

625

И71

СБОРНИКЪ

ИНСТИТУТА ИНЖЕНЕРОВЪ ПУТЕЙ СООБЩЕНІЯ

ИМПЕРАТОРА АЛЕКСАНДРА I

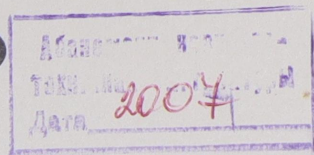


ВЫПУСКЪ XXI

А Т Л А С Ъ

1991

СБОРНИКЪ



ИНСТИТУТА ИНЖЕНЕРОВЪ ПУТЕЙ СООБЩЕНІЯ

ИМПЕРАТОРА АЛЕКСАНДРА I.

В Ы П У С К Ъ ХХІ.

ТРУДЫ ПРЕПОДАВАТЕЛЕЙ И МАТЕРІАЛЫ ДЛЯ ИНСТИТУТСКИХЪ КУРСОВЪ.

Атласъ изъ 49 листовъ чертежей.

С.-ПЕТЕРБУРГЪ.

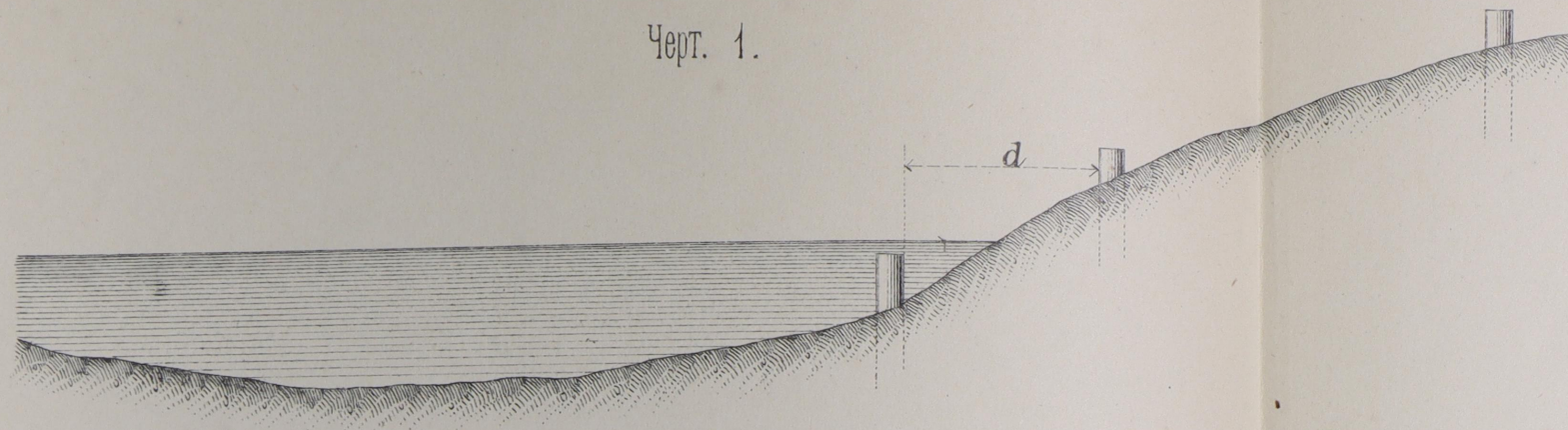
Типографія Ю. Н. Эрлихъ, Садовая, № 9.

1892.

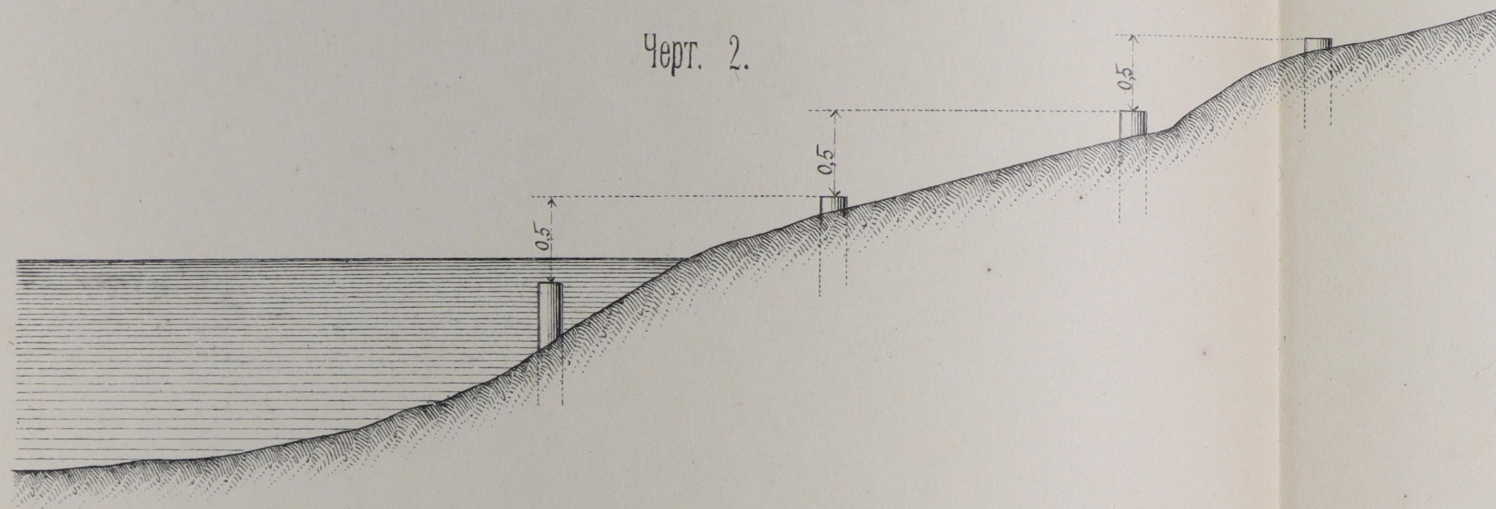
38420

1975

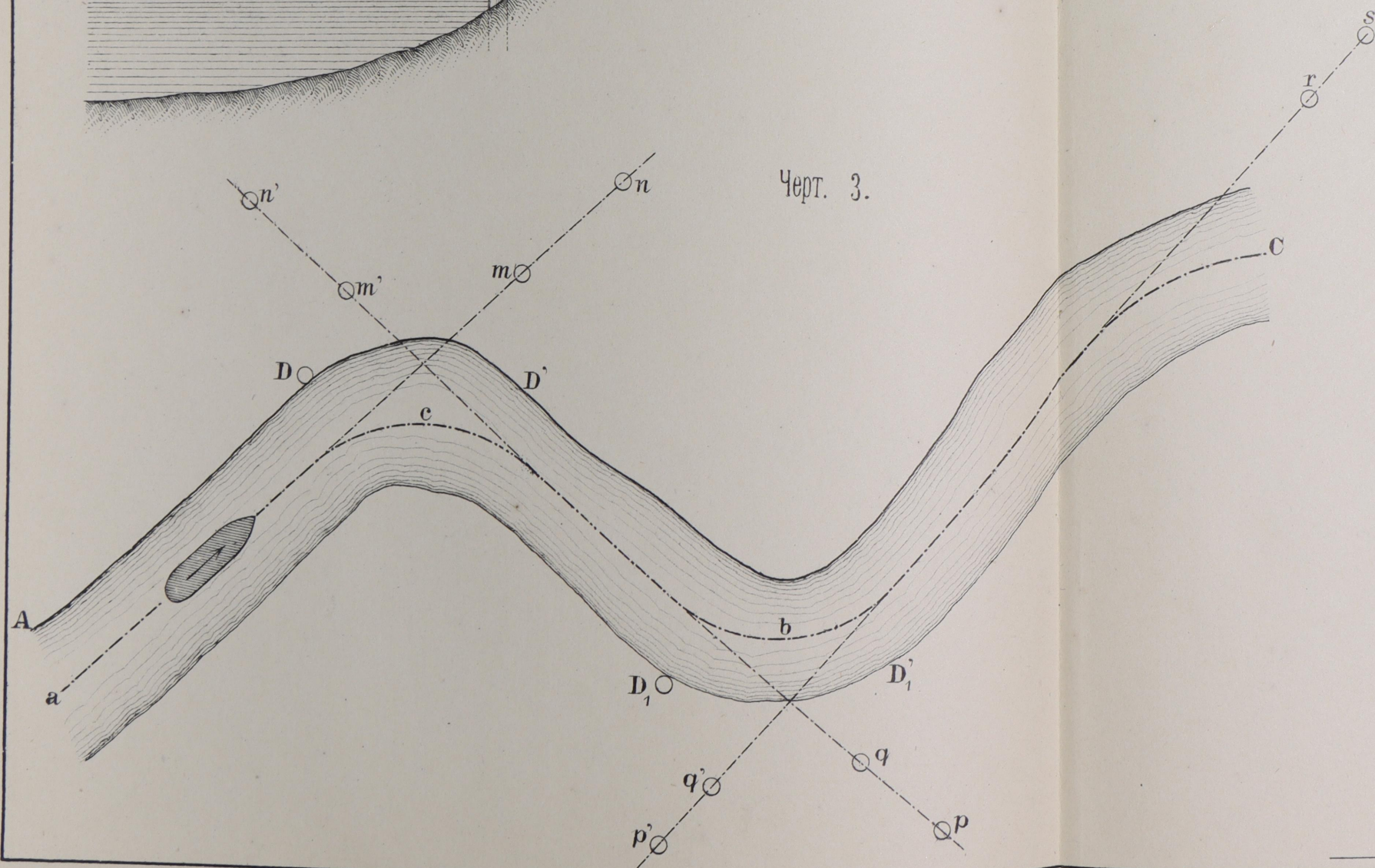
Черт. 1.



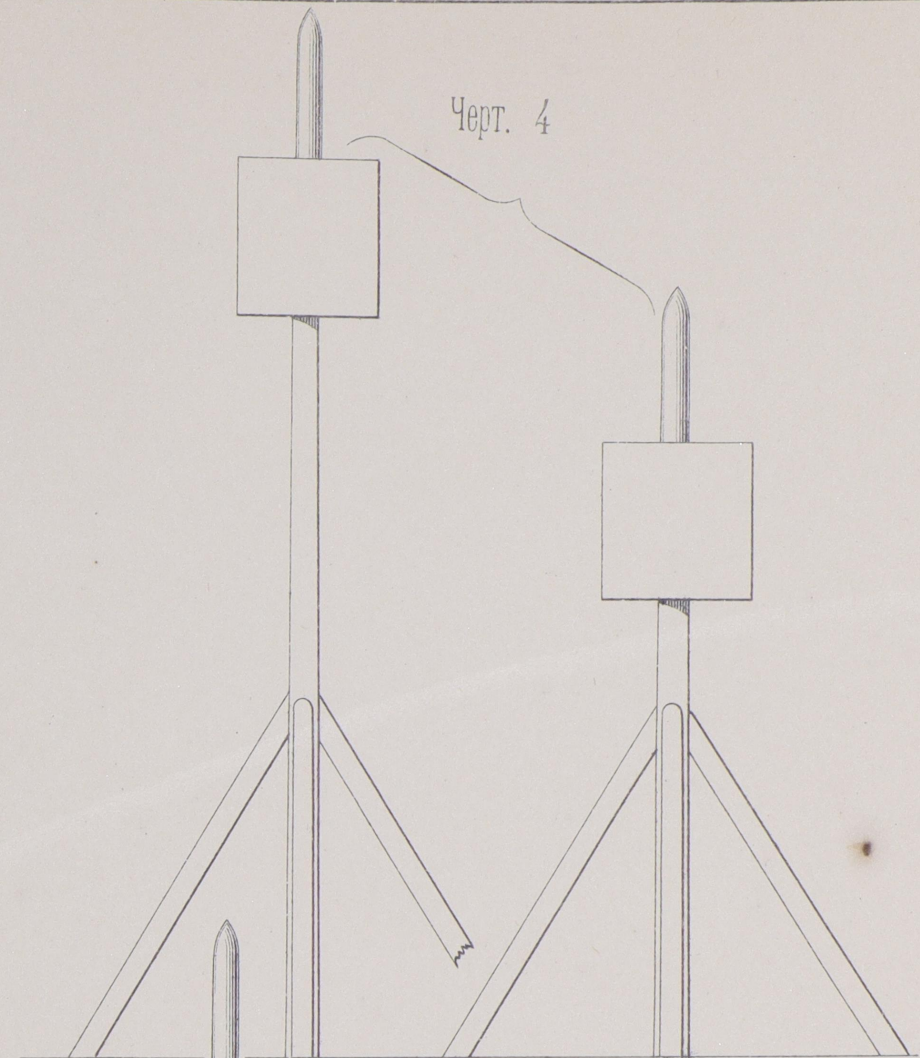
Черт. 2.



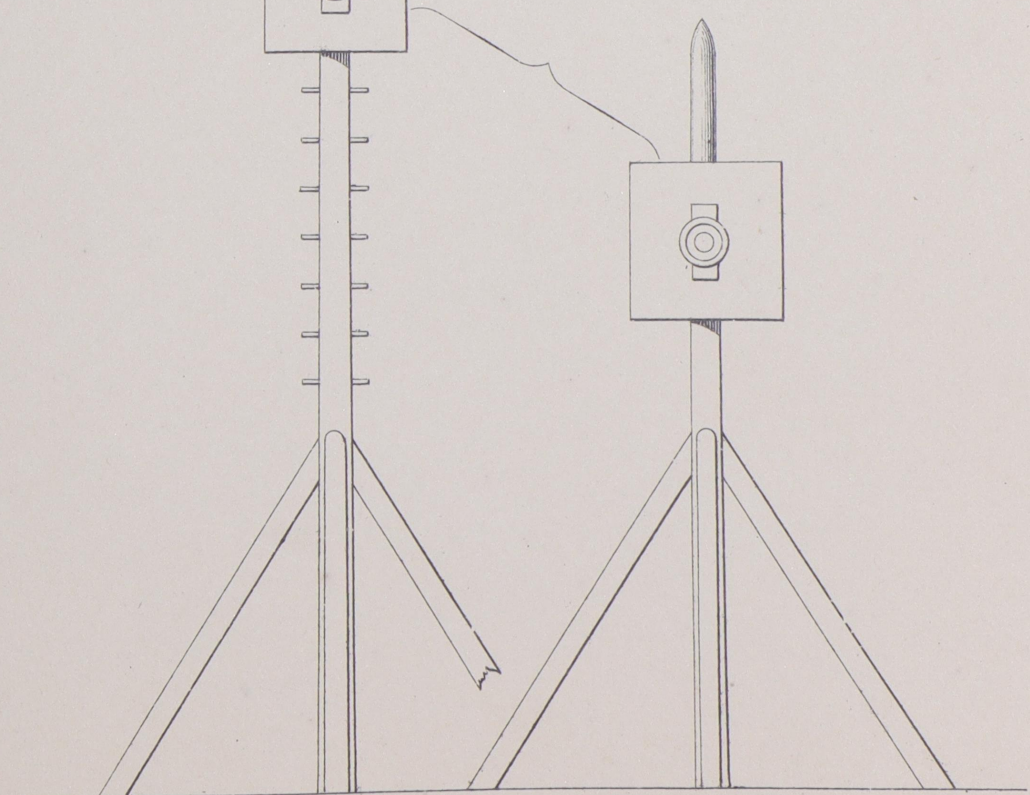
Черт. 3.

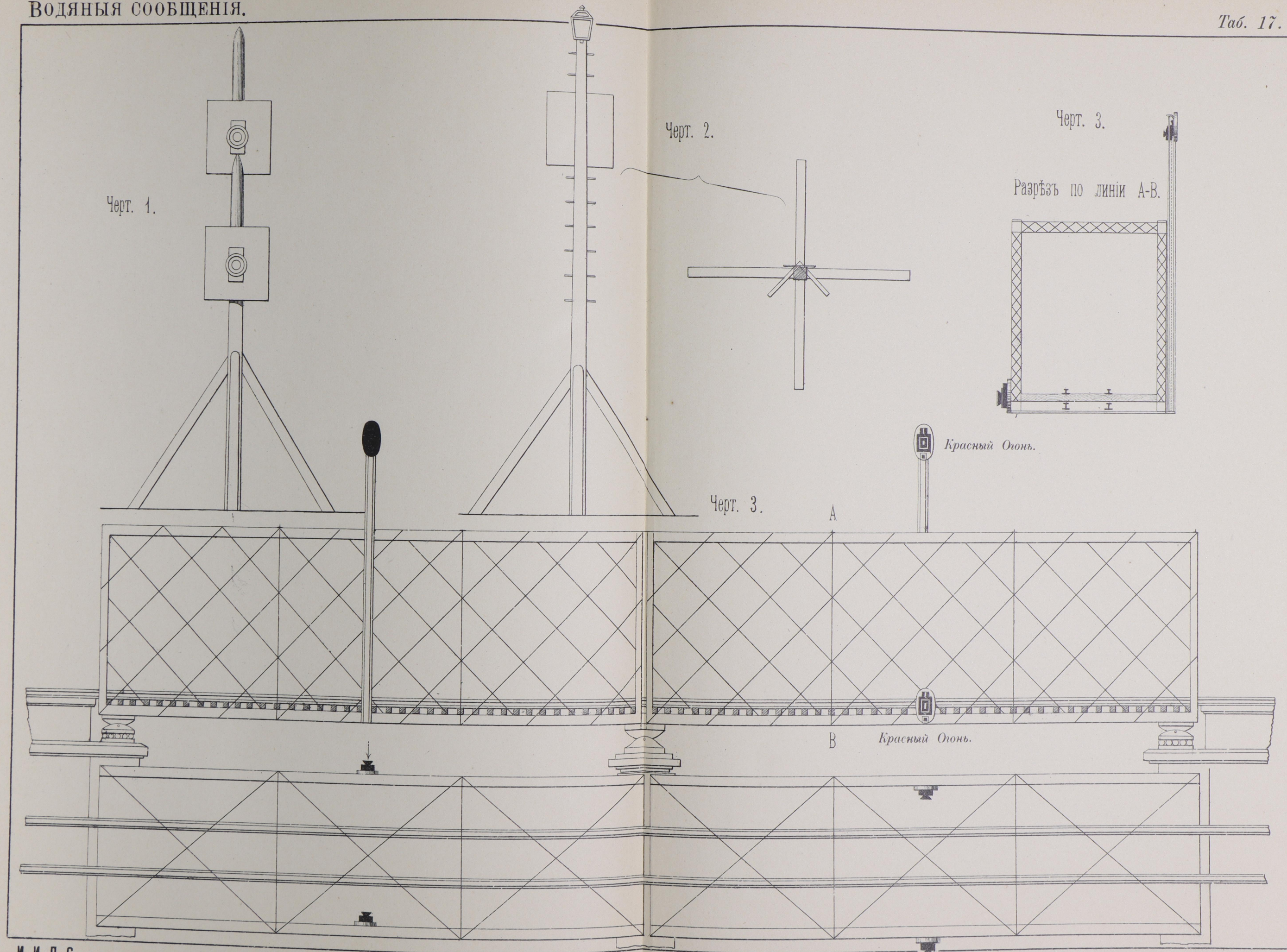


Черт. 4.

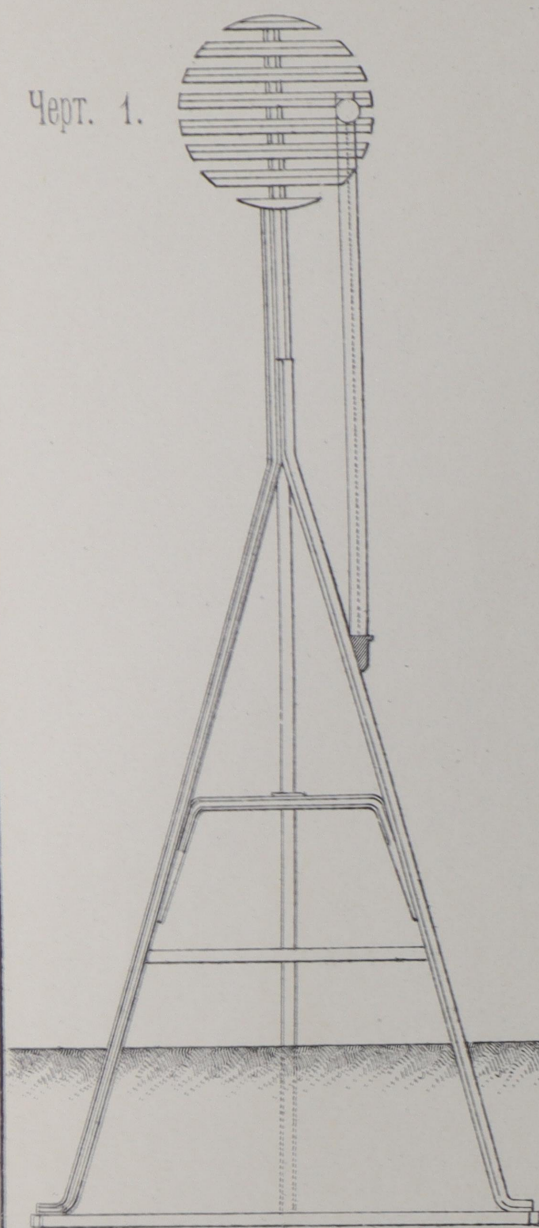


Черт. 5.

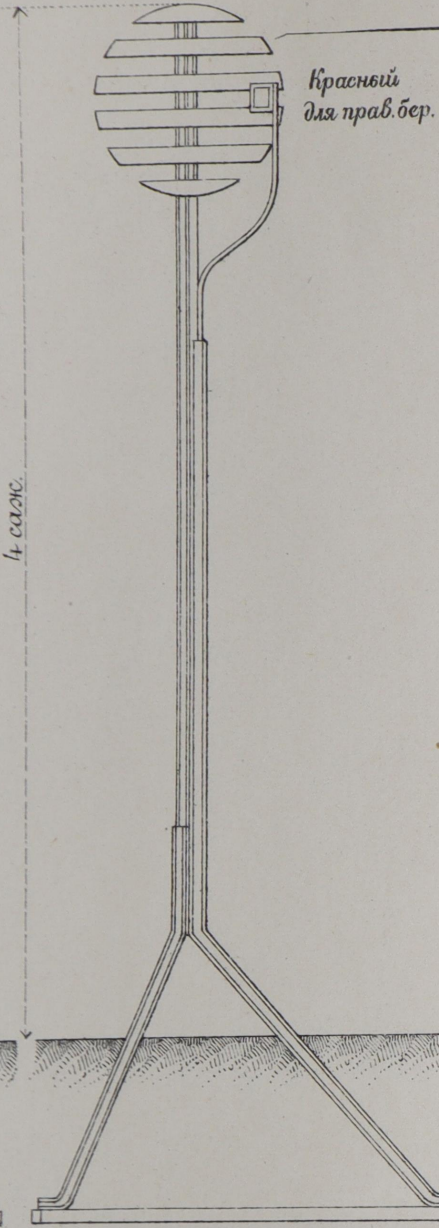




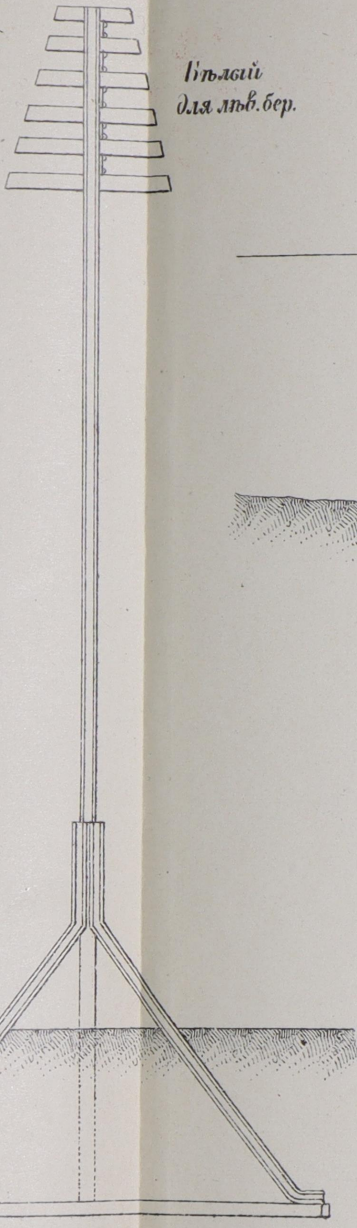
Черт. 1.



Черт. 2.

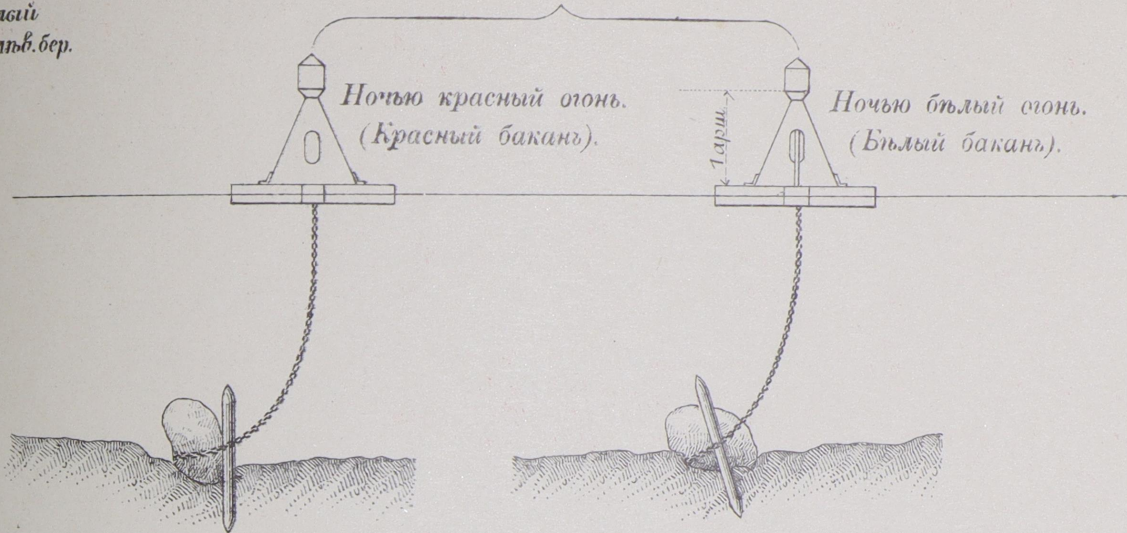


Красный
для прав. бер.

