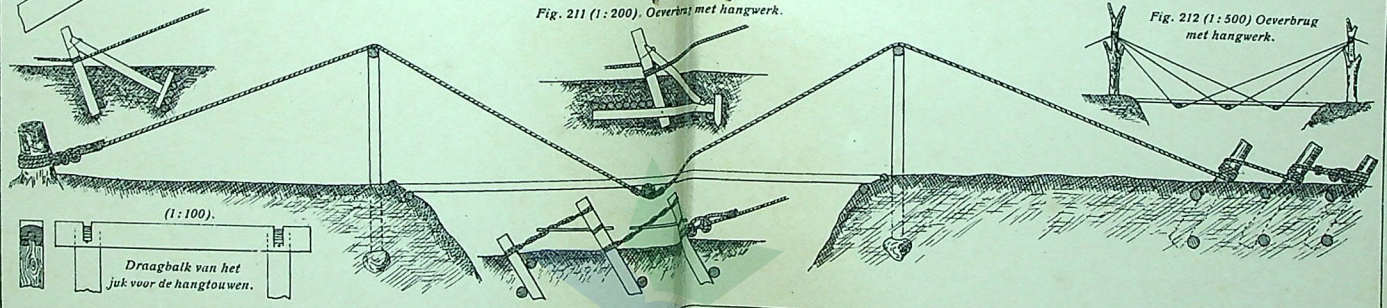


Fig. 212 (1 : 500) Oeverbrug met hangwerk.

(1 : 100).

Draagbalk van het juk voor de hangtouwen.

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Fig. 213a Kree met lasch.

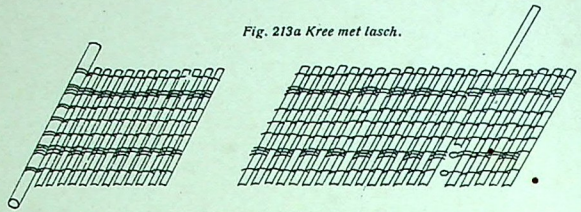


Fig. 213b (1:50) Vervaardiging van een Kree.

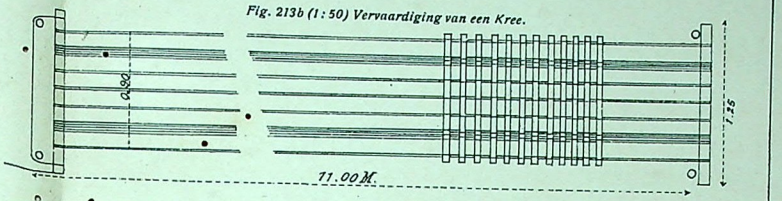


Fig. 213c (1:100). Kreebrug van 10 M. lengte.

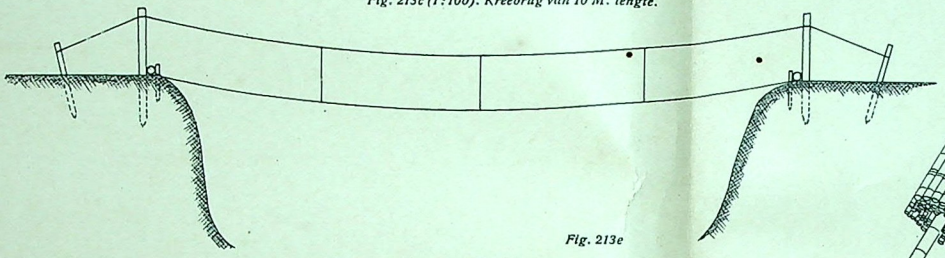


Fig. 213d Kree voor vervoer gereed.

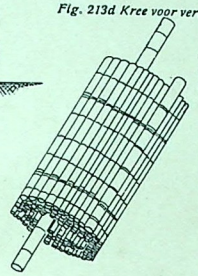


Fig. 213f

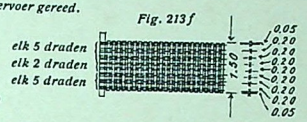


Fig. 219

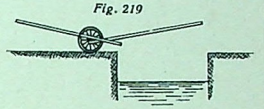


Fig. 213e
Kreebrug van 12 M. lengte
Aanzicht
(1:200).

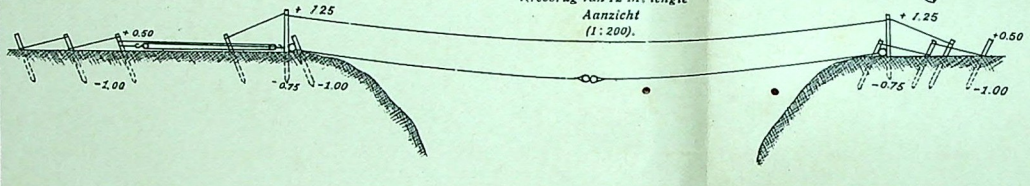
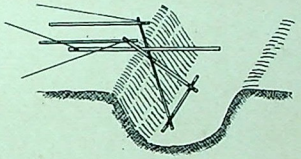


Fig. 220



Overbrengen van den eersten ligger bij oeverbruggen.

Fig. 214.

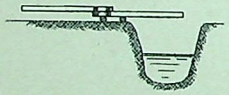


Fig. 215.

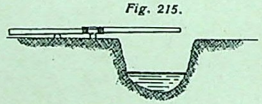


Fig. 216.

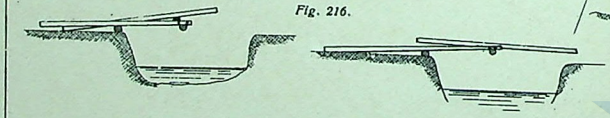


Fig. 217.

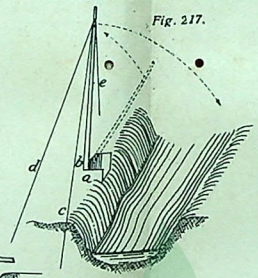


Fig. 218

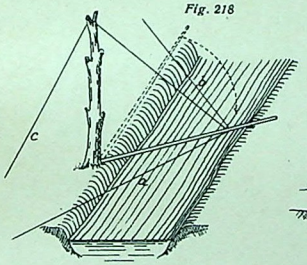


Fig. 221

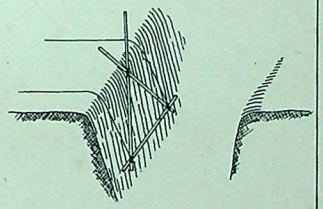


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Fig. 222 Overbrengen van den tweeden ligger.

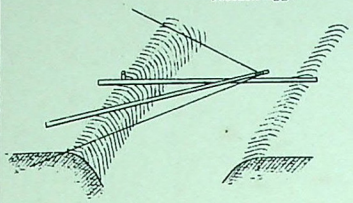

Fig. 228. (1:100). Dwarsdoorsnede eener gewone schraagbrug met draagbalken en bamboeliggers.

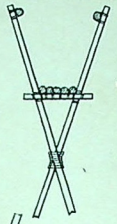

Fig. 229. (1:100). Oedeelte eener gewone schraagbrug met planken dek

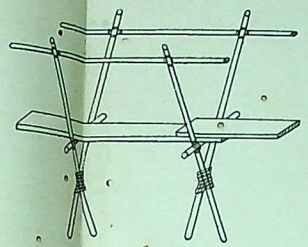

Fig. 230. (1:100). Tweebeenige schraag.

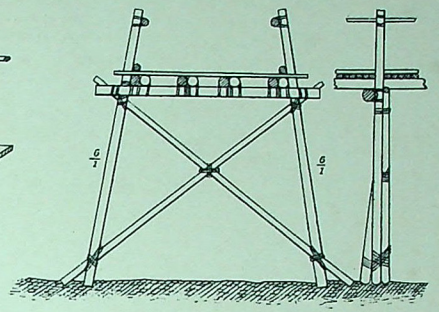

Fig. 223
Gewone schraag.

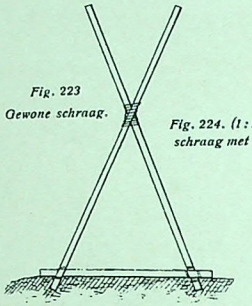

Fig. 224. (1:100). Gewone schraag met draagbalk.

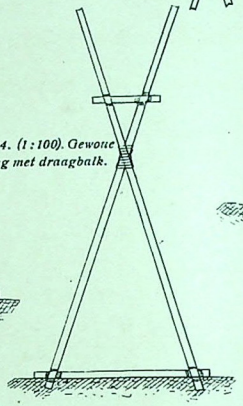

Fig. 226.(1:100). Gewone schraagbrug (liggers van pinangstammen).

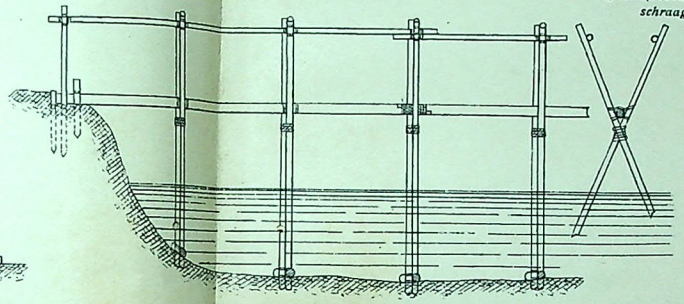

Fig. 227.(1:100). Dwarsdoorsnede eener gewone schraagbrug met bamboeliggers.

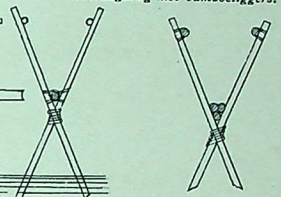

Fig. 225.(1:100).Gewone schraag van planken met draagbalk.

