



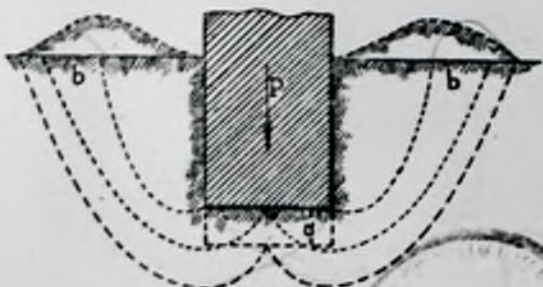
ALBUM
rysunków do kursu
FUNDAMENTOWANIA
według wykładów
prof. J. FEDOROWICZA

Nakładem Koła Inżynierji Lądowej
Studentów Politechniki Warszawskiej
Warszawa rok 1932

1.2.18130

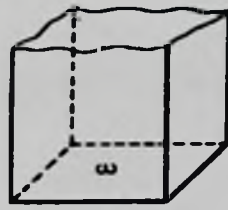
B.3466

I. zasady ogólne

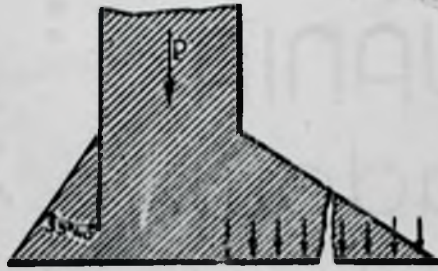
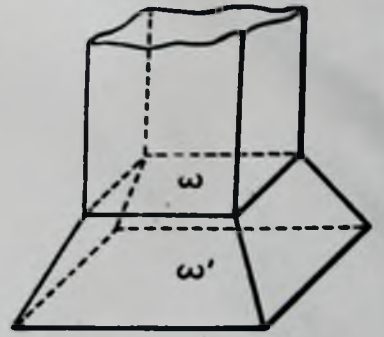


RYS.1

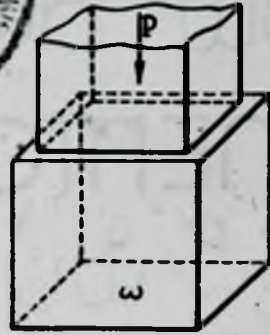
a - osiadanie gruntu
b - usuwanie się gruntu



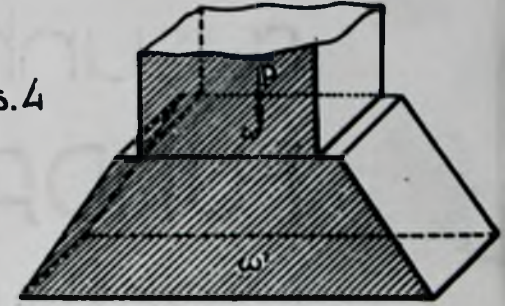
RYS.2



RYS.3

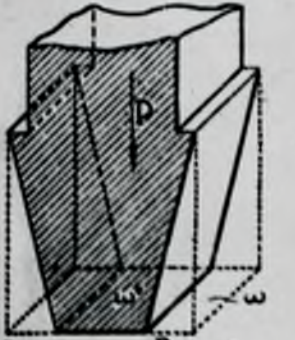


RYS.4



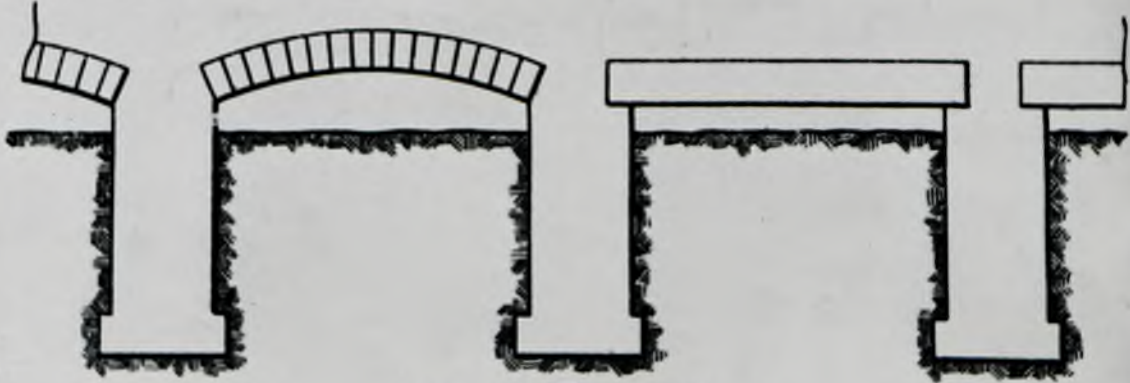
$$\frac{P}{\omega} - p < q \quad \frac{P}{\omega'} - p' - q$$

$$\frac{P}{\omega} - p = q$$

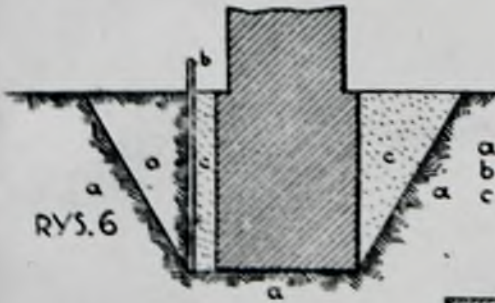


$$\frac{P}{\omega} - p > q \quad \frac{P}{\omega'} - p' - q$$

RYS.5a

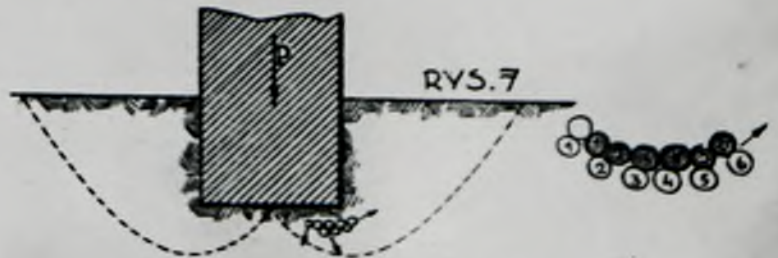


RYS.5b $\frac{P}{\omega'} - p' = q$

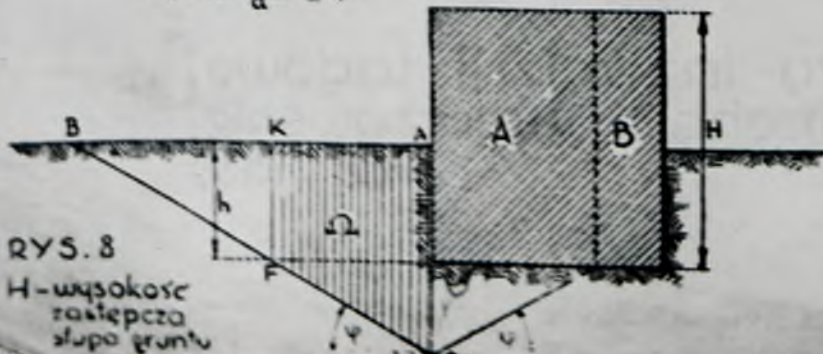


RYS.6

a - elina
b - deski
c - piasek żużel lub żyz



RYS.7



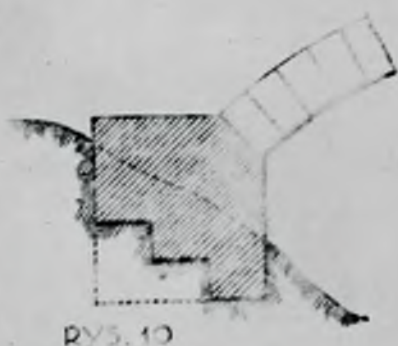
RYS.8

H - wysokość wystająca słupa gruntu

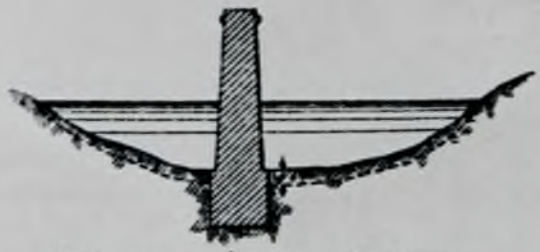


RYS.9

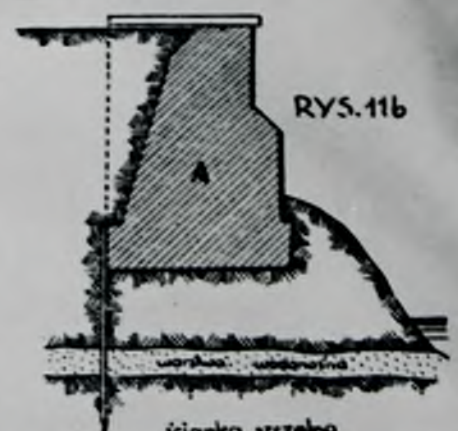
A - budowa
B - skafa
C - warstwa wodonośna/piasek, żwirak, glina z piaskiem



RYS. 10



RYS. 11a h-wymycie dna



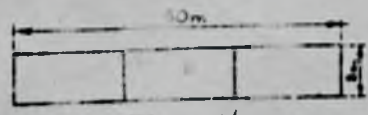
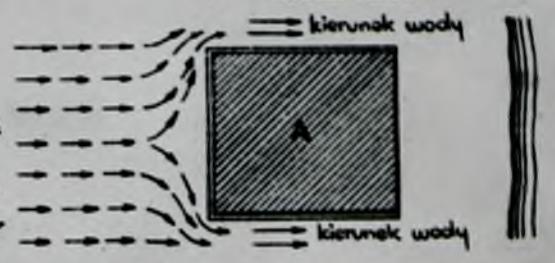
RYS. 11b



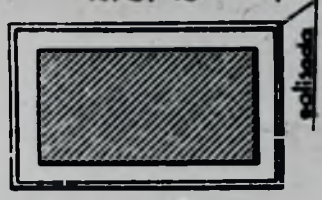
RYS. 12



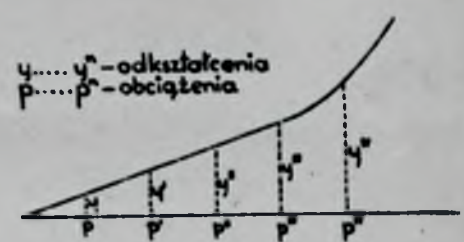
RYS. 13



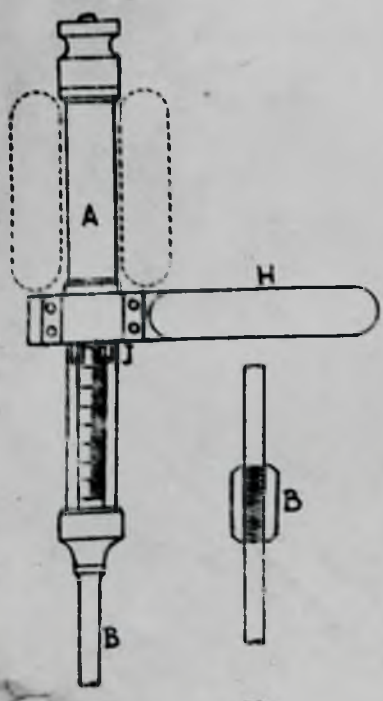
RYS. 14



RYS. 16



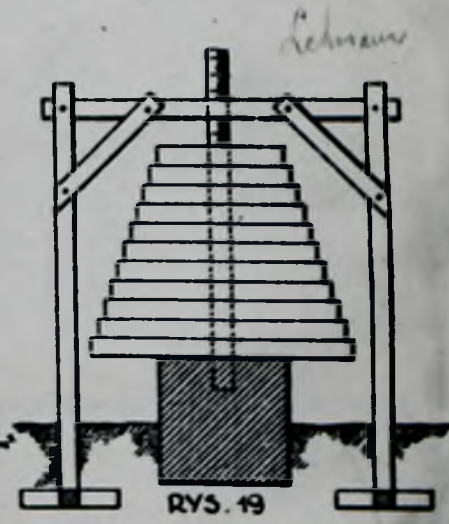
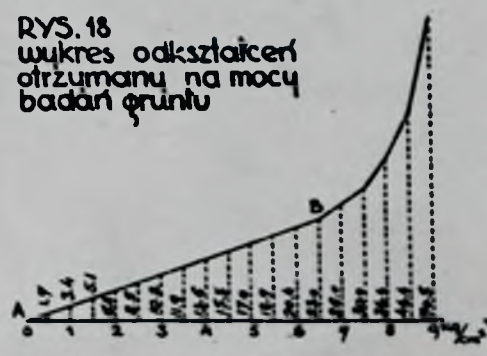
RYS. 15



RYS. 17



RYS. 18 wykres odkształceń otrzymany na mocy badań gruntu

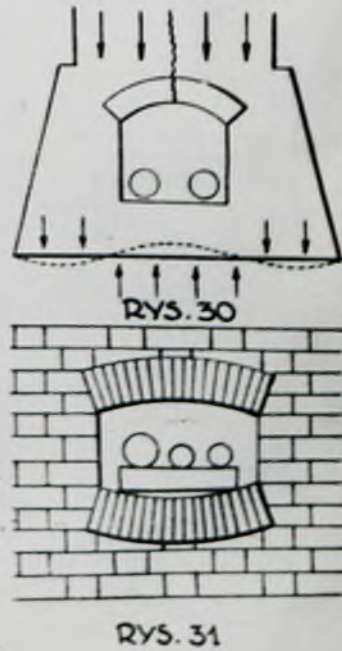
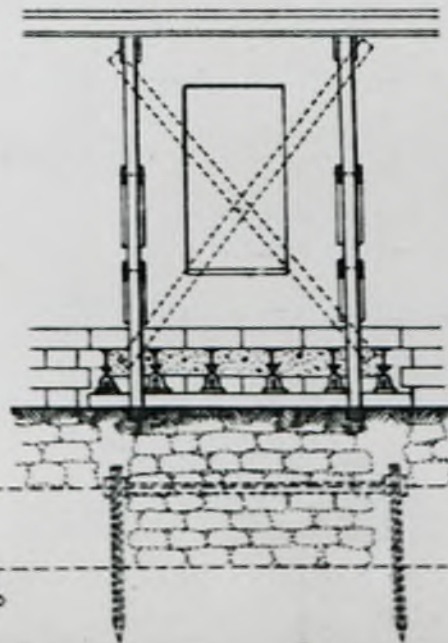
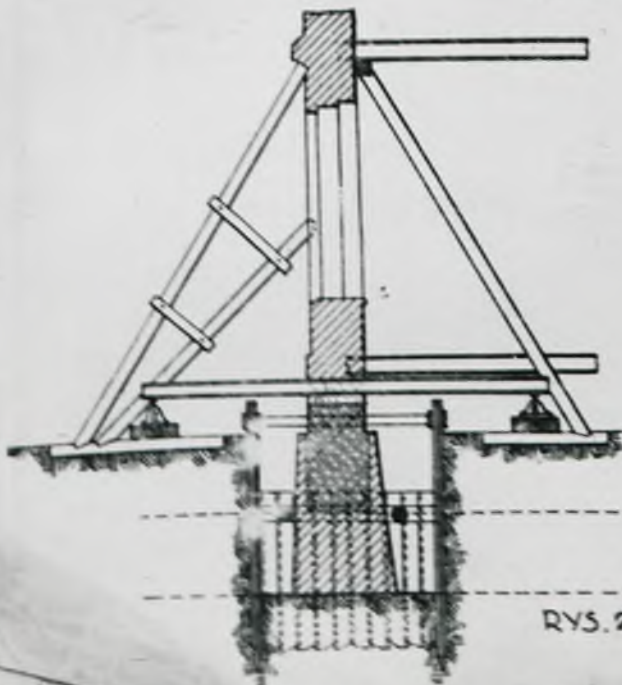
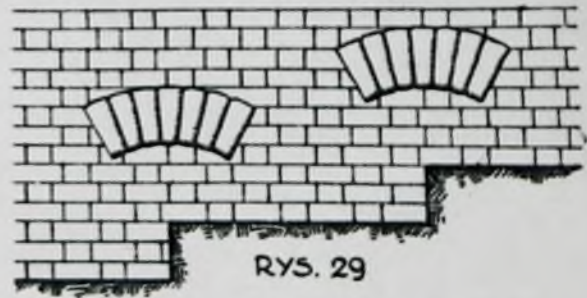
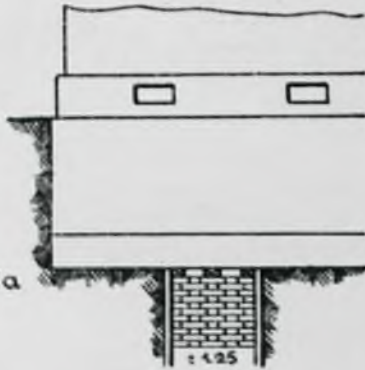
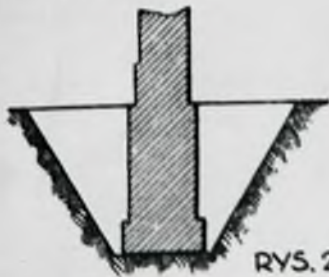
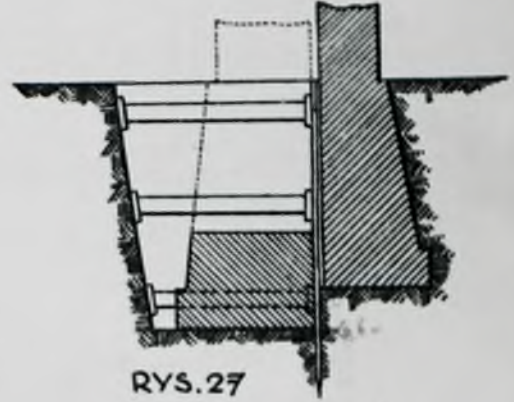
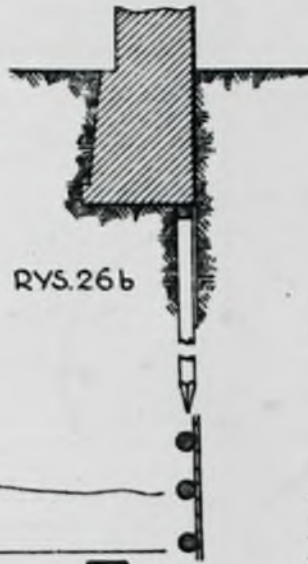
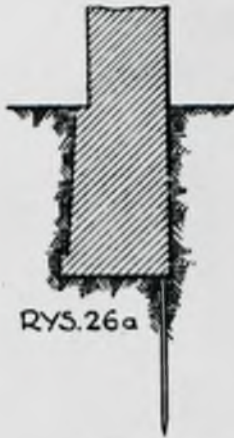
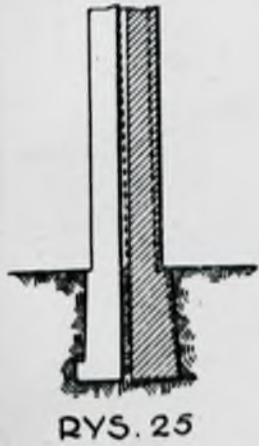
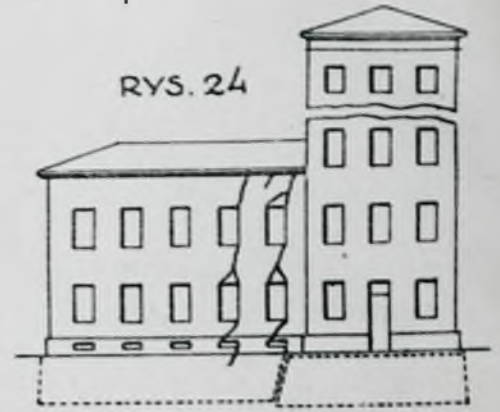
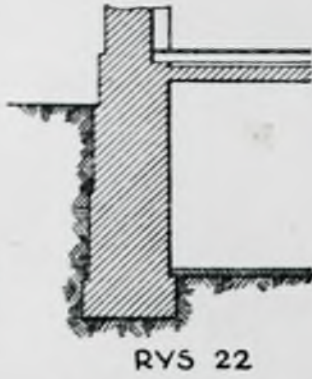
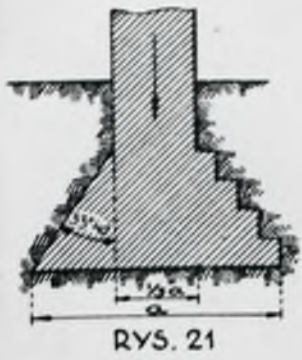