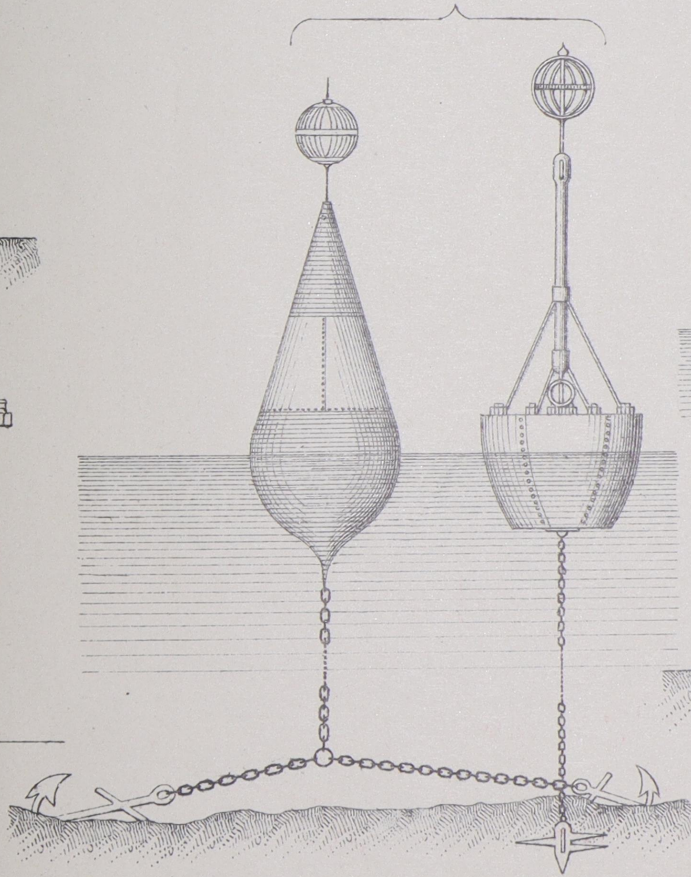


Бѣлый
для лѣв. бер.

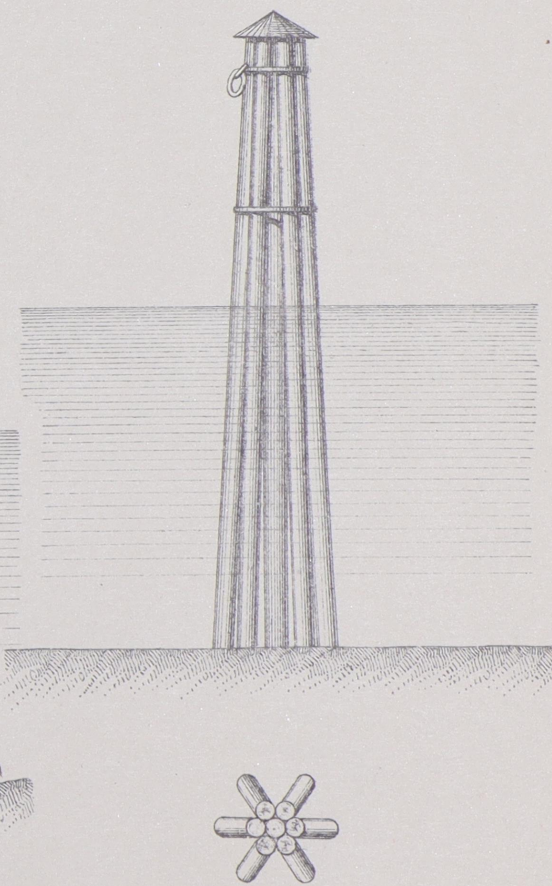
Черт. 4.



Черт. 5.



Черт. 6.



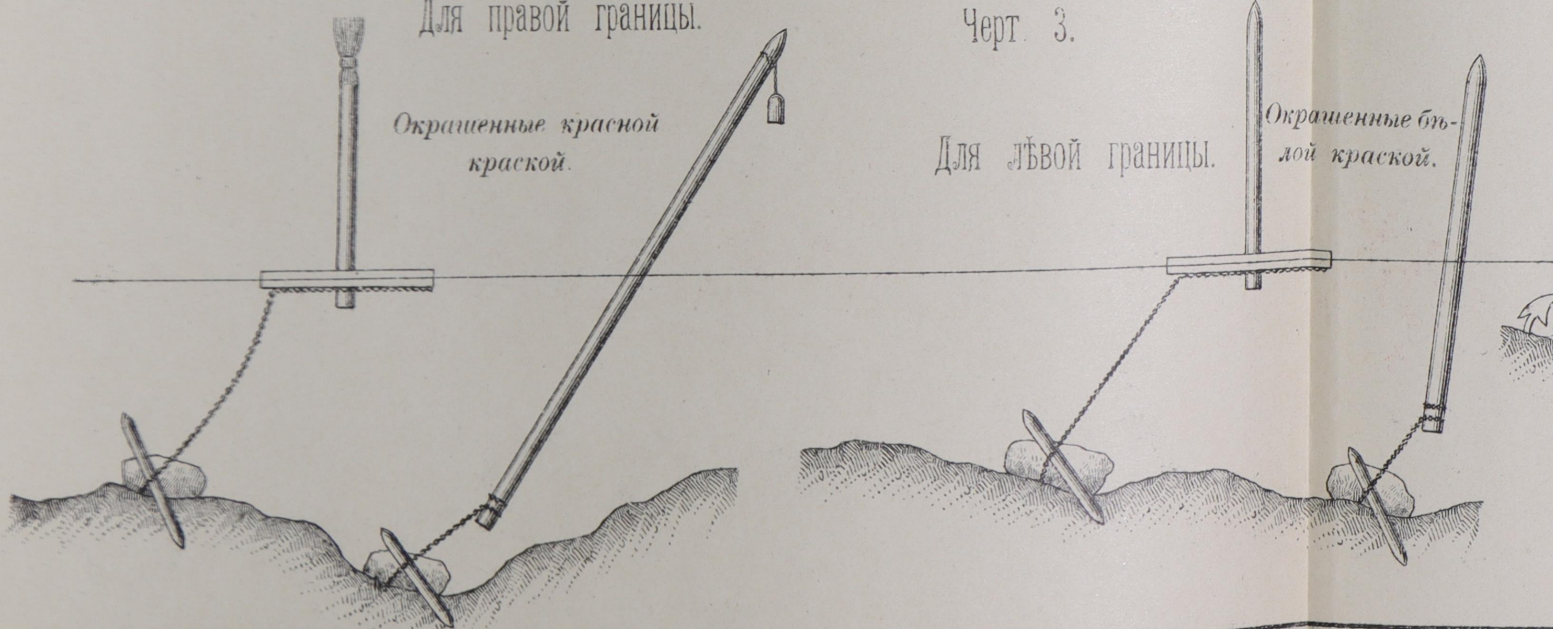
Для правой границы.

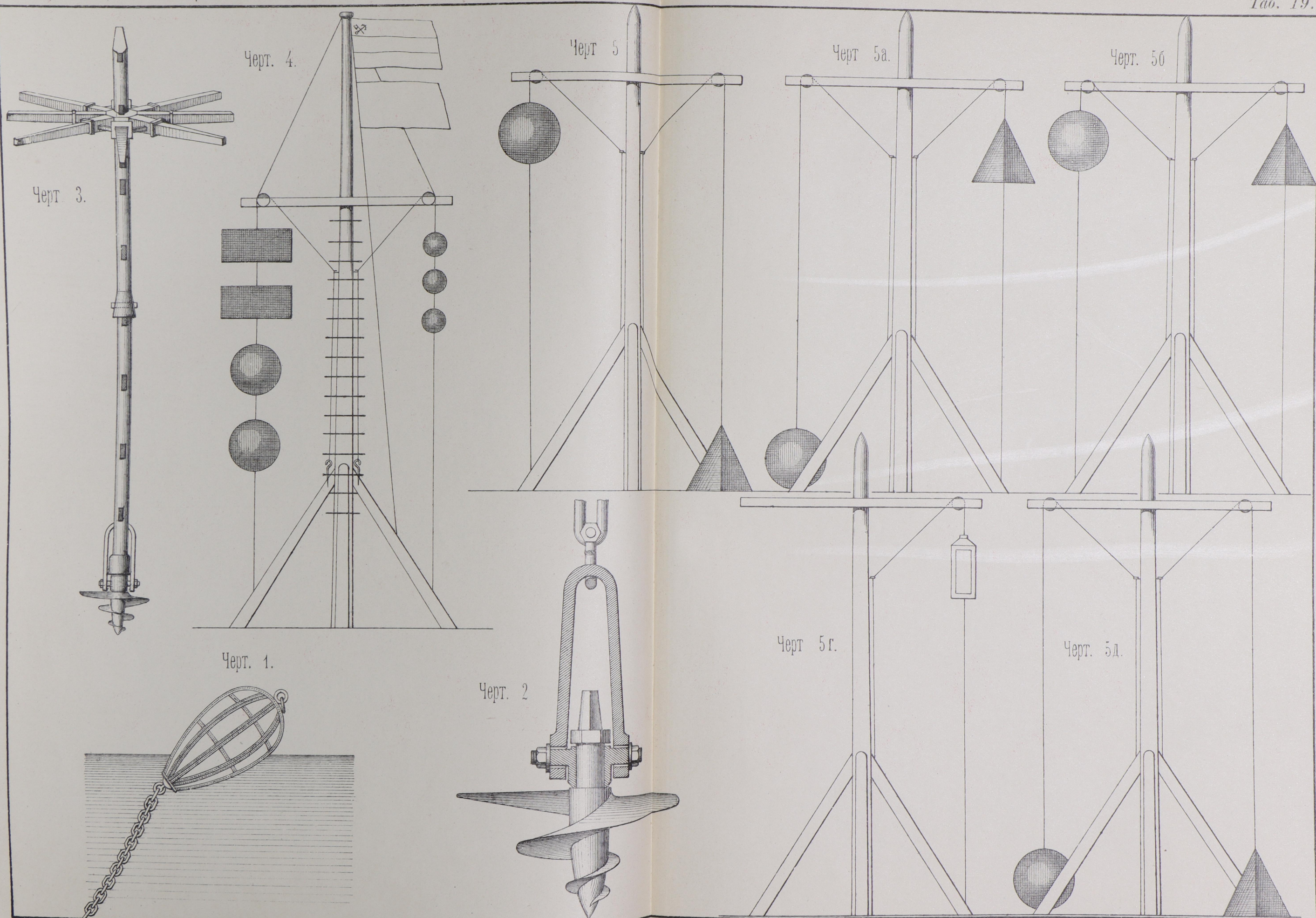
Окрашенные красной
краской.

Черт. 3.

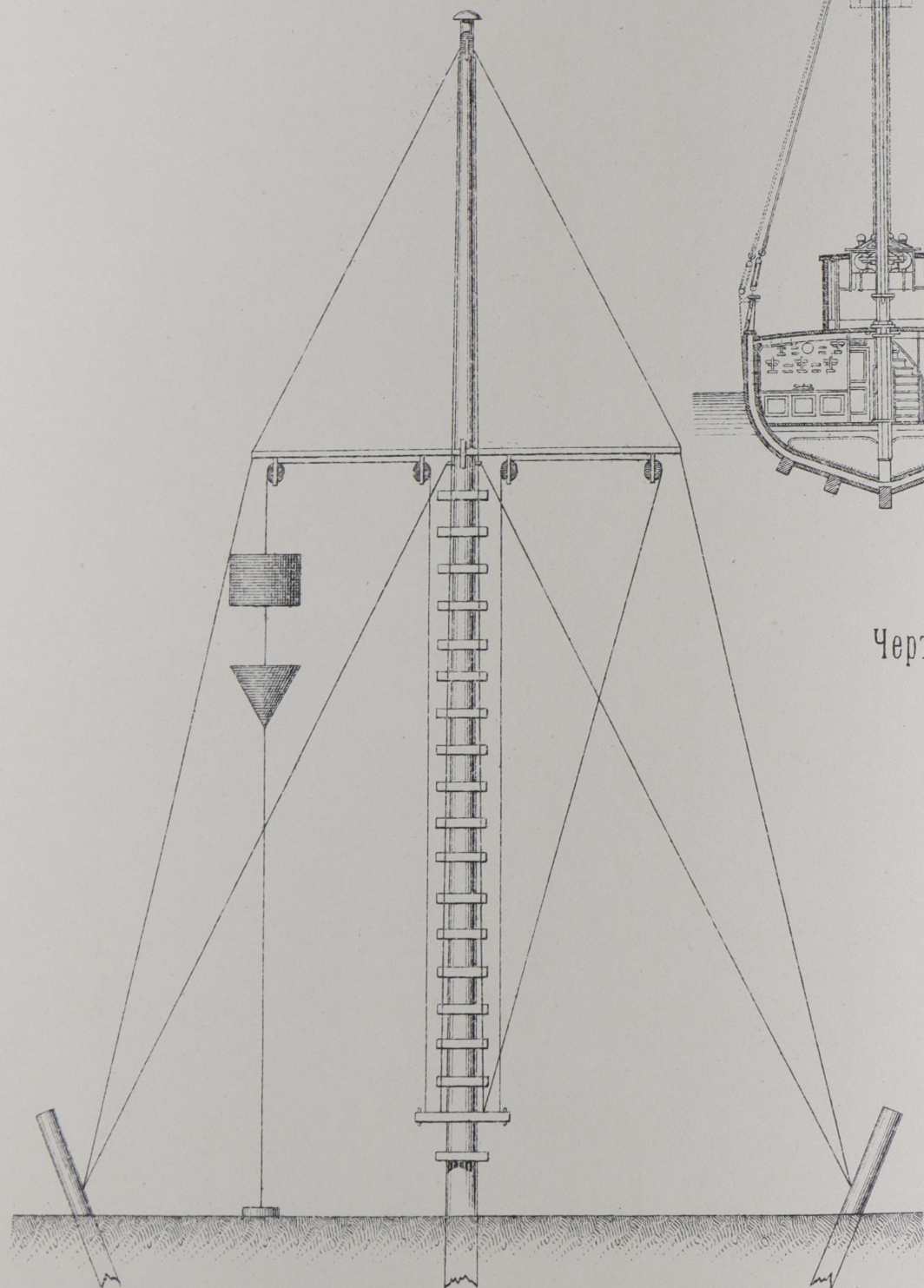
Для лѣвой границы.

Окрашенные бѣ-
лой краской.

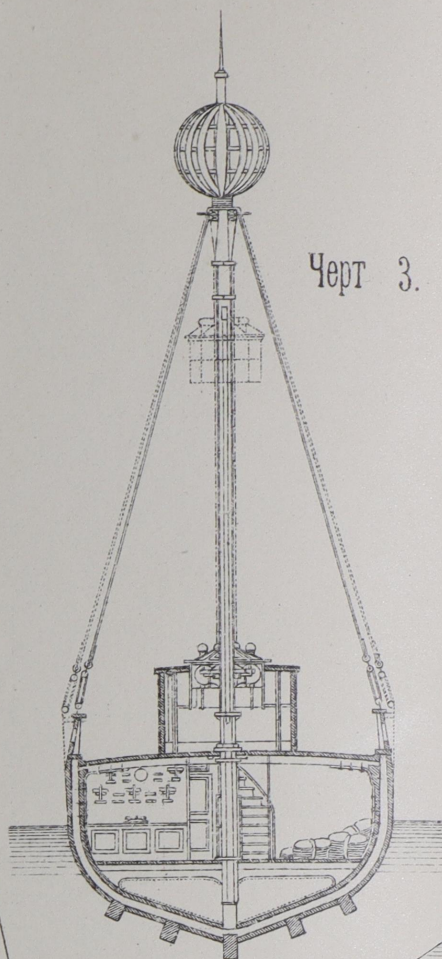




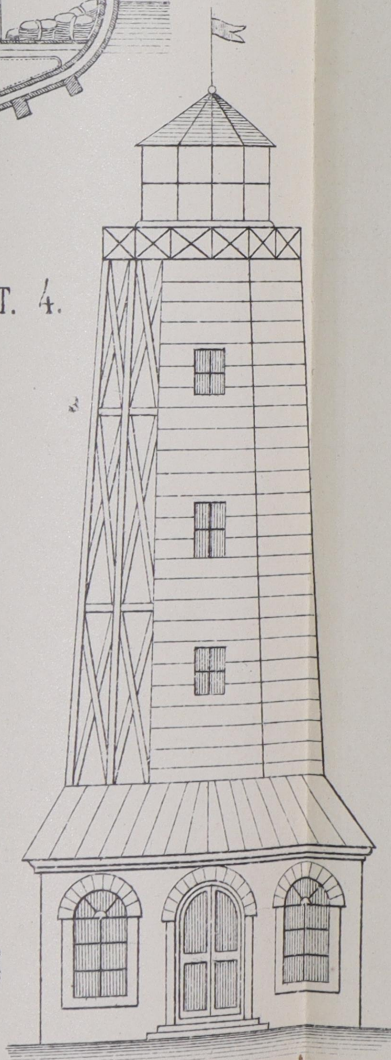
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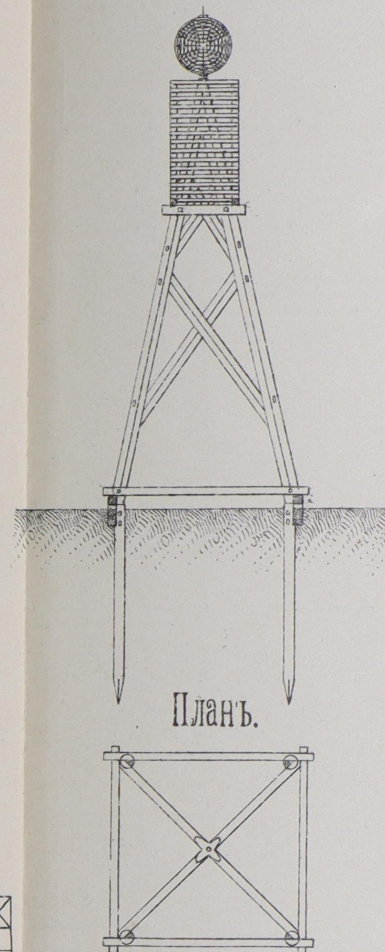
Черт. 3.



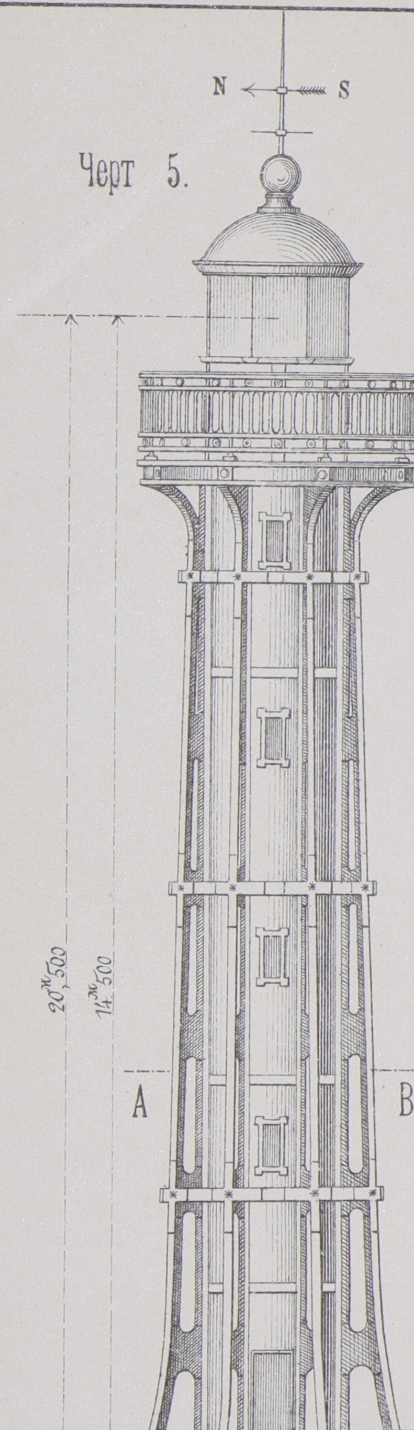
Черт. 4.



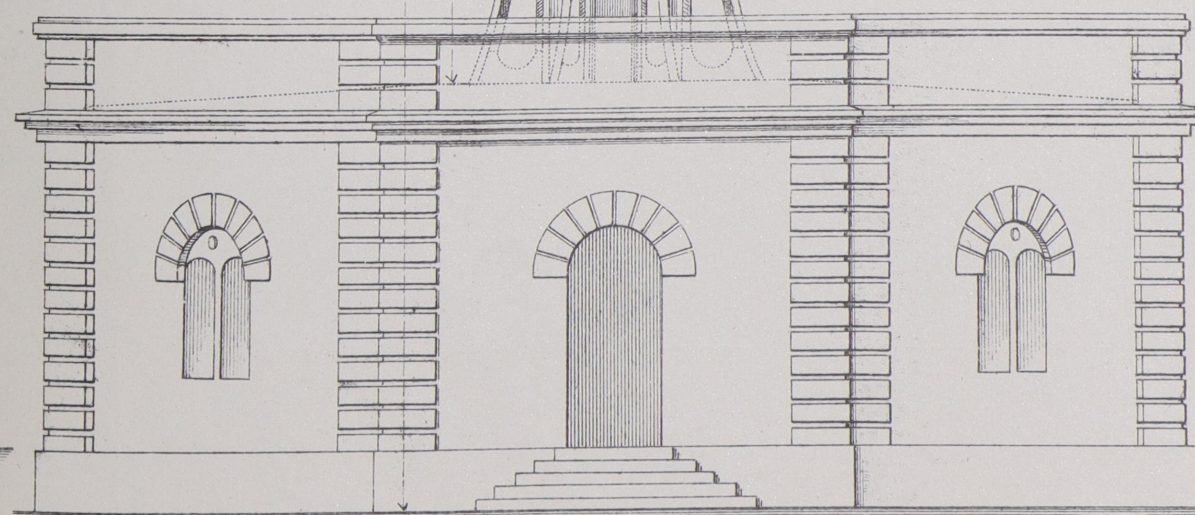
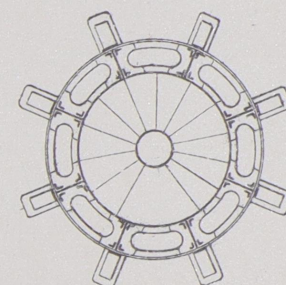
Черт. 2.



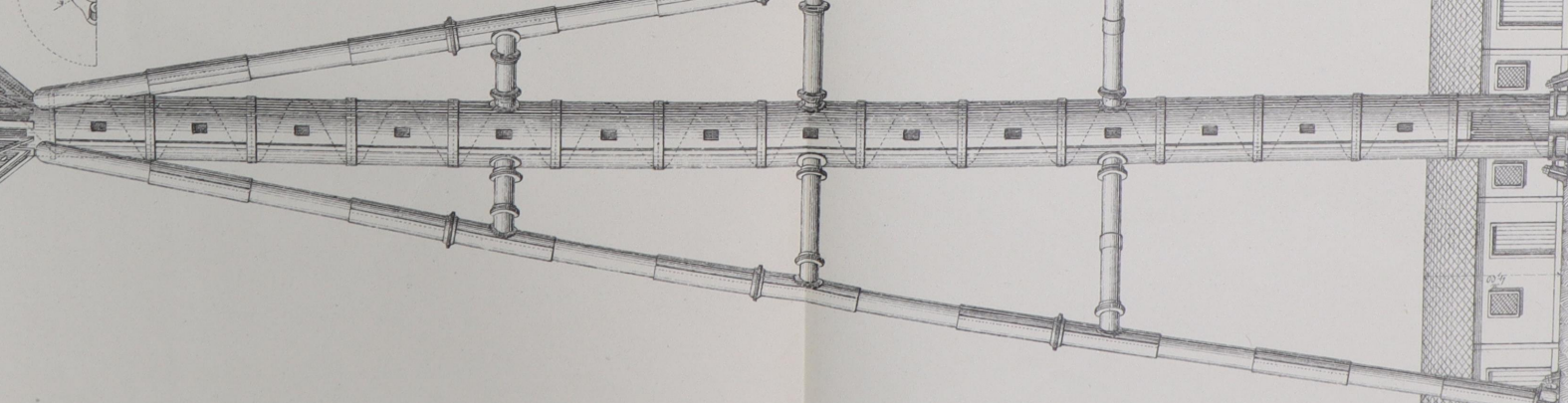
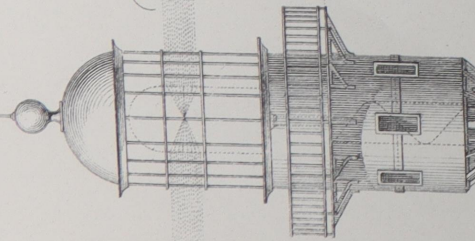
Черт. 5.



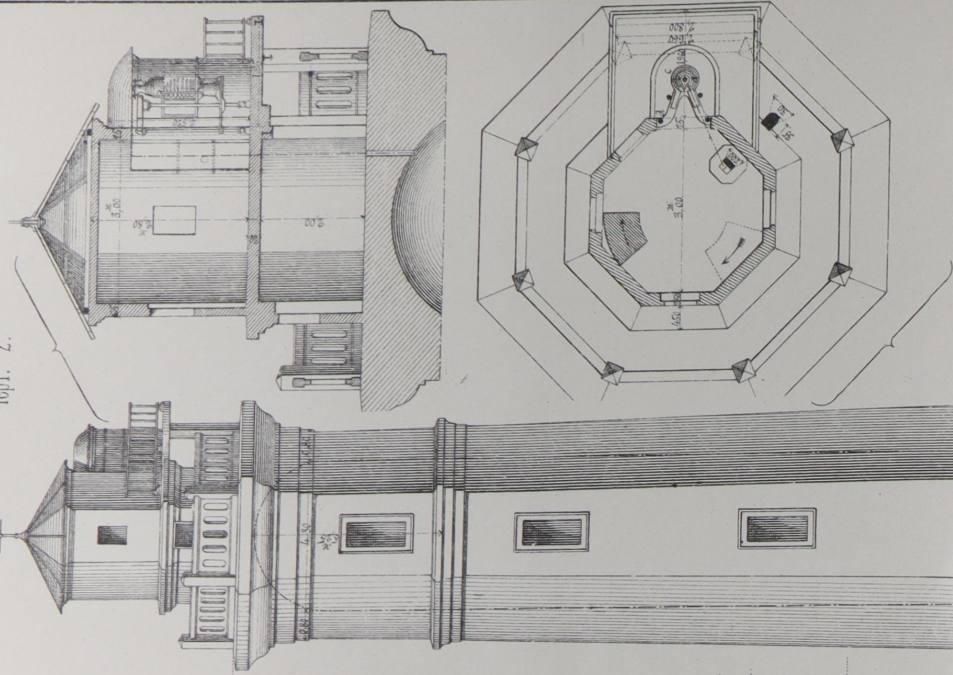
Черт. 5 а.
Разрѣзъ по А-В.