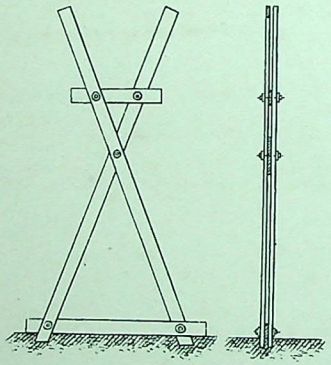

Fig. 232. (1:100). Twerbeenige schraag van ribben en planken.

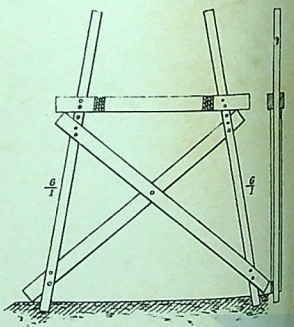

Fig. 231. (1:100). Tweebeenige schraag met samengestelden draagbalk en modderbalk.

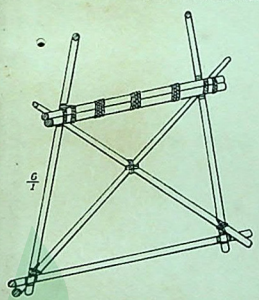

Fig. 233. (1:100). Tweebeenige schraag van platen.

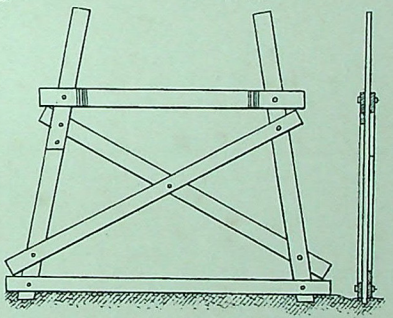

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Fig. 234. (1:100). Tweebeenige schragen van planken.

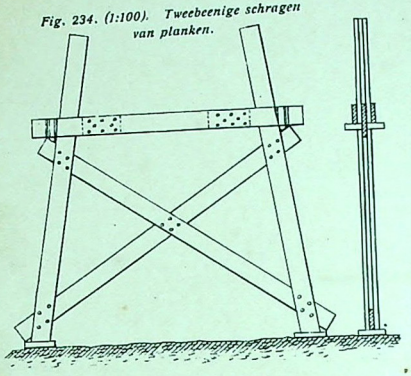


Fig. 235. (1:100). V… schraag.

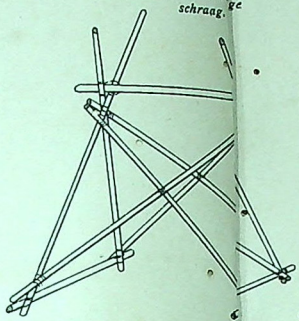


Fig. 236. (1:100). Vierbeenige schraag met dubbelen draagbalk en lengteregels.

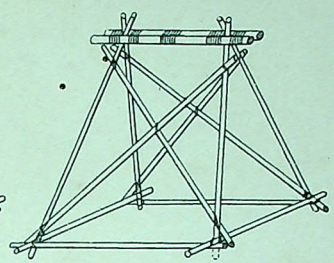


Fig. 239. Trekschoren van ijzerdraad bij kromhout bruggen.

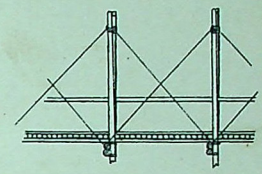


Fig. 238. (1:200). Kromhoutbrug.

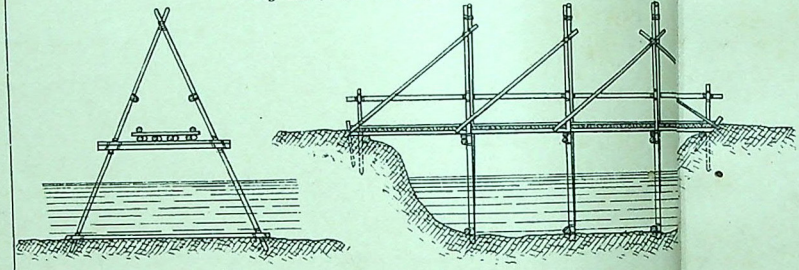


Fig. 237. (1:100). Vierbeenige schraag.

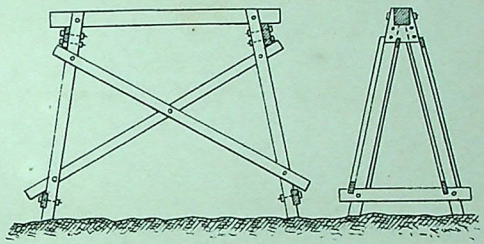
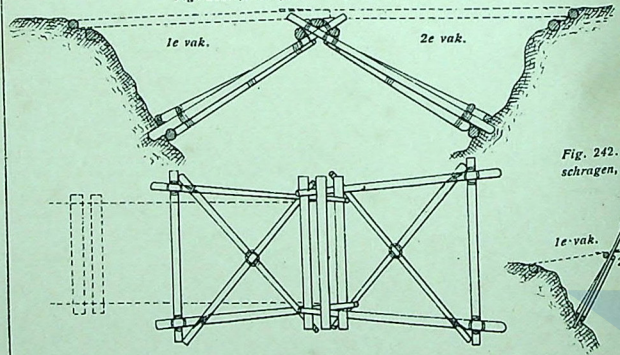


Fig. 240. (1:200). Enkel spanwerk van schragen.



F…:500). Dubbel spanwerk schragen en 1 raam …k. 2e vak. 3e vak.

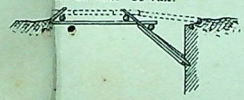


Fig. 242. (1:500). …nwerk van …npunten. …rm der schraag.

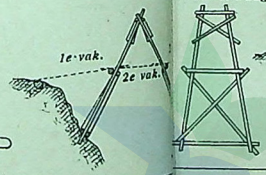
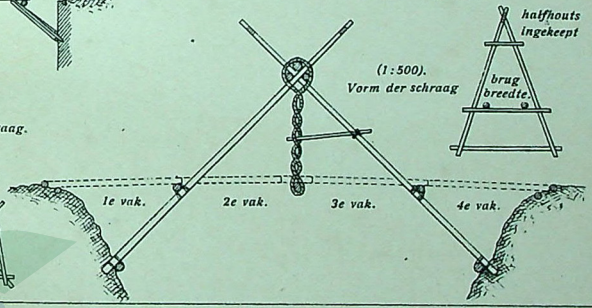


Fig. 243. (1:200). Span- en hangwerk van schragen, met 2 tusschensteunpunten.



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(1:200). PLAATSEN SCHRAGEN.

Fig. 244.

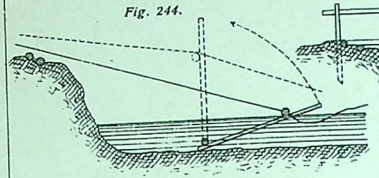


Fig. 245.

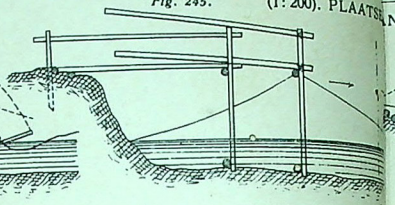


Fig. 246.

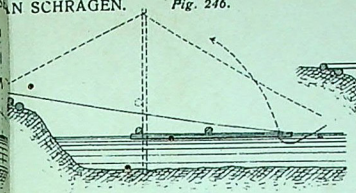


Fig. 247.

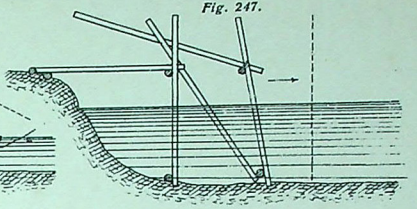


Fig. 248a.

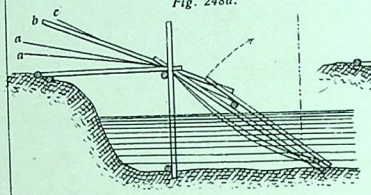


Fig. 248b.

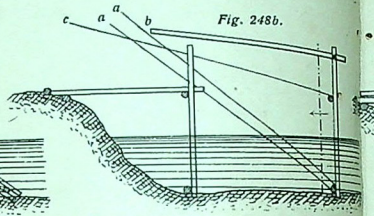


Fig. 249.

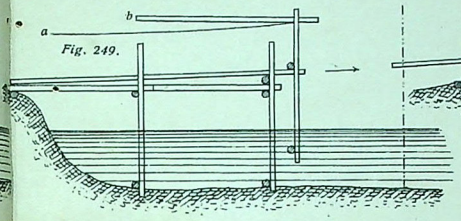


Fig. 250.

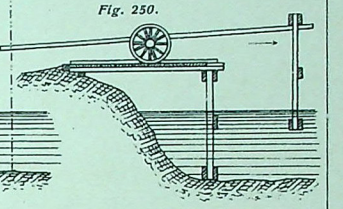


Fig. 251.

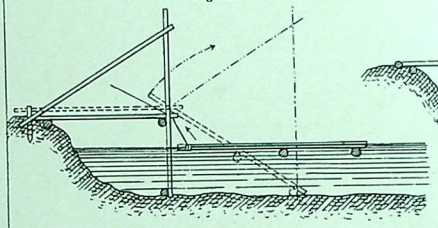


Fig. 254.

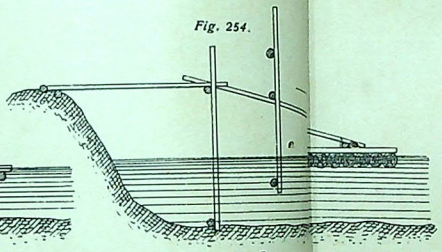


Fig. 258. Verzekeren van den stand eener schraag door schoor en spoor.