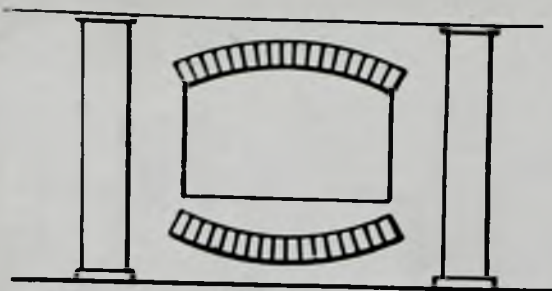
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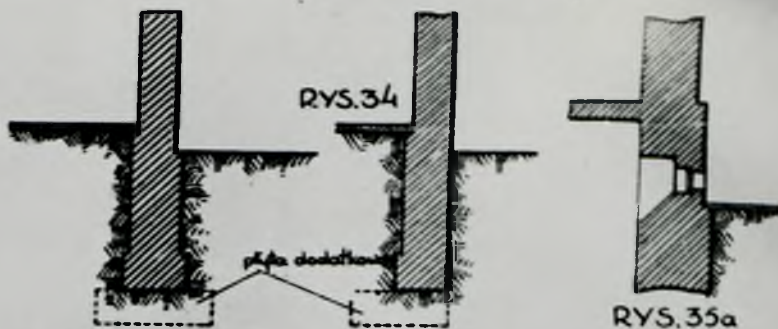
RYS. 20

II. fundamenty budynków





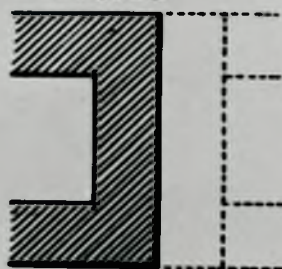
RYS. 32



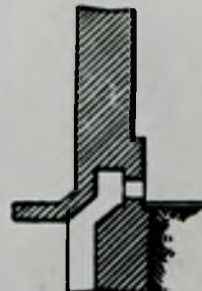
RYS. 34

RYS. 35a

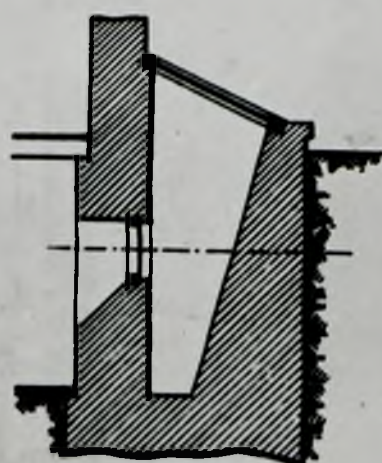
RYS. 33



RYS. 35b



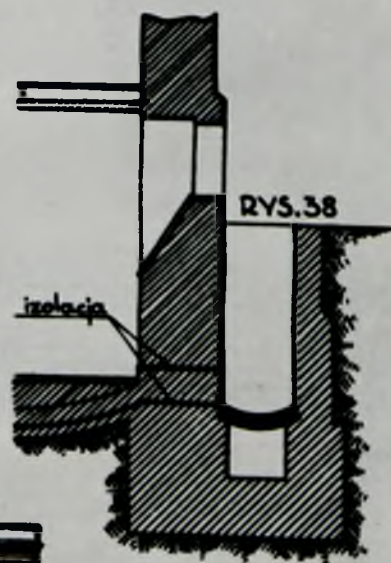
RYS. 35c



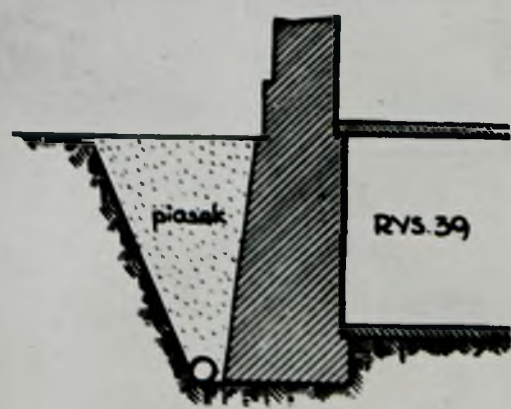
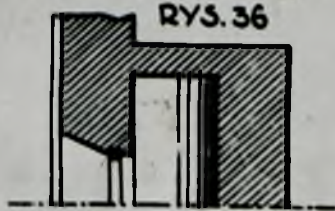
RYS. 36



RYS. 37



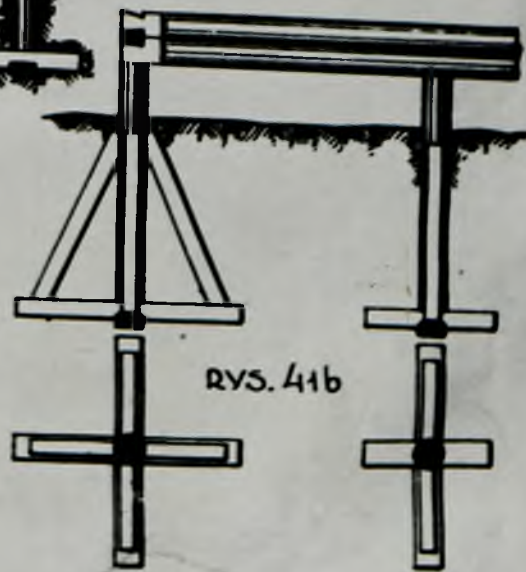
RYS. 38



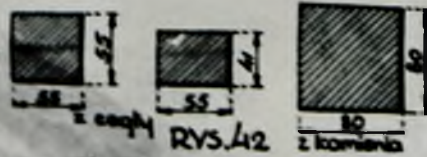
RYS. 39



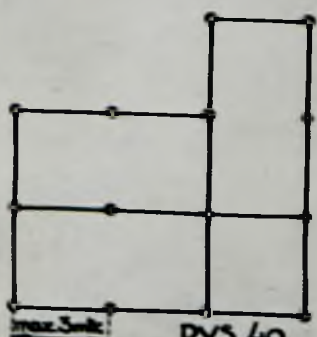
RYS. 41a



RYS. 41b



RYS. 42

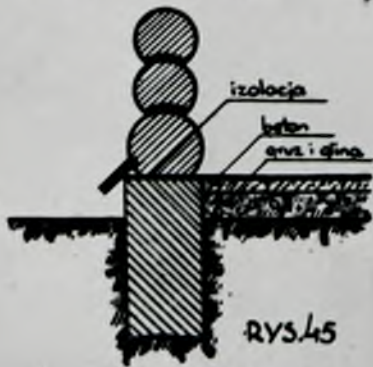


RYS. 40

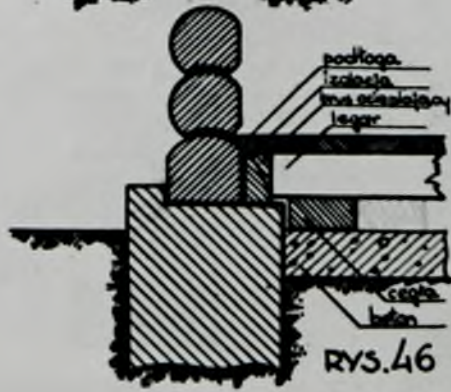


RYS. 43

RYS. 44

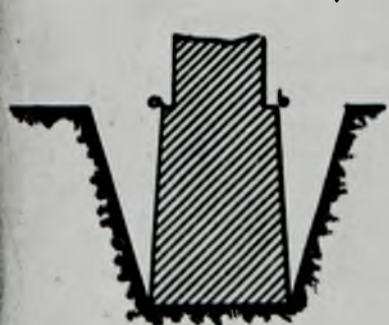


RYS. 45

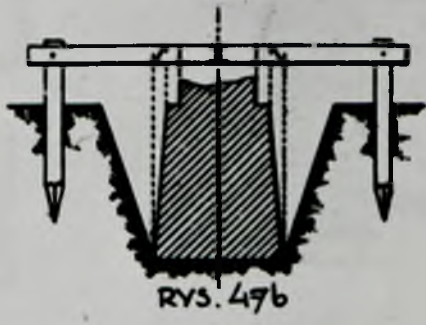


RYS. 46

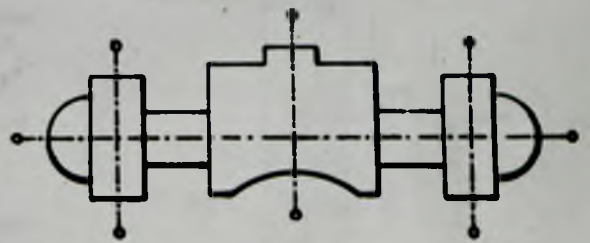
III. wyznaczanie robot.



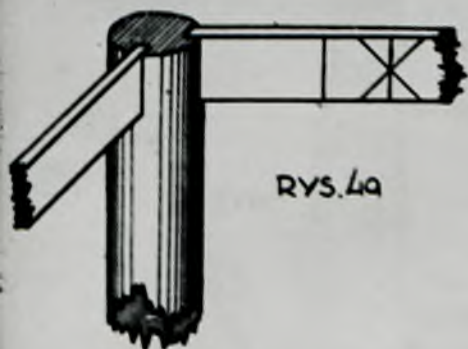
RYS. 47a



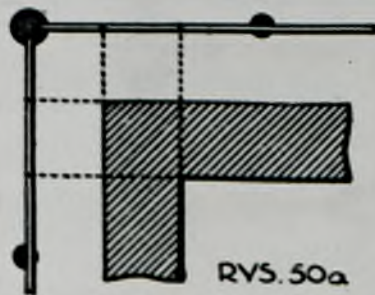
RYS. 47b



RYS. 48



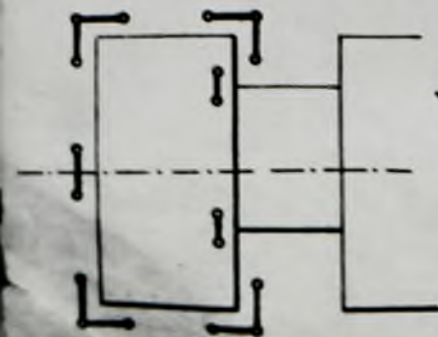
RYS. 49a



RYS. 50a



RYS. 50b



RYS. 51

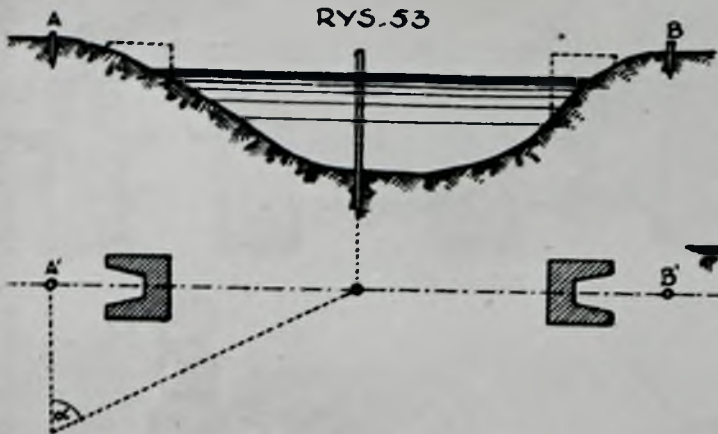


RYS. 52a

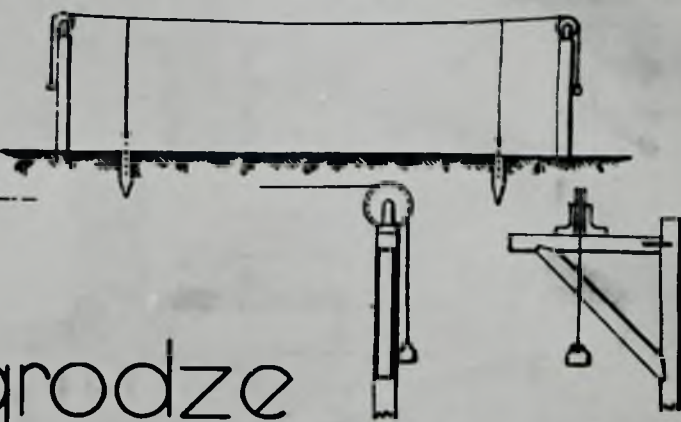


RYS. 52b

RYS. 53



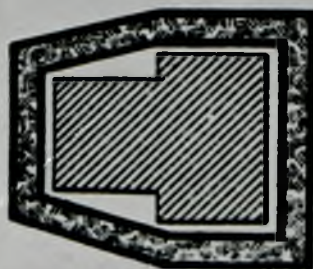
RYS. 54a



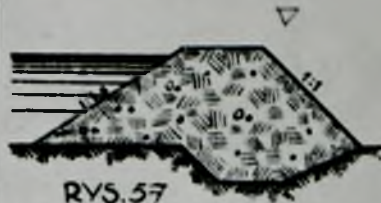
IV. grodze



RYS. 55



RYS. 56



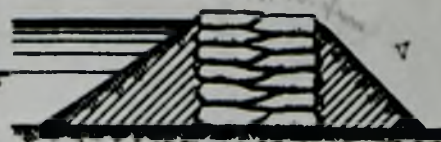
RYS. 57



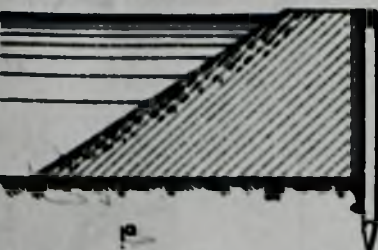
RYS. 58



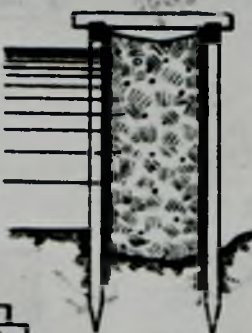
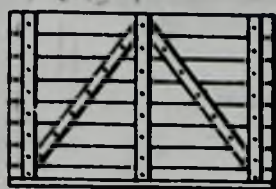
RYS. 59



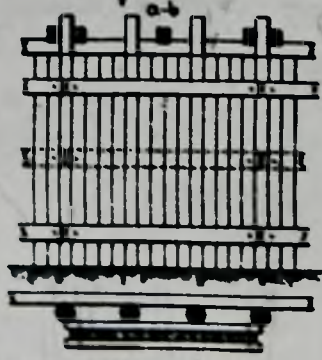
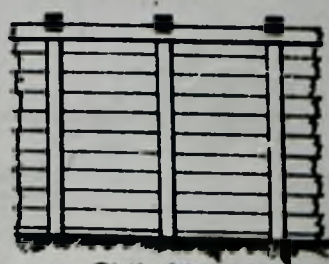
RYS. 60



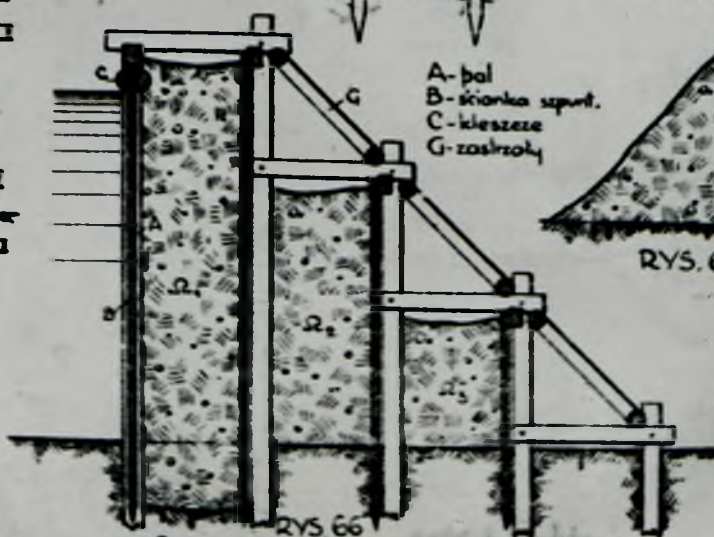
RYS. 61



RYS. 62

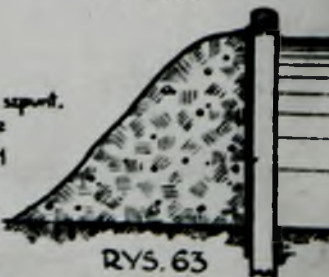


RYS. 64

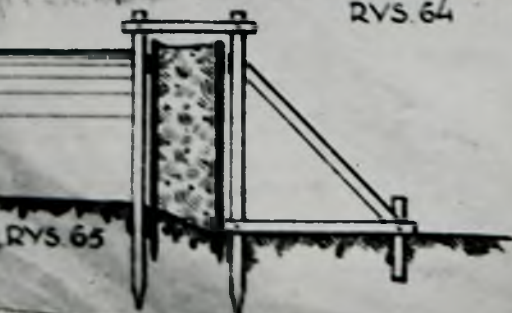


A - bal
 B - ścianka szpurt.
 C - kieszenie
 G - żaluzja

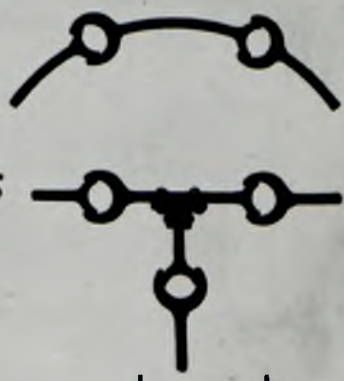
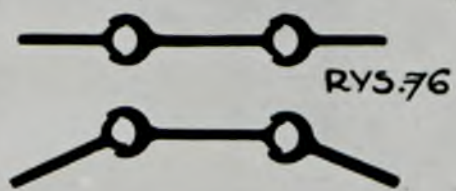
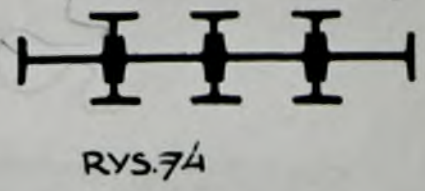
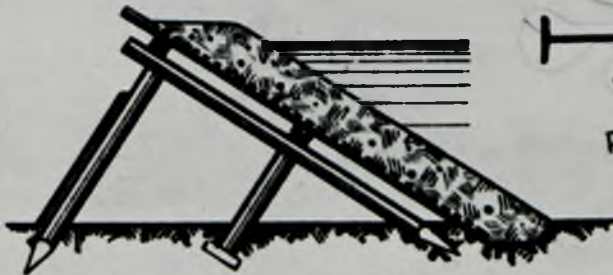
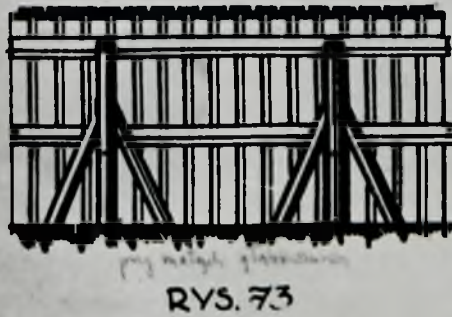
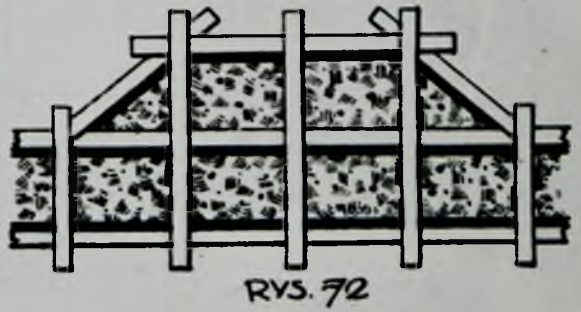
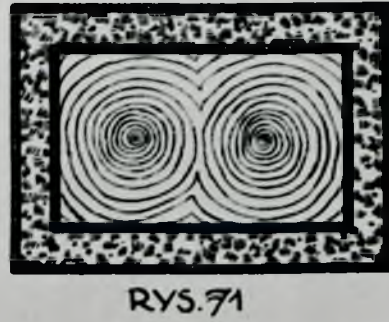
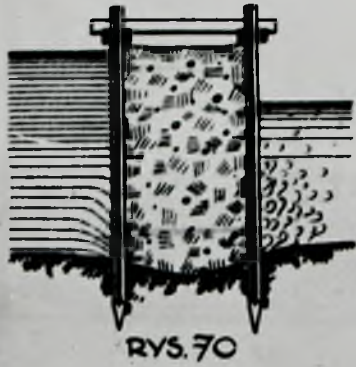
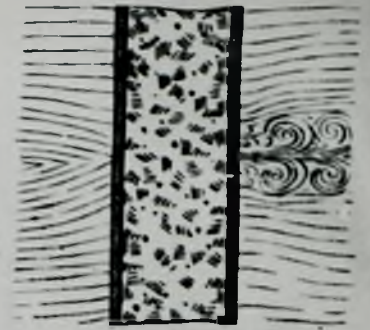
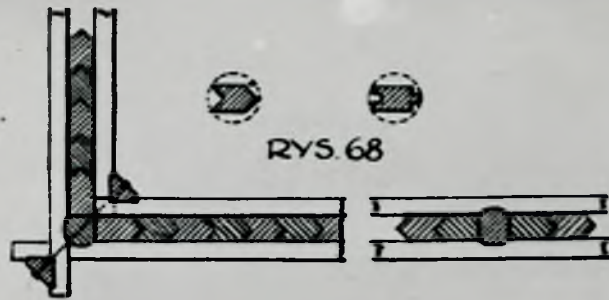
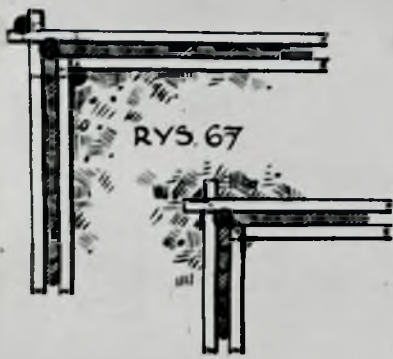
RYS. 66