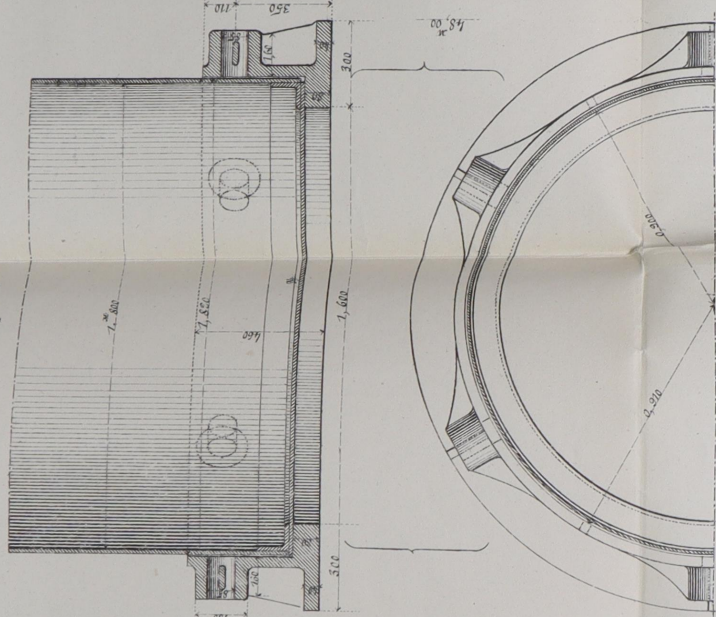
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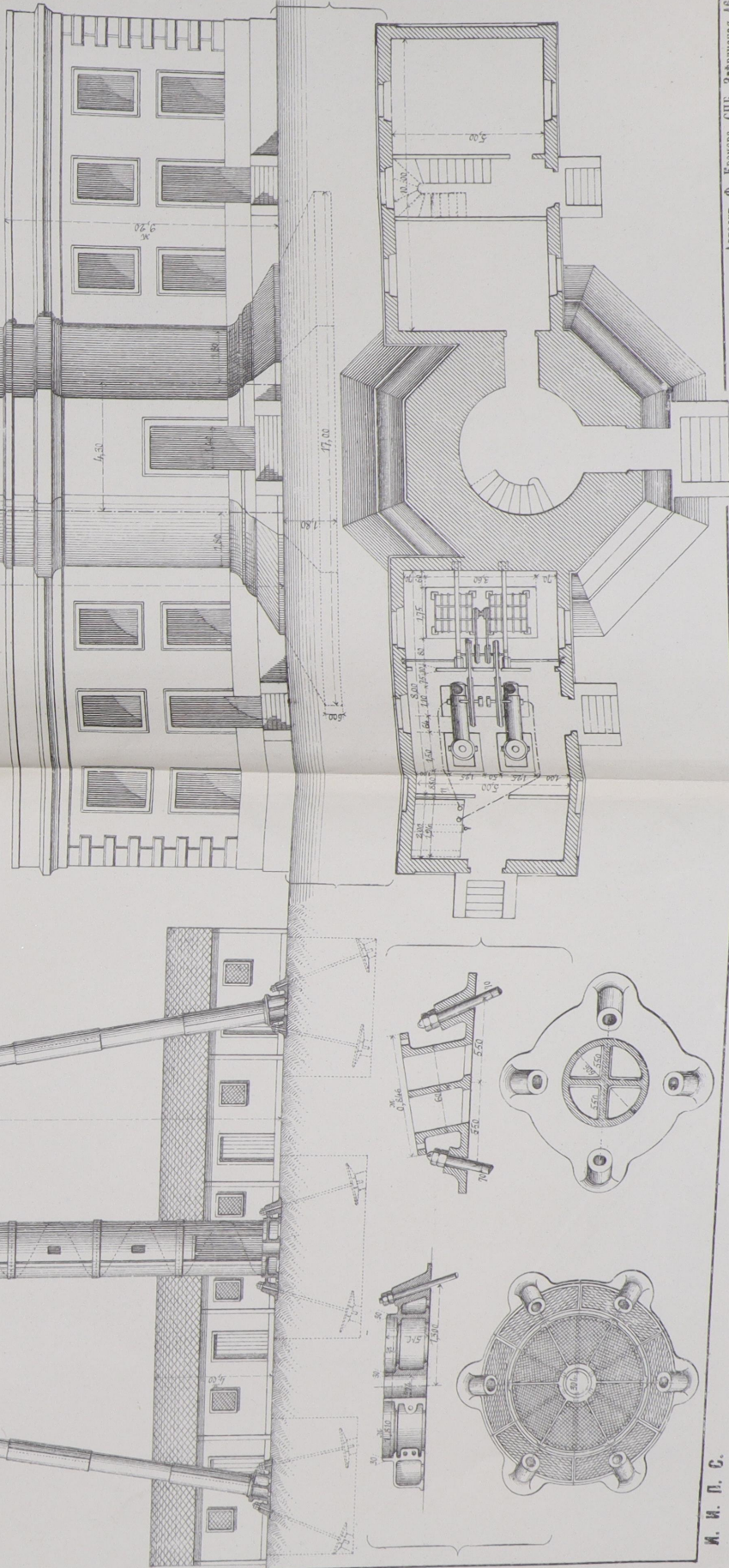
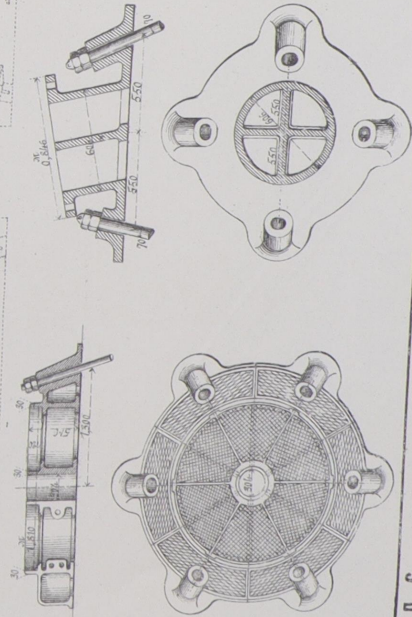
Черт. 2.

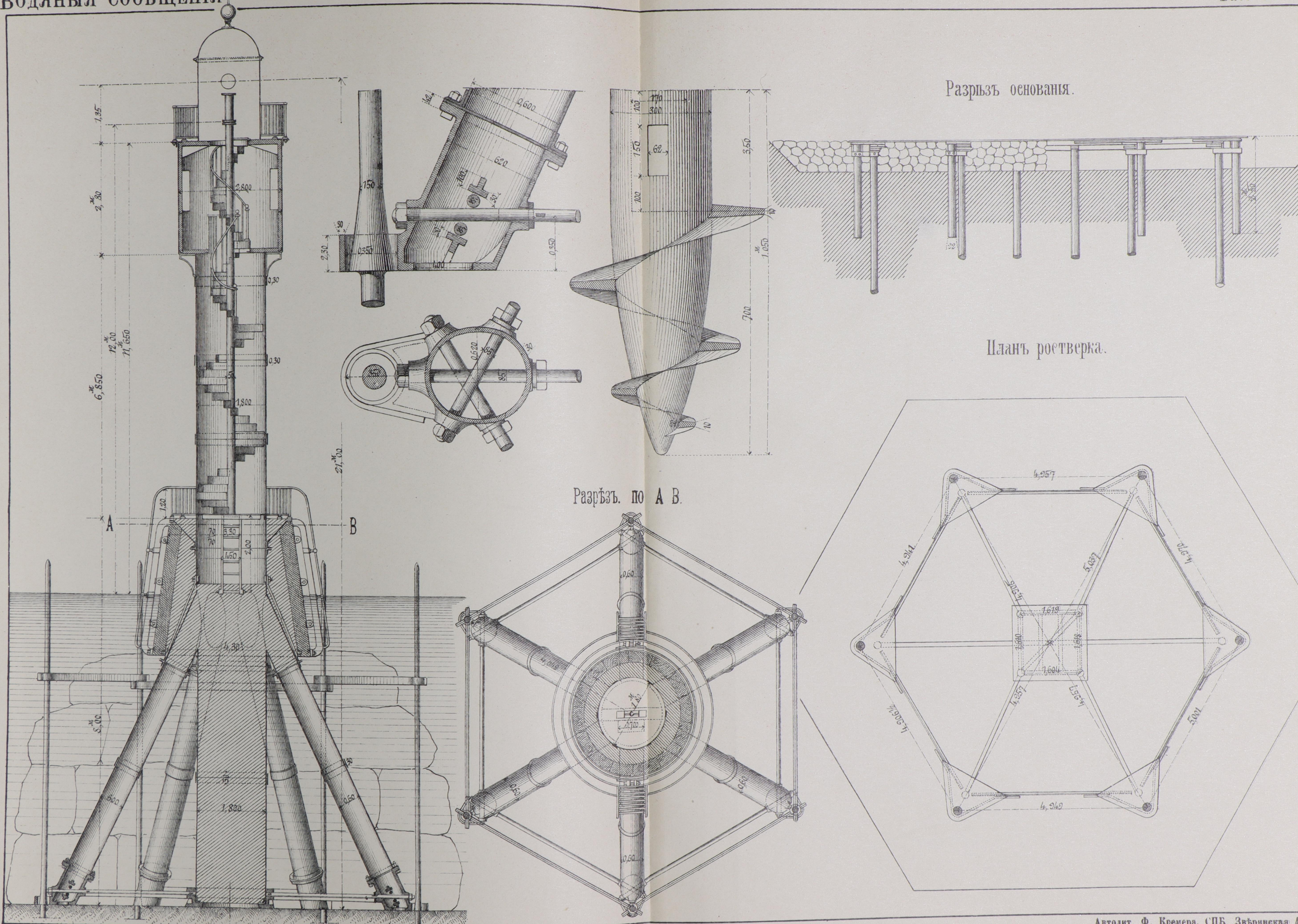


Черт. 3

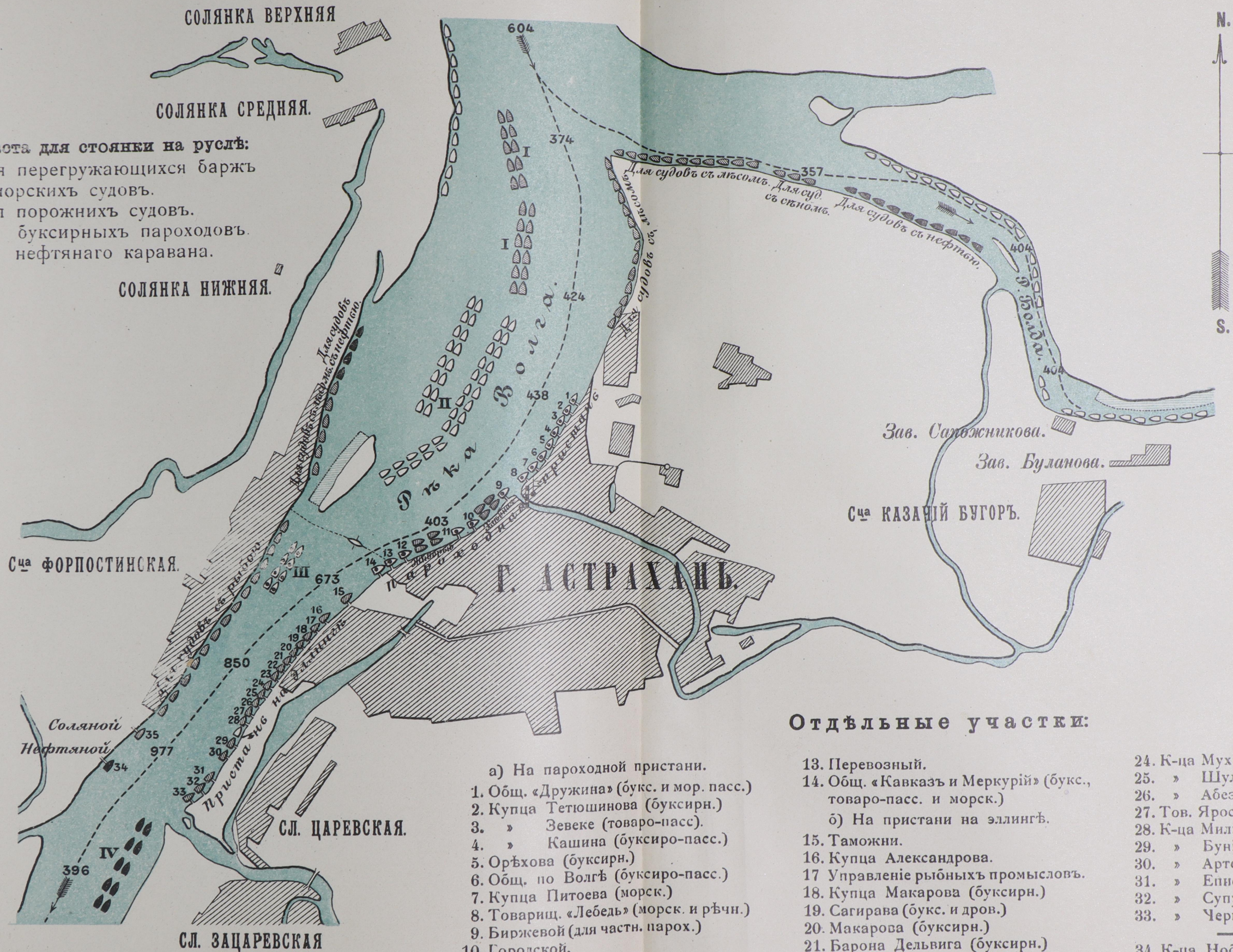


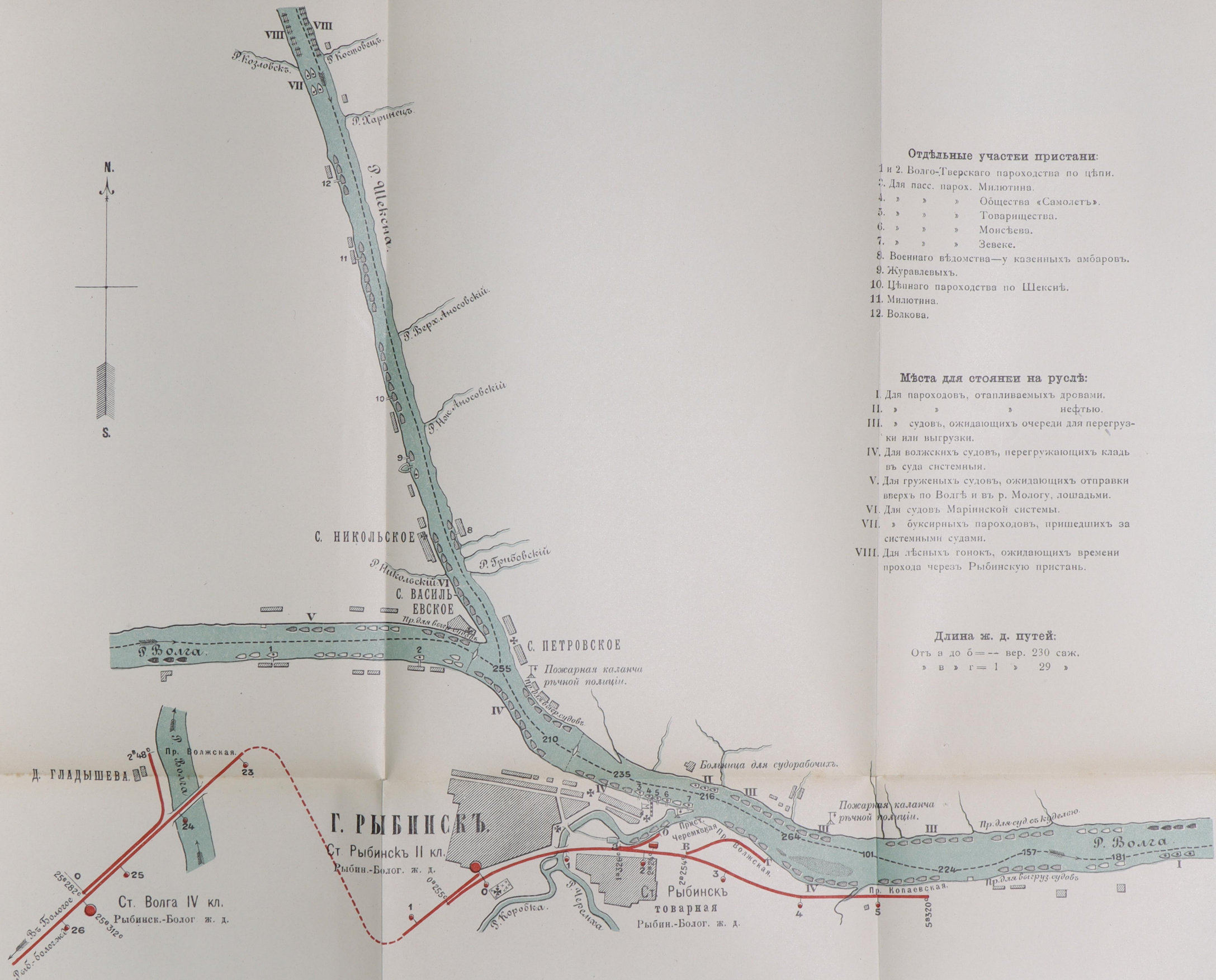
Детали къ таблицѣ 22.

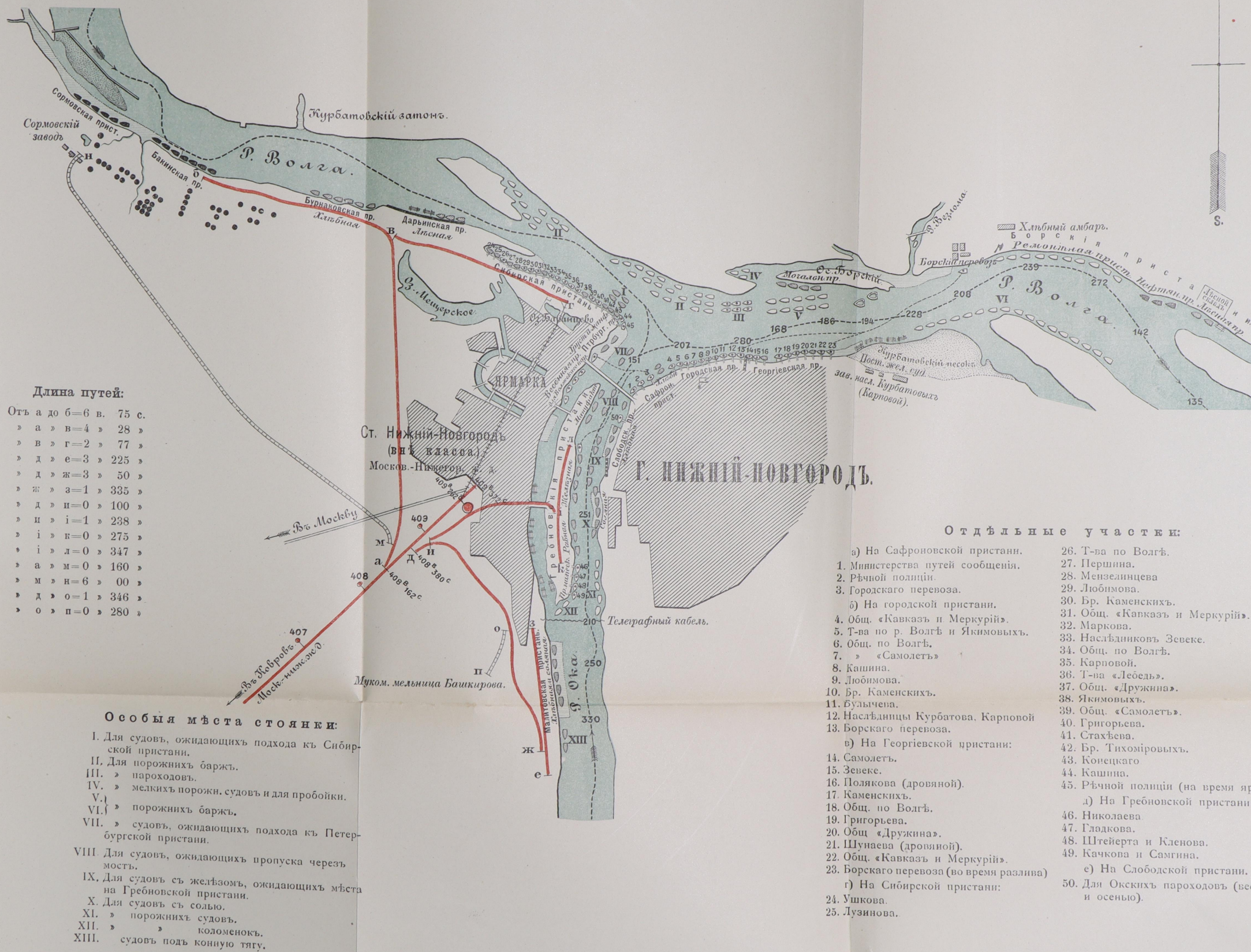




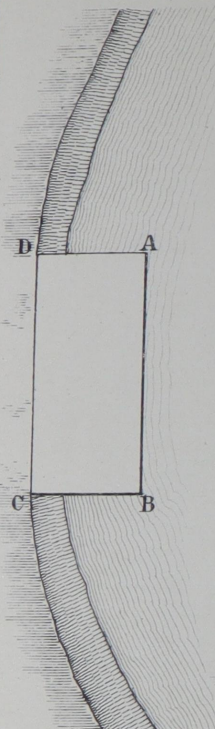
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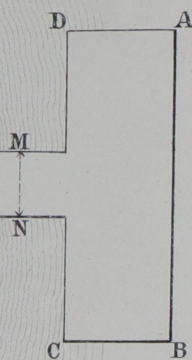




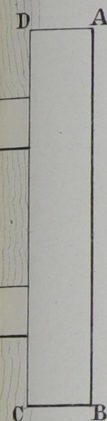
Черт. 1.



Черт. 2

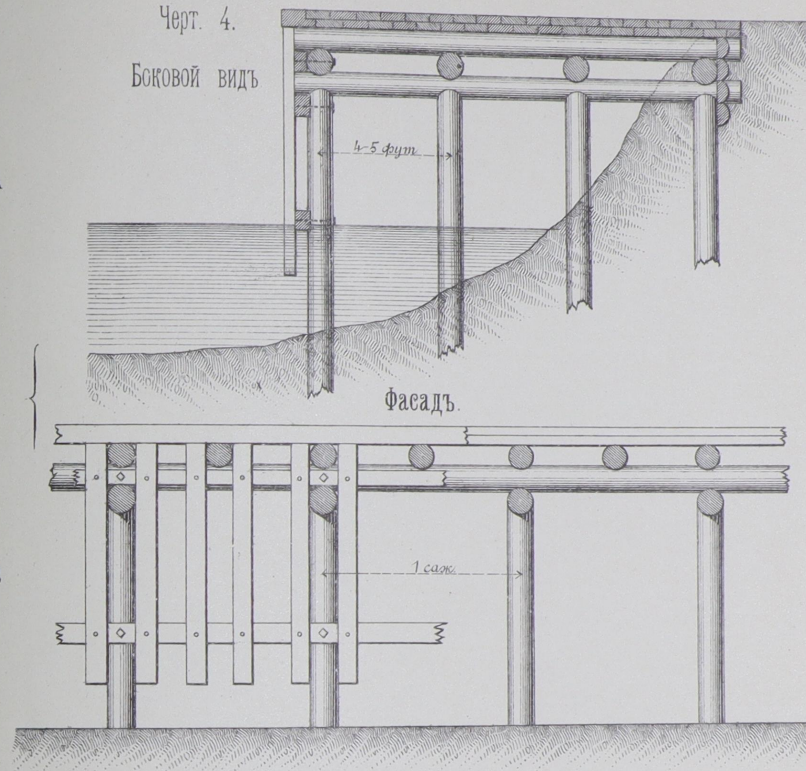


Черт. 3



Черт. 4.

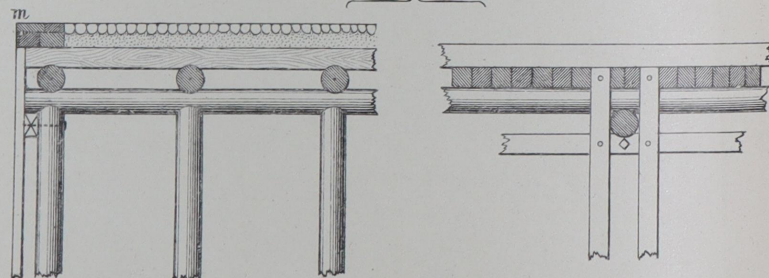
Боковой видъ



Черт. 5.

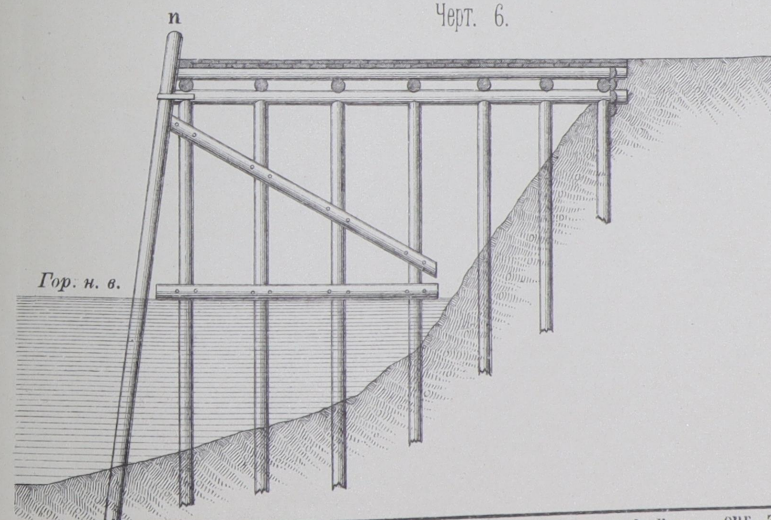
Разрѣзъ.