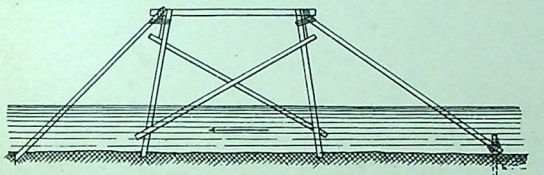


Fig. 257. (1:200). Verzekeren van den stand eener schraag door belasting met steenen.

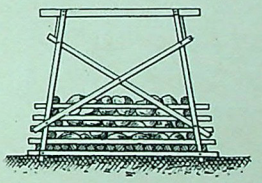


Fig. 252.

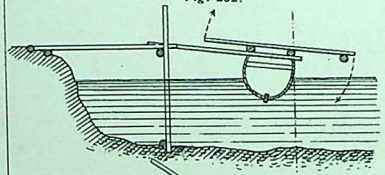


Fig. 255.

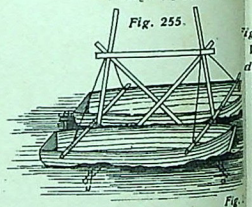
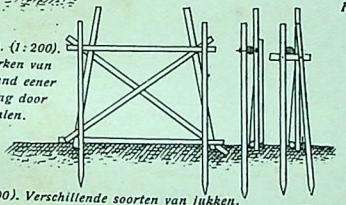
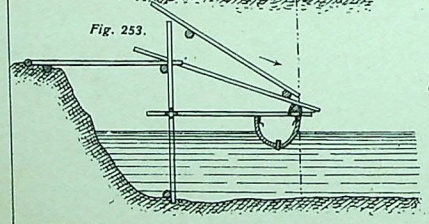


Fig. 256. (1:200). Versterken van den stand eener schraag door palen.



(1:200). Verschillende soorten van jukken.

Fig. 253.



N. B. Andere modellen van schragen dan de hier geteekende, worden naar gelang der omstandigheden op eene of andere der aangegeven wijzen geplaatst.

Fig. 260.

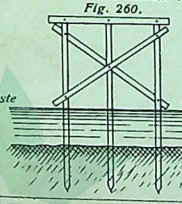
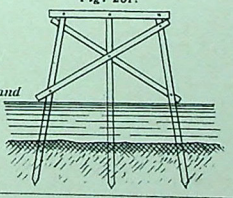


Fig. 261.



laagste waterstand

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(1:200). Verschillende soorten van jukken.

Fig. 262

Fig. 263

Fig. 2

(1:50) Plaatsen der sloof in bijzondere gevallen.

Fig. 270. met schroefbout.

Fig. 271. met sjorring.

Fig. 272. met uitsnijding.

(1:200). Jukken met watersloof.

Fig. 274.

Fig. 274 a

Fig. 274 b

Fig. 275.

Fig. 275 a.

Fig. 275 b.

(1:200) Jukken met dubbele watersloof.

Fig. 276.

Fig. 277.

Fig. 281. Kop van den heipaal.

(1:20). Aanpunten van jukpalen.

Fig. 265 rondhout.

Fig. 266 rond- of vierkanthout.

25—3 houtdikten.

Fig. 267 houten plaat.

Fig. 268 bamboe.

Fig. 269 palmstam.

Fig. 283. (1:200). Inwringen van een paal.

) . Vastmoken der leuningstijlen.

Fig. 278.

Fig. 279.

Fig. 280.

ing van bamboe of sparren.

Leuning van touw of ijzerdraad.

Versterking van den kop van den heipaal.

Fig. 282.

Fig. 284.

Fig. 285.

Fig. 286. (1:200). Inslaan van een paal met sleg.

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Fig. 287. (1:200). Stelling bij gebruik van handhei.

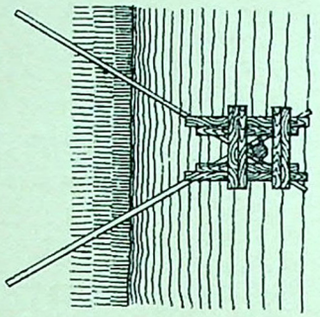


Fig. 288. (1:200). Inrichting voor het inslaan of inheien van eenige palen tegelijk.

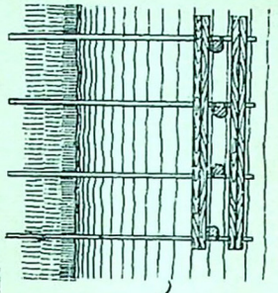


Fig. 289. (1:200). Vooreinde eener in bewerking zijnde jukbrug.

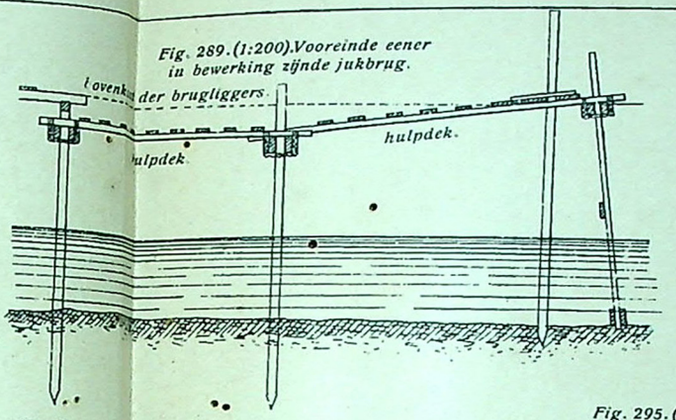
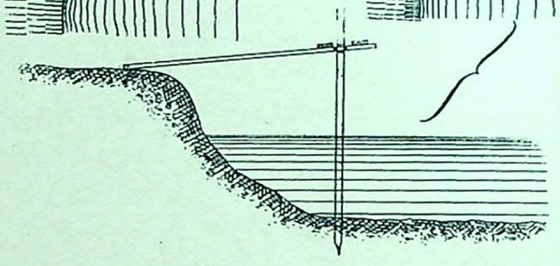


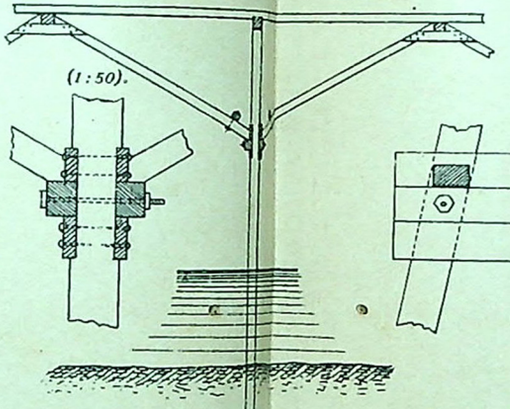
Fig. 290. Geïmproviseerde heistelling.





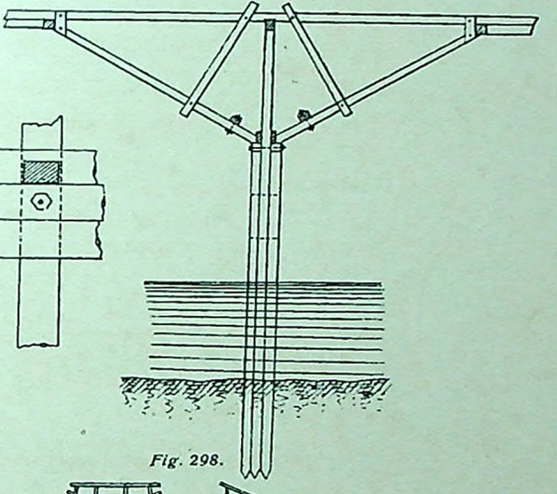
(1:200). Bepalen der hoogte van den grondbalk.

Fig. 294. (1:200). Jukbrug met enkel spanwerk, dat op gordingen rust.



(1:50).

Fig. 295. (1:200). Jukbrug met dubbel spanwerk, dat op gordingen op afzonderlijke palen rust.



(1:50).

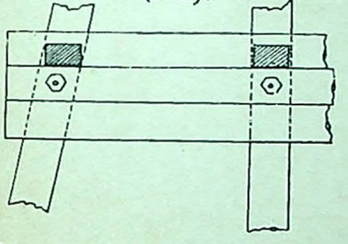


Fig. 291.

Fig. 292

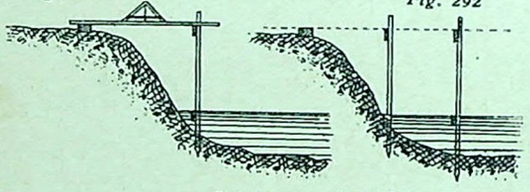
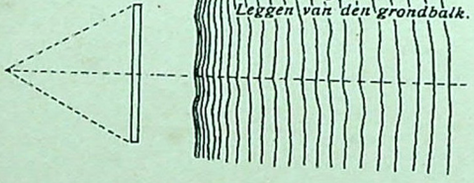


Fig. 293.
Leggen van den grondbalk.



(1:500). Stroombrekers.

Fig. 296.



Fig. 297.

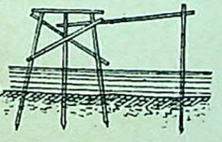


Fig. 298.



Fig. 299a. (1:200). Hangbrug met lage ophangpunten voor loopbrug der Infanterie.
Zijaanzicht.