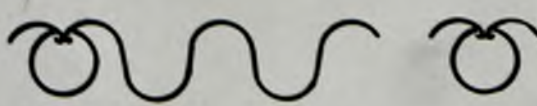
RYS. 63



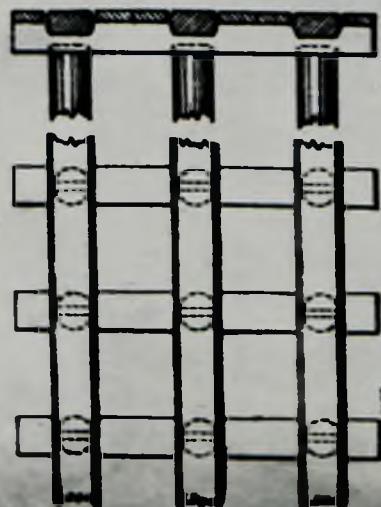
RYS. 65



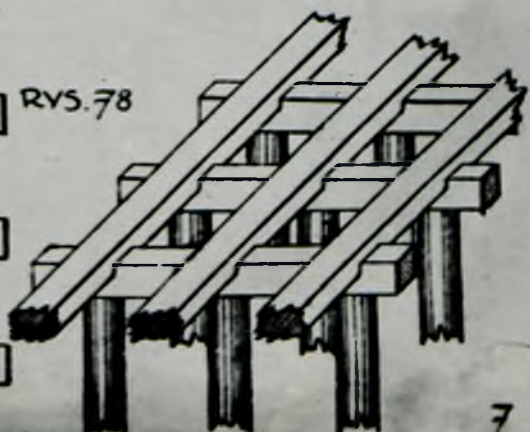
v.rusztę na palach

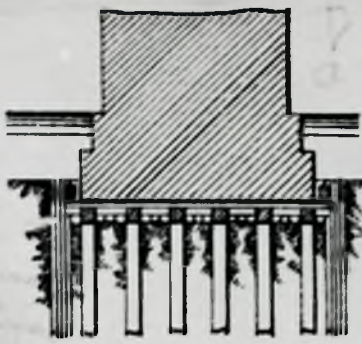


RYS. 77

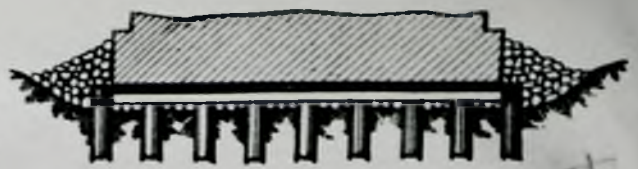
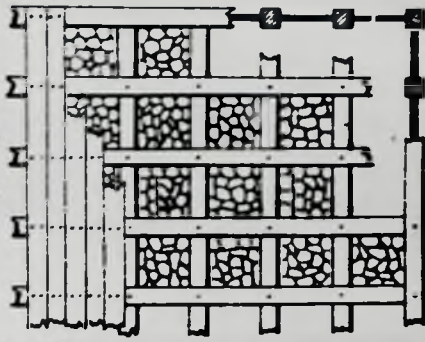


RYS. 78

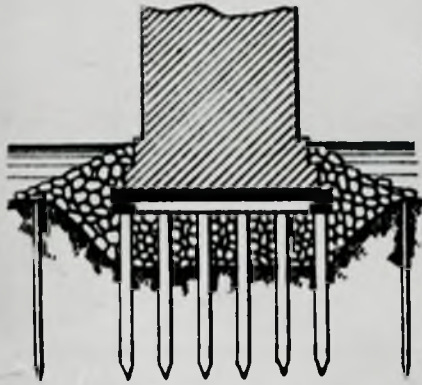
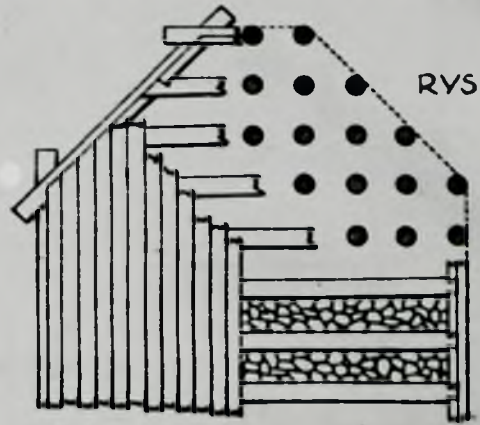




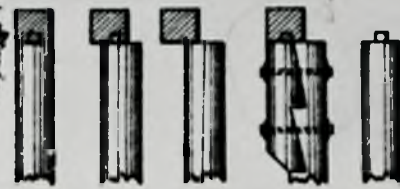
RYS. 79



RYS. 80



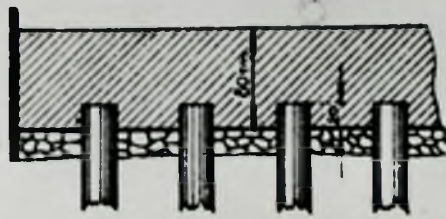
RYS. 81



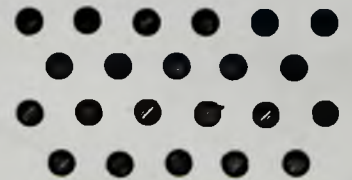
RYS. 82



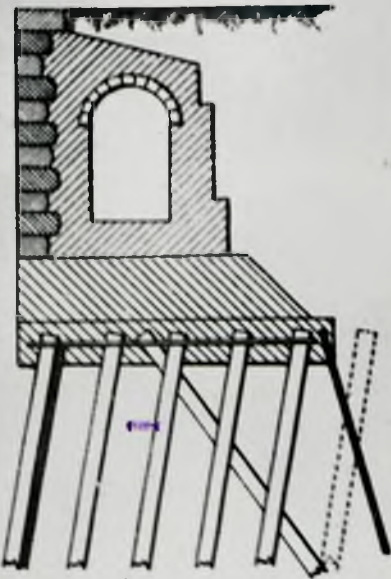
RYS. 83



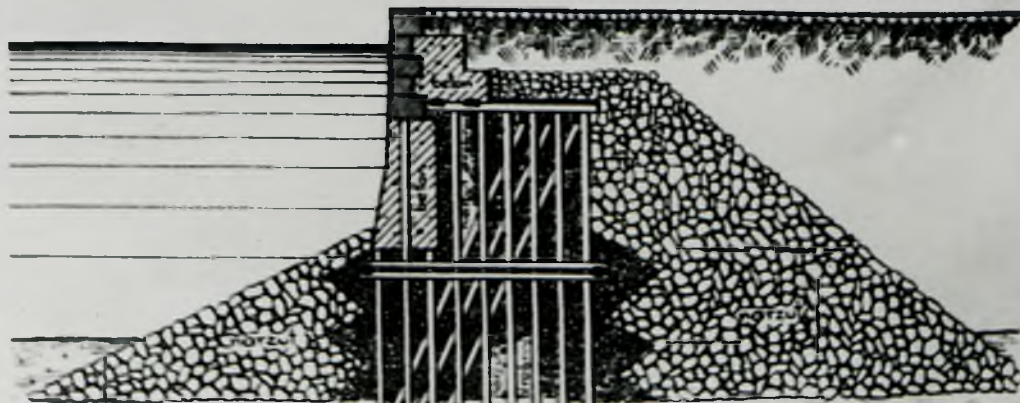
RYS. 85



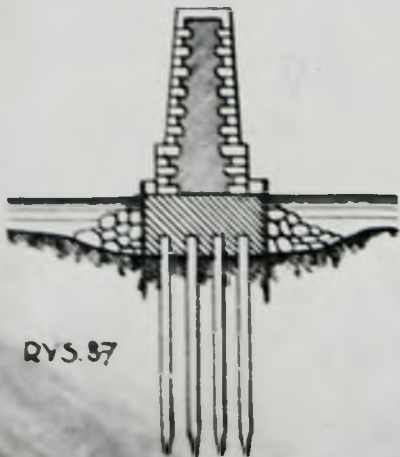
RYS. 86



RYS. 84

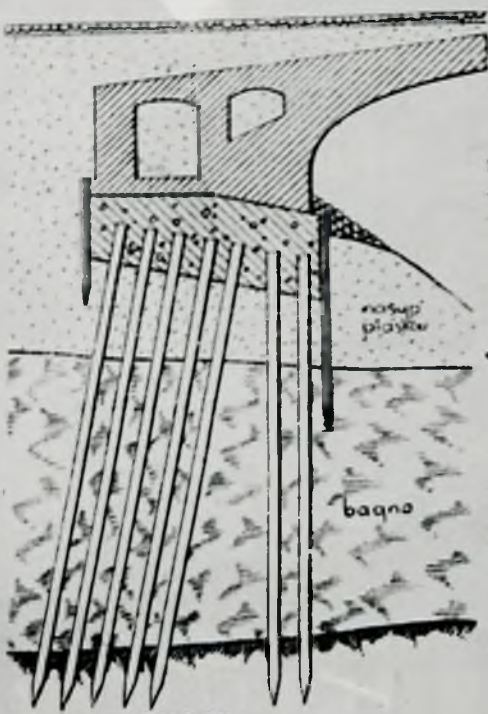


RYS. 89

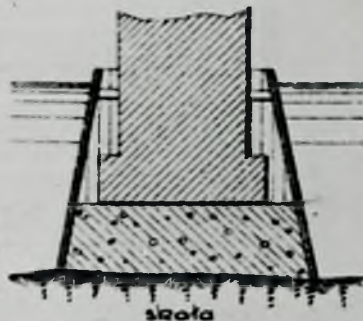


RYS. 87

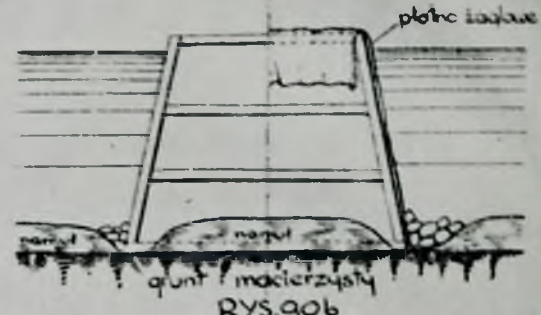
VI. szczytnie bez dna



RYS. 89



RYS. 90a



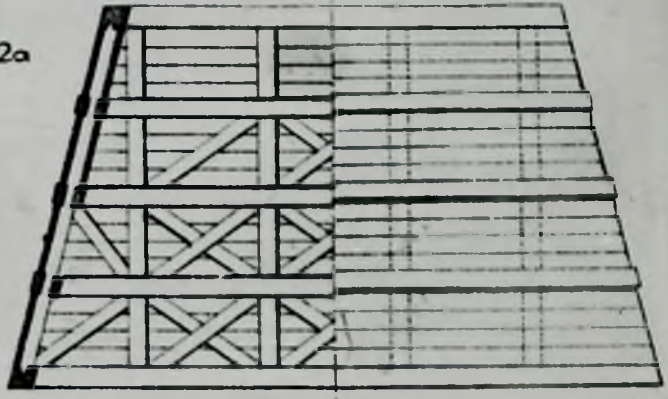
RYS. 90b



RYS. 92a



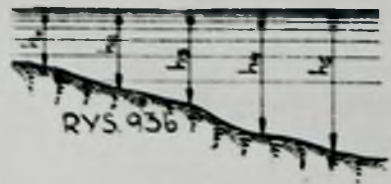
RYS. 92b



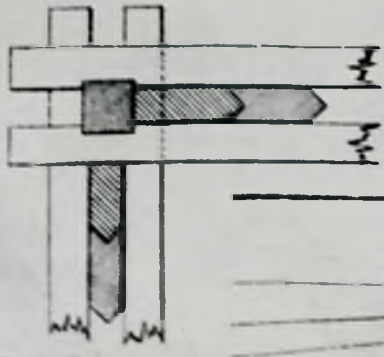
RYS. 91



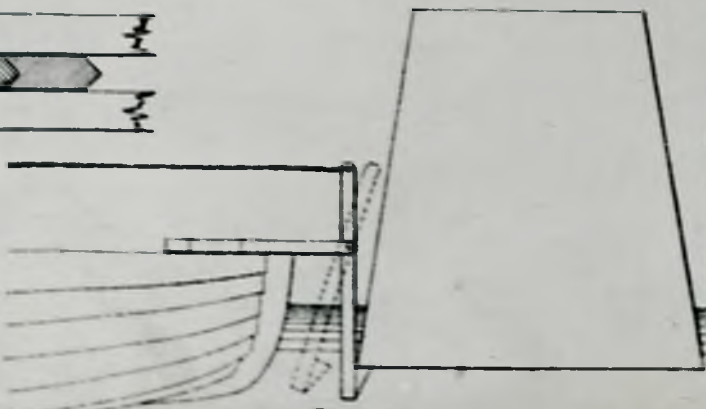
RYS. 93a



RYS. 93b



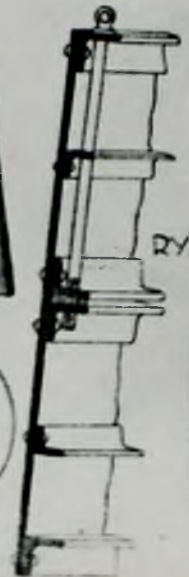
RYS. 94



RYS. 95



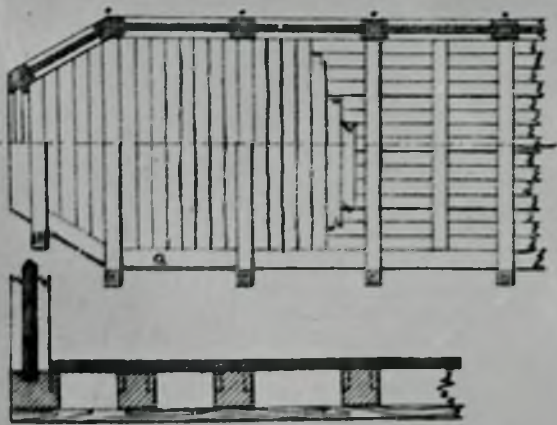
RYS. 96



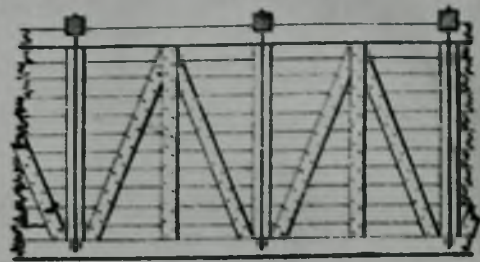
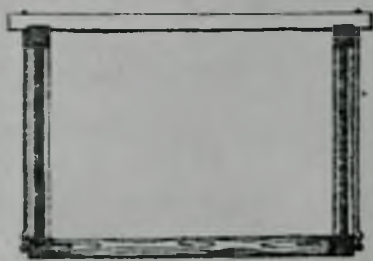
RYS. 97



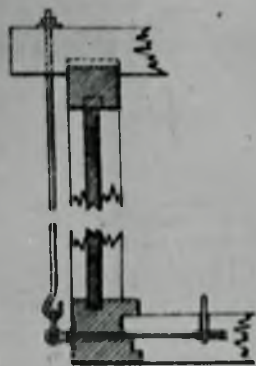
VII. skrzynie pływające



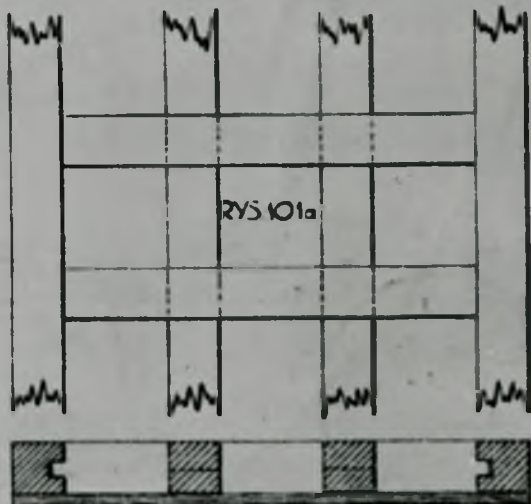
RYS.98



RYS.99



RYS.100



RYS.101a



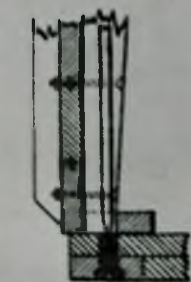
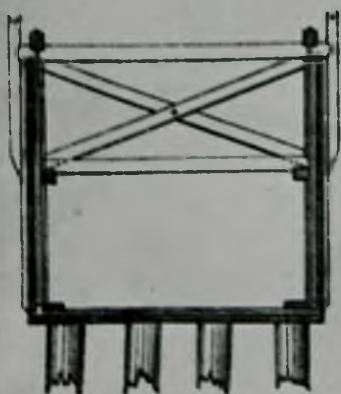
RYS.101b