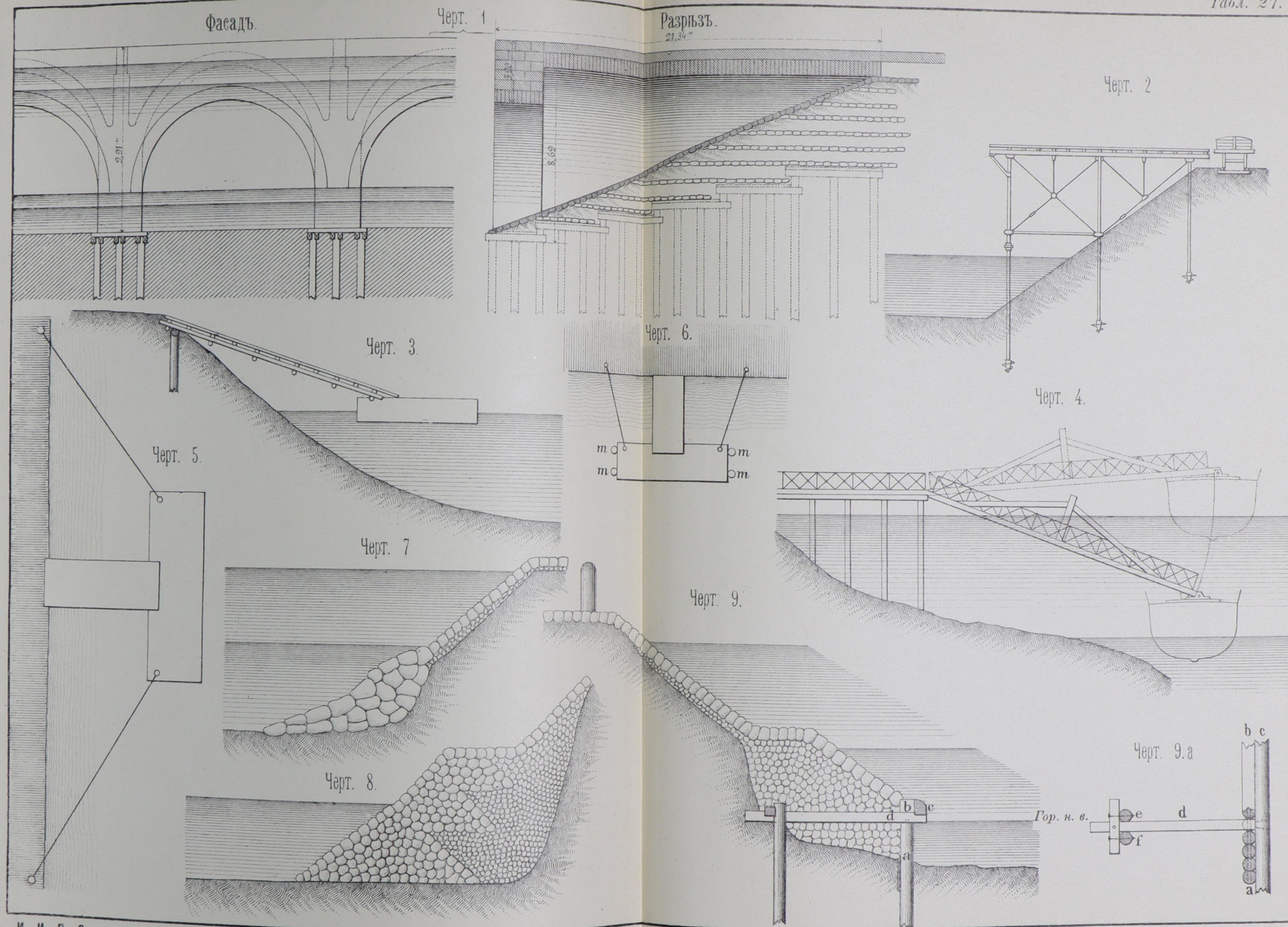
Фасадъ.

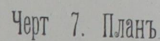
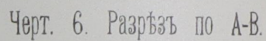
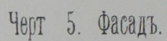
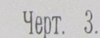
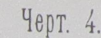


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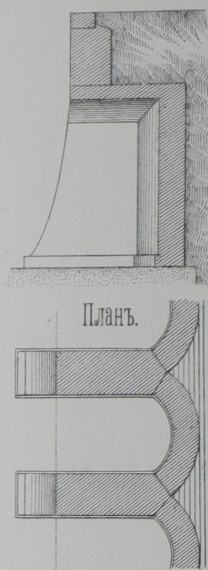
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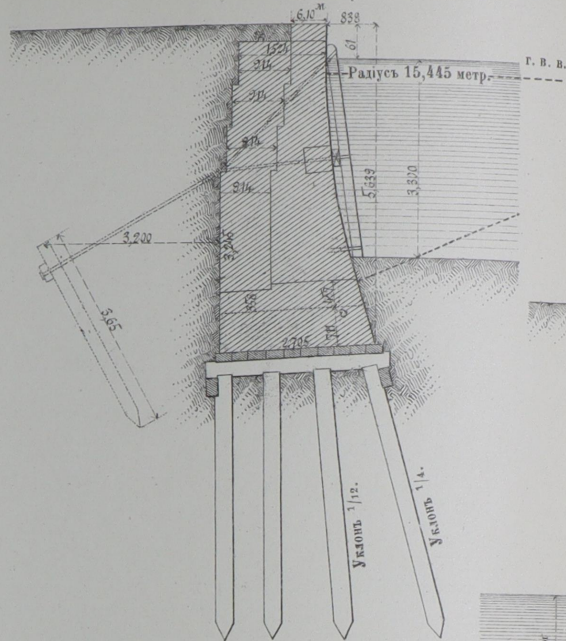




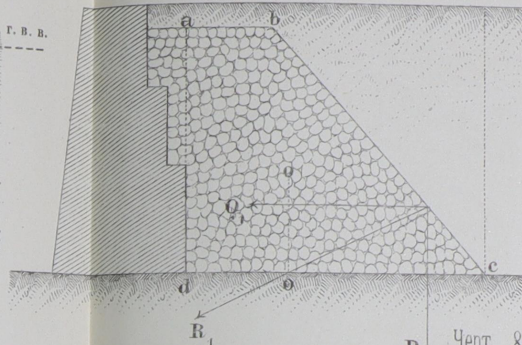
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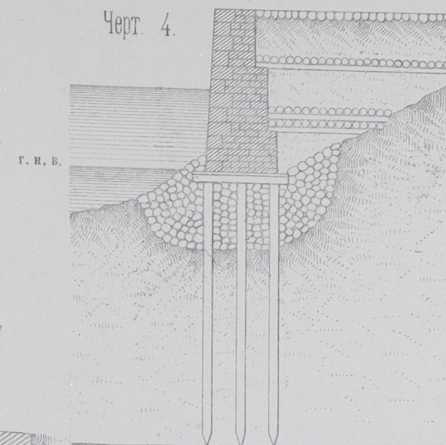
Черт. 2.



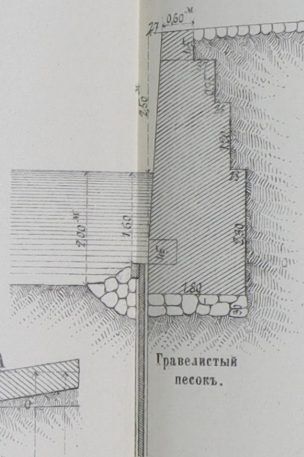
Черт. 3.



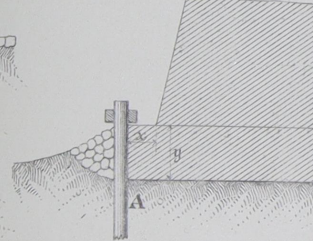
Черт. 4.



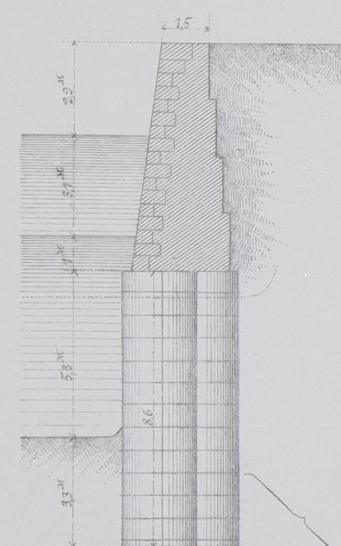
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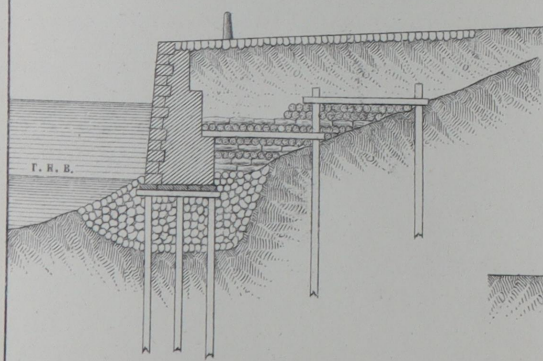
Черт. 8.



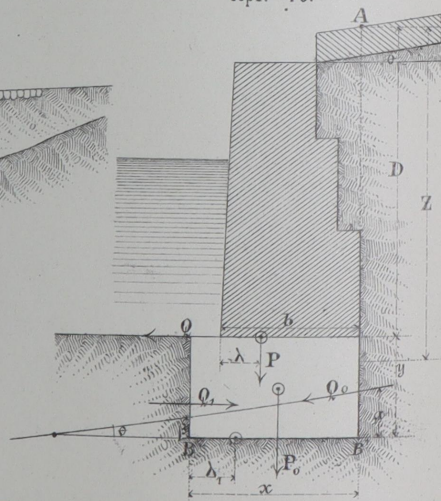
Черт. 9.



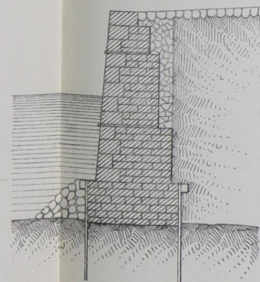
Черт. 5.



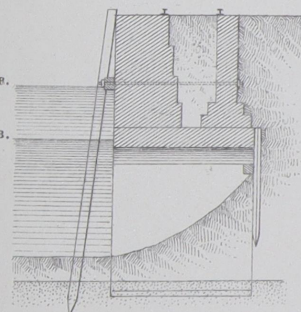
Черт. 10.



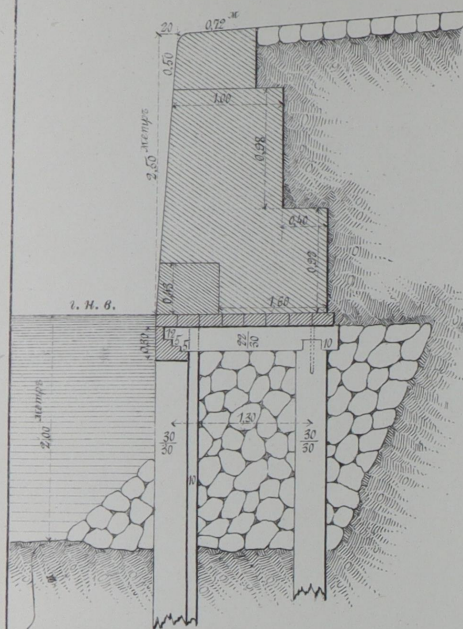
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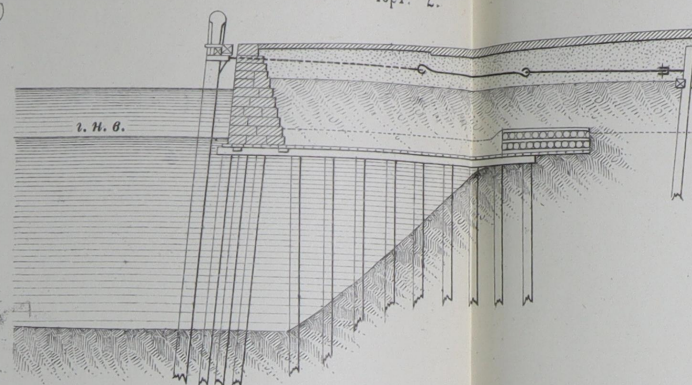
Черт. 11.



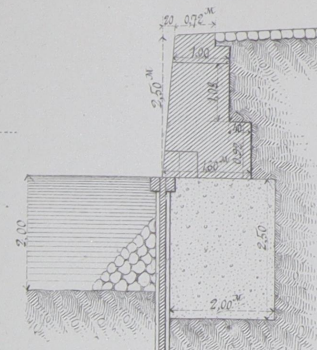
Черт. 1. Разрѣзъ.



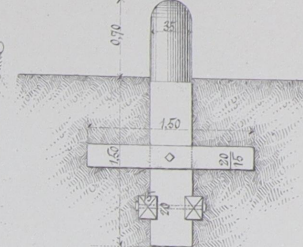
Черт. 2.



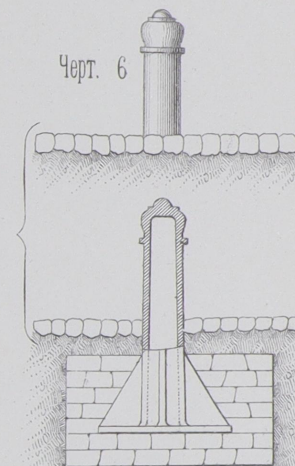
Черт. 4.



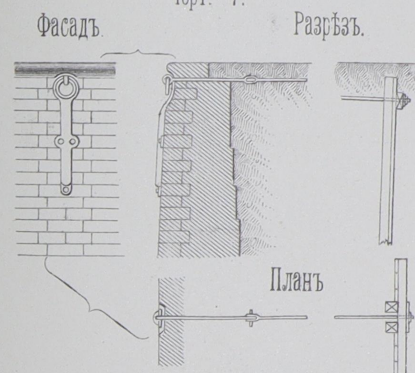
Черт. 5.



Черт. 6



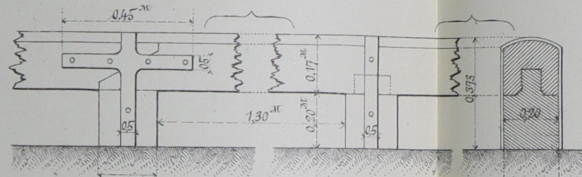
Черт. 7.



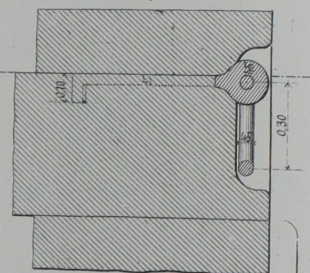
Разрѣзъ.

Планъ

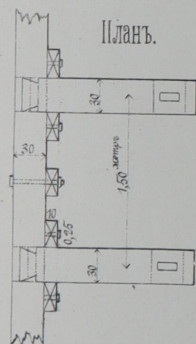
Черт. 11.



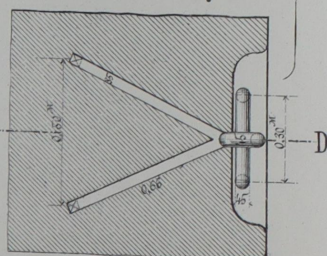
Черт. 8. Разрѣзъ по C-D.



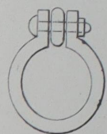
Планъ.



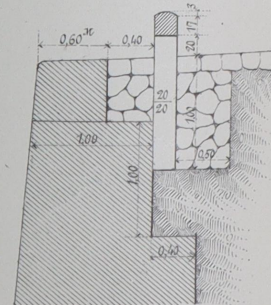
Планъ по шву.



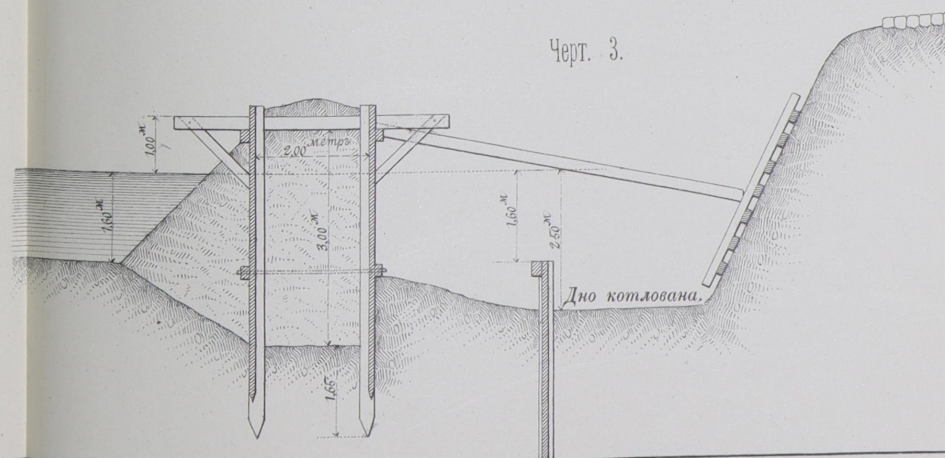
Черт. 9.



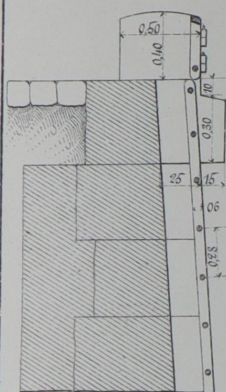
Черт. 10.



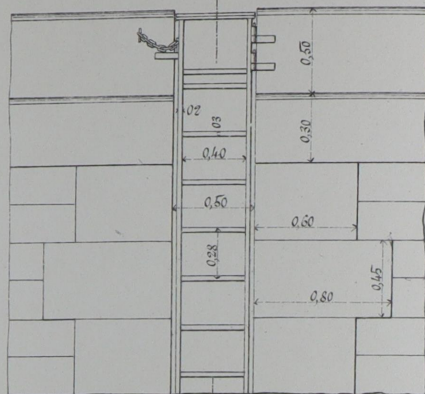
Черт. 3.



Разрѣзъ по А-В.

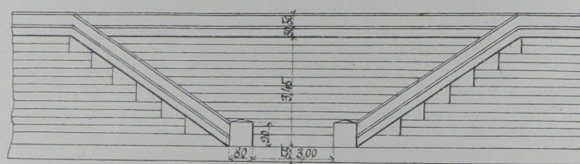


Черт. 1.

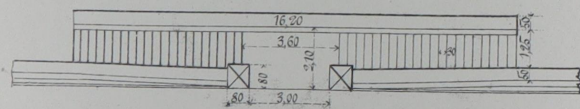


Фасадъ.

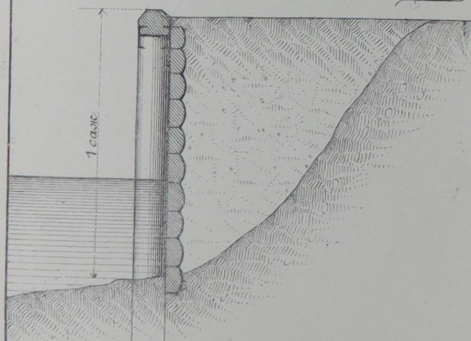
Черт. 2. Фасадъ.



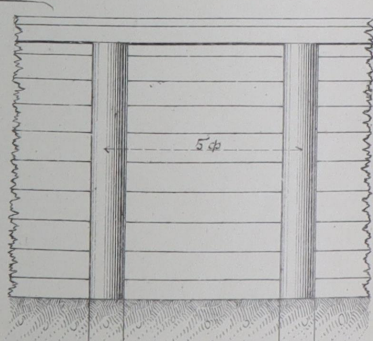
Планъ.



Разрѣзъ.

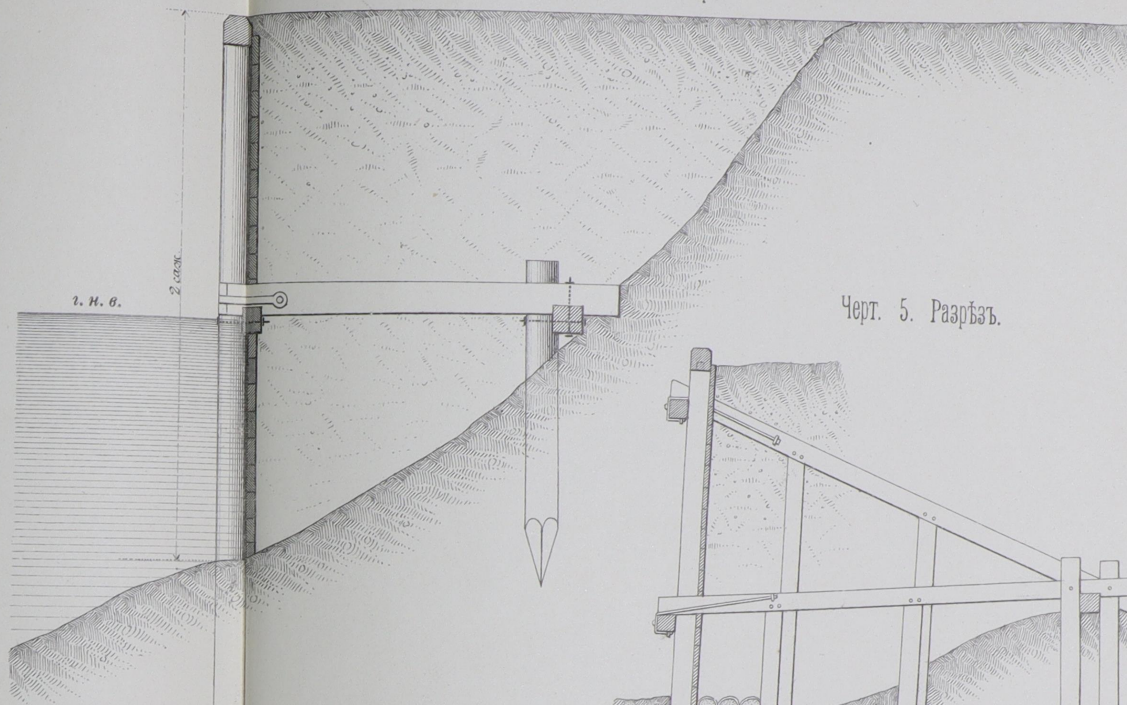


Черт. 3.



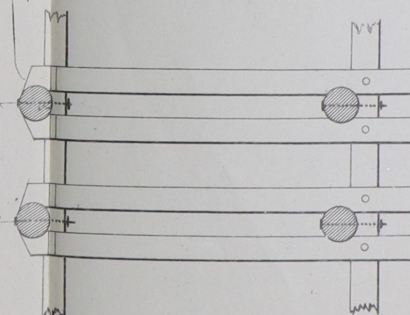
Фасадъ.

Черт. 4. Разрѣзъ.

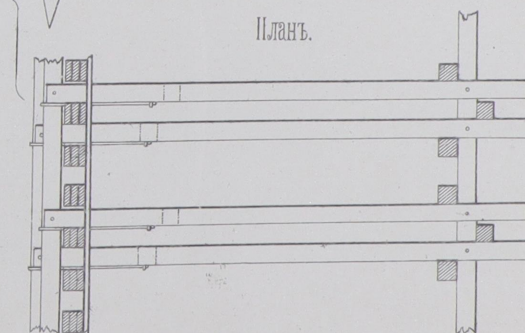


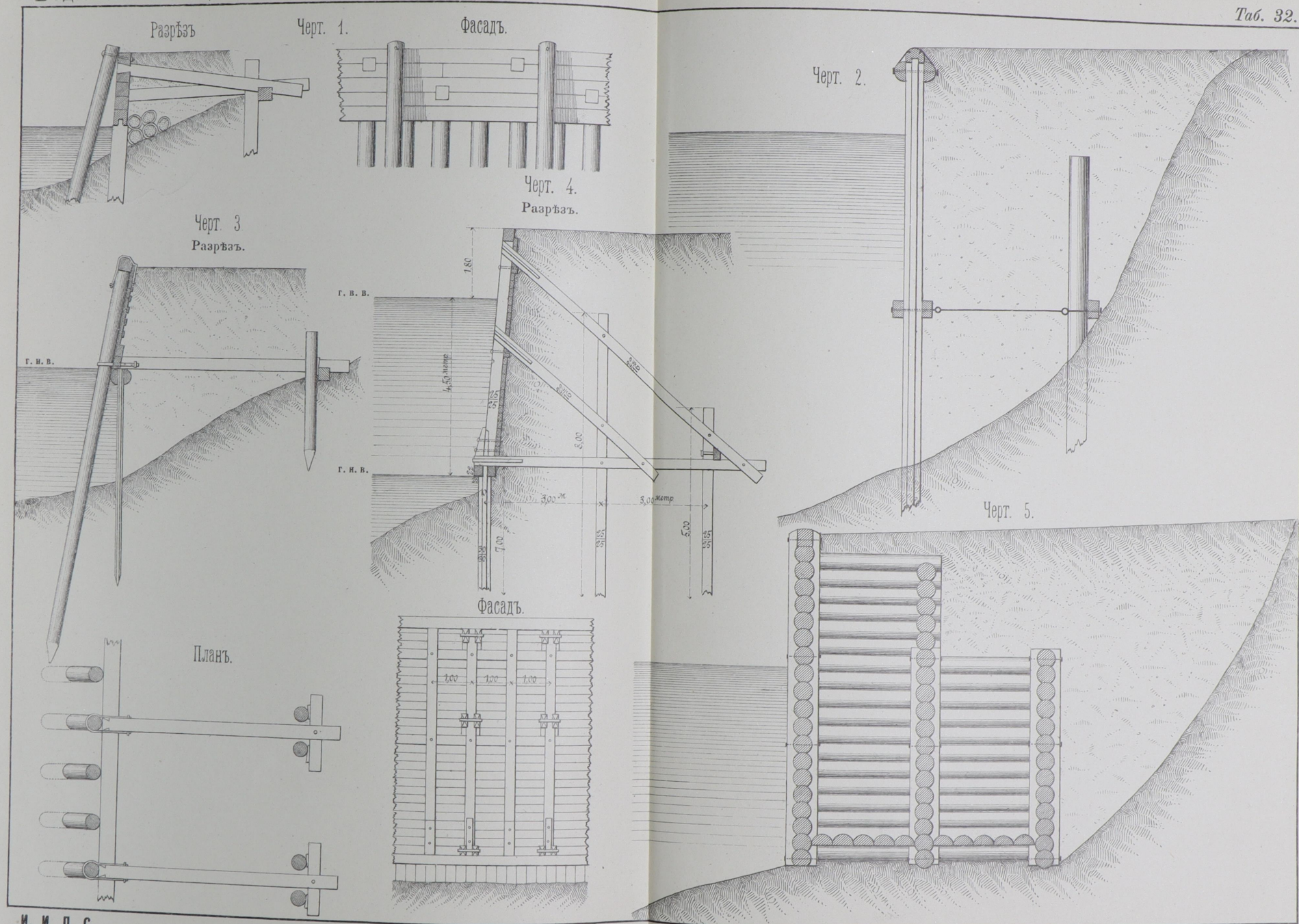
Черт. 5. Разрѣзъ.