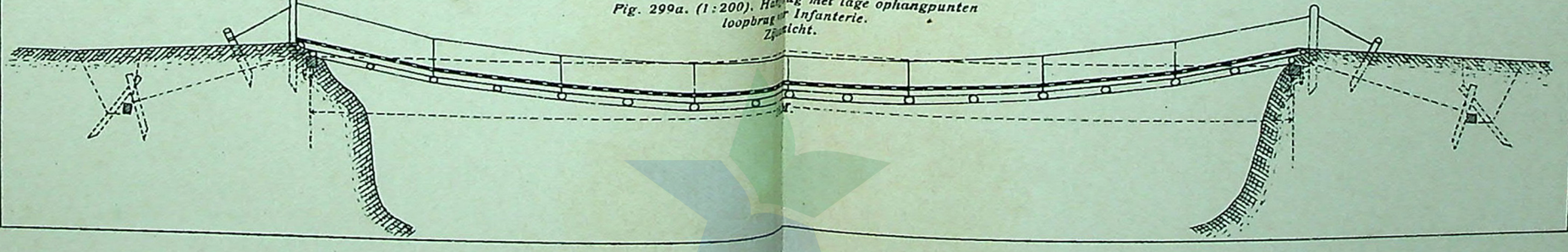


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Fig. 299b. Hangbrug met lage ophangpunten loopbrug voor Infanterie. Platte grond.

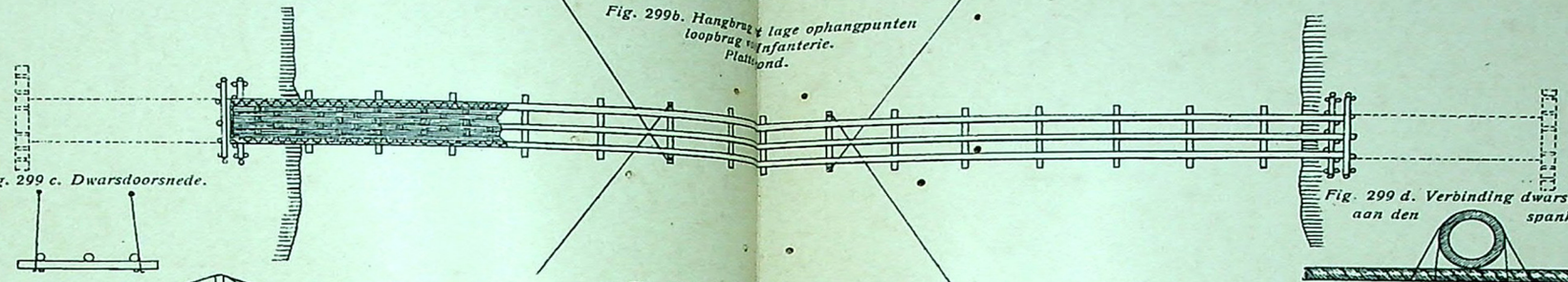


Fig. 299 c. Dwarsdoorsnede.

Fig. 299 d. Verbinding dwarsliggers aan den spankabel.

Fig. 300. (1:200). Hangbrug met verhoogde ophangpunten loopbrug voor Infanterie, Cavalerie en Berg-Artillerie. Zijzicht.

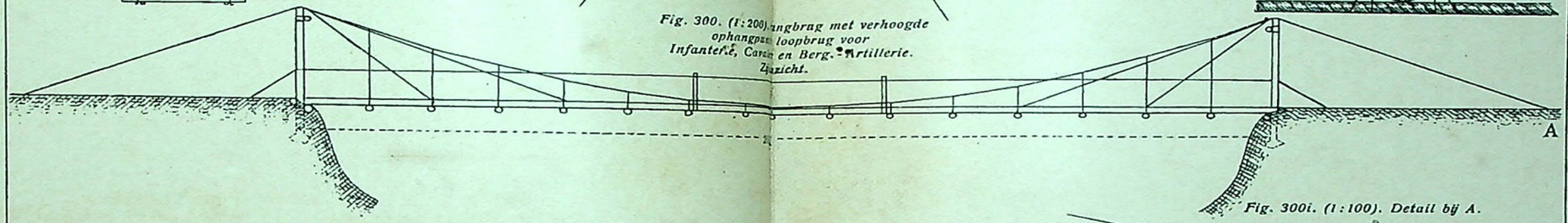


Fig. 300i. (1:100). Detail bij A.

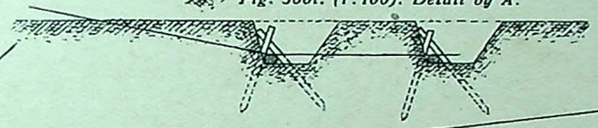


Fig. 300 Platte grond.

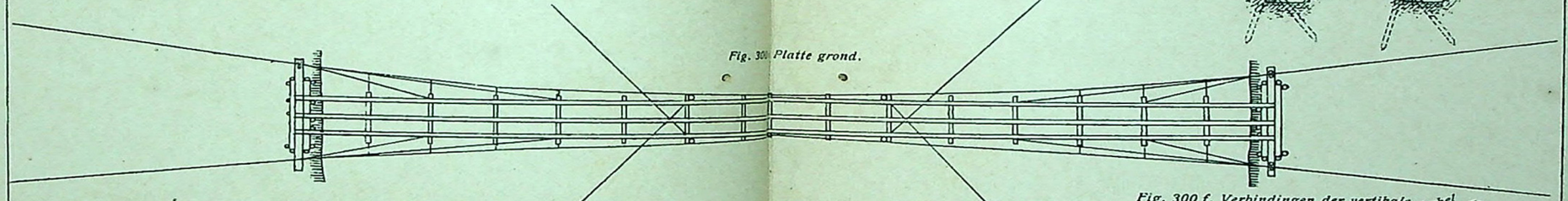


Fig. 300 f. Verbindingen der vertikale hangers.

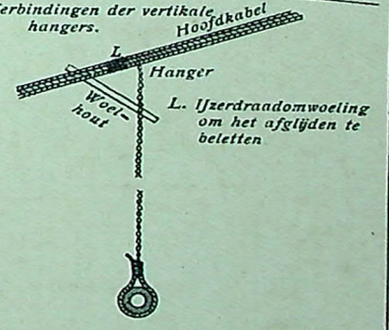


Fig. 300 c. Houten juk. (1:100).

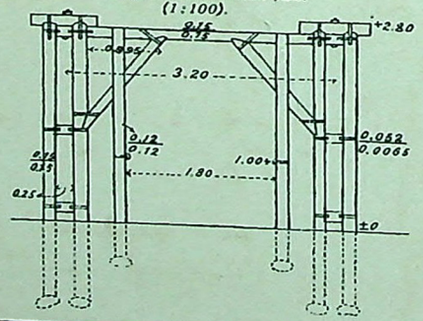
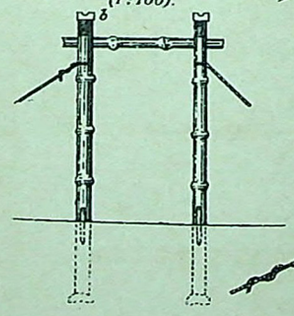


Fig. 300 d. Bamboe juk. (1:100).



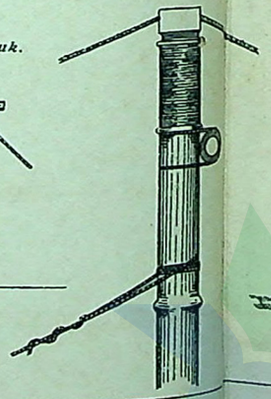


Fig. 300 e. Details bij b. (1:20).

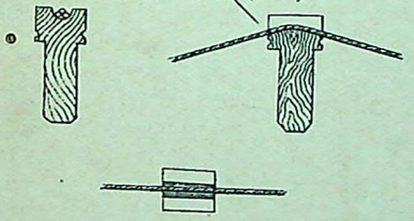
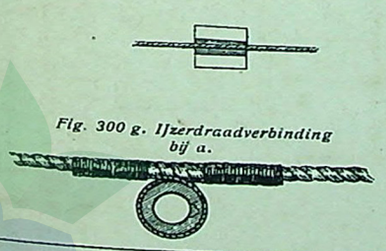


Fig. 300 g. IJzerdraadverbinding bij a.



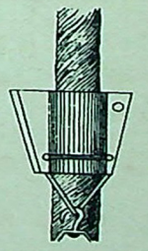


Fig. 300 h. Klembeugel.



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Fig. 301. (1:200). Pijler van korven.



Fig. 302. (1:100). Pijler van boomstammen of de

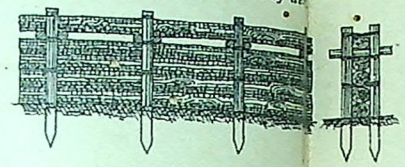


Fig. 303. (1:100). Pijler van kokers.

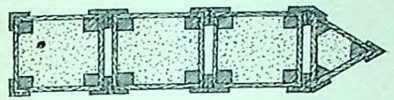


Fig. 304. (1:100). Pijler van houten platen.

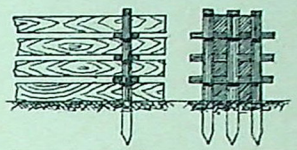
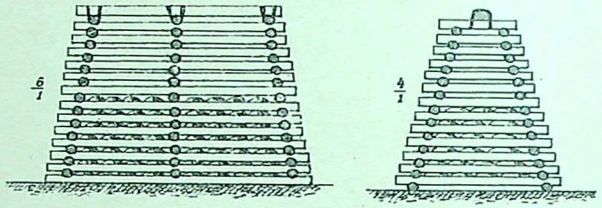


Fig. 305. Pijler van raamwerk. (1:200).



(1:20).