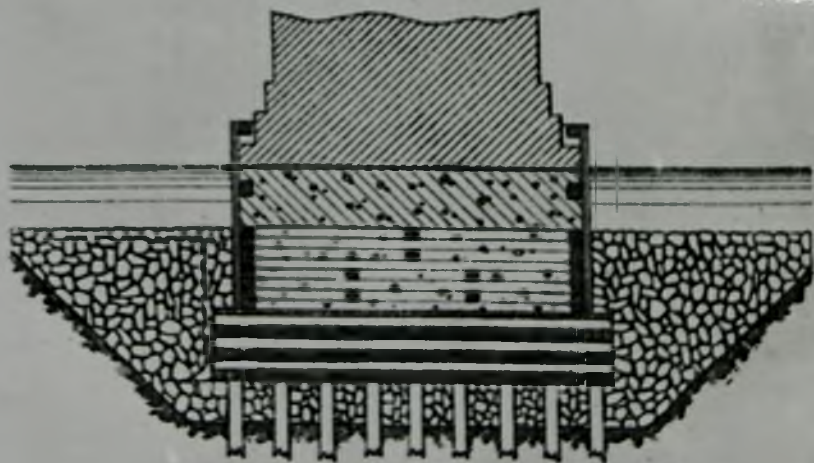
RYS.101c



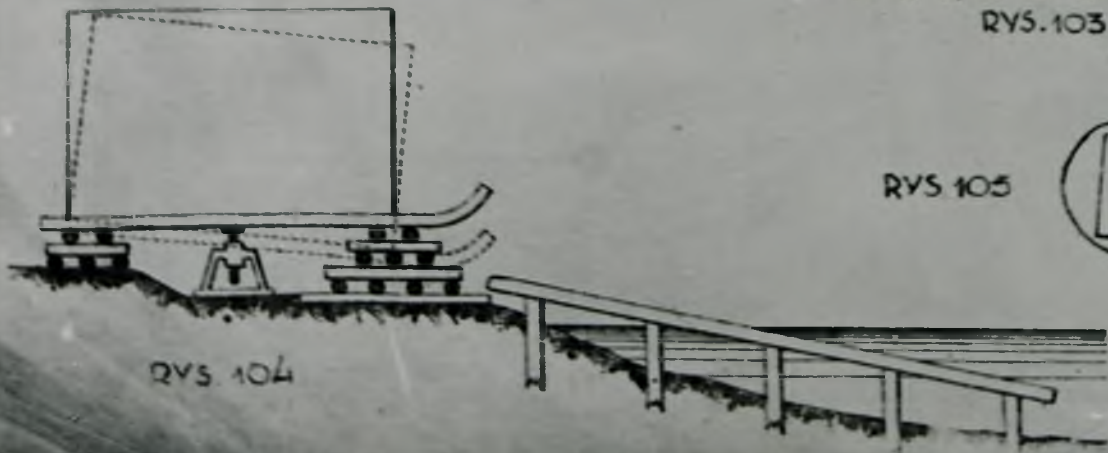
RYS.101d



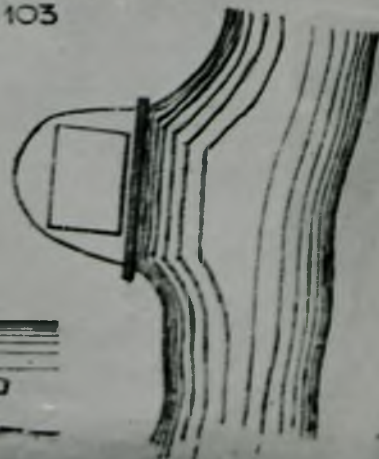
RYS.102



RYS.103



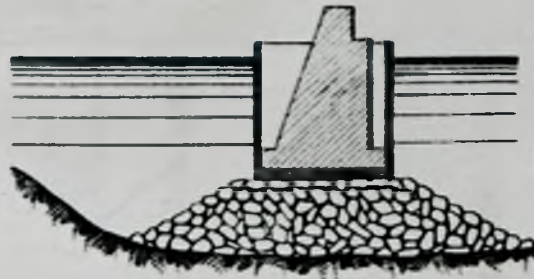
RYS.104



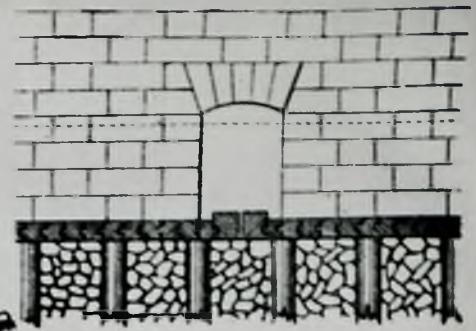
RYS.105



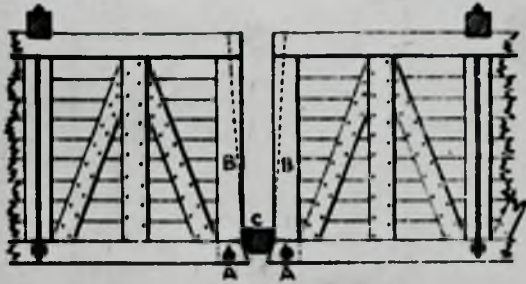
A': A'' - statki
B - skrzynia
RYS. 106



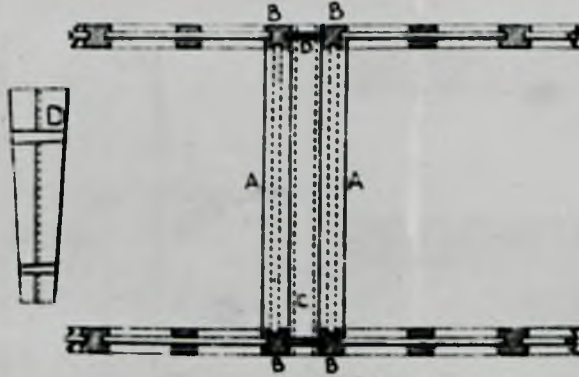
RYS. 107



RYS. 108



RYS. 109a

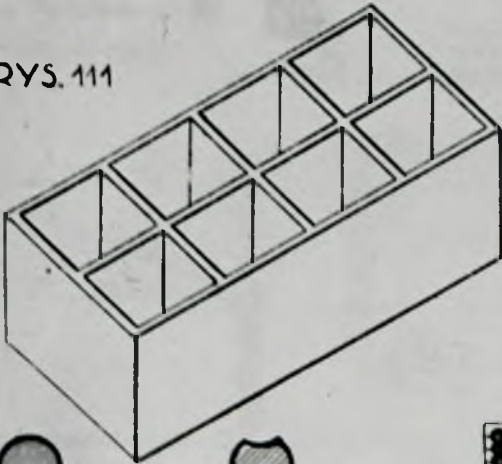


RYS 109b

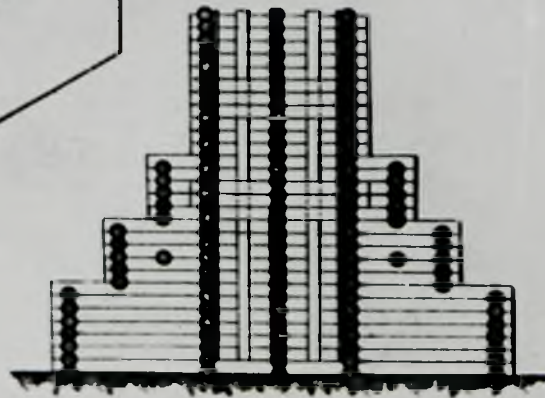


RYS. 110

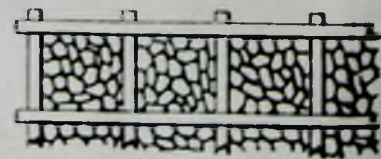
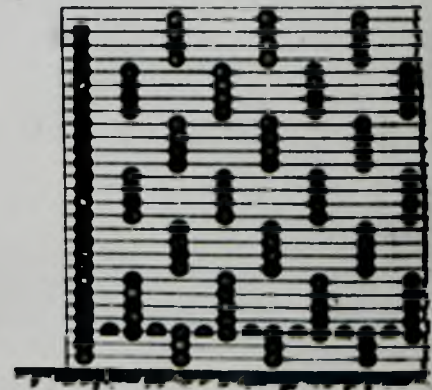
RYS. 111



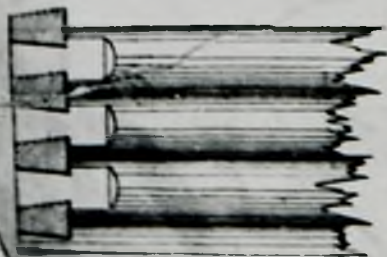
RYS. 114



RYS. 112



RYS. 113



RYS. 115

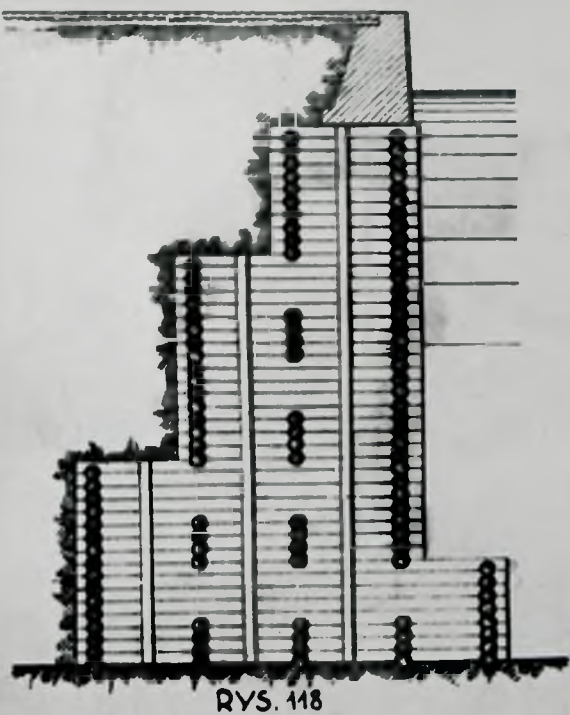


RYS. 116

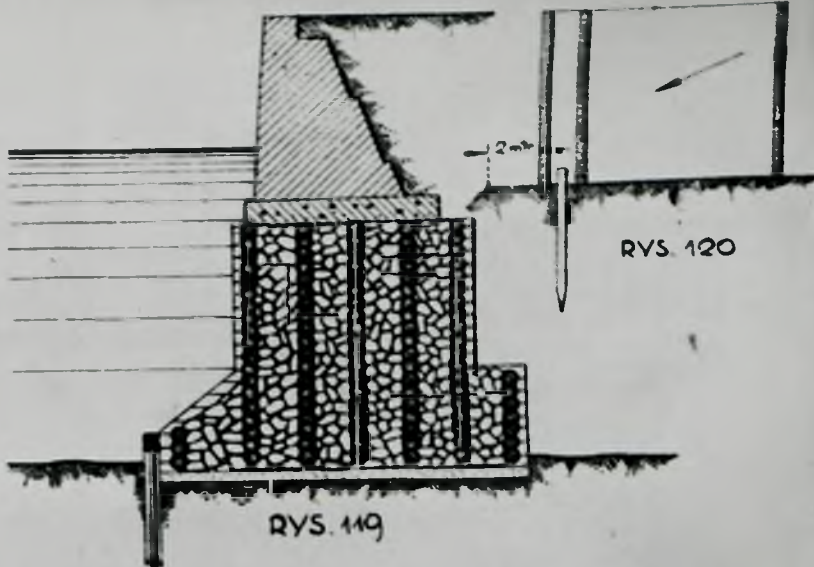


RYS. 117

VIII. kaszycy



RYS. 118

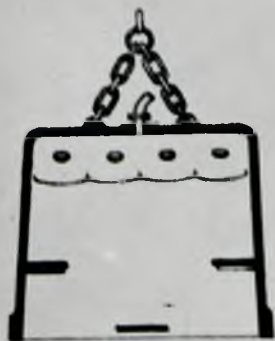


RYS. 119

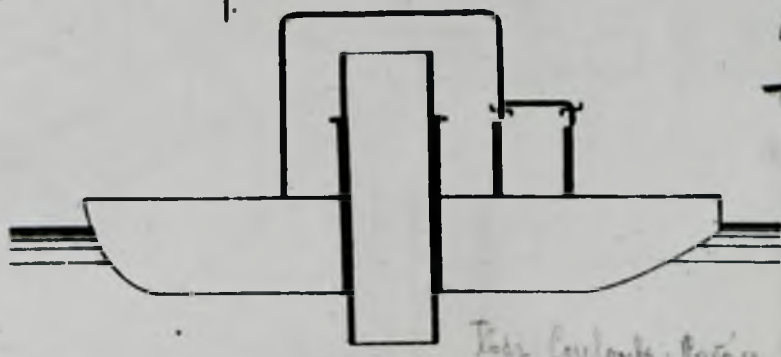
RYS. 120

Σ fundowanie pod sprężonem powietrzem

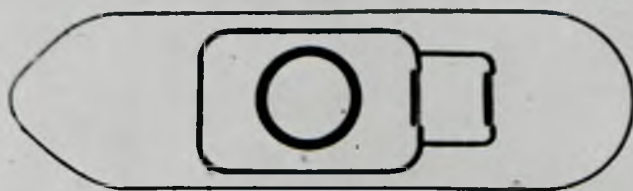
α/ wskazówki ogólne



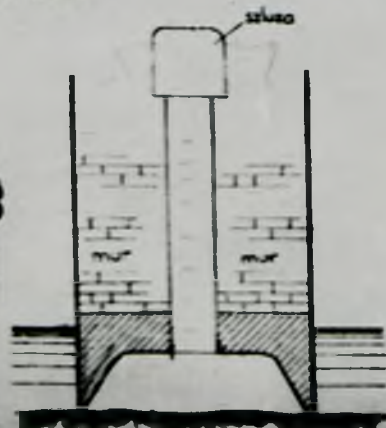
RYS. 121



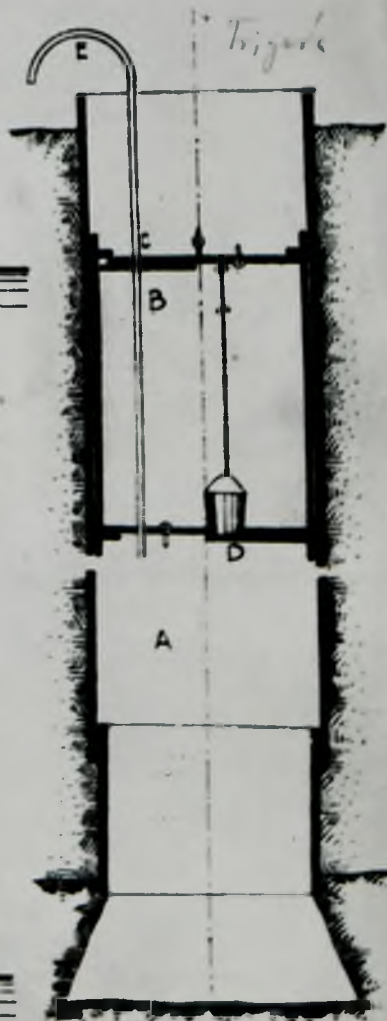
RYS. 122



RYS. 124

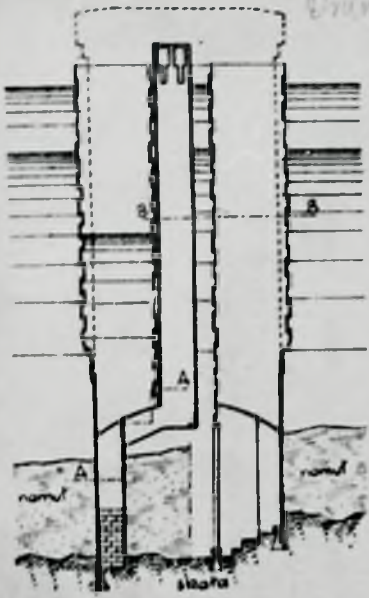


RYS. 126



RYS. 125

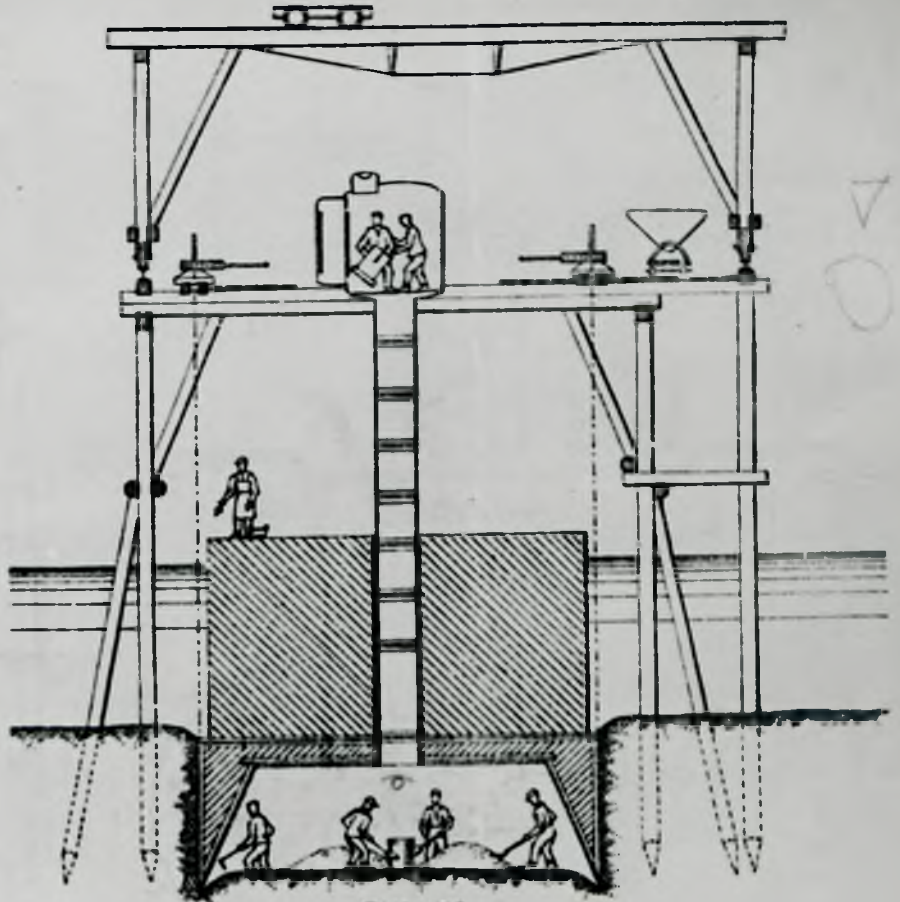
Grund



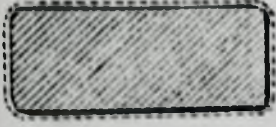
przekroj AA przekroj BB



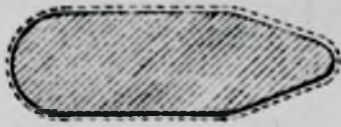
RYS. 127



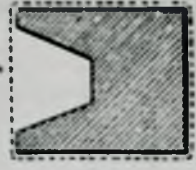
RYS. 128



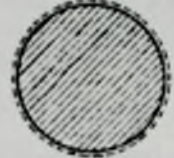
RYS. 129a



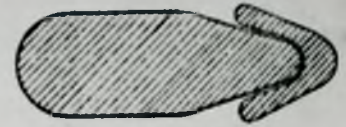
RYS. 129b



RYS. 129c

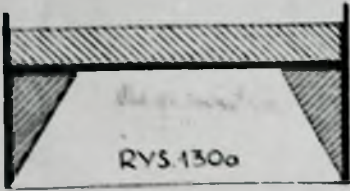


RYS. 129d

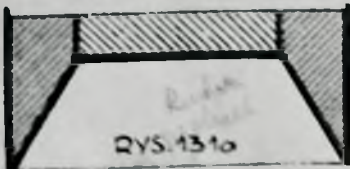


RYS. 129e

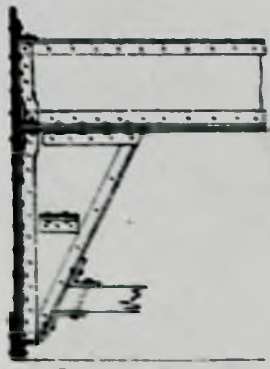
komora robocza, szyby i szluzy kesonu



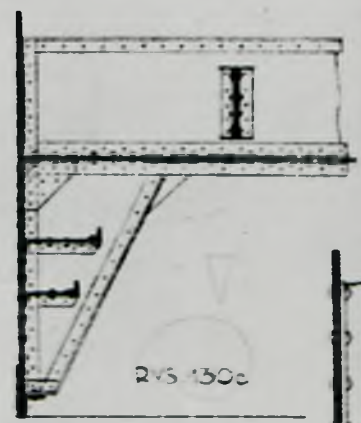
RYS. 130a



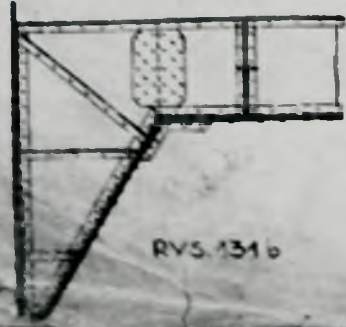
RYS. 131a



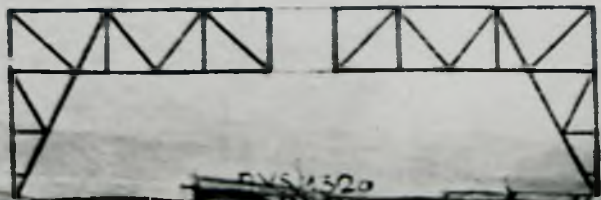
RYS. 130b



RYS. 130c



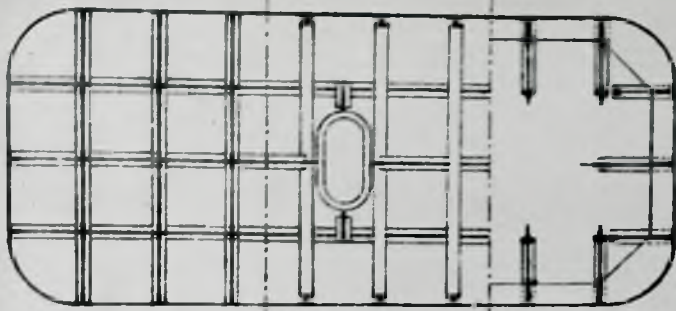
RYS. 131b



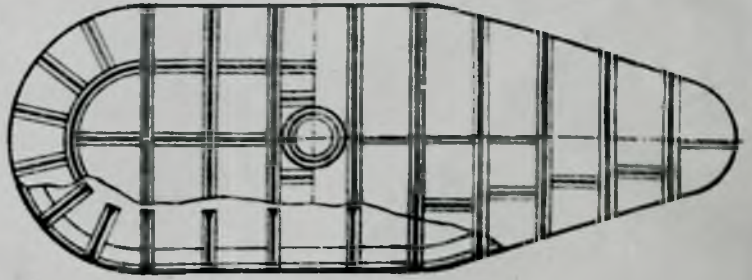
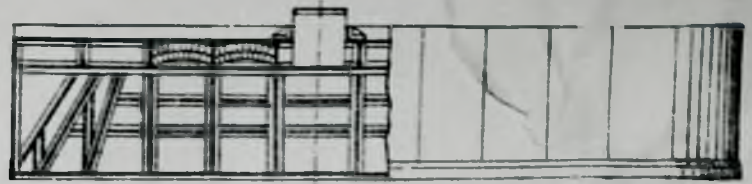
RYS. 132a