Планъ.

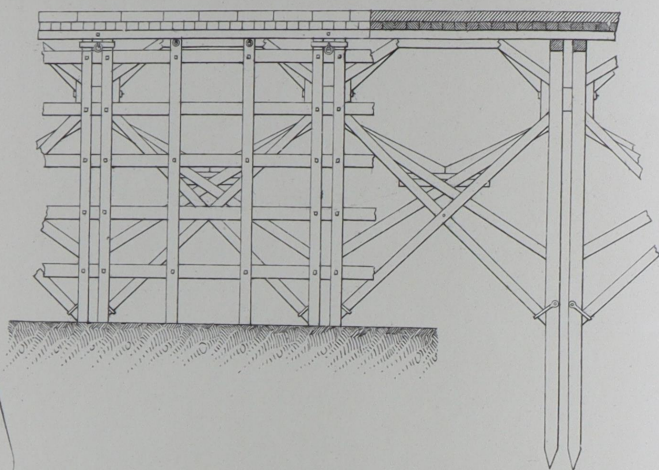


Планъ.

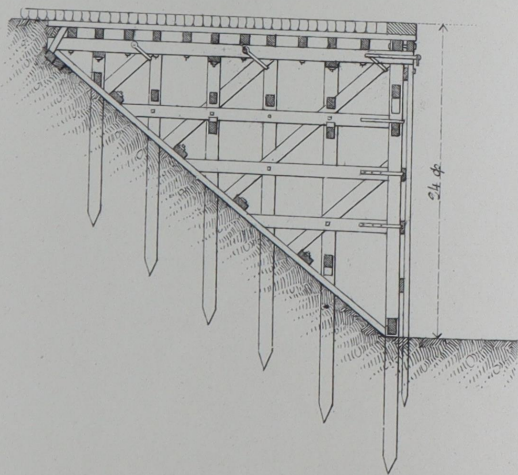




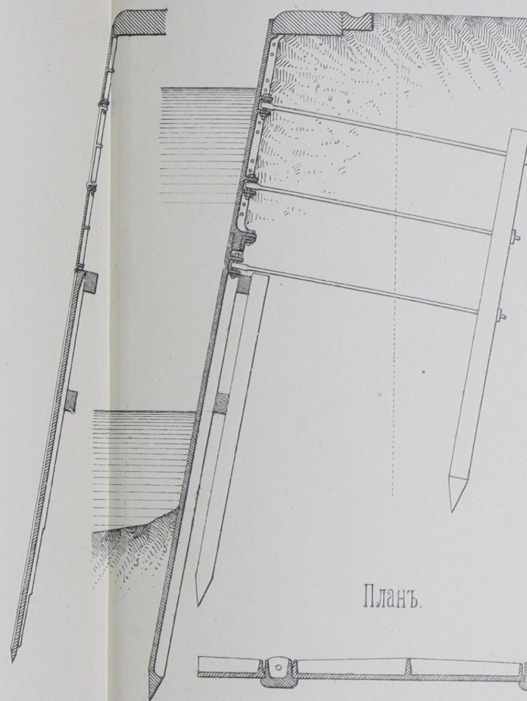
Черт. 1.
Фасадъ.



Разрѣзъ

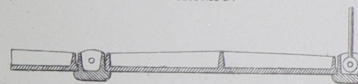


Разрѣзъ по С-D



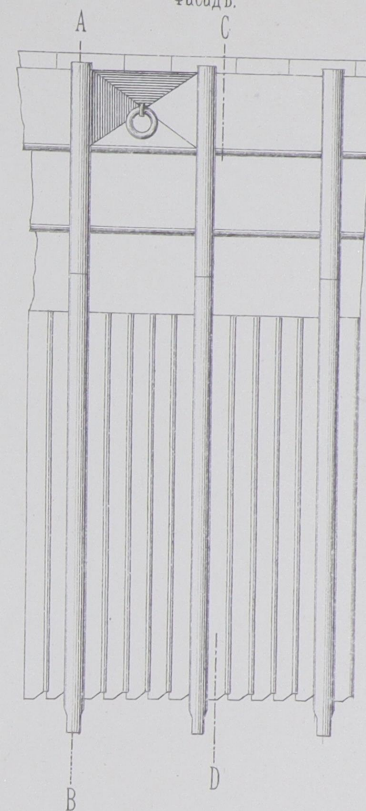
Разрѣзъ по А-В.

Планъ.



Черт. 2.

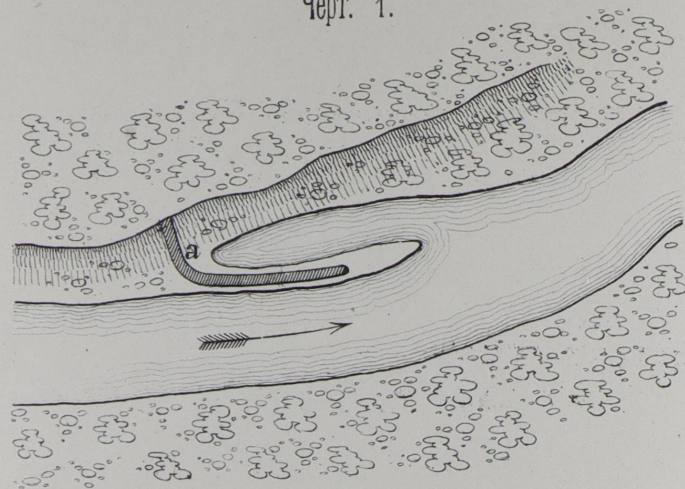
Фасадъ.



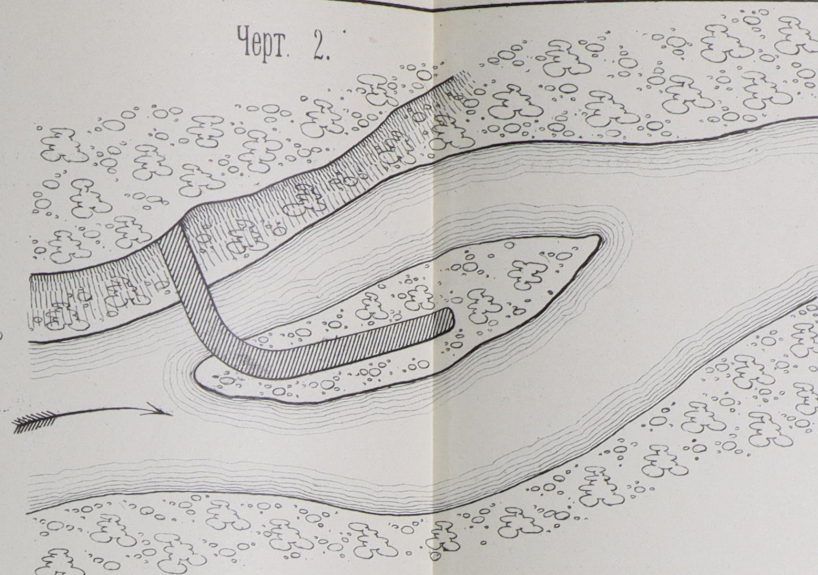
Черт. 3.



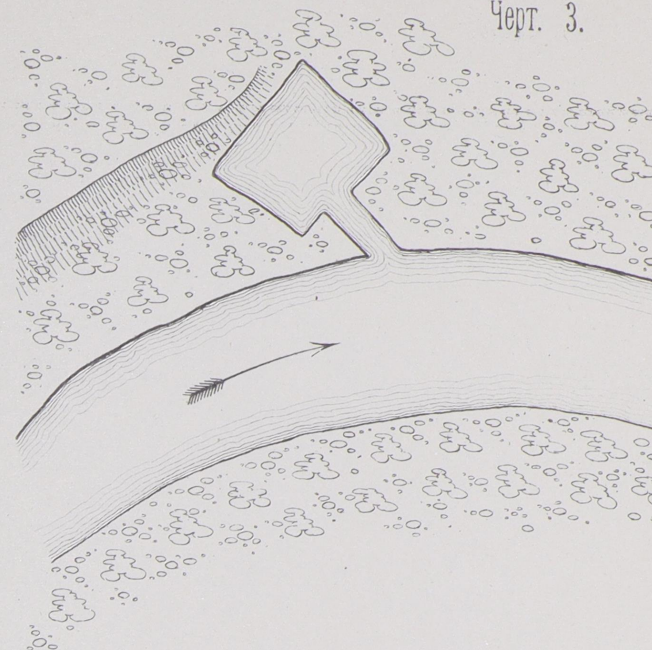
Черт. 1.



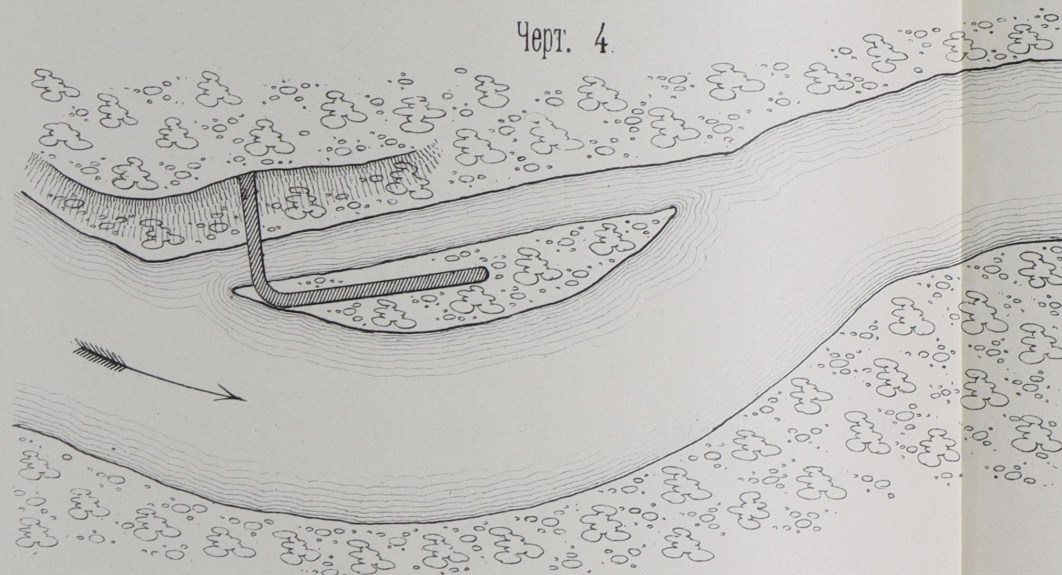
Черт. 2.



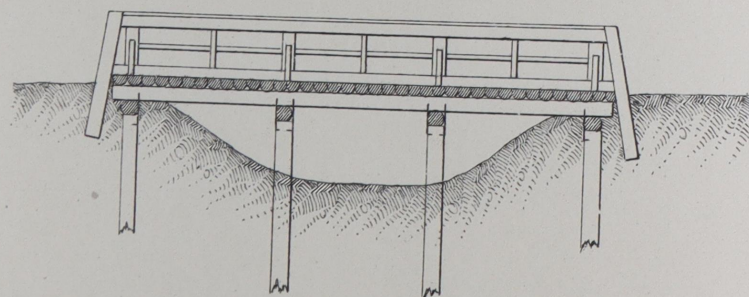
Черт. 3.



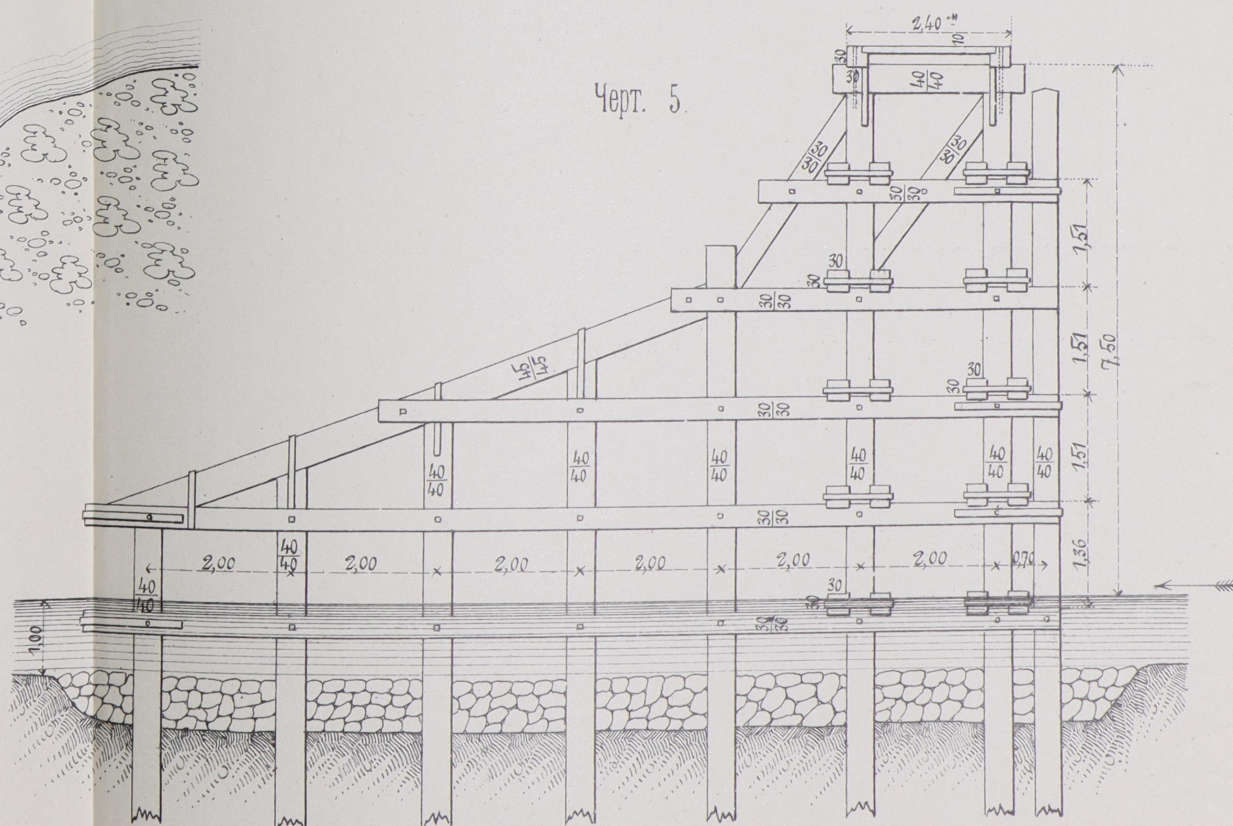
Черт. 4.

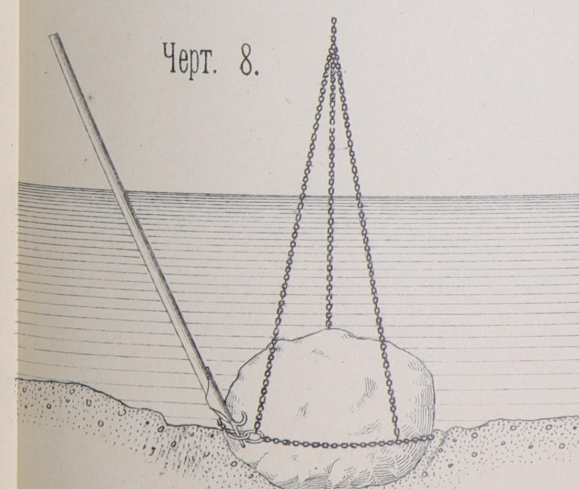
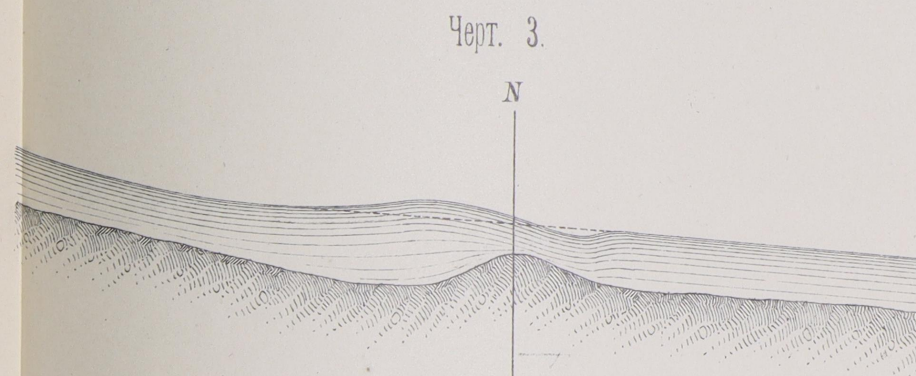
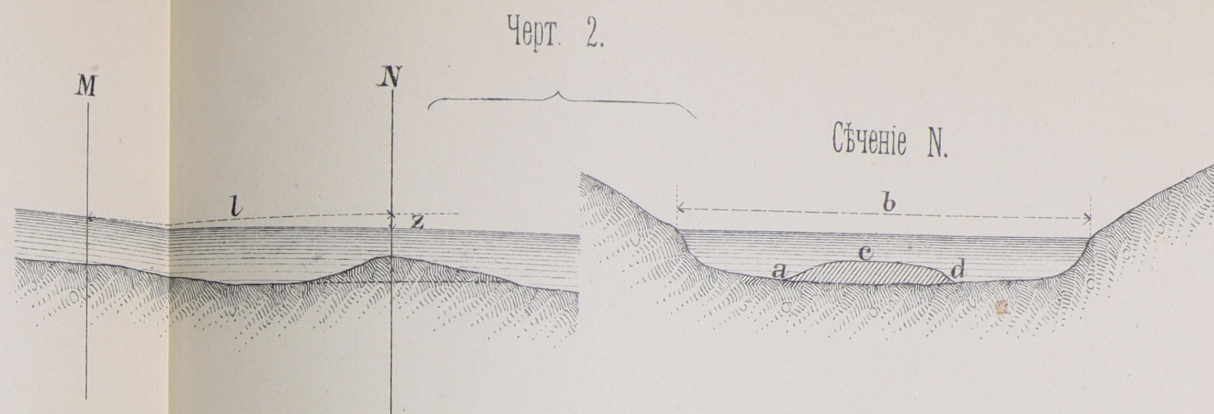
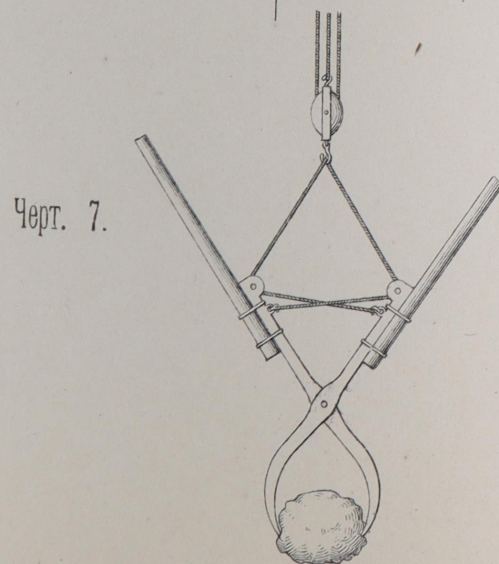
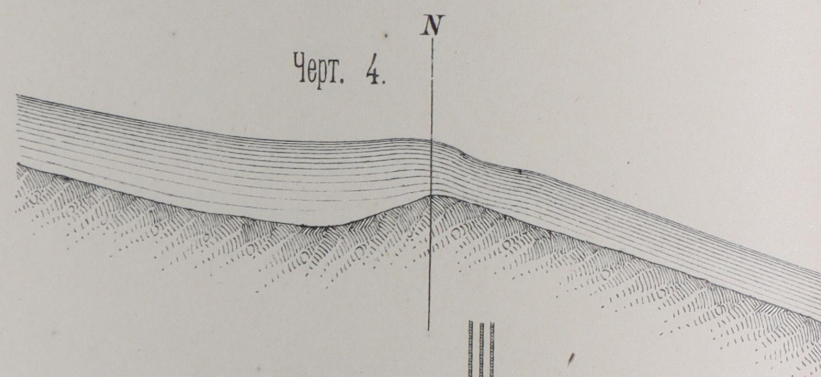
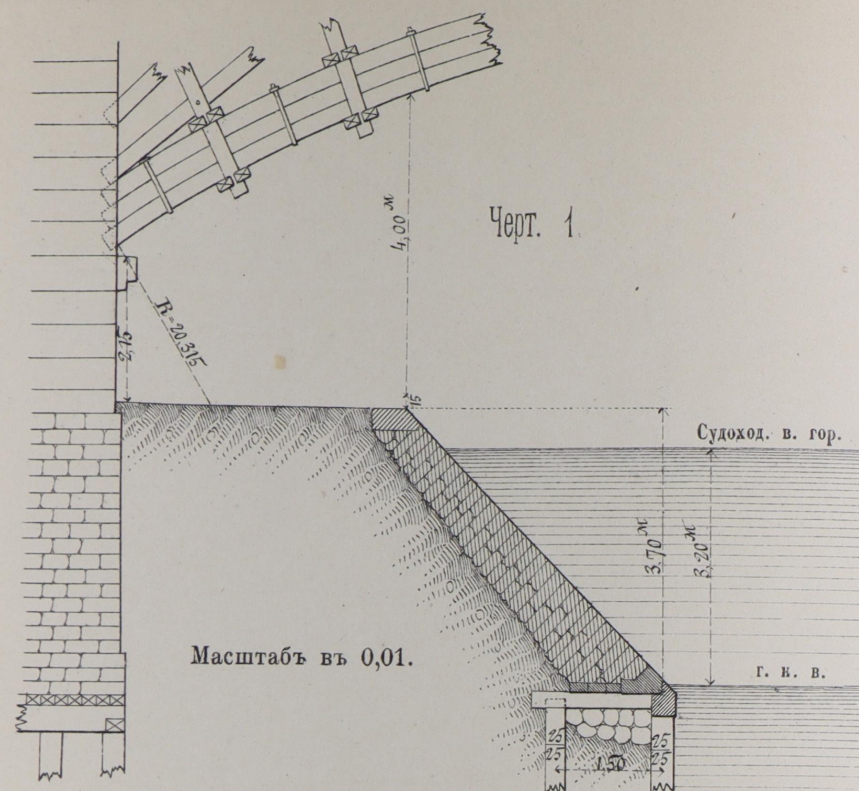


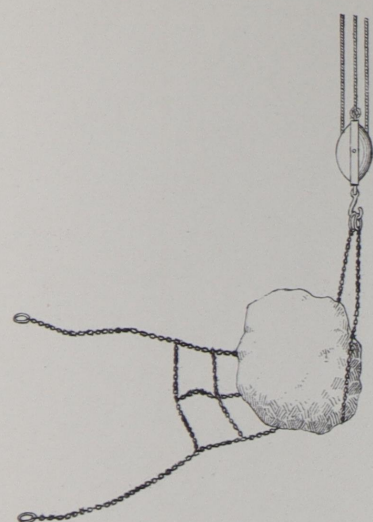
Черт. 6.



Черт. 5.







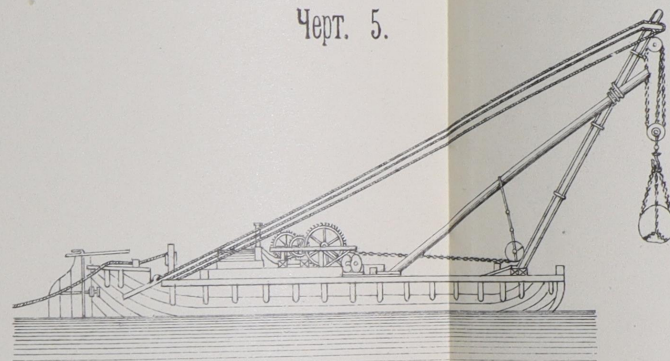
Черт. 1.



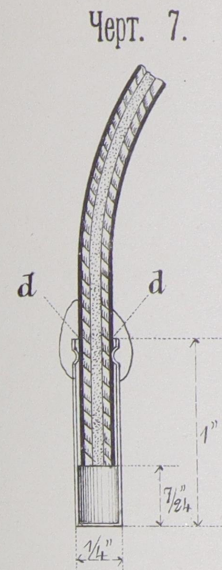
Черт. 2.



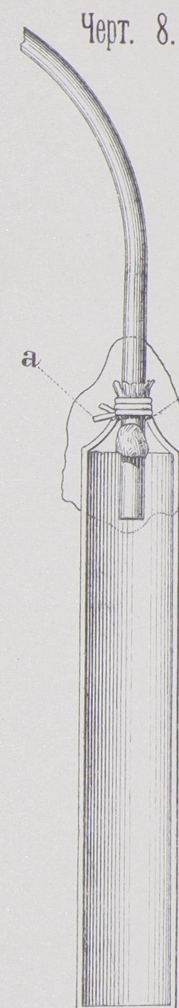
Черт. 5.



Черт. 3.