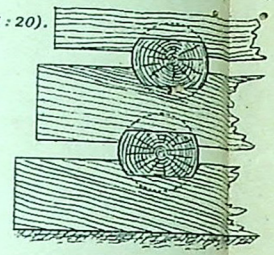
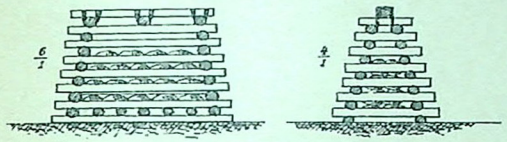
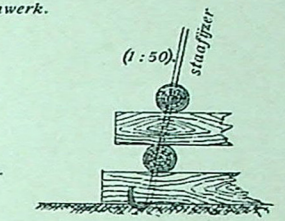


Fig. 306. Kleine pijler van raamwerk. (1:200).



(1:50).



(1:2000). Verwijderen van pontonbruggen.

Fig. 307. Met ankers bij zwakken stroom.

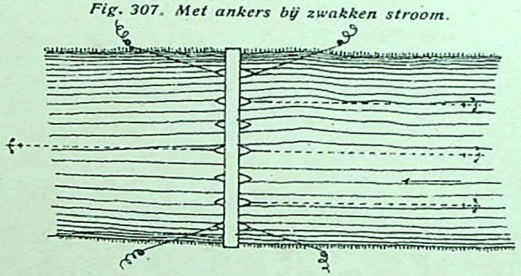


Fig. 308. Mankers bij sterken stroom.

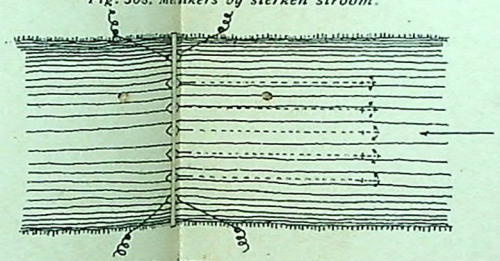
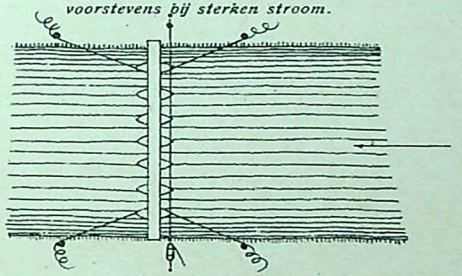


Fig. 309. Met spanreep over de voorstevens bij sterken stroom.



(1:2000). Verwijderen van pontonbruggen.

Fig. 310. (1:2000). Met spanreep vóór en boven de voorstevens, bij sterken stroom.

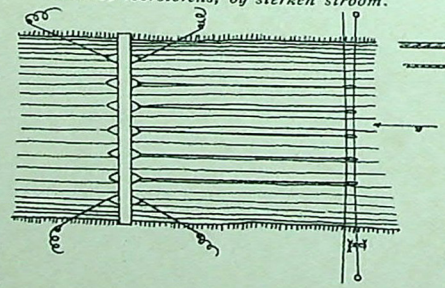


Fig. 310a. (1:100). Spanreep met verplaatsbare ankertouwen.

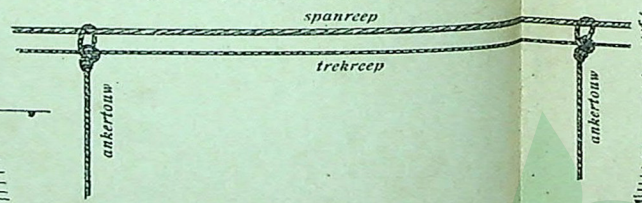


Fig. 311. (1:2000). Aan palen in de rivier, bij zwakken stroom.

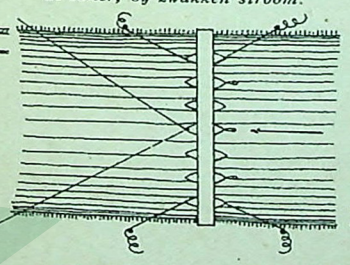


Fig. 312. (1:2000). Aan palen of boomen op den oever bij sterken stroom.

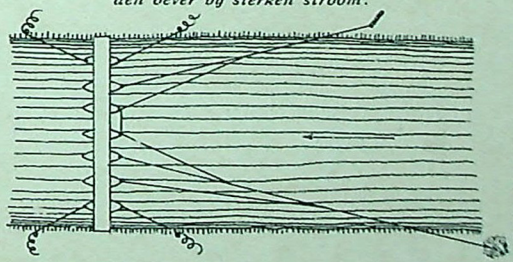


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Fig. 313. (1:500). Begin van het slaan eener pontonbrug, pontonsgewijze.

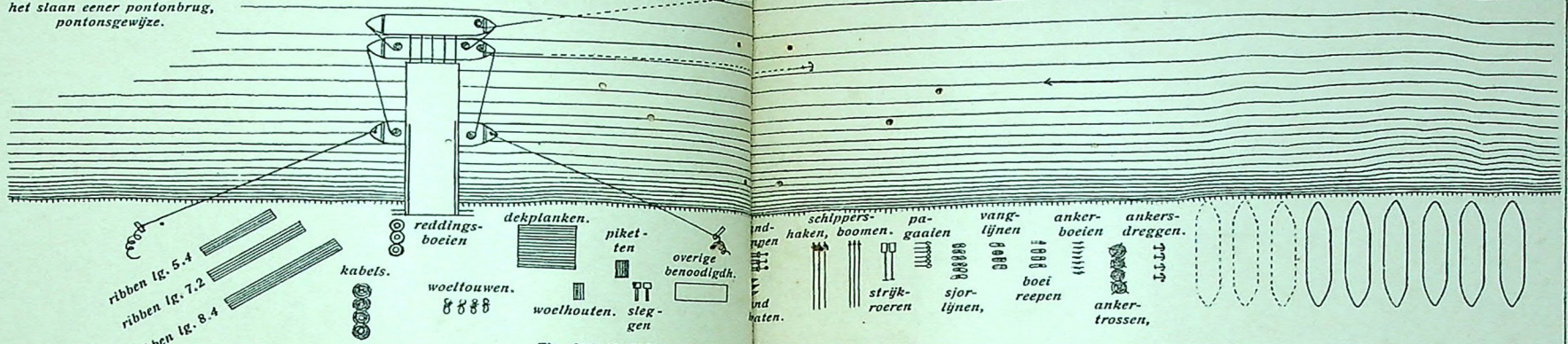

Fig. 314. Vastleggen van den boeireep aan een anker.

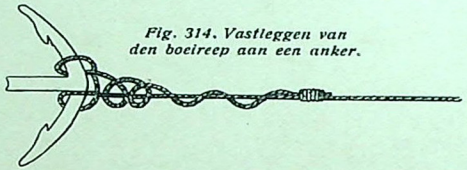

Fig. 316. (1:500). Pontonbrug met voorankerbalk.

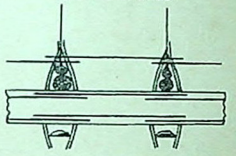

Fig. 317. (1:500). Pontbrug met voor- en achterankerbalk.

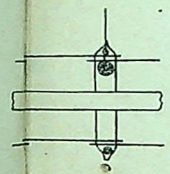

Fig. 318. (1:500). Brugvak.

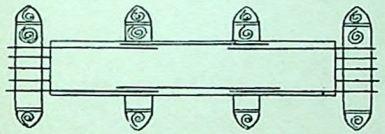

Fig. 319. (1:500). Doorlaat.

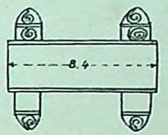

Fig. 315. (1:200). Gee pontonbrug. Vaklengte M.

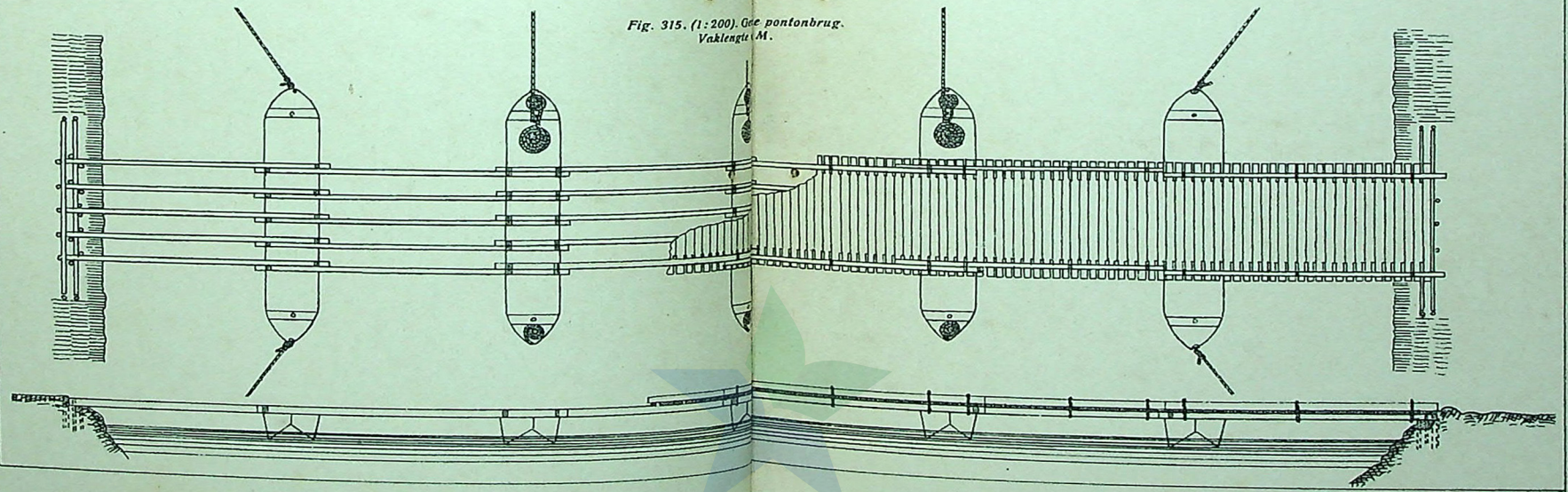

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Fig. 320. (1 : 200).
Doorlaat op zijde gezien.