RYS. 132b



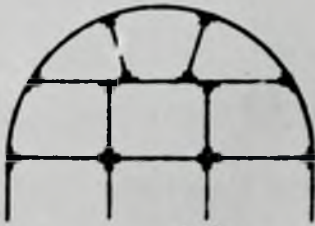
RYS. 133a



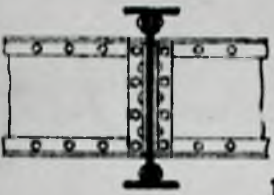
RYS. 133b



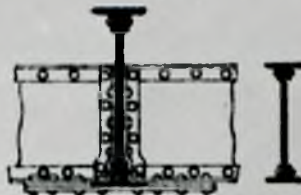
RYS. 134a



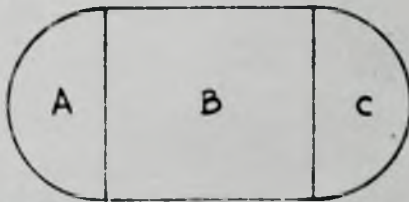
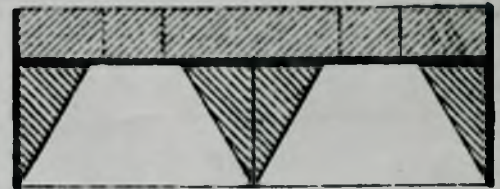
RYS. 134b



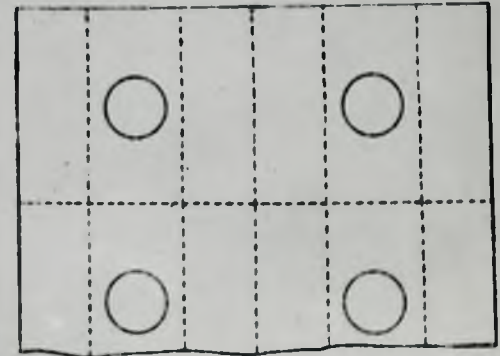
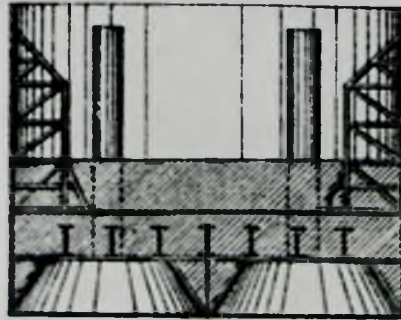
RYS. 135



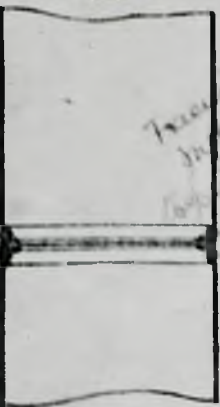
RYS. 136



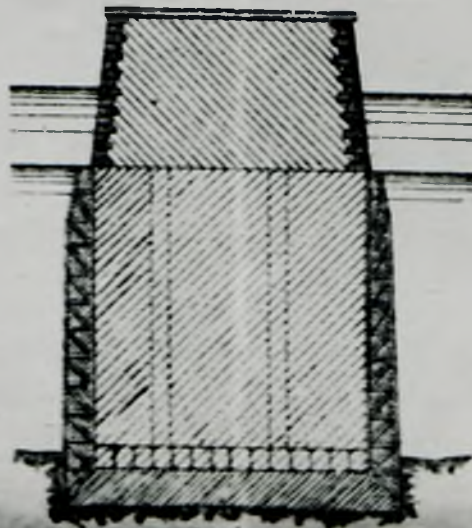
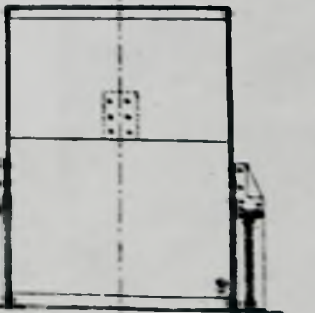
RYS. 138



RYS. 137



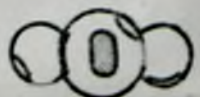
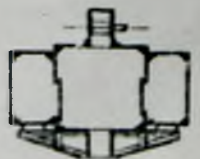
przekroj a-b



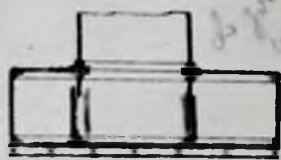
RYS. 141



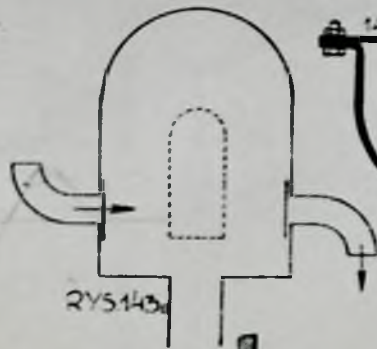
RYS. 142a



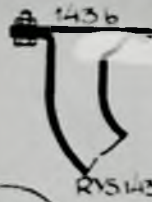
RYS. 142b 13



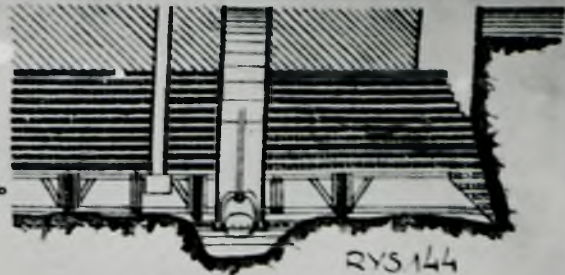
RYS 142c



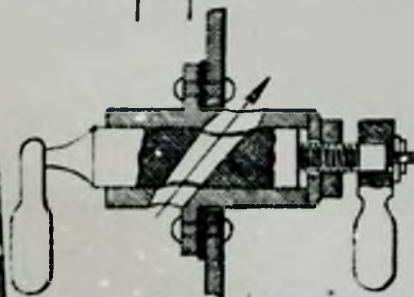
RYS 143a



RYS 143b



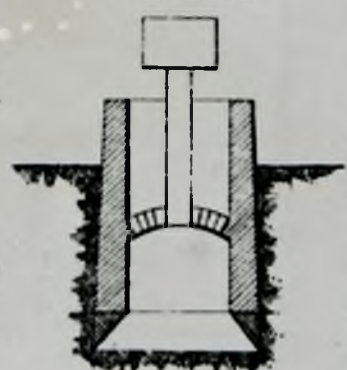
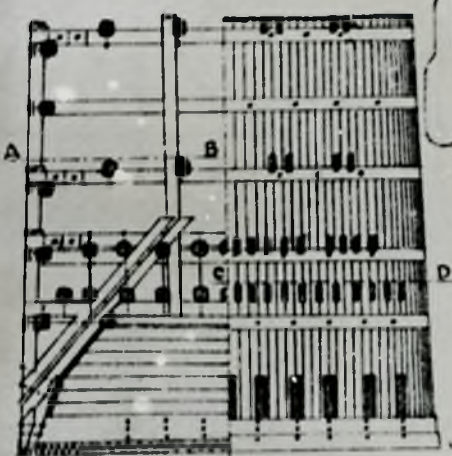
RYS 144



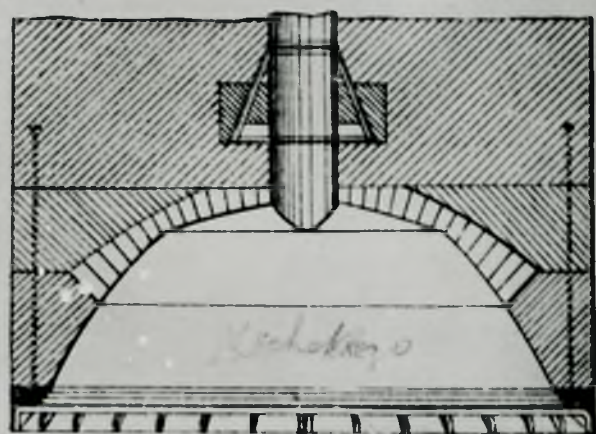
RYS. 143c



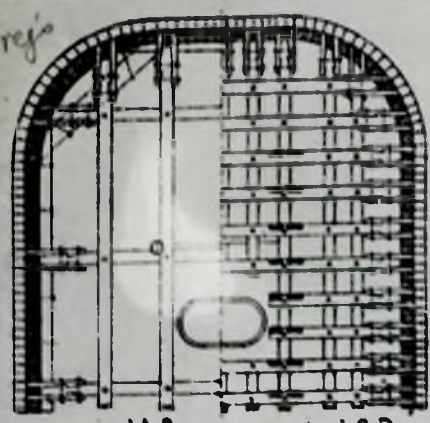
RYS. 145



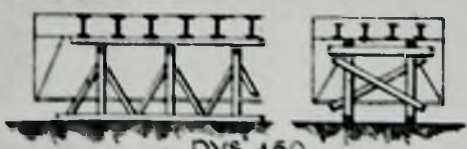
RYS 147



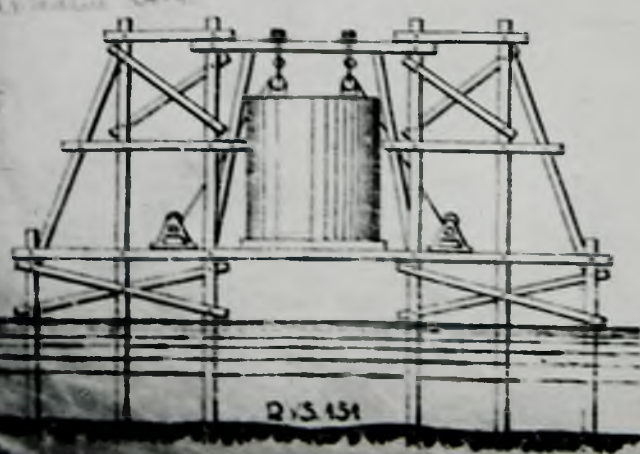
RYS. 148



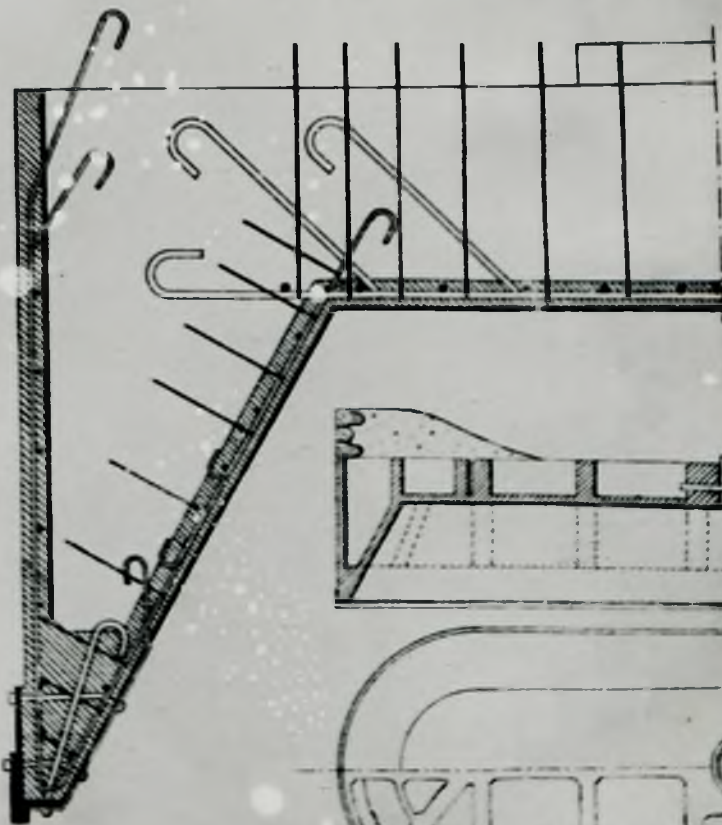
przekroj A-B przekroj C-D
RYS 146



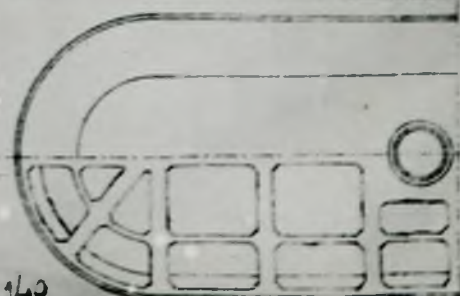
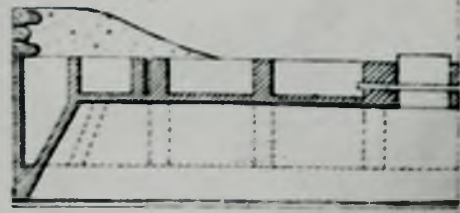
RYS. 150

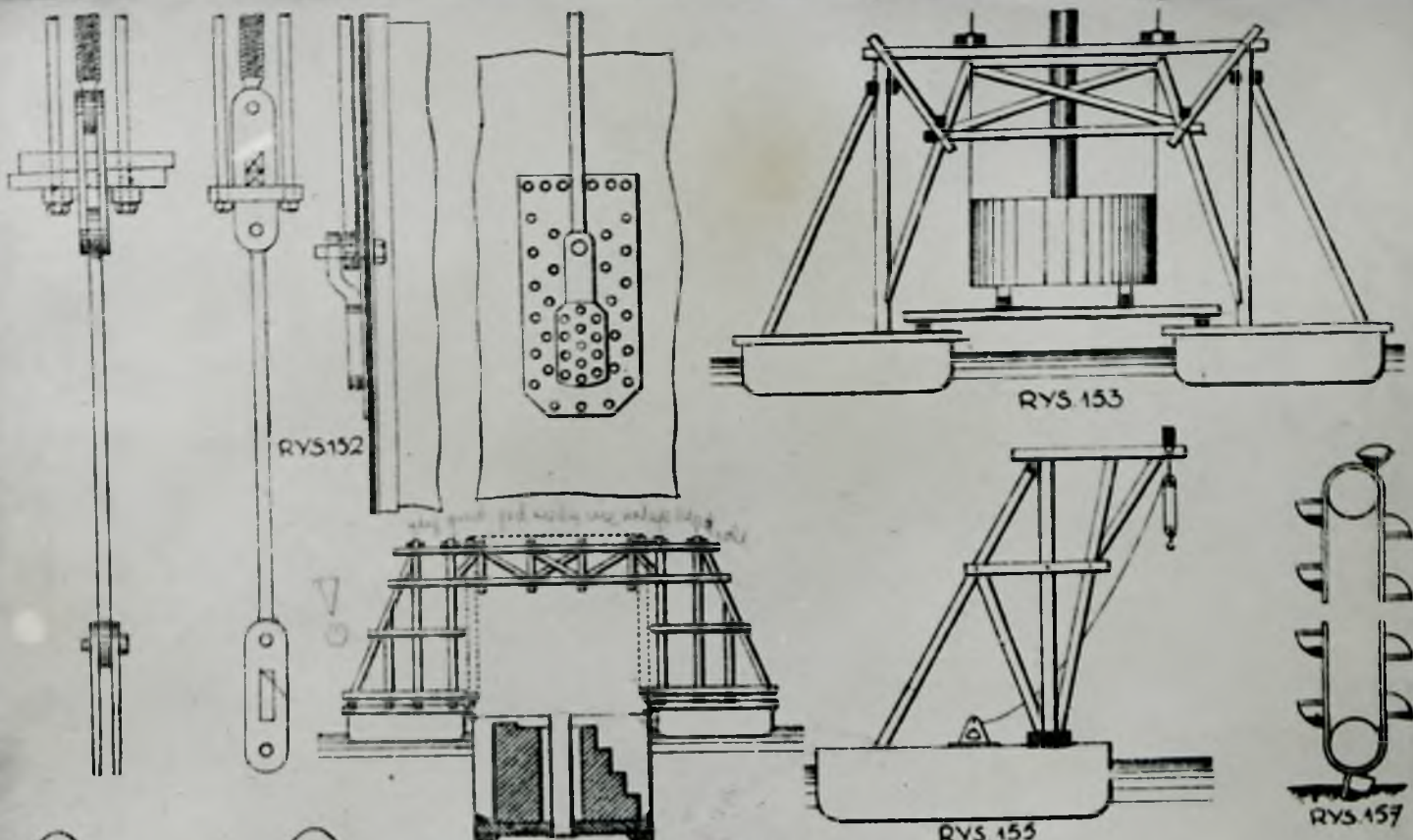


RYS 151

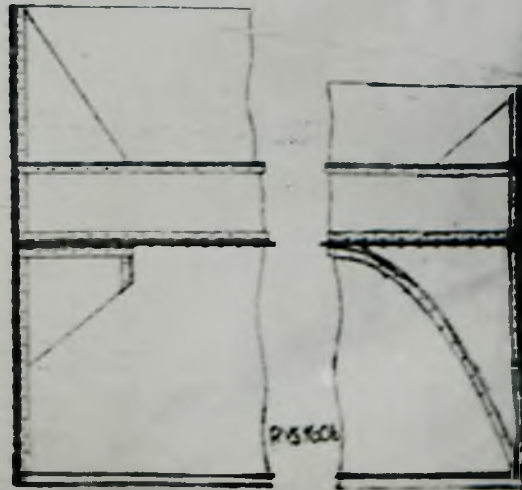
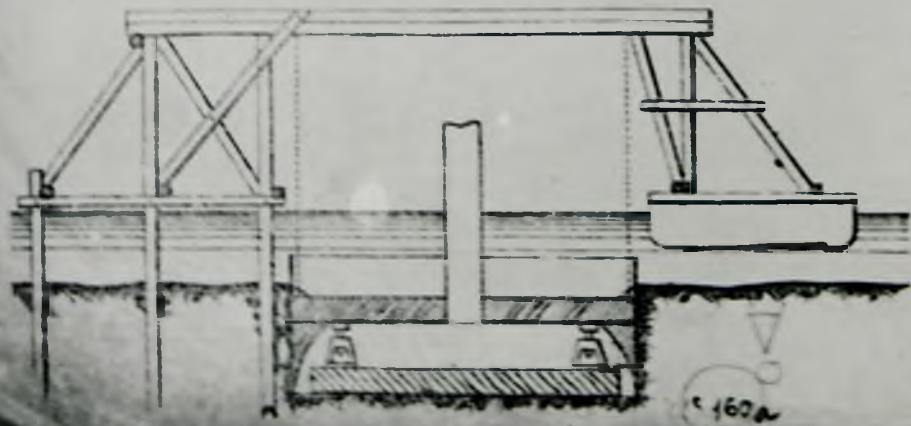
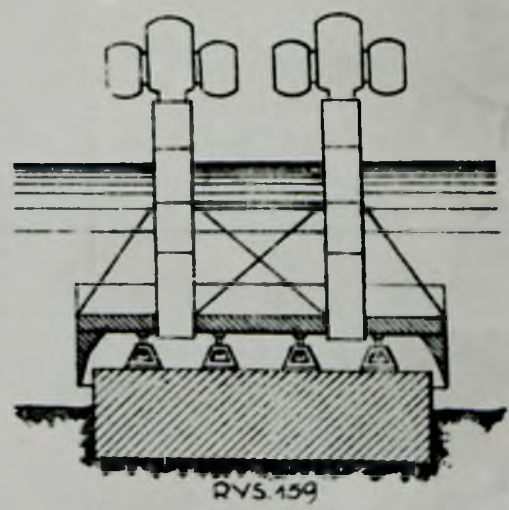
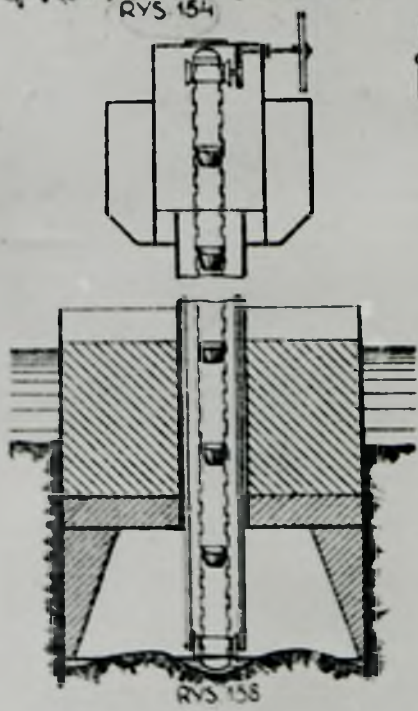
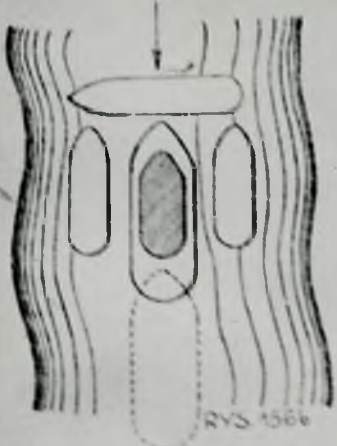
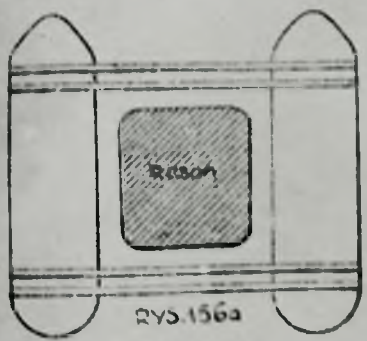