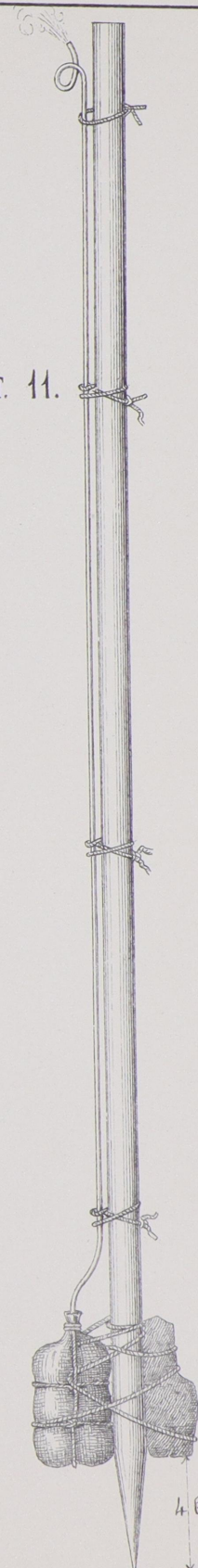


Черт. 7.

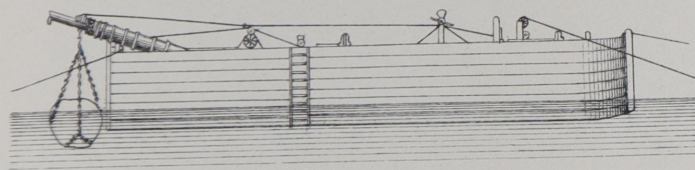


Черт. 8.

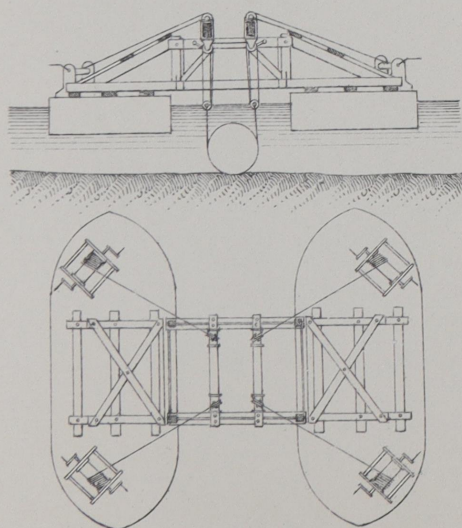
Черт. 11.



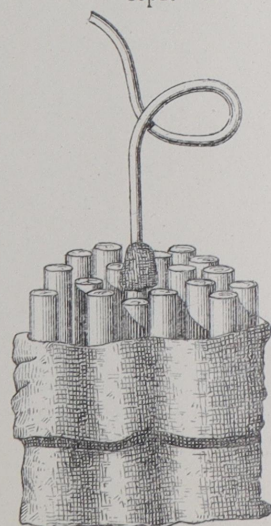
Черт. 4.



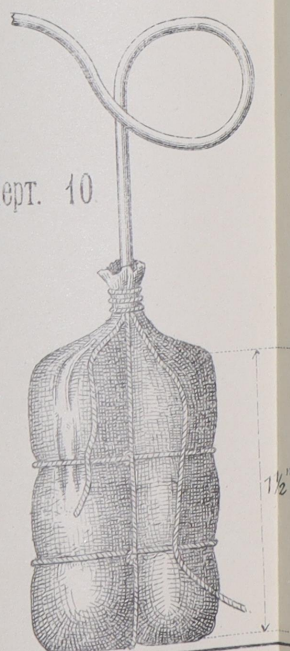
Черт. 6.



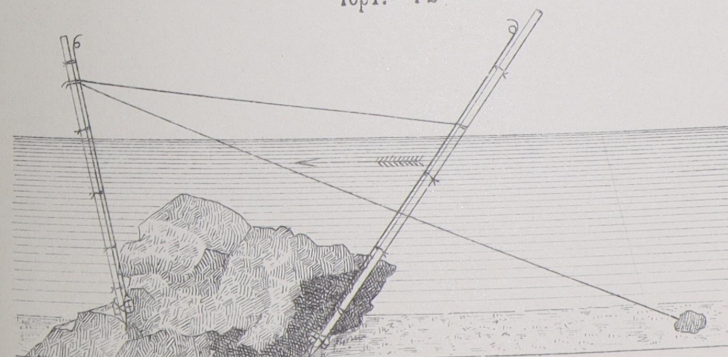
Черт. 9.



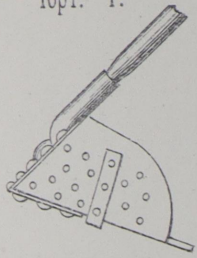
Черт. 10



Черт. 12



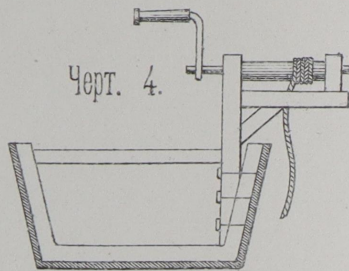
Черт. 1.



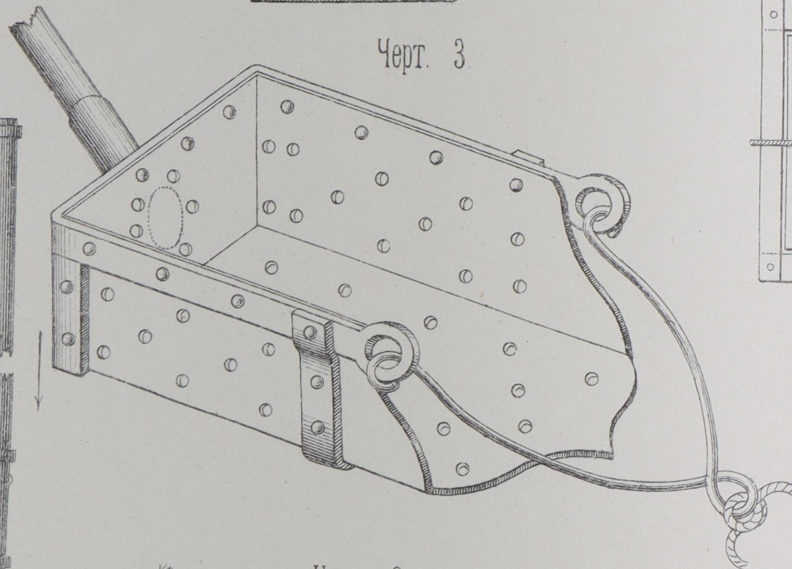
Черт. 2.



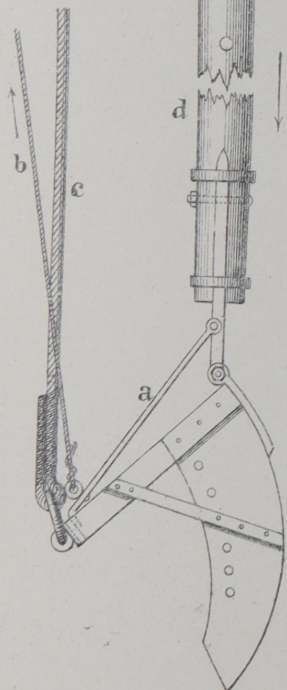
Черт. 4.



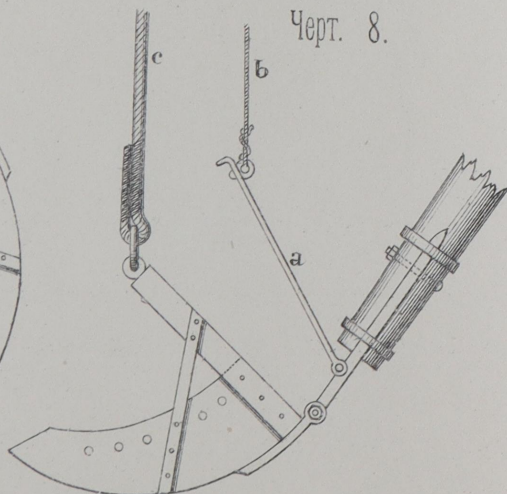
Черт. 3.



Черт. 7.

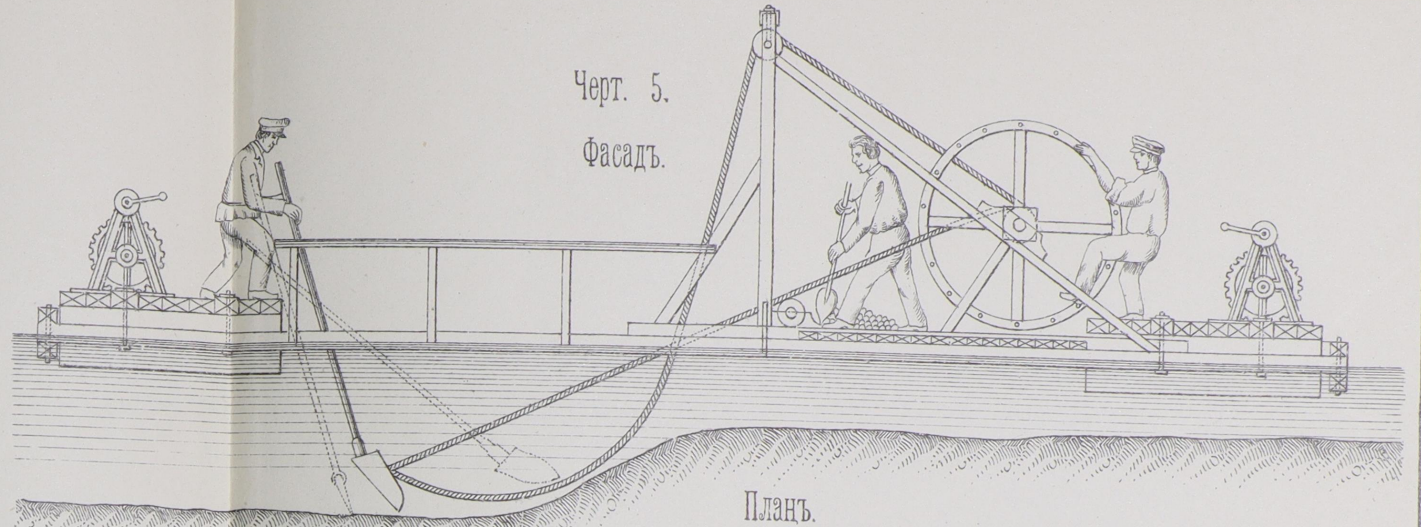


Черт. 8.

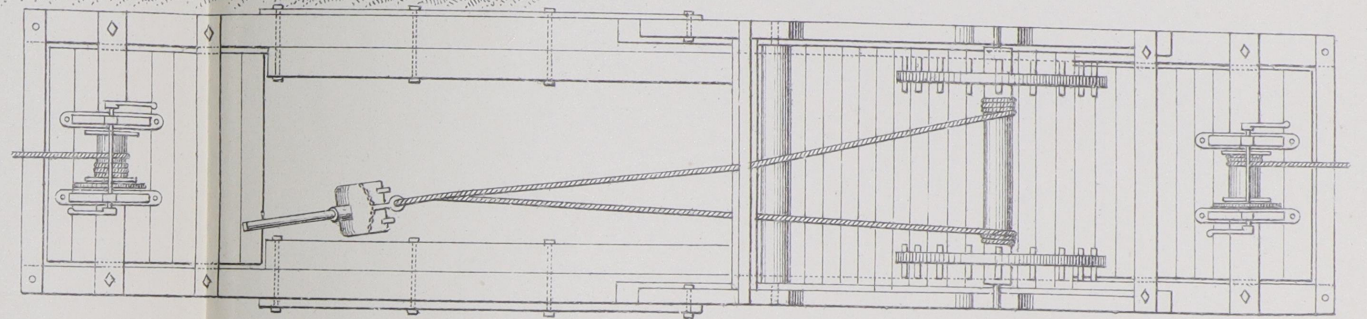


Черт. 5.

Фасадъ.

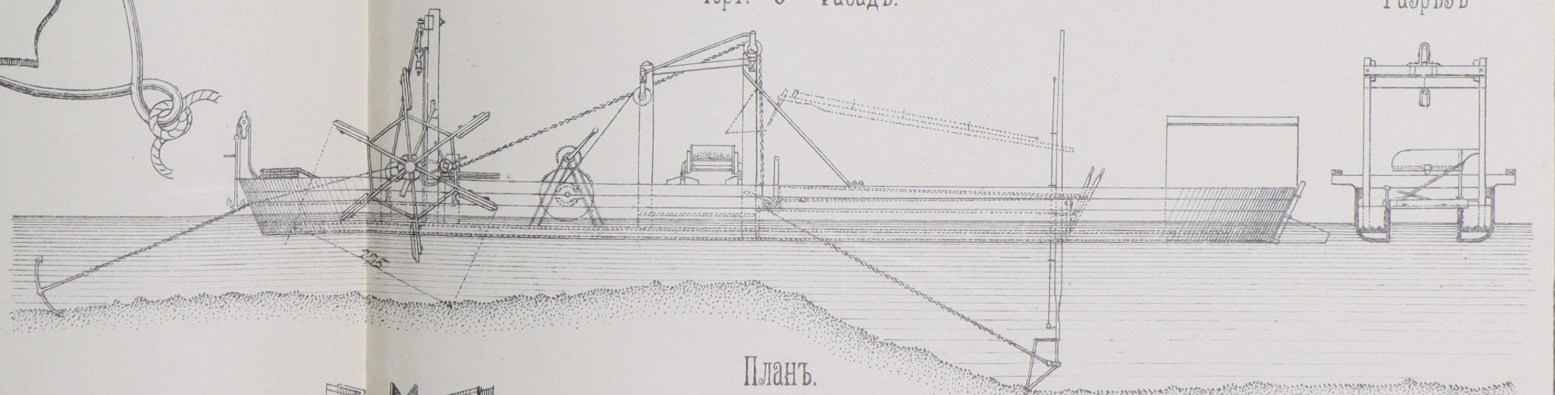


Планъ.

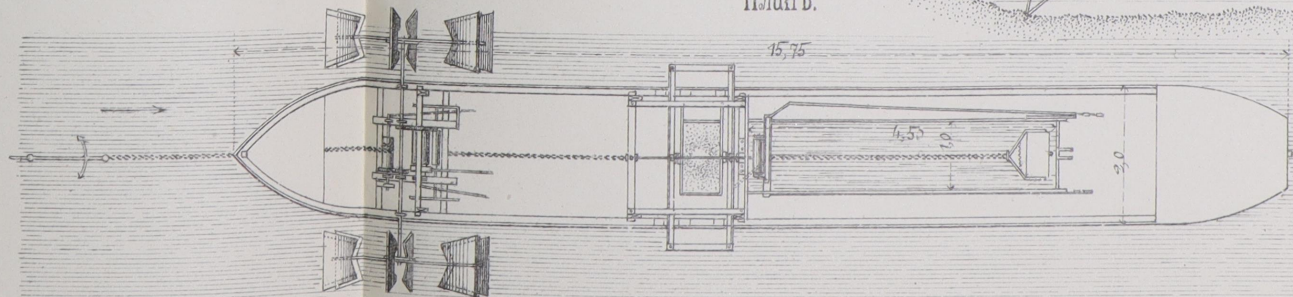


Черт. 6 Фасадъ.

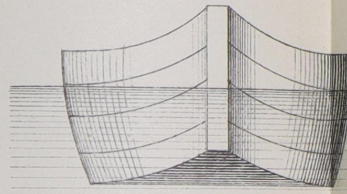
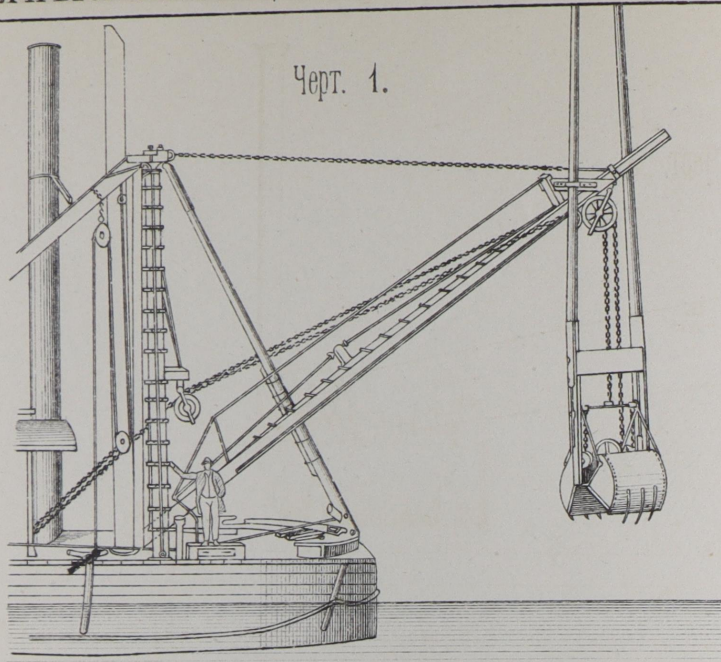
Разрѣзъ



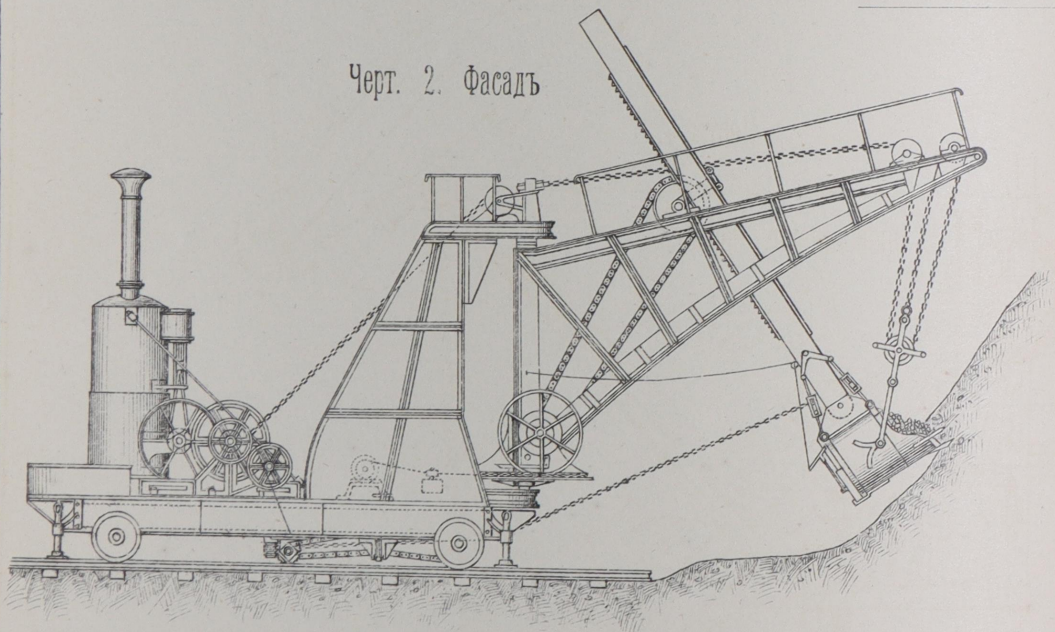
Планъ.



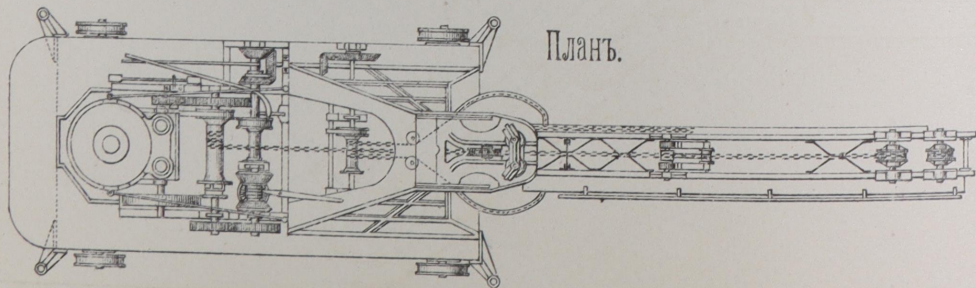
Черт. 1.



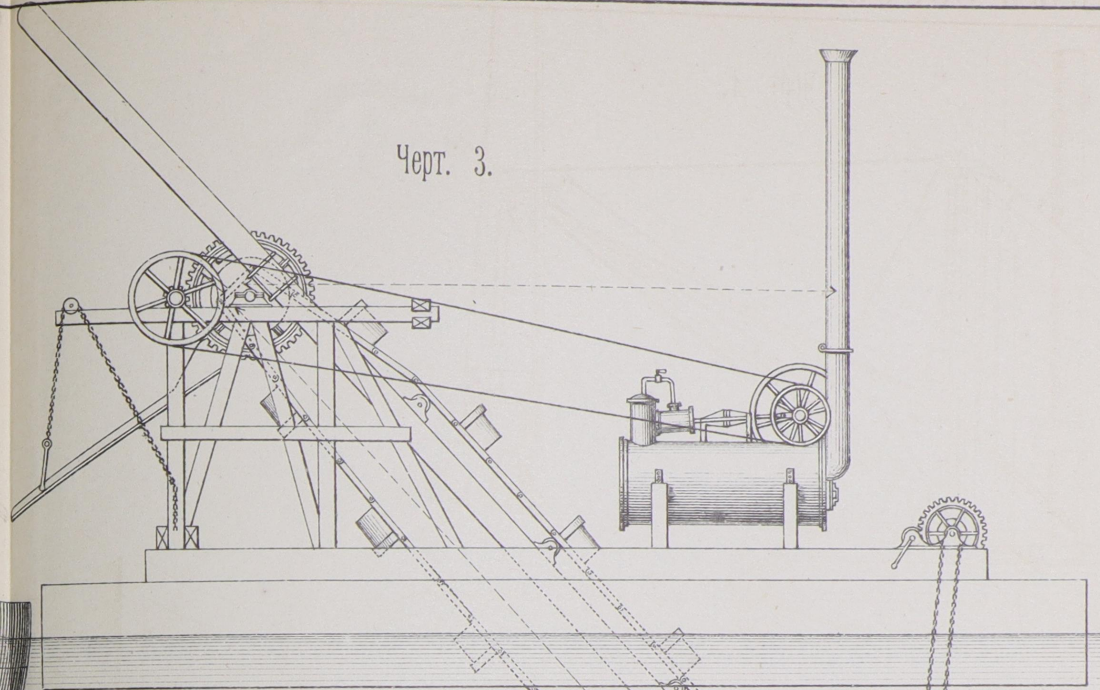
Черт. 2. Фасадъ



Планъ.

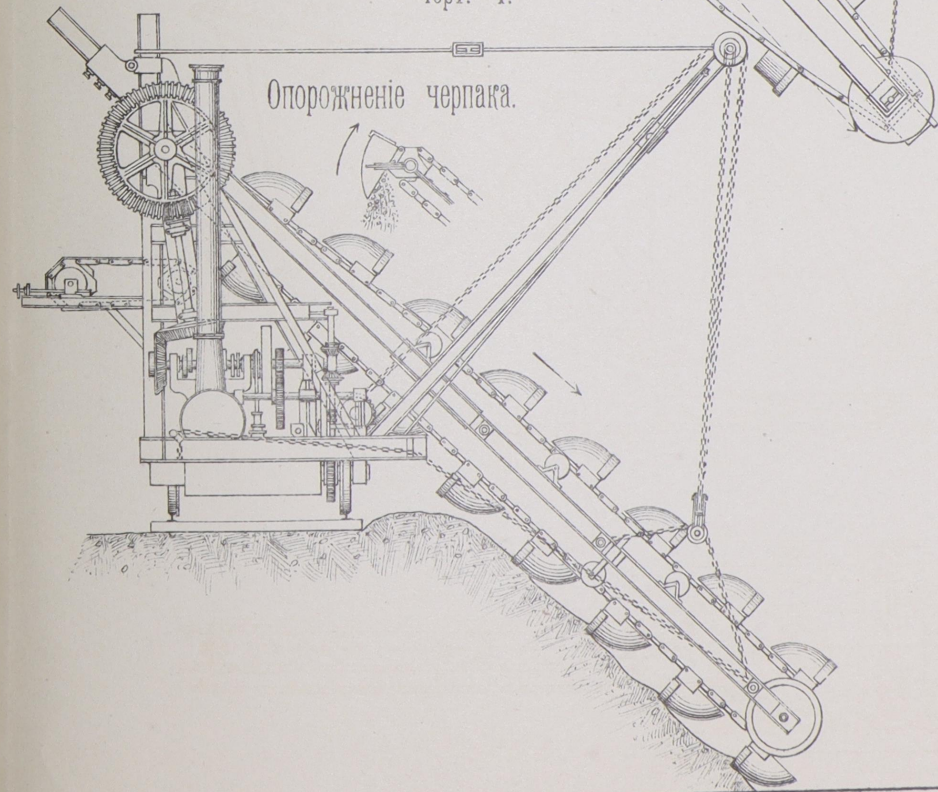


Черт. 3.



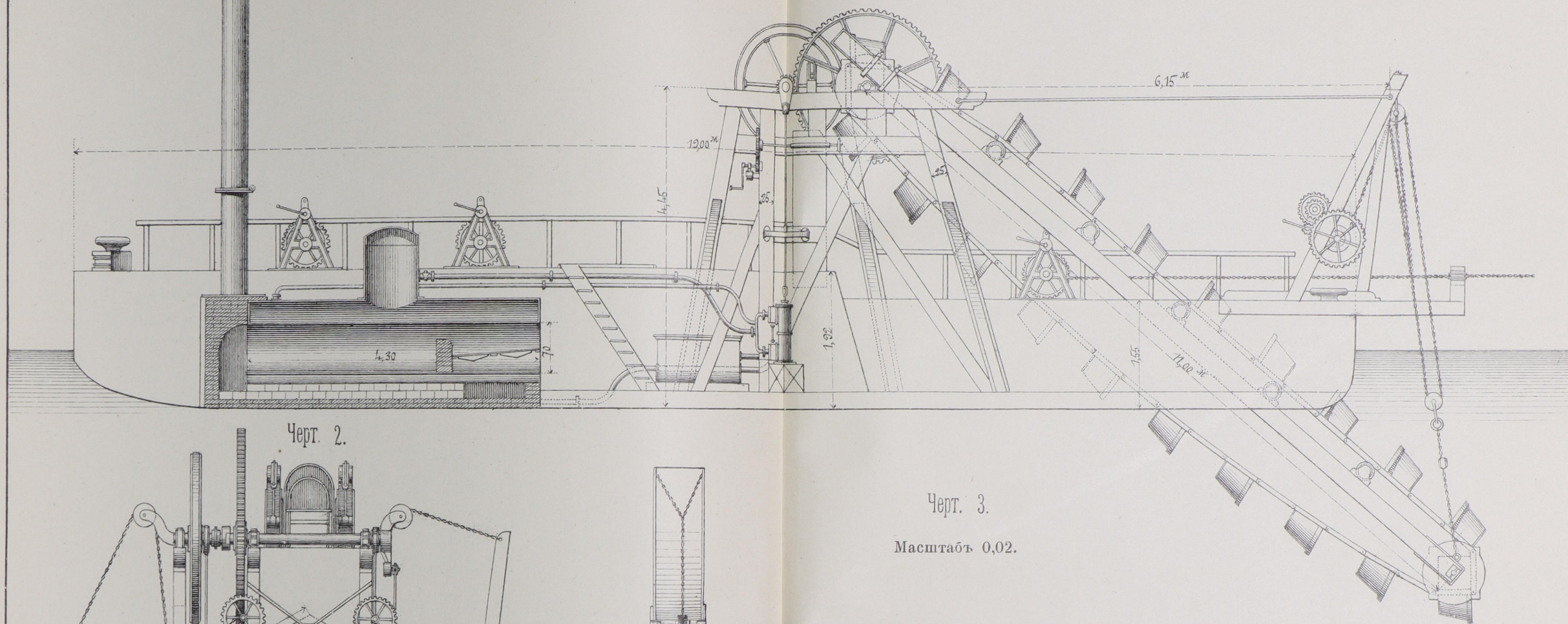
Черт. 4.