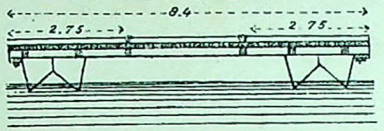

Fig. 321. (1 : 50). Strijkplaten van een doorlaat.

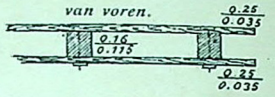

Fig. 322. (1 : 500). Halve doorlaat.

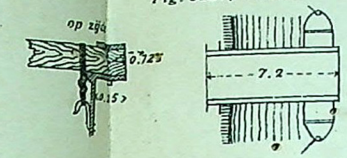

Fig. 323. (1 : 200). Halve doorlaat op zijde gezien.

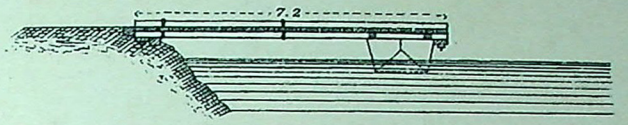

Fig. 324. (1 : 500). Pontonbrug bestaande uit doorlaten.

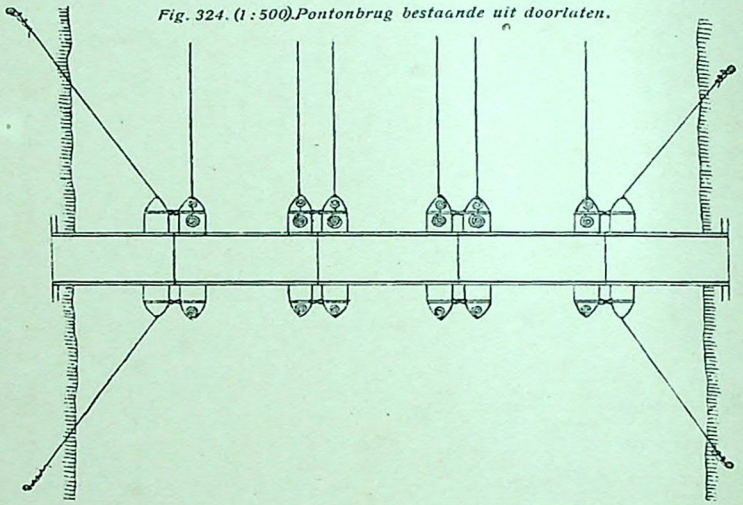

Fig. 325. (1 : 100). Verbinding der doorlaten.

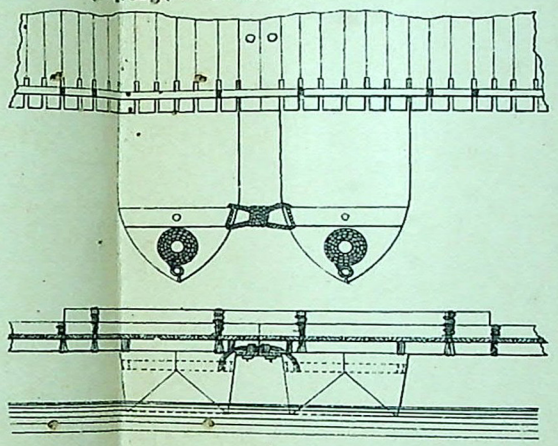

Fig. 326. (1 : 1000). Gewone pontonbrug met doorlaat.

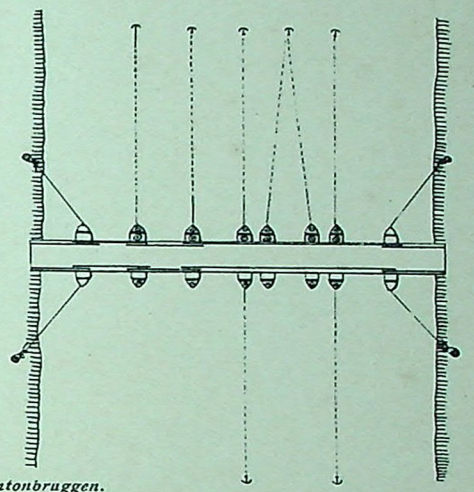

Fig. 331. (1 : 200). Hoofd eener pontonbrug bij flauw afloopende oevers.

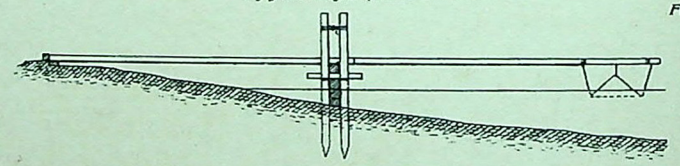

Fig. 330. (1 : 500). Vergrating der doorstroomingsopening. Afstand pontons 8 M.



Fig. 329. Versterkte doorlaat. (1 : 500). Versterking van pontonbruggen.

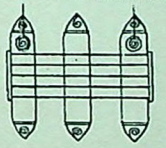

Fig. 328. Afstand pontons 3.25 M.

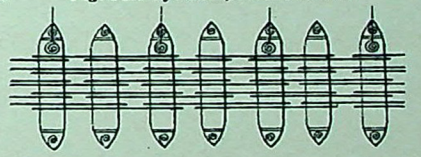

Fig. 332. (1 : 100). Hoofd eener pontonbrug bestaande uit doorlaten, bij zeer afwisselenden waterstand.

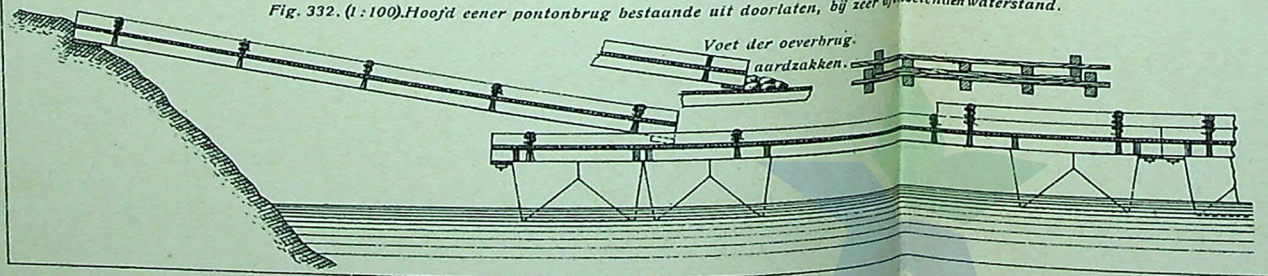

Fig. 327. Afstand pontons 4.2 M.

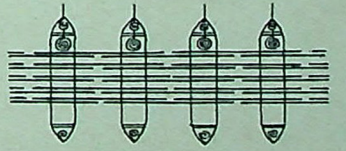

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Fig. 333.(1:200). Vastmaken der liggers aan smalle vaartuigen.

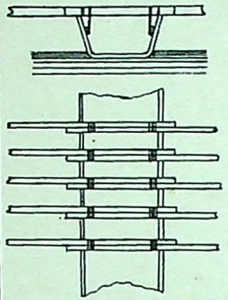
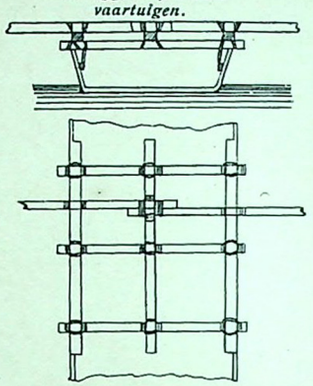


Fig. 334 (1:200). Vastmaken der liggers op breede vaartuigen.



(1:200). Verhoogen van te lage vaartuigen.

Fig. 335. Fig. 336.

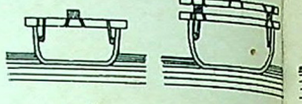
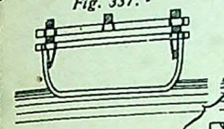


Fig. 337.



(1:200). Inrichting der vaartuigen bij te zwakke boorden.

Fig. 338. Fig. 339. Fig. 340.

Fig. 341.(1:1000). Doorlaat in een schipbrug.

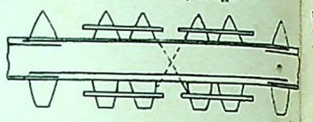


Fig. 342.(1:200). Vlotbrug van bamboe, voor bergartillerie. Ieder vlot bestaat uit 7 bossen groote bamboe.

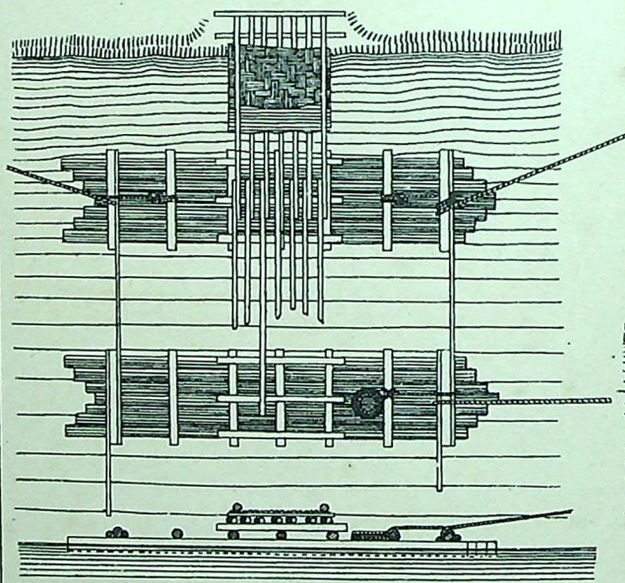


Fig. 343.(1:200). Vlot bestaande uit 3 groote bossen groote of middelsoort bamboe. Verankering door middel van palen.