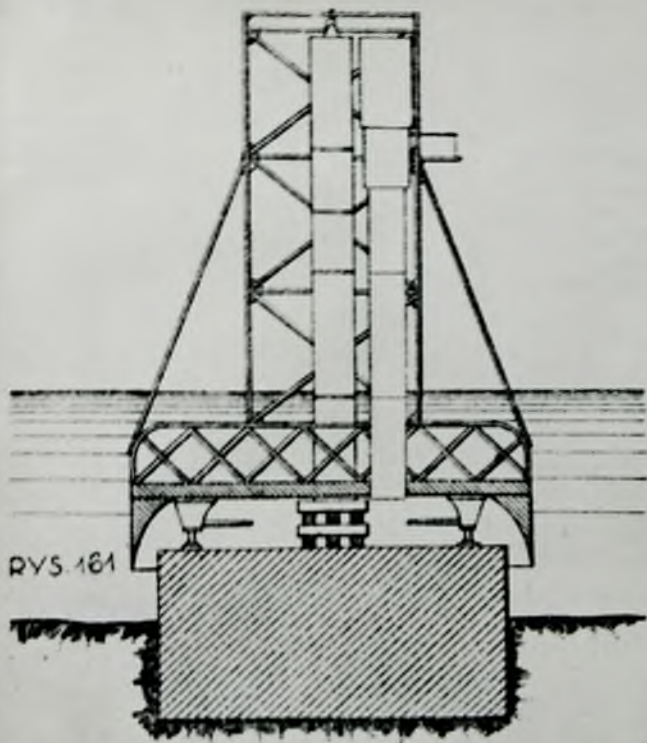
RYS. 149



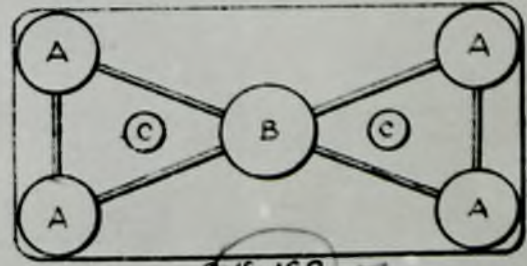
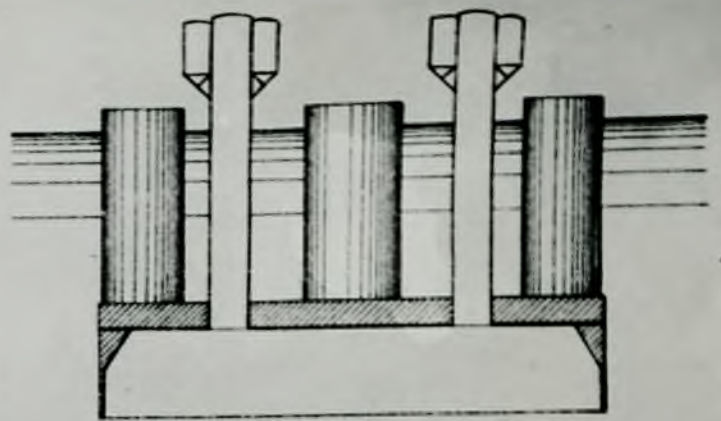


c/ kesony dzwony
 i kesony pływające





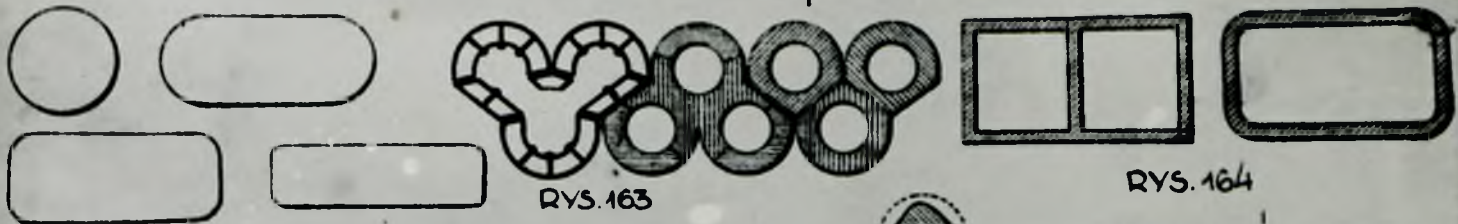
RYS. 161



RYS. 162

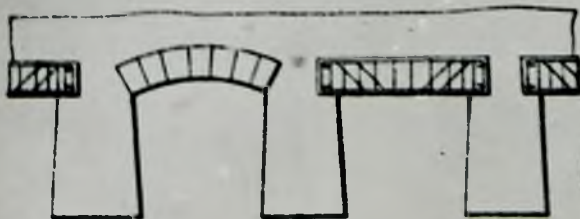
A - szczyby rownowagi
 B - bania rownowagi
 C - szczyby szluzi roboczej

z. studnie zapuszczane

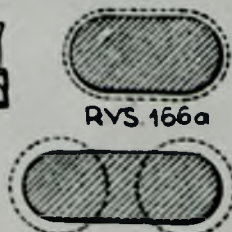


RYS. 163

RYS. 164



RYS. 165

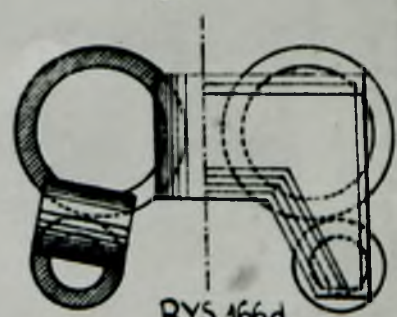


RYS. 166a

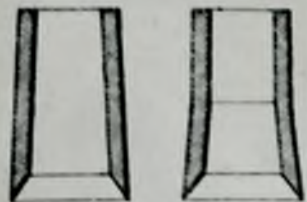
RYS. 166b



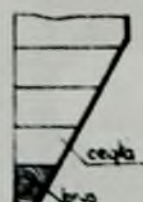
RYS. 166c



RYS. 166d



RYS. 167



RYS. 168a



RYS. 168b



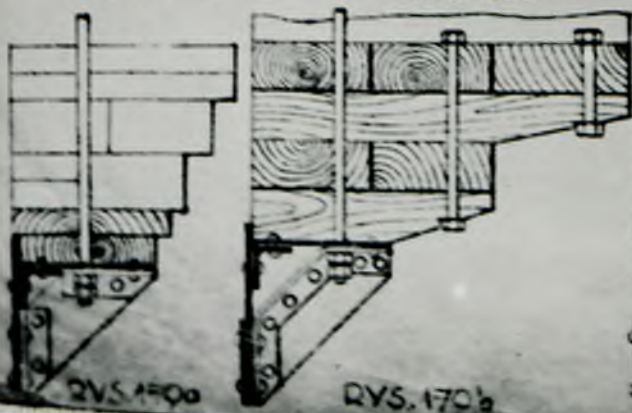
RYS. 168c



RYS. 168d

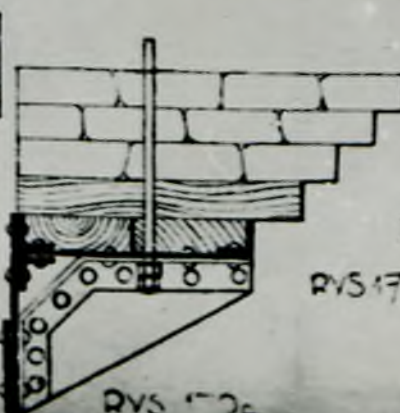


RYS. 169

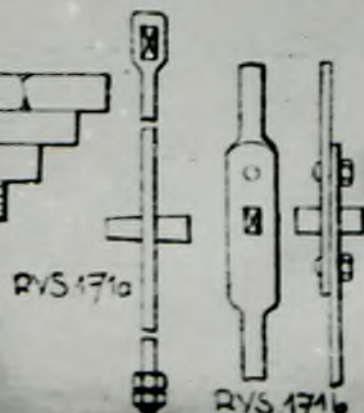


RYS. 170a

RYS. 170b



RYS. 170c

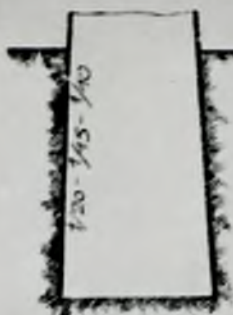


RYS. 171a

RYS. 171b



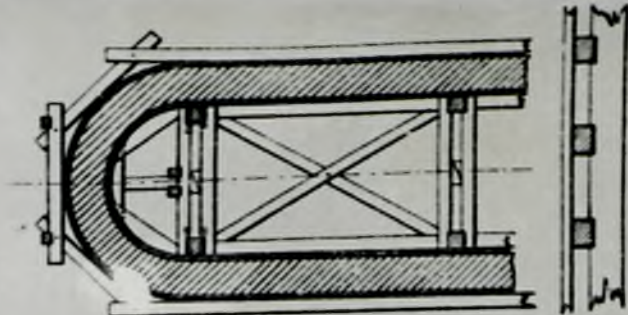
RYS. 171c



RYS. 172



RYS. 173



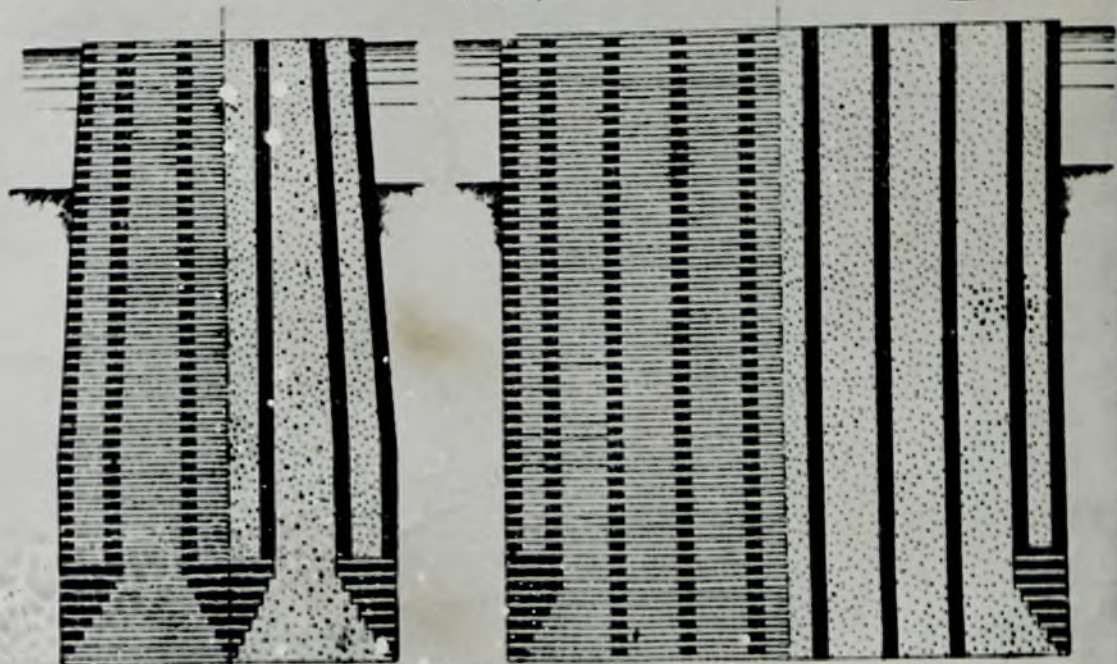
RYS. 174



RYS. 175

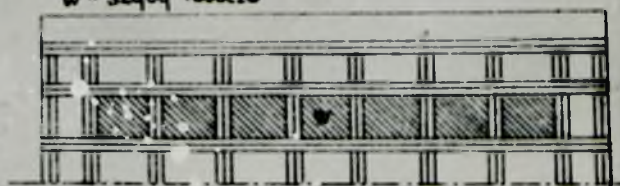


RYS. 176



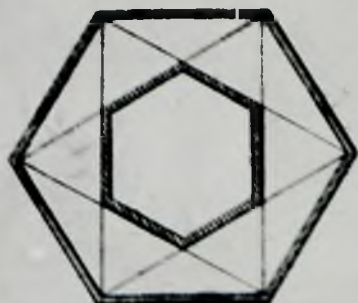
RYS. 177

W - sztyby robocze

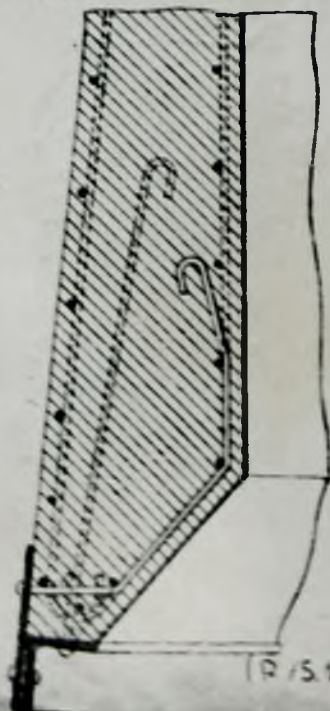
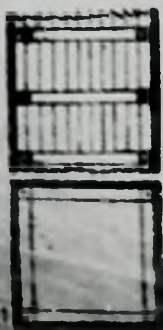


RYS. 178

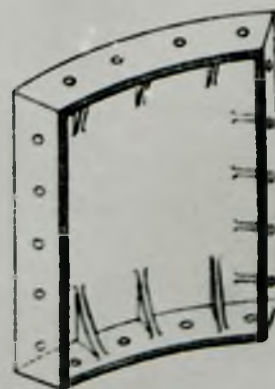
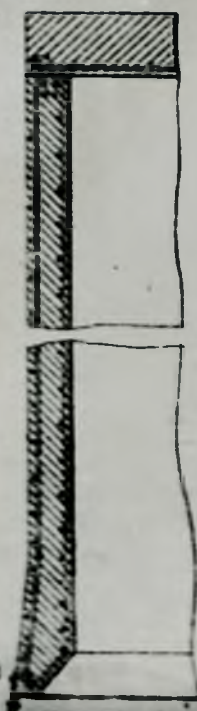
RYS. 178



RYS. 179

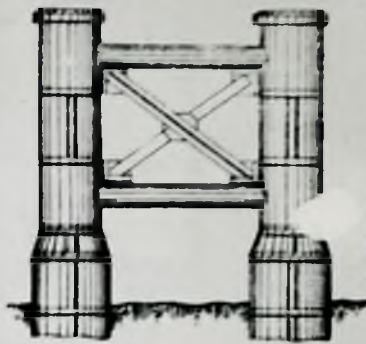


RYS. 180

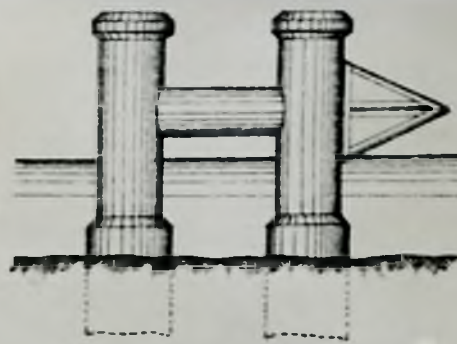


RYS. 182

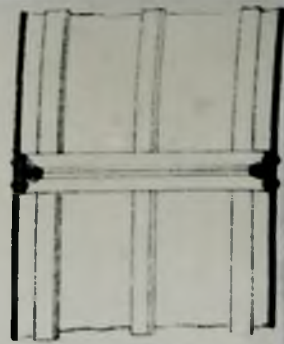




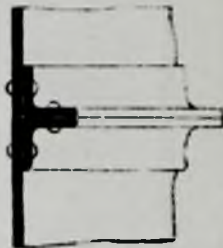
RYS 184



RYS 185



RYS 183



RYS 187a



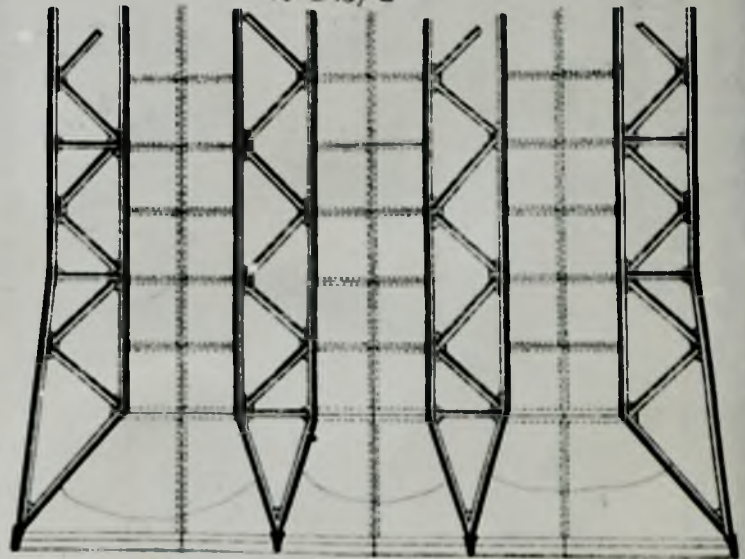
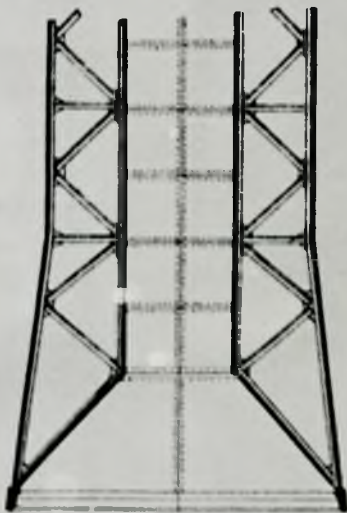
RYS 187b