Опорожненіе черпака.

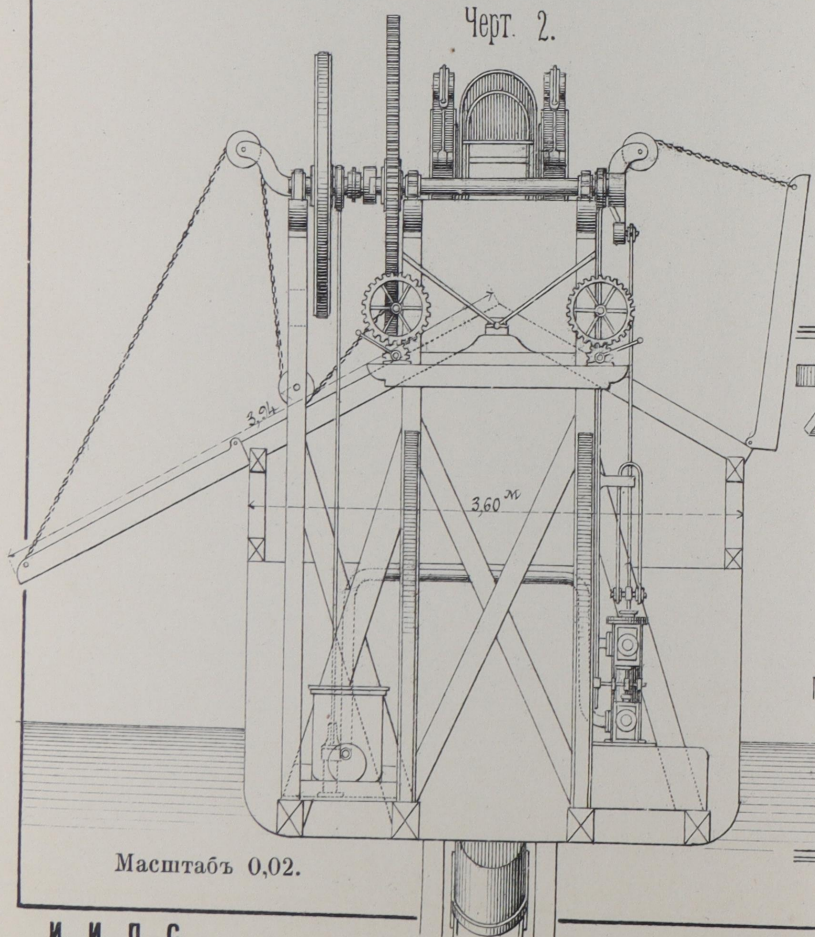


Черт. 1

Масштабъ 0,015.



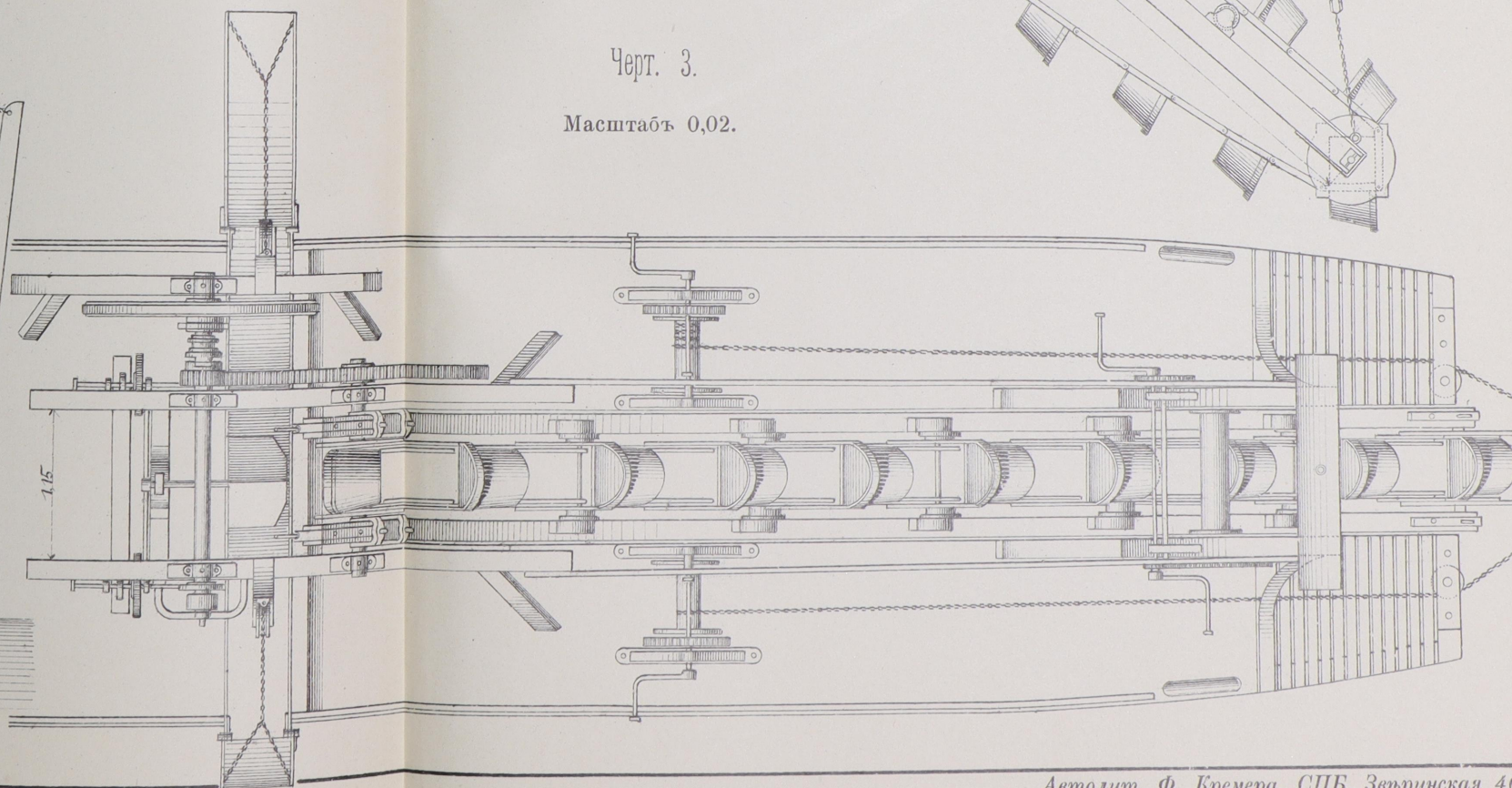
Черт. 2.



Масштабъ 0,02.

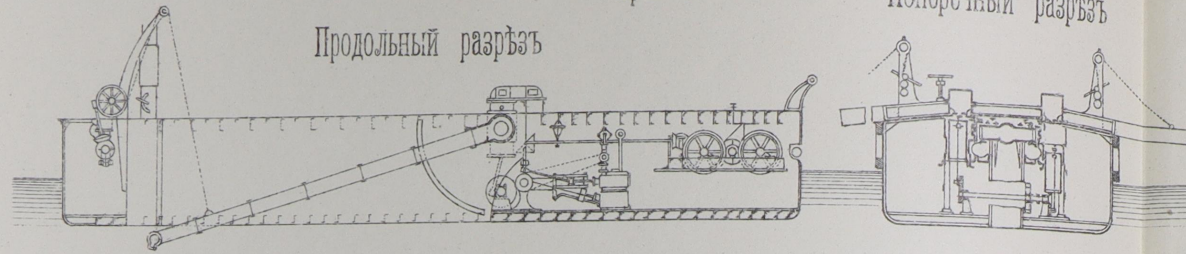
Черт. 3.

Масштабъ 0,02.



Черт. 1.

Продольный разръзъ



Поперечный разръзъ

Черт. 3.

Продольный разръзъ

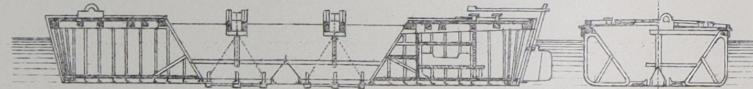


Черт. 2.

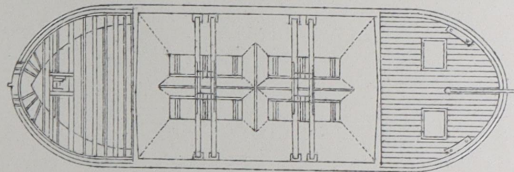
Продольный разръзъ

Поперечный разръзъ

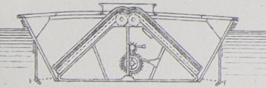
Черт. 5.



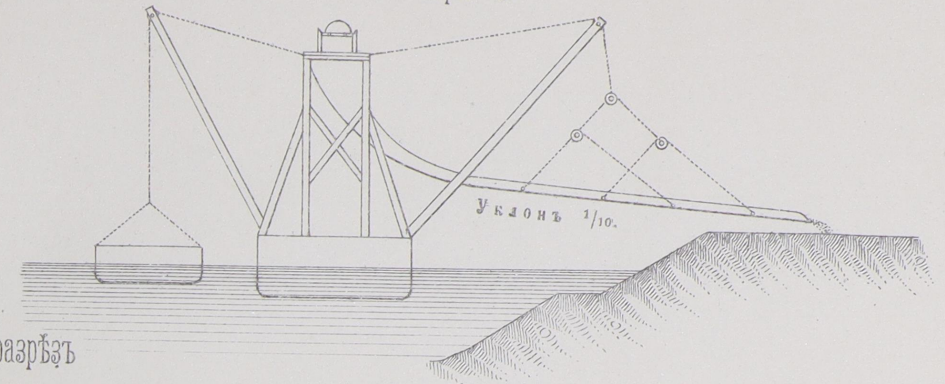
Планъ



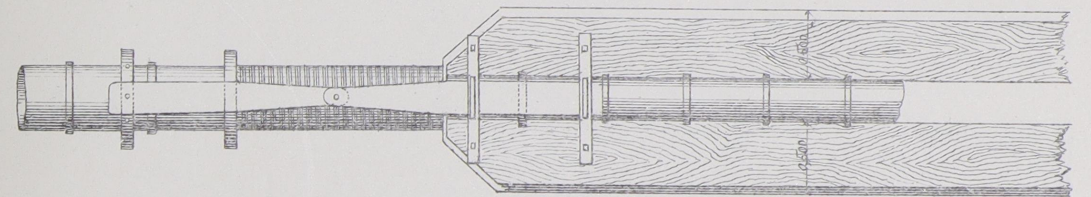
Поперечный разръзъ



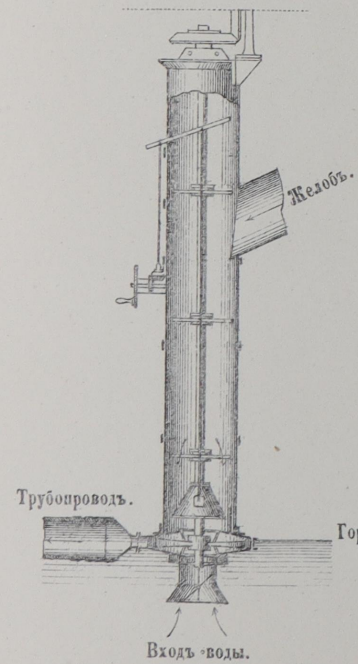
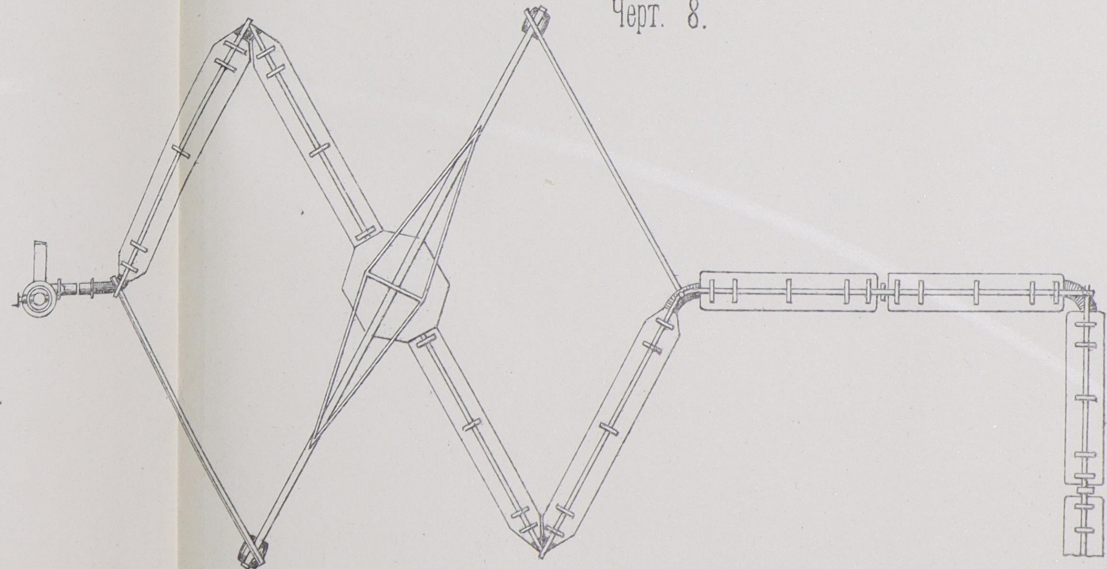
Черт. 4.



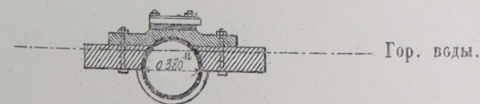
Черт. 7.



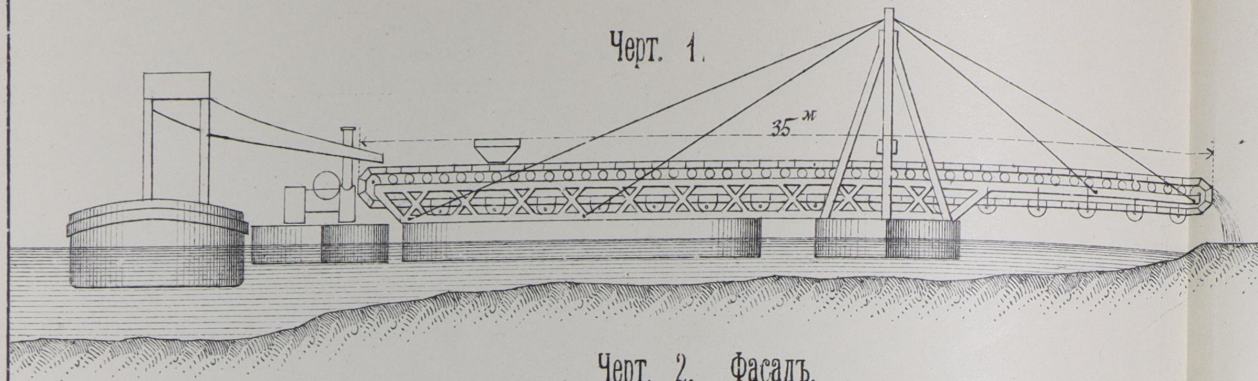
Черт. 8.



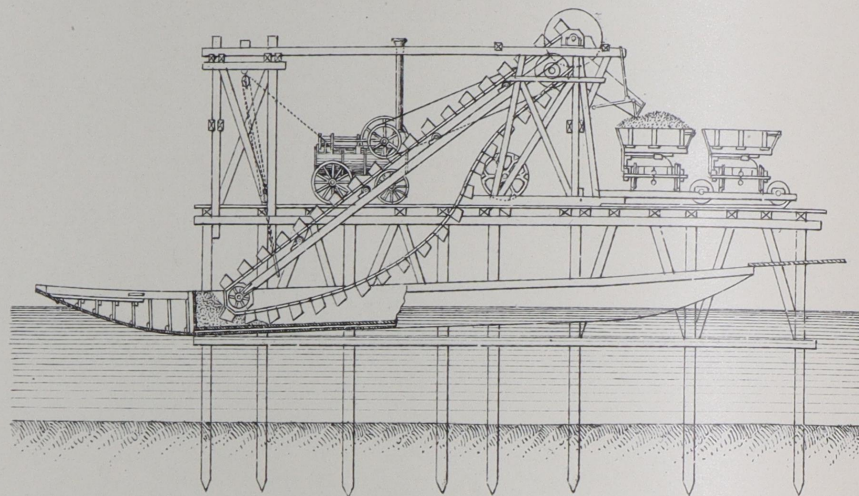
Черт. 6.



Черт. 1.

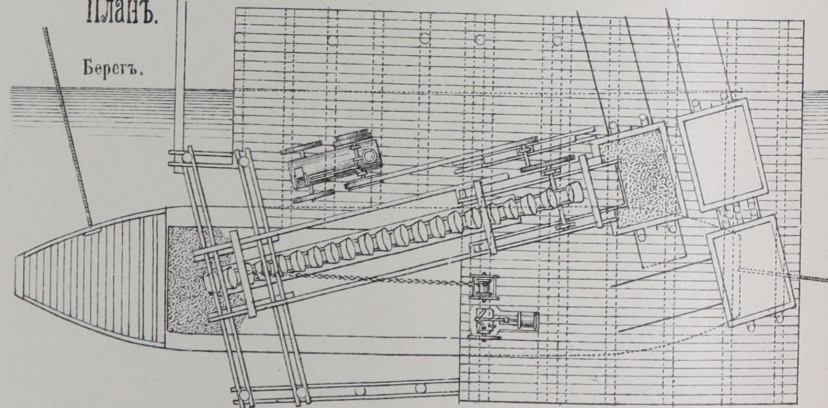


Черт. 2. Фасадъ.



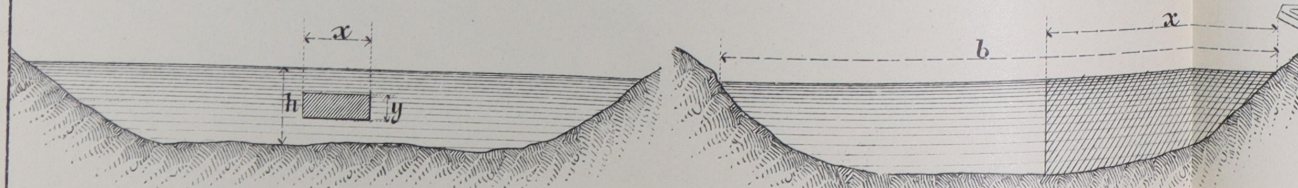
Планъ.

Берега.

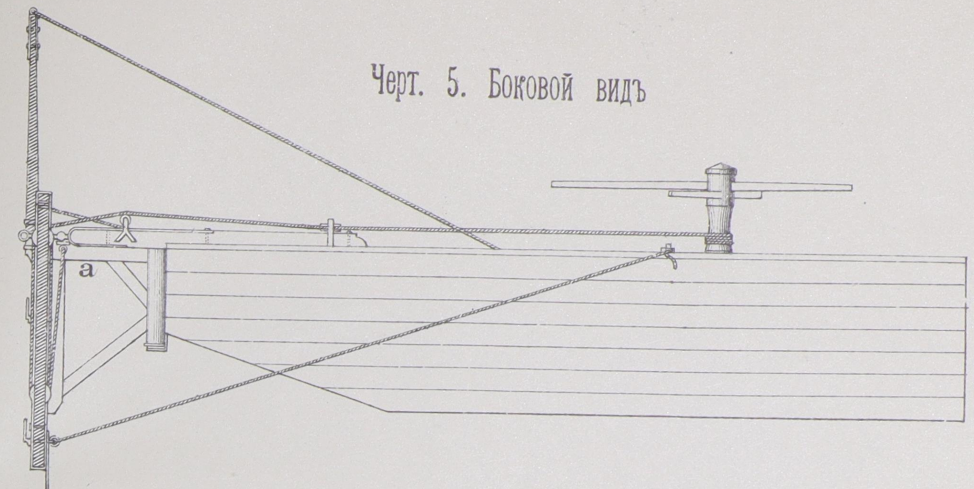


Черт. 3.

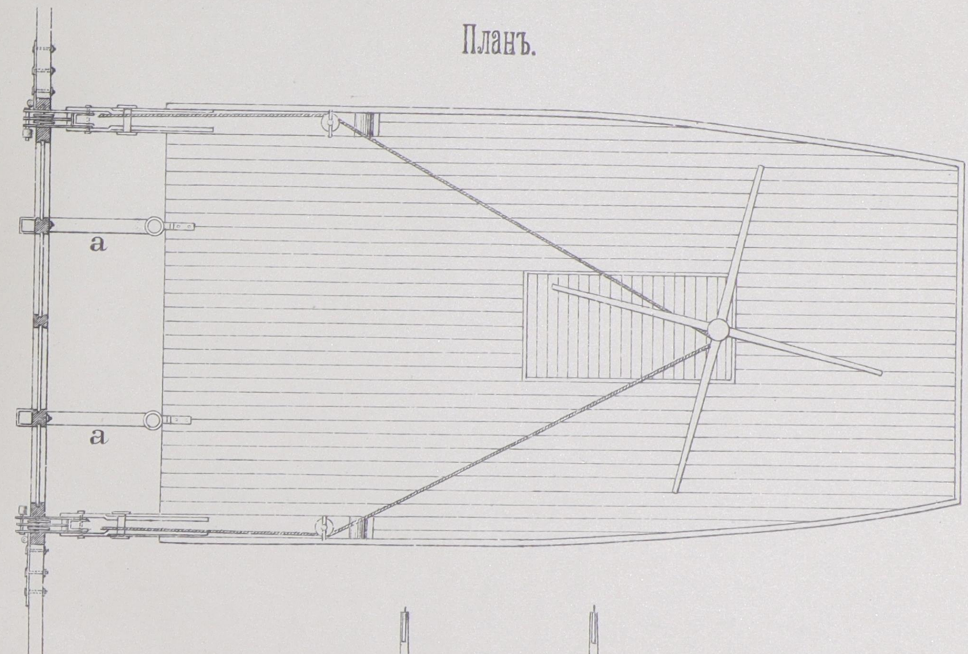
Черт. 4.



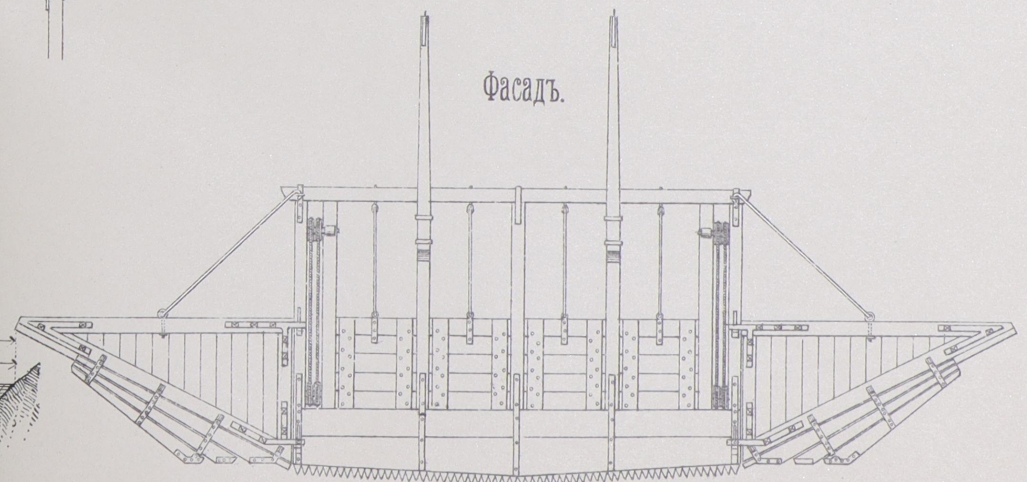
Черт. 5. Боковой видъ



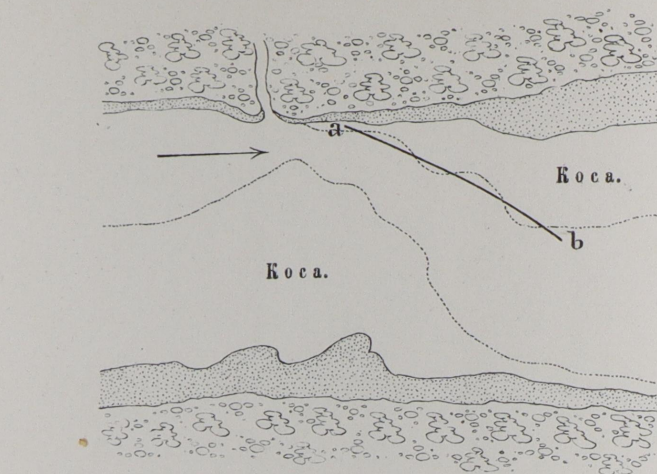
Планъ.