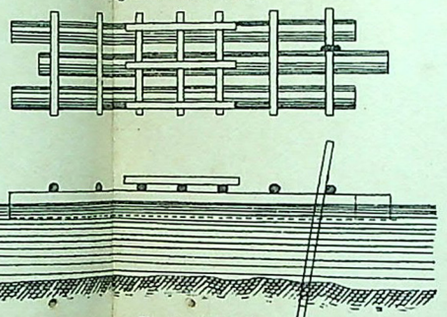


Fig. 345.(1:200). Vlotbrug voor artillerie. Vlot van 7 boomstammen.

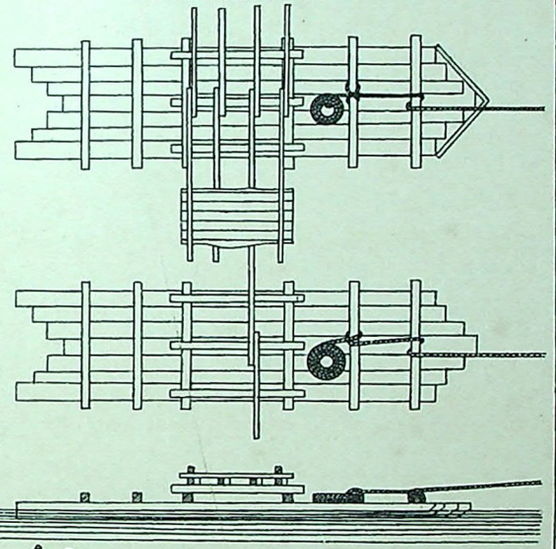


Fig. 346.(1:200). Loopbrug op een vlot.

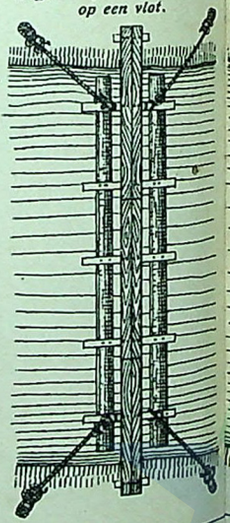


Fig. 347.(1:200). Maken van een vlot als in Fig. 346 maar van kortere stammen.

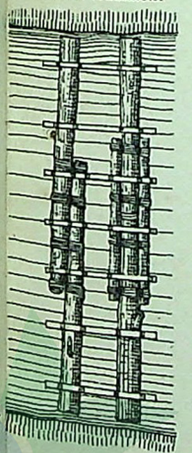


Fig. 348.(1:1000). Loopbrug bestaande uit een boom.

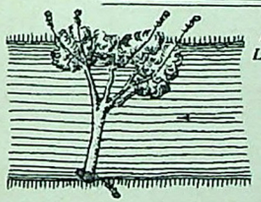


Fig. 349(1:1000). Loopbrug bestaande uit twee boomen.

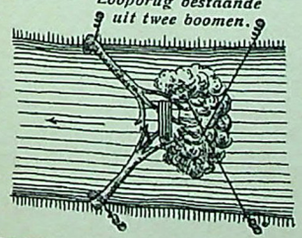


Fig. 350.(1:300). Enkele tonbrug.

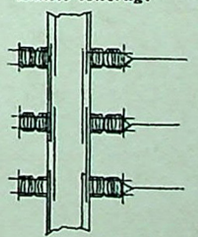


Fig. 351.(1:300). Dubbele tonbrug.

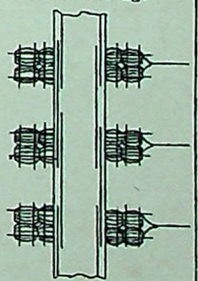


Fig. 344.(1:200). Vlot bestaande uit 2 groote bossen bamboe.

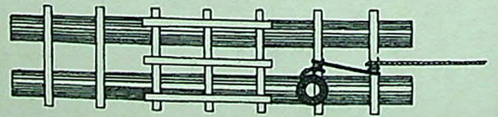


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Fig. 352. Seingever Mangin.

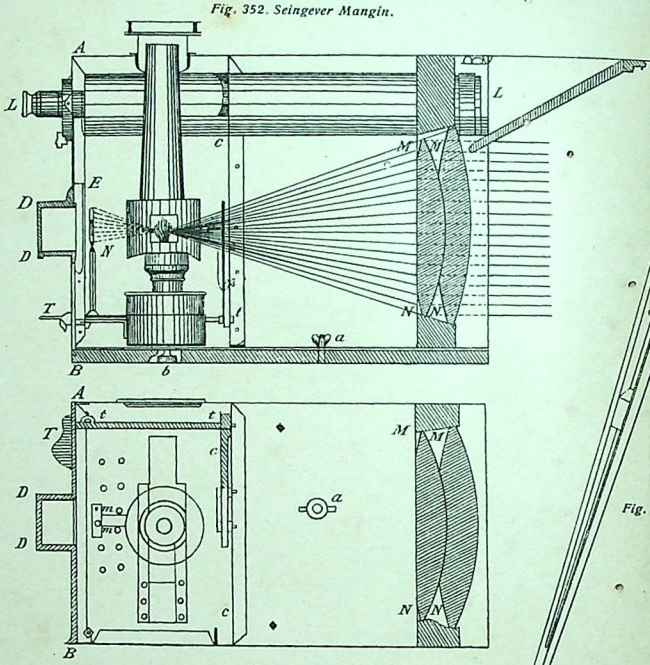


Fig. 354. Drievoet voor seingever Mangin.

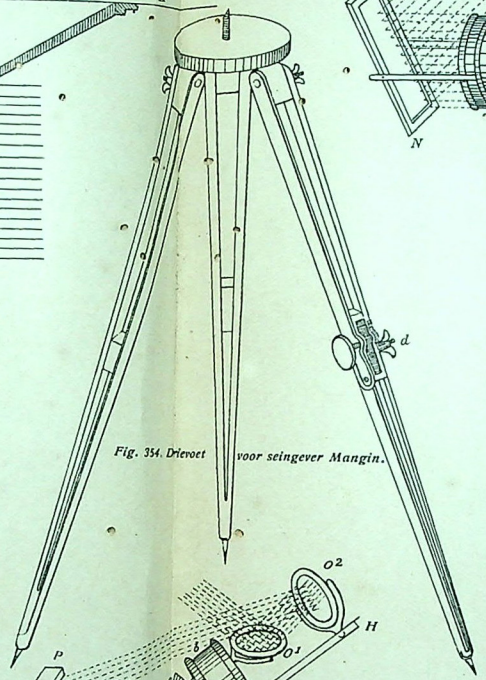
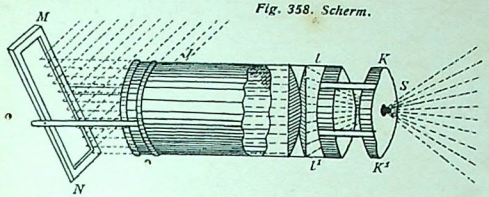


Fig. 358. Scherm.



356. Regelingsbuis.

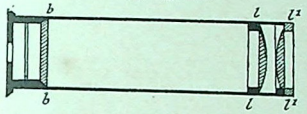


Fig. 357. Oculairbuis.

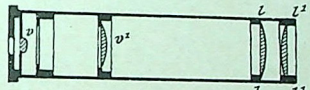


Fig. 355. Oculair van den seinontvanger Mangin.

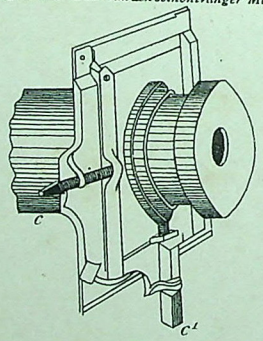


Fig. 359. Heliostaat.

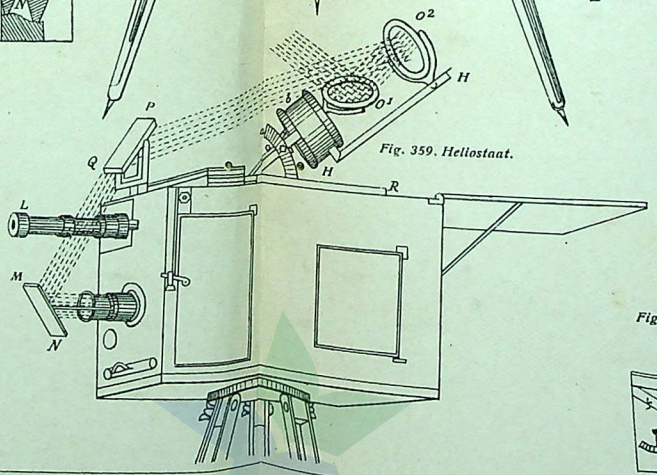


Fig. 353. Scherm.

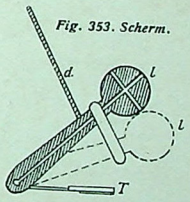
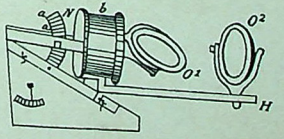


Fig. 360. Gebruik van de heliostaat.



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Kist voor den Mangin toestel.