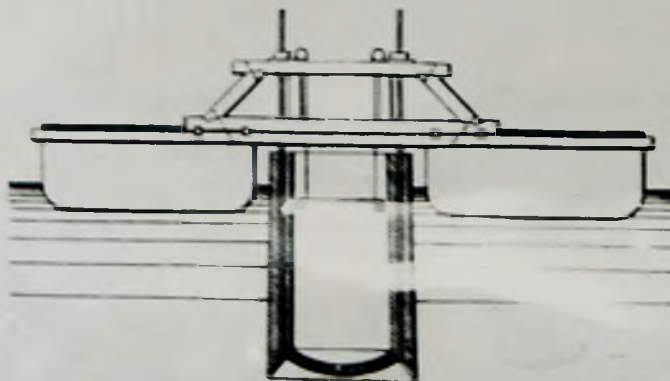
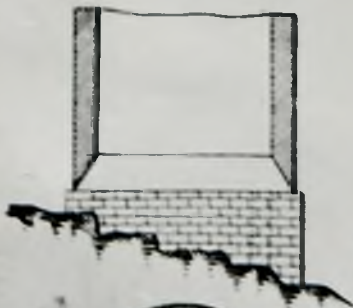
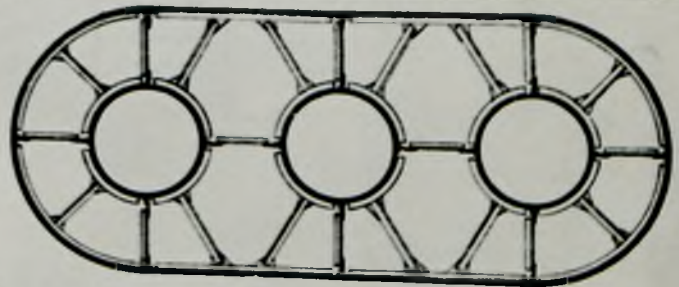
RYS 187c



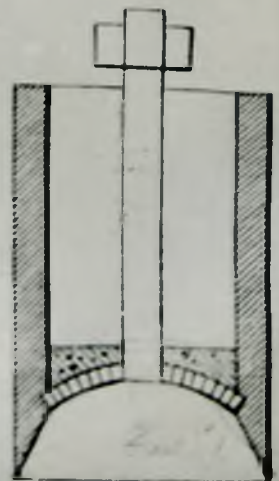
RYS 186



RYS 188

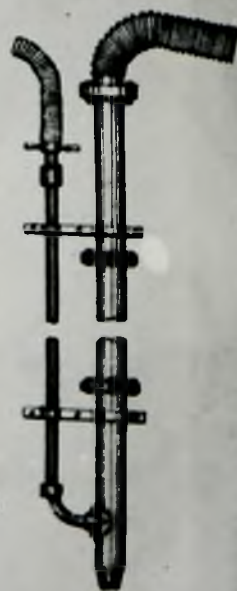
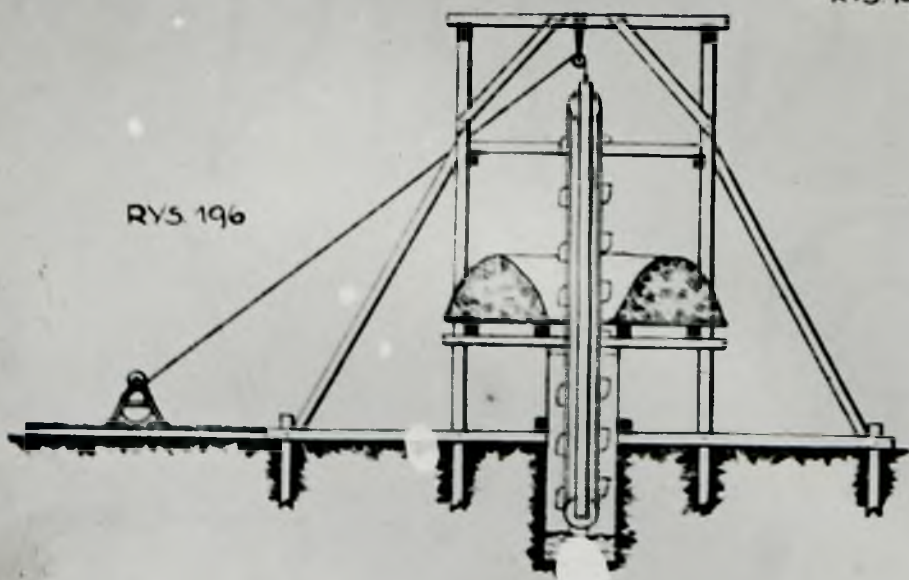
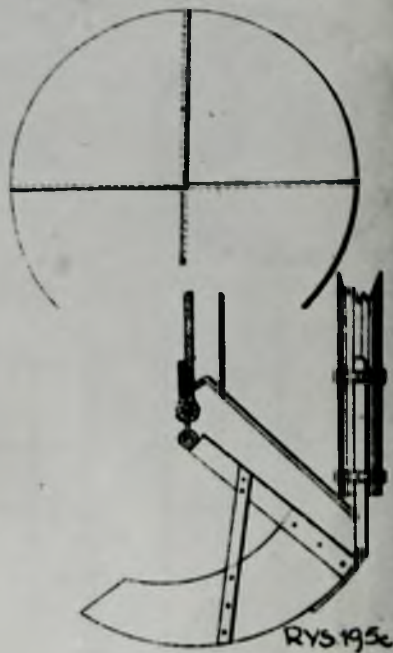
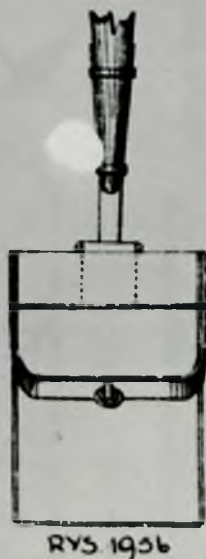
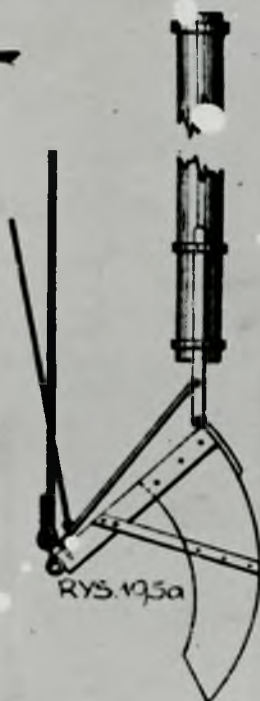
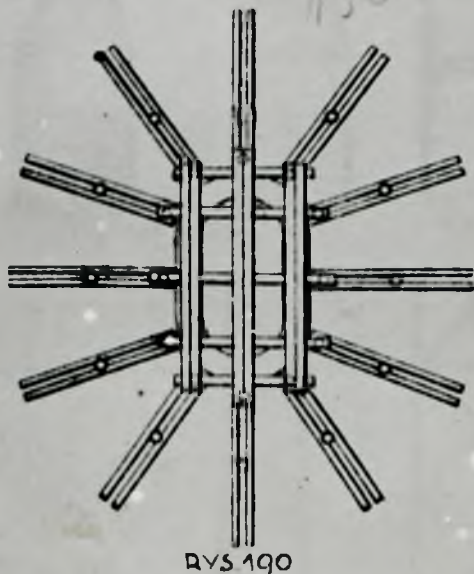
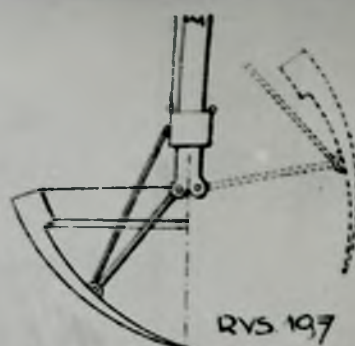
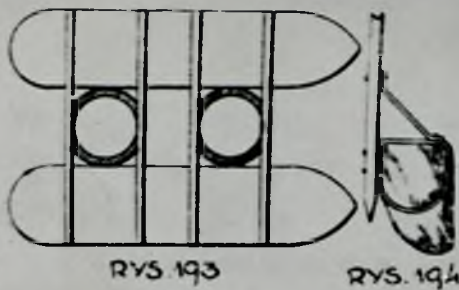
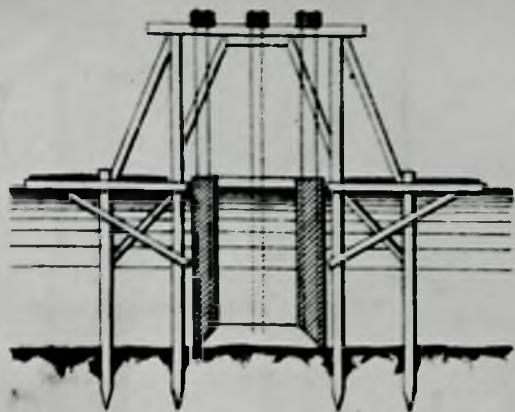


RYS 191

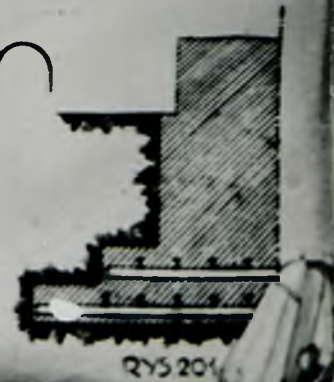
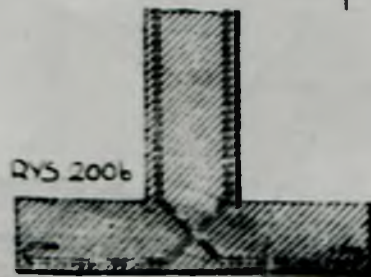
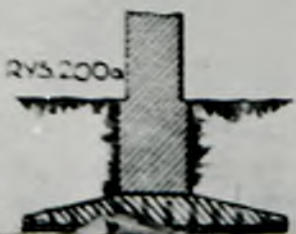
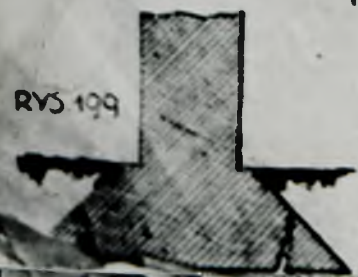


RYS 102



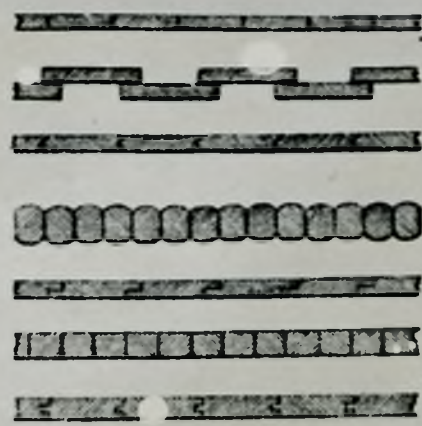
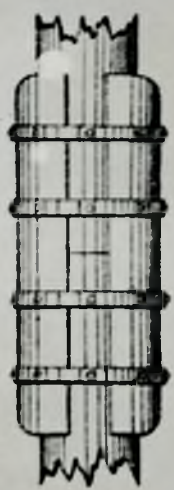
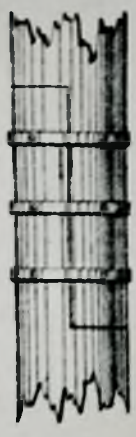


XI. fundamentowanie na gruntach skalnych

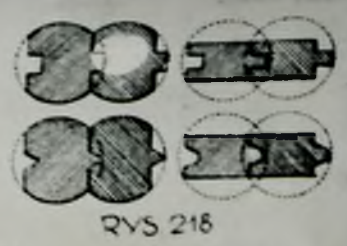




RYS.214



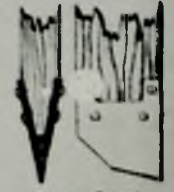
RYS.216a
RYS.216b
RYS.216c
RYS.217a
RYS.217b
RYS.217c
RYS.217d



RYS.218



RYS.219a



RYS.219b



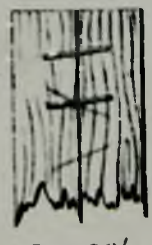
RYS.215



RYS.222b



RYS.224a



RYS.224c



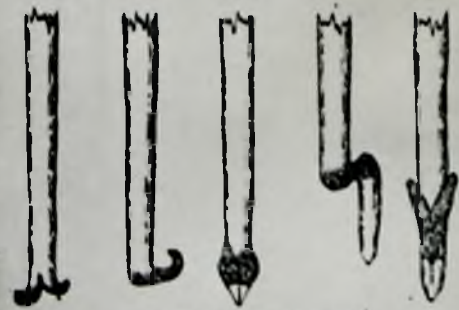
RYS.220



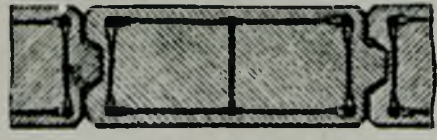
RYS.221



RYS.222a



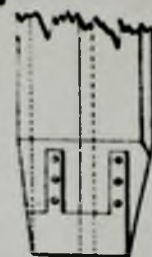
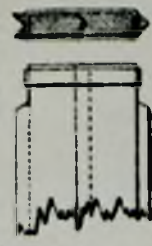
RYS.225 a,b,c,d,e



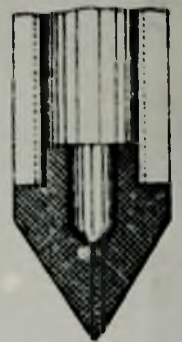
RYS.228a



RYS.228b



RYS.224c



RYS.223



RYS.230



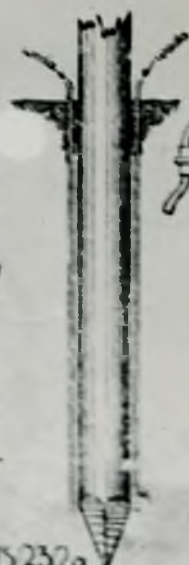
RYS.227



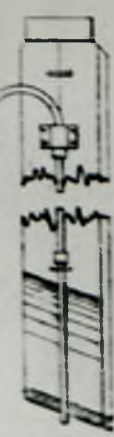
RYS.226



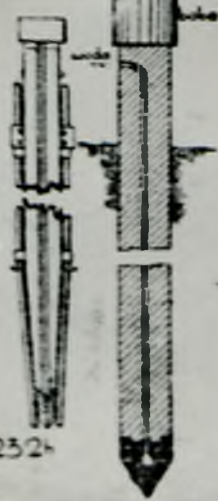
RYS.231



RYS.232a



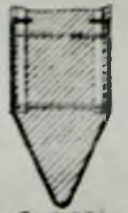
RYS.232b



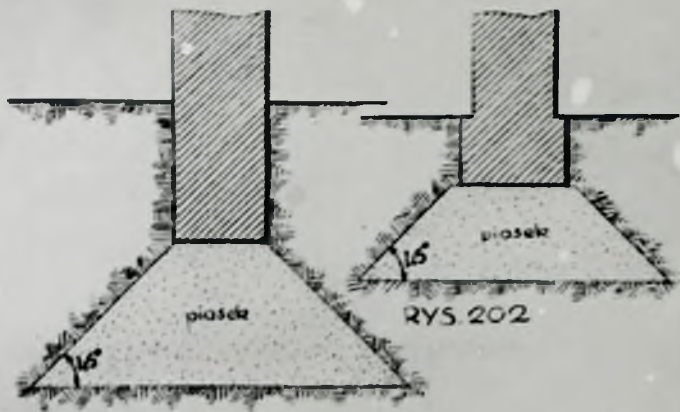
RYS.232c



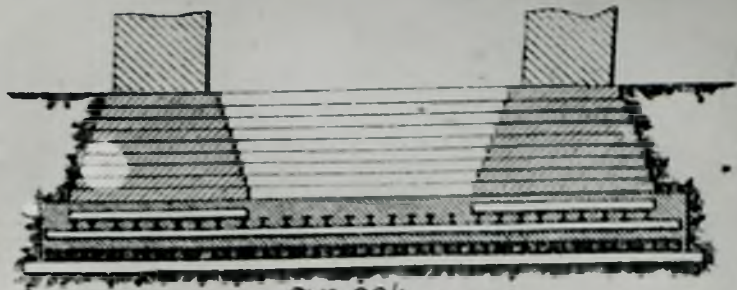
RYS.233



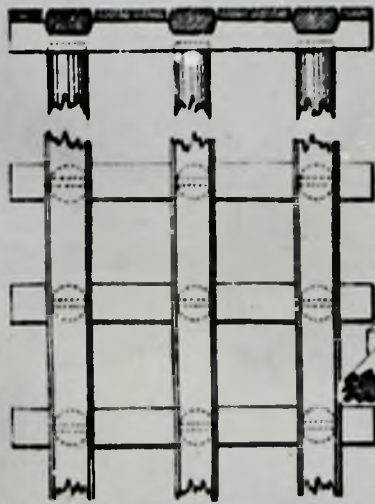
RYS.234



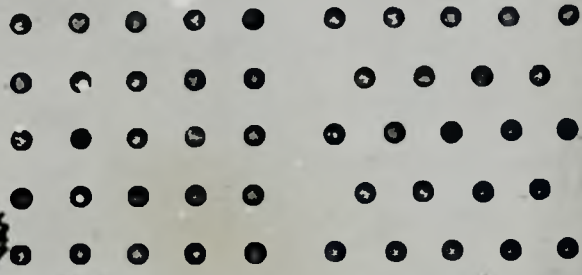
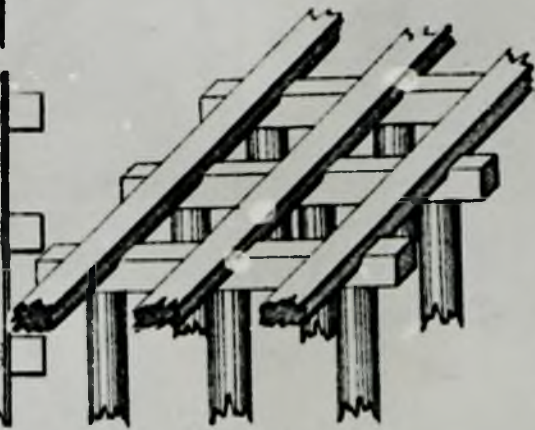
RYS. 202



RYS. 204

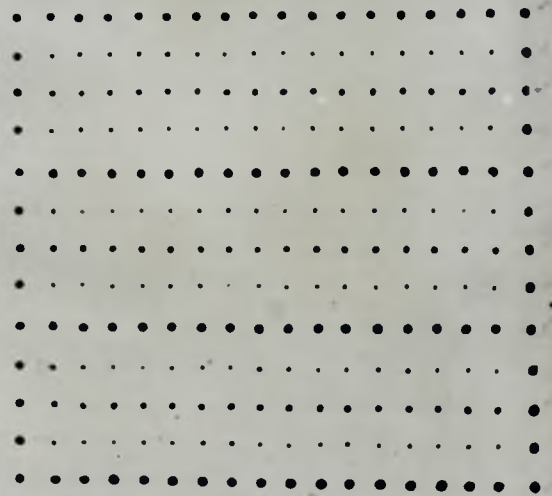


RYS. 203



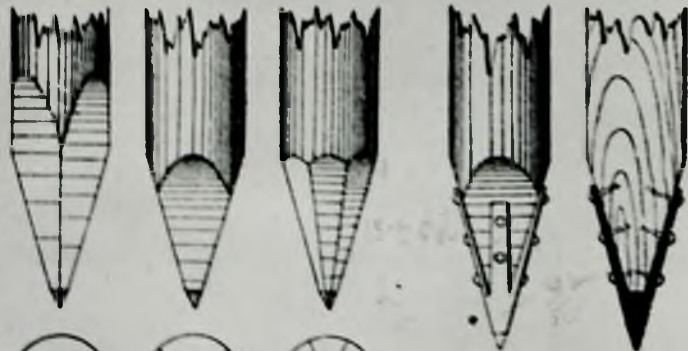
RYS. 205a

RYS. 205b



RYS. 205c

XII. pale



RYS. 208a



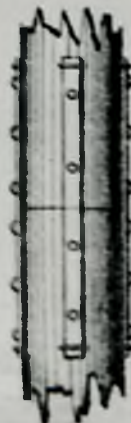
RYS. 207a RYS. 207b RYS. 207c



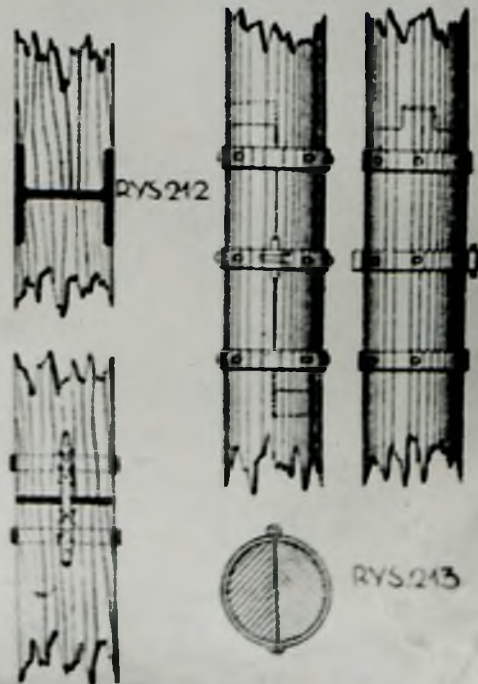
RYS. 208b



RYS. 208c



RYS. 210a



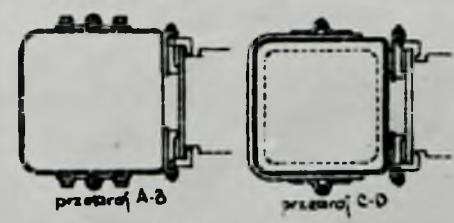
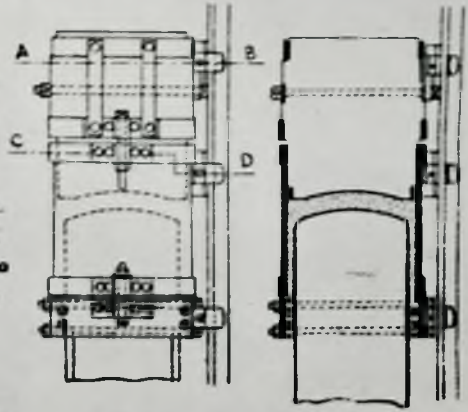
RYS. 212