Fig. 362

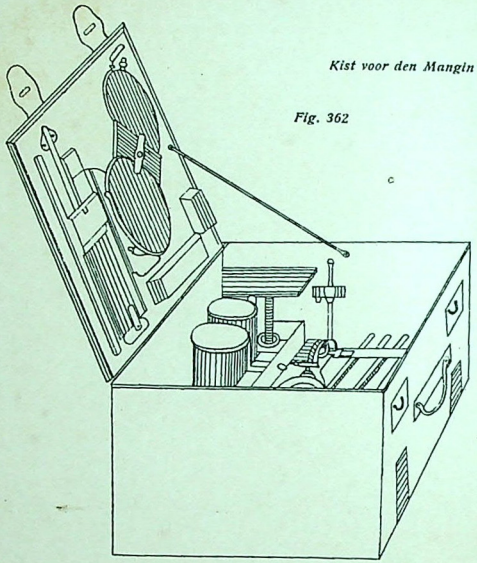


Fig. 361.

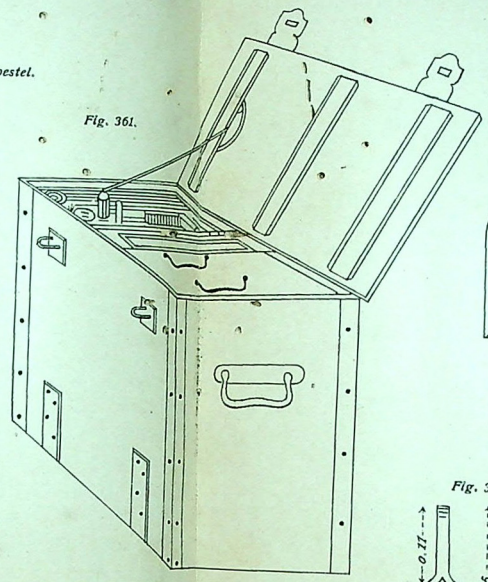
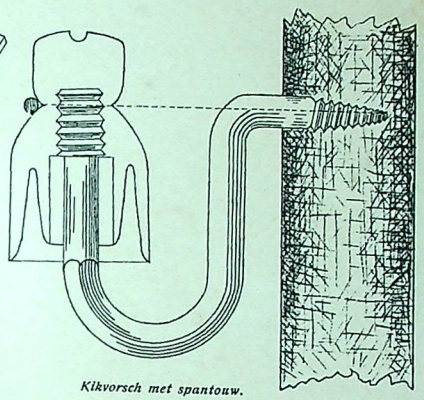


Fig. 367. Dubbel klokvormige isolator met haakstang.



Kikvorsch met spantouw.

Fig. 363. (1:5).
Kikvorsch met spantouw.

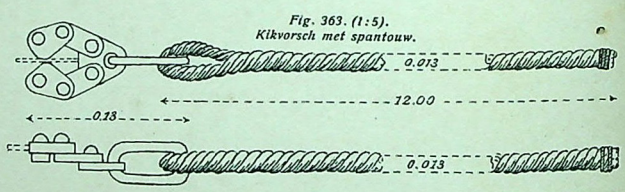


Fig. 364.

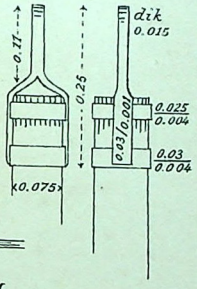


Fig. 365.

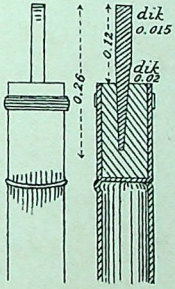


Fig. 366.

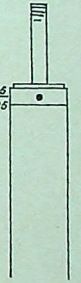


Fig. 370. Afhechting.

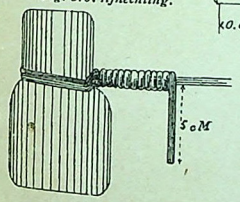


Fig. 371. Losse kopverbinding.

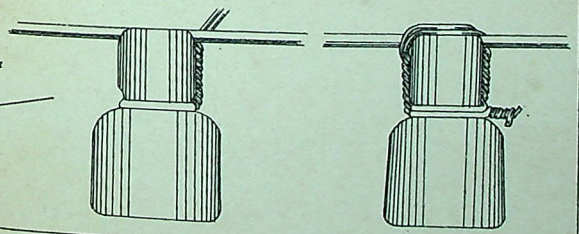


Fig. 372 Vaste kopverbinding.

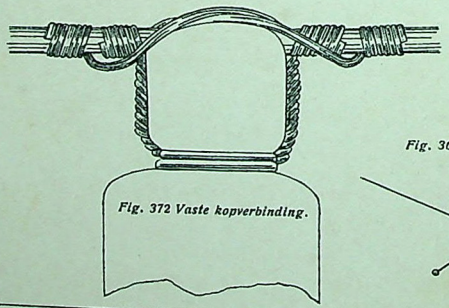


Fig. 368. Schoren bij hoeken kleiner dan 135°.



Fig. 369. Schoren bij hoeken grooter dan 135°.

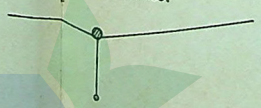


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Fig. 373 Losse zijverbinding.

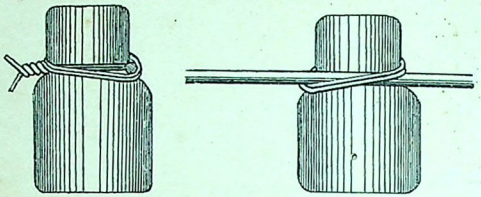


Fig. 374 Vaste zijverbinding.

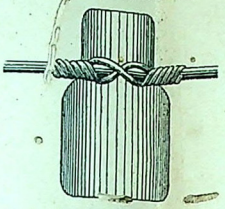


Fig. 375 Hanklasch.

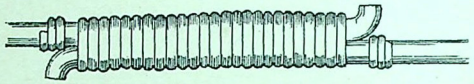


Fig. 376 Vingerlasch.



Fig. 377 Kabelklem.

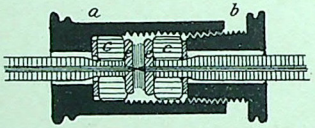


Fig. 378 Kabeltransel met rol kabel.

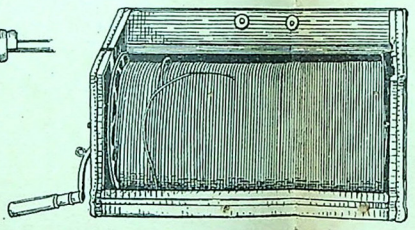


Fig. 379 Ordonnanstoestel.

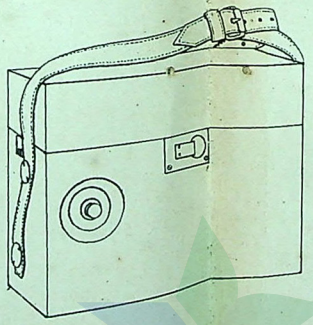


Fig. 380 Ordonnanstoestel open.

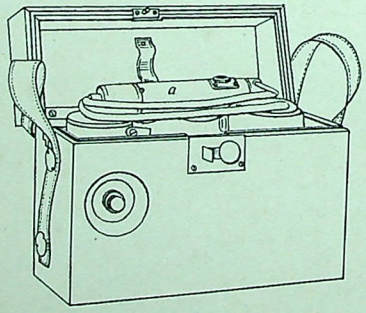


Fig. 381 Ordonnanstoestel gereed voor het gebruik.

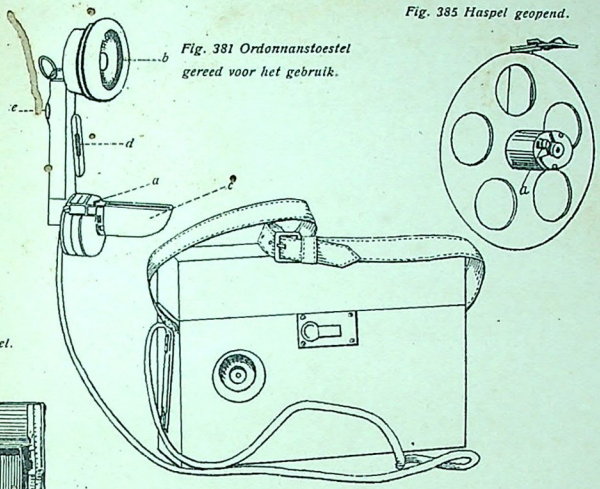


Fig. 382 Haspel met rol kabel.

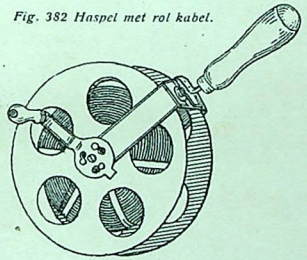


Fig. 383 Handvat

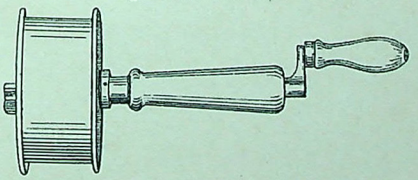


Fig. 384. Zwengel



Fig. 385 Haspel geopend.

Fig. 386 Rol cavaleriedraad.



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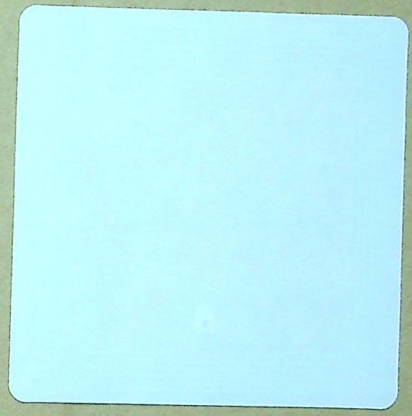

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