RYS. 211b

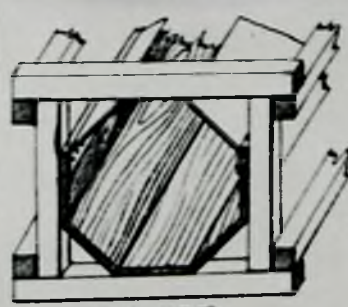
RYS. 213



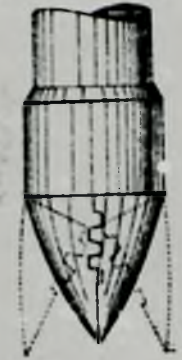
RYS. 235



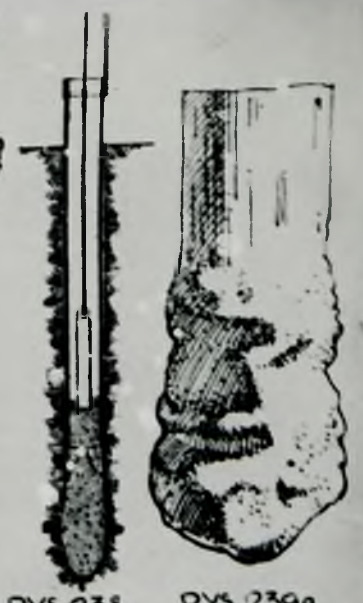
RYS. 236



RYS. 237



RYS. 239b

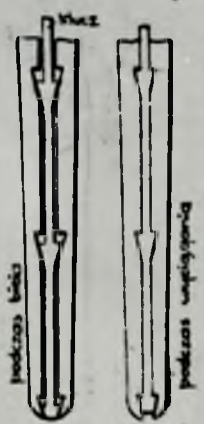


RYS. 238

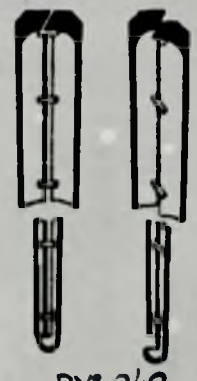
RYS. 239a



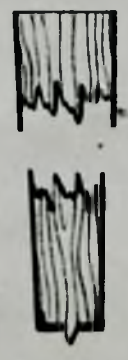
RYS. 240



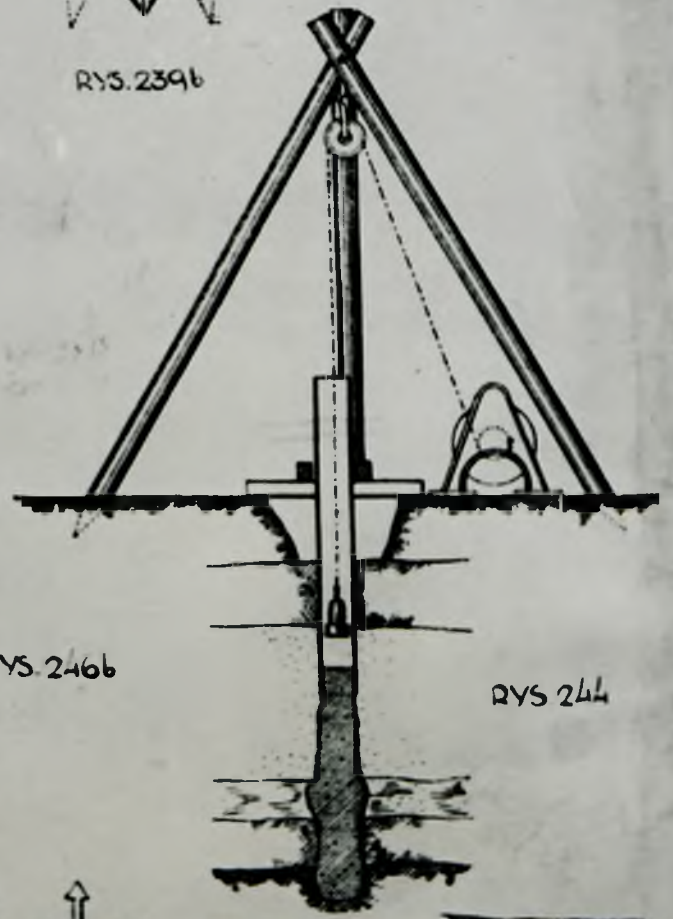
RYS. 241



RYS. 242



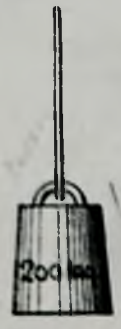
RYS. 243



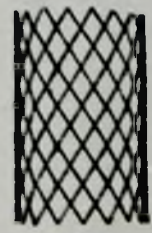
RYS. 244



RYS. 243a



RYS. 245b



RYS. 240a



RYS. 246b



RYS. 248



RYS. 249



RYS. 249b

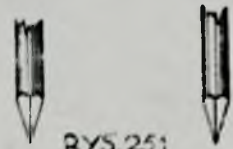
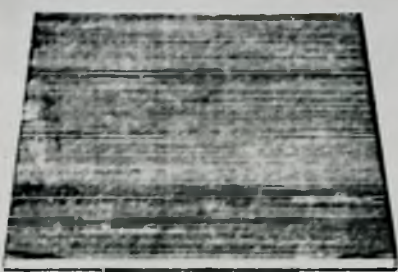


RYS. 249d



RYS. 250a

RYS. 250b



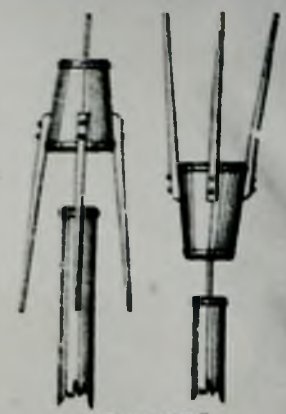
RYS 251



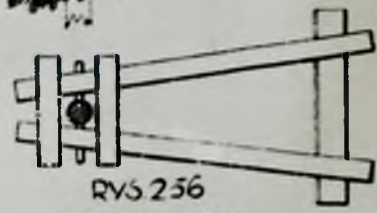
RYS 253



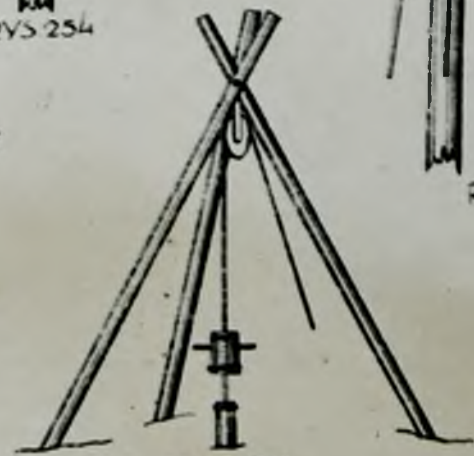
RYS 254



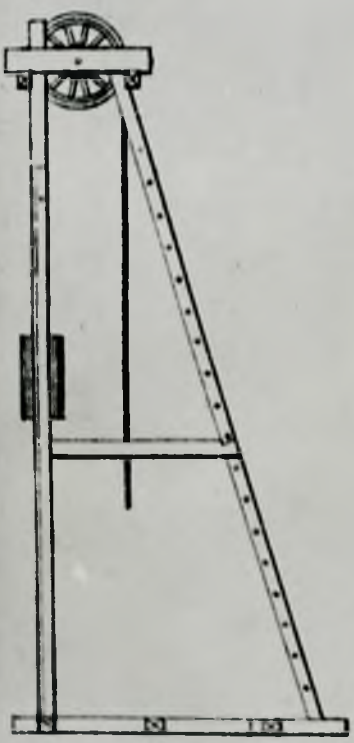
RYS 255



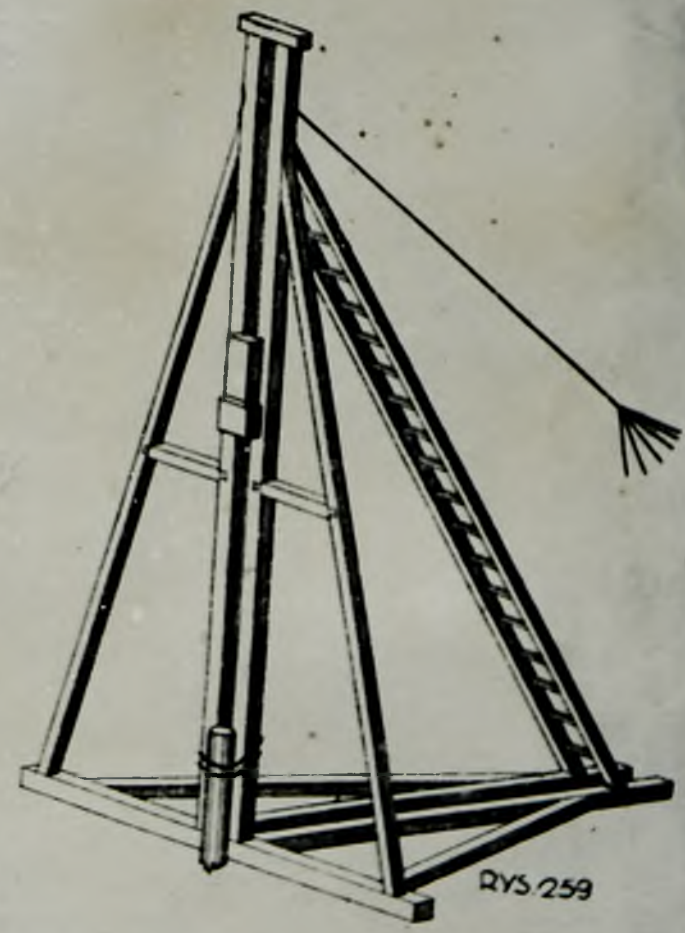
RYS 256



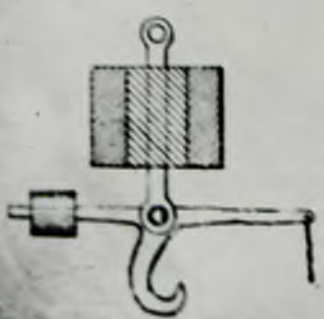
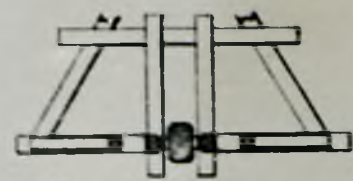
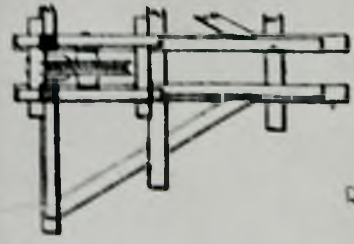
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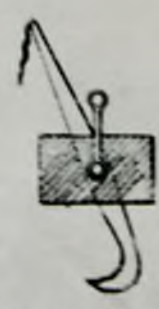
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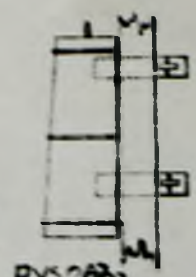
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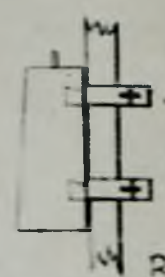
RYS 261



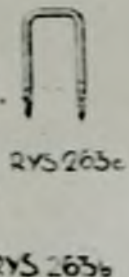
RYS 261



RYS 263a



RYS 263b



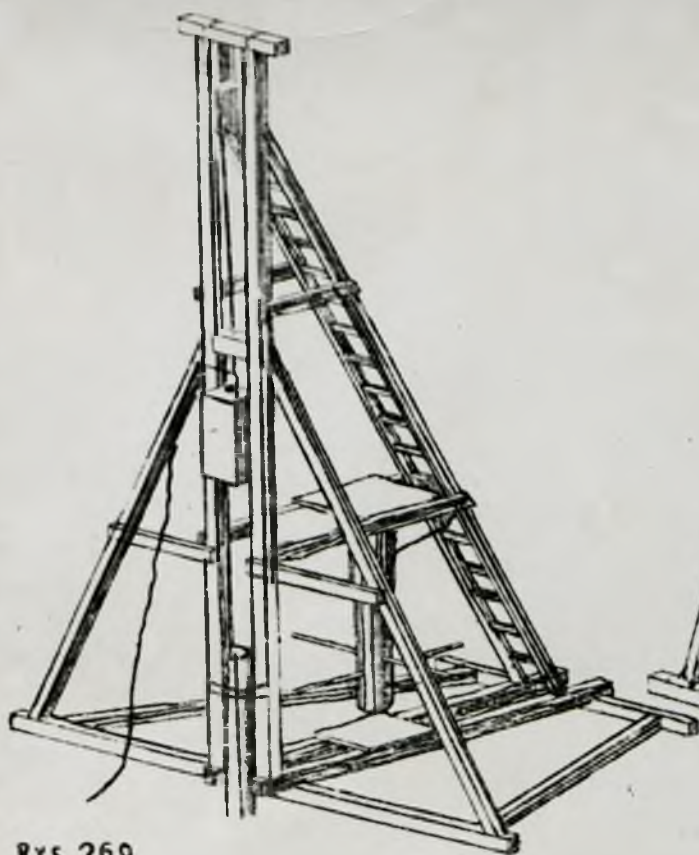
RYS 264



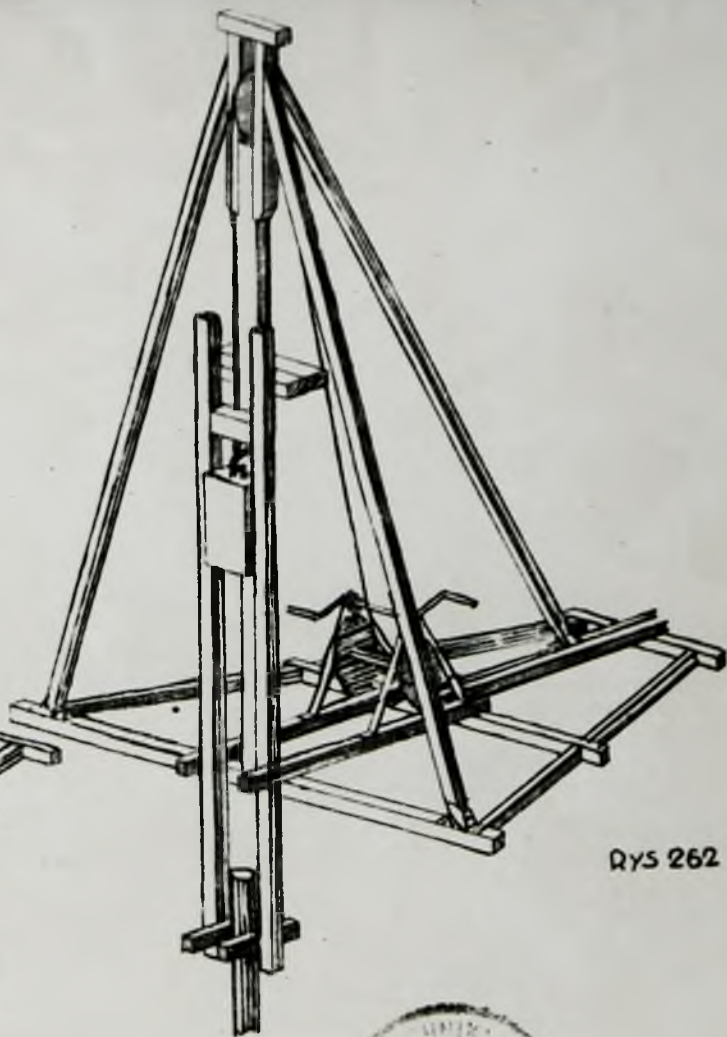
RYS 264b



RYS 264c



RYS 260



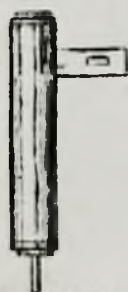
RYS 262



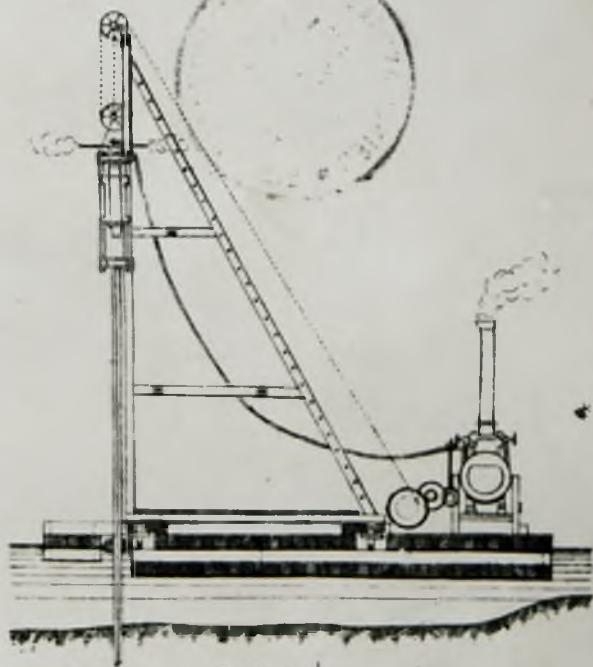
RYS 265a



RYS 265b



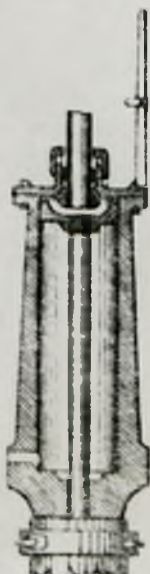
RYS 265d



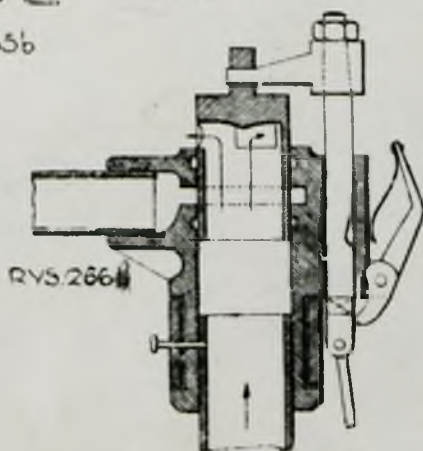
RYS 264



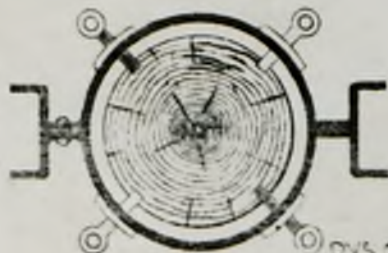
RYS 266a



RYS 266b



RYS 266c



RYS 266e