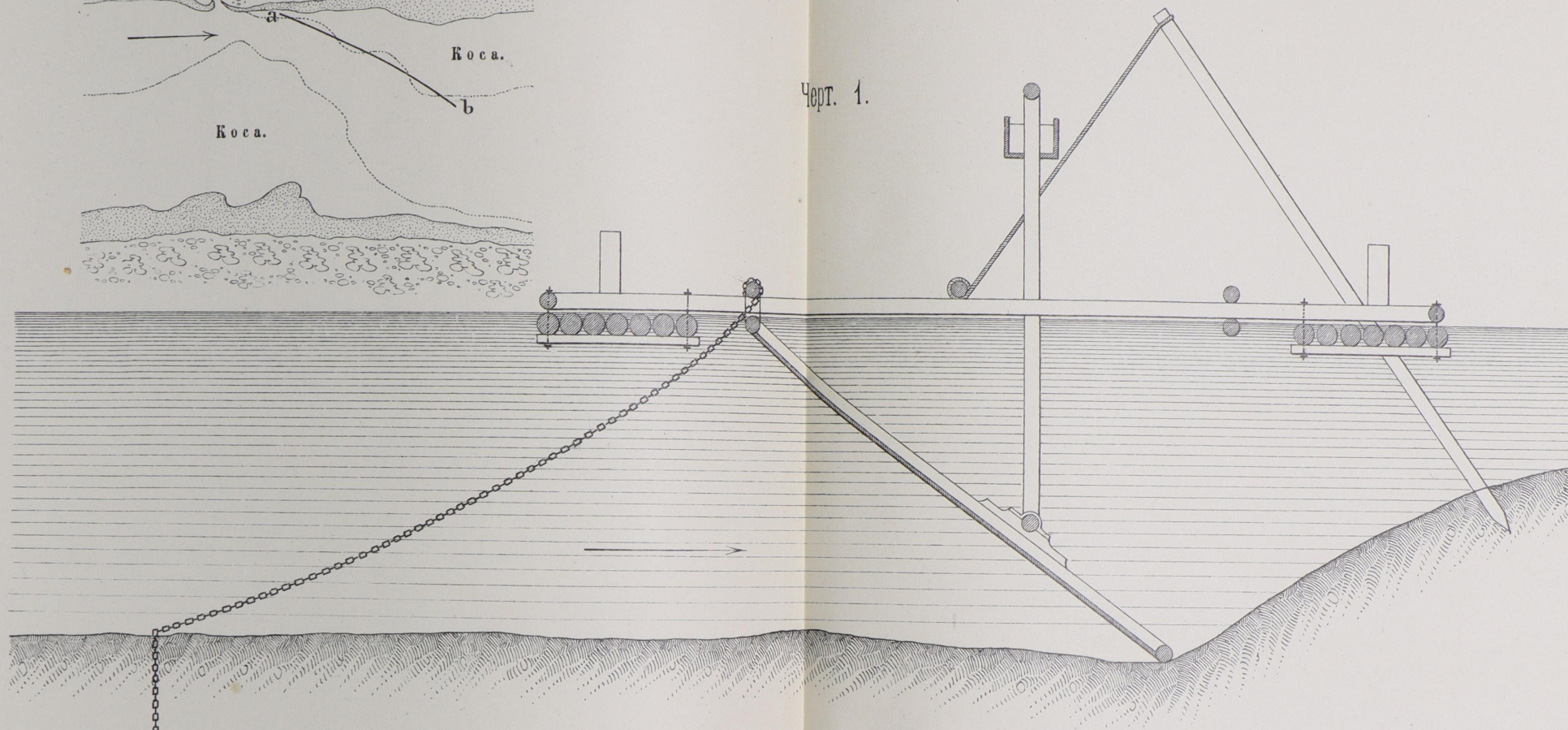
Фасадъ.



Черт. 2.

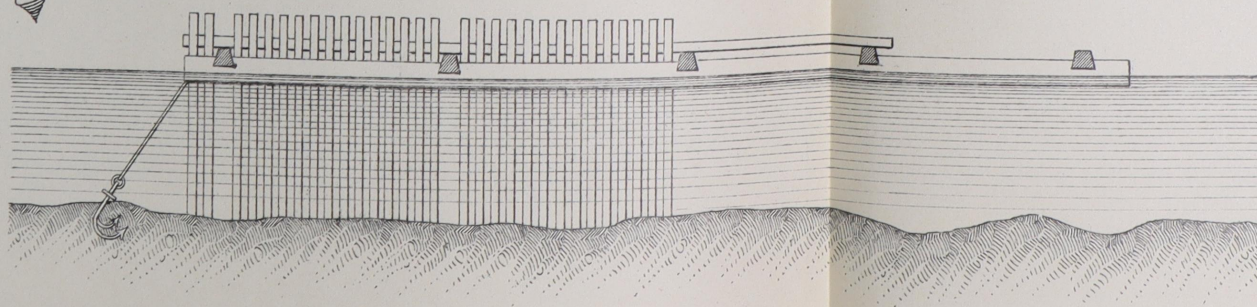


Черт. 1.

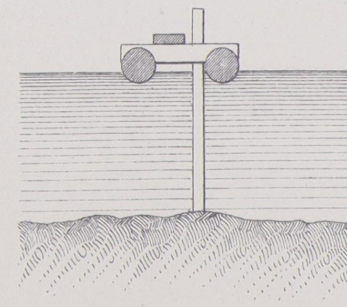


Черт. 3.

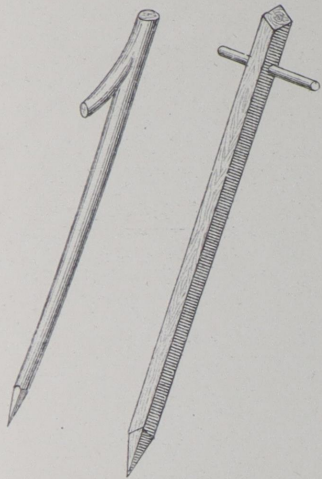
Фасадъ.



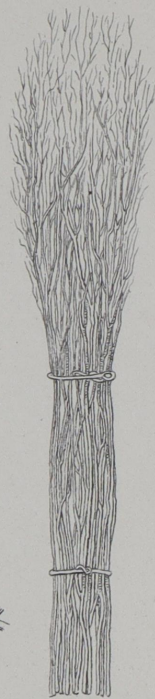
Разрѣзъ.



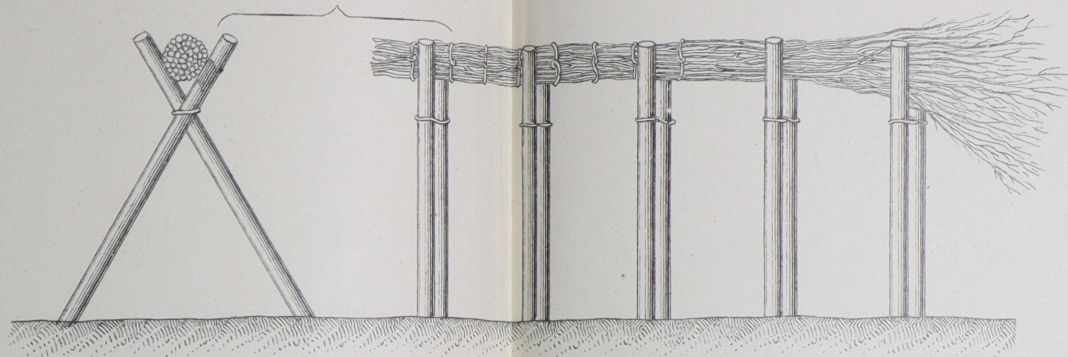
Черт. 1.



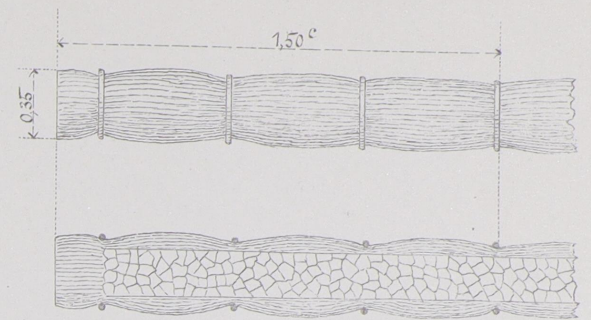
Черт. 2.



Черт. 3.



Черт. 6.



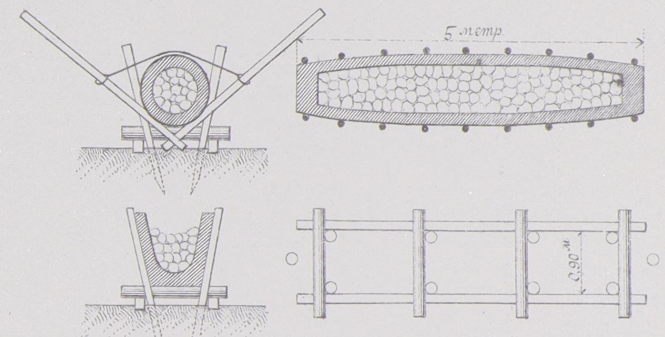
Черт. 4.



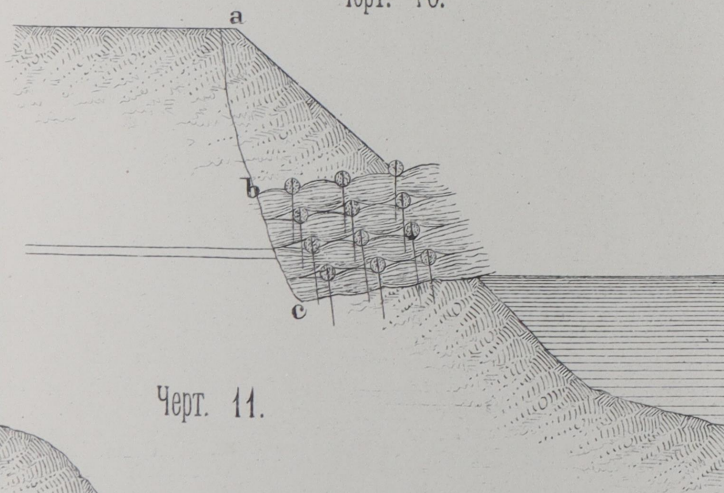
Черт. 7б.



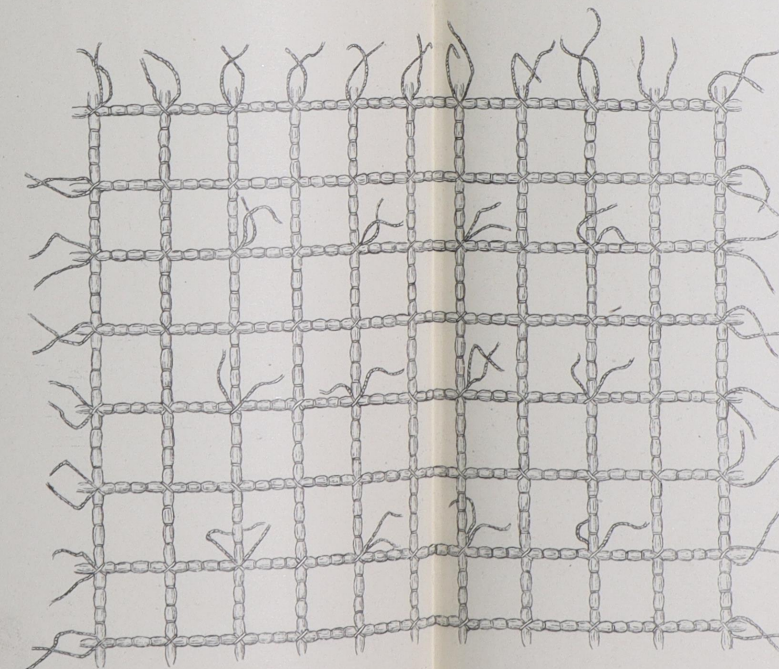
Черт. 5.



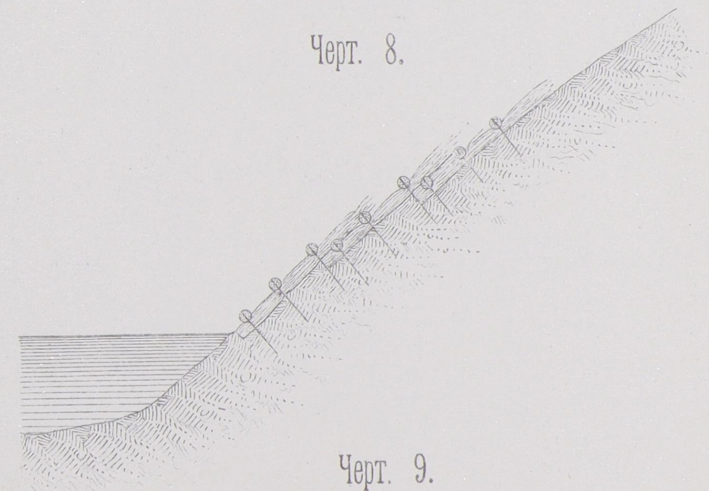
Черт. 10.



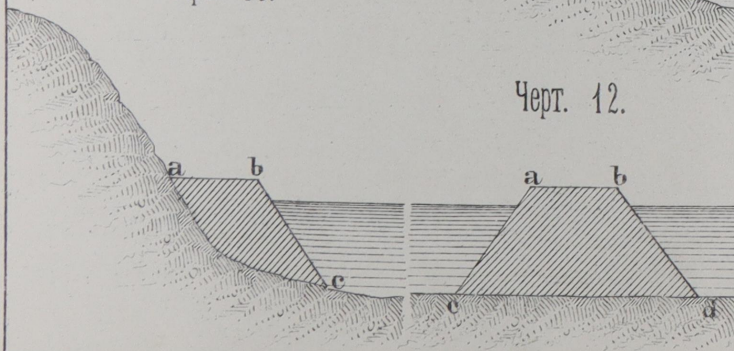
Черт. 7а.



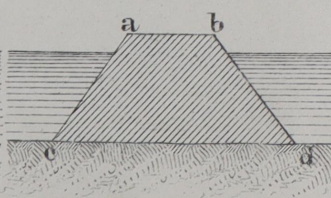
Черт. 8.



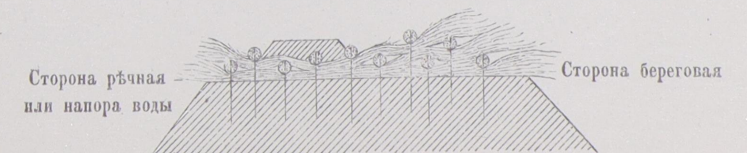
Черт. 11.



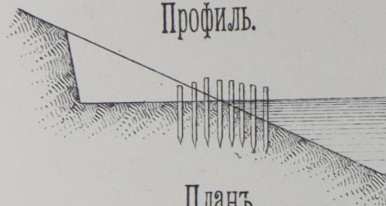
Черт. 12.



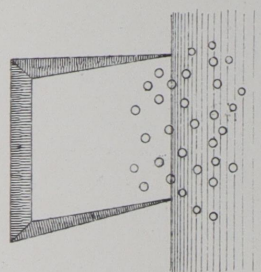
Черт. 9.



Черт. 1.
Профиль.



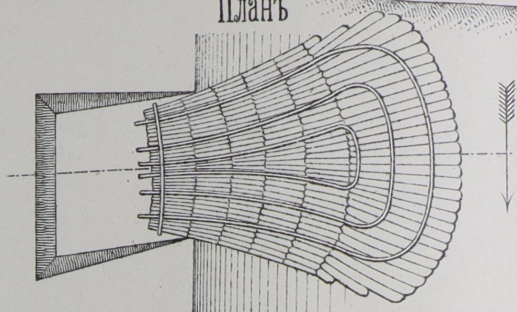
Планъ



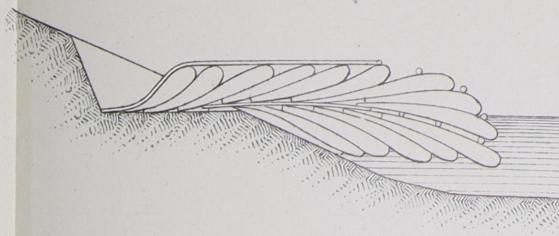
Черт. 2.
Профиль.



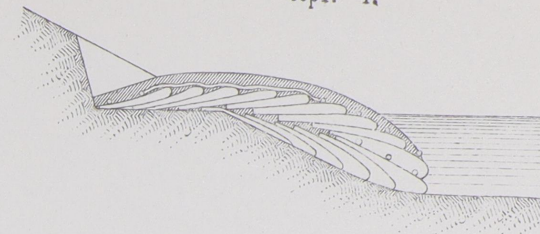
Планъ



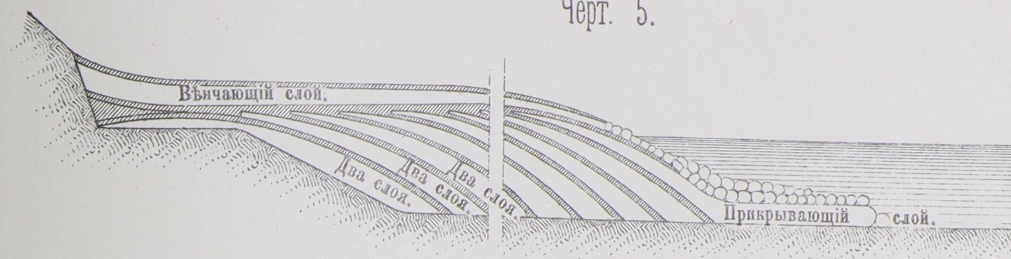
Черт. 3.



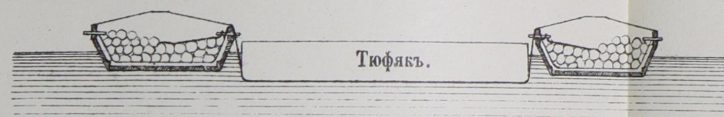
Черт. 4.



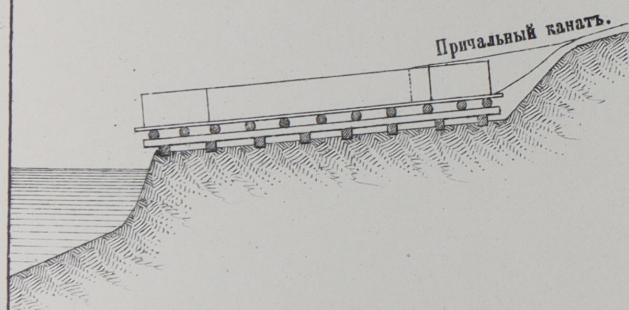
Черт. 5.



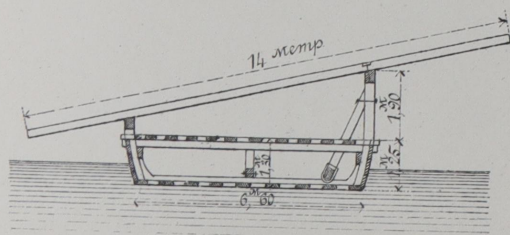
Черт. 7



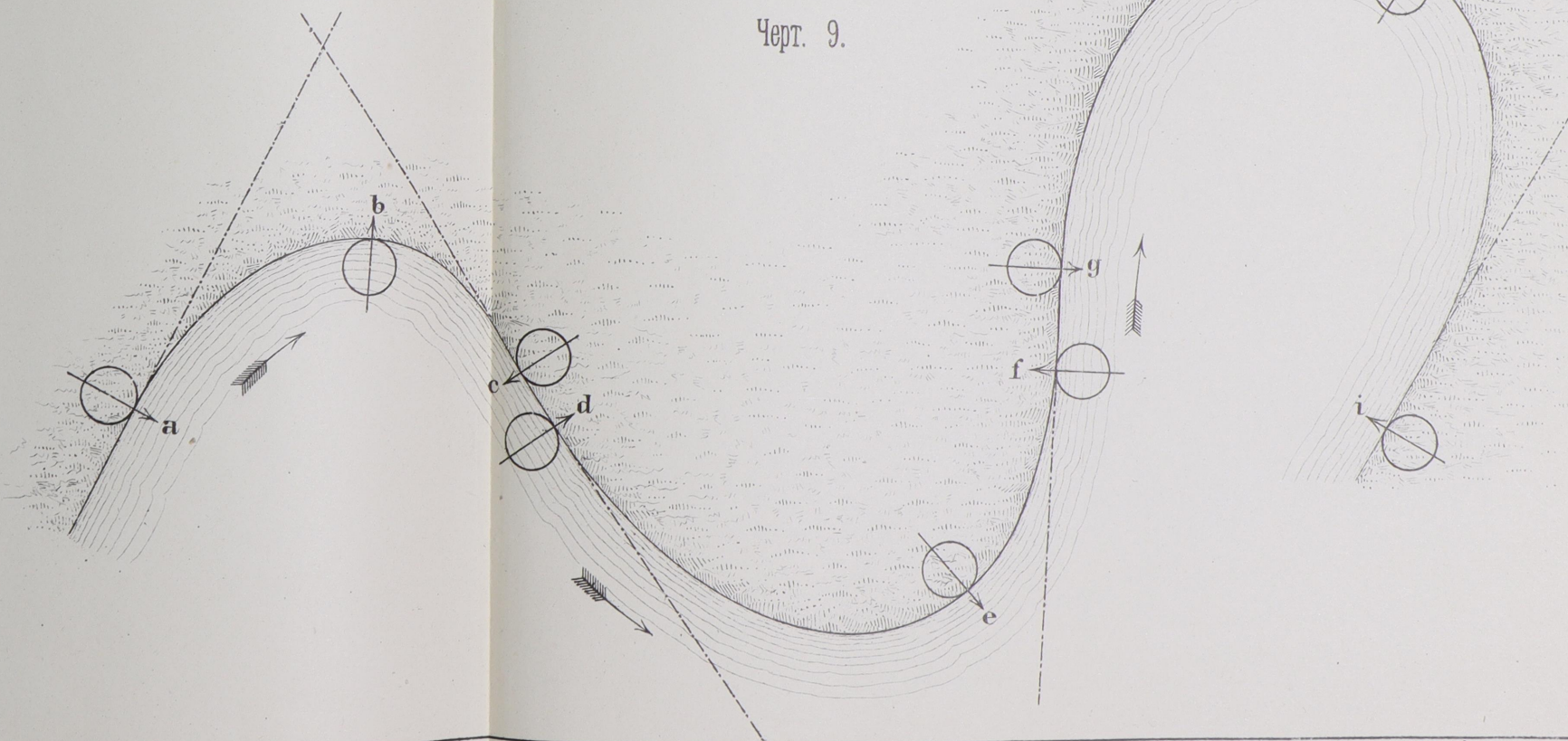
Черт. 6.



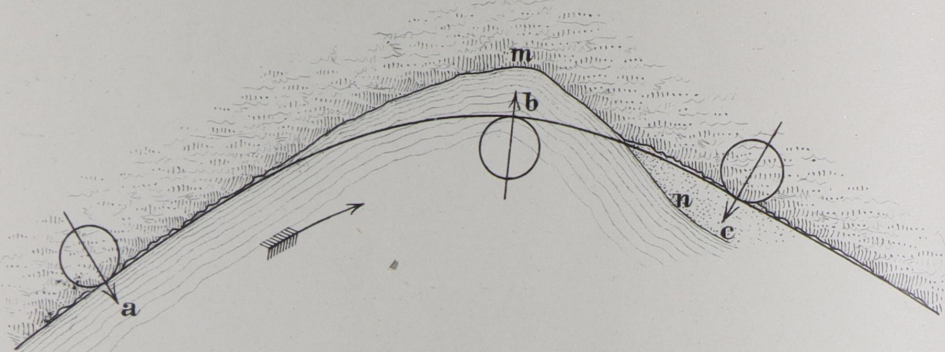
Черт. 8.



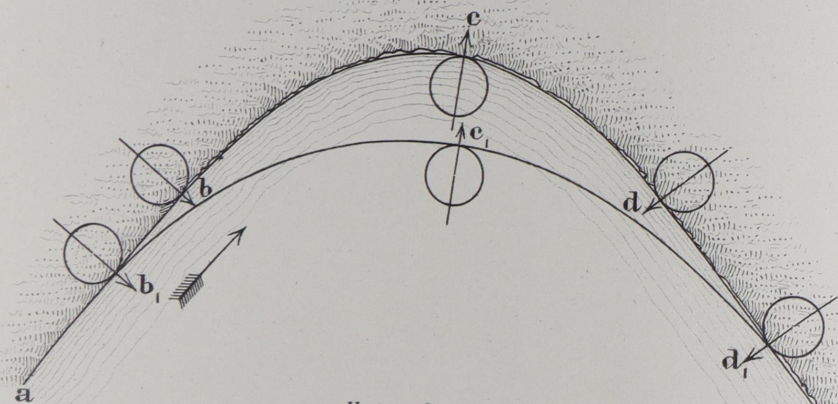
Черт. 9.



Черт. 1.



Черт. 2.



Черт. 3.

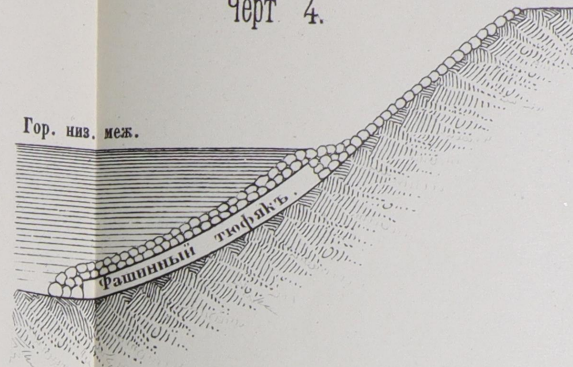
Гор. выс. в.

Норм. меж. гор.

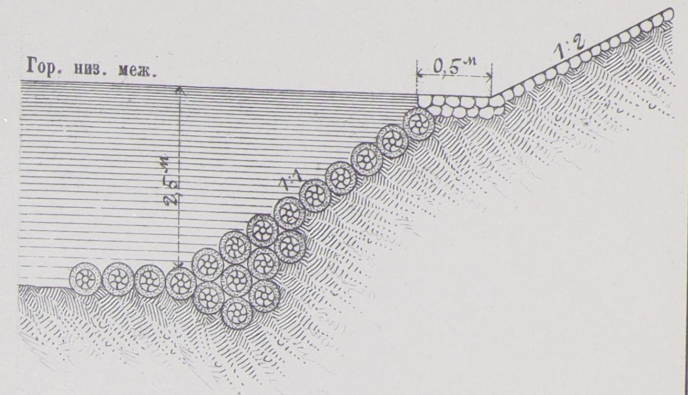
Низк. меж. гор.

Гориз. растительности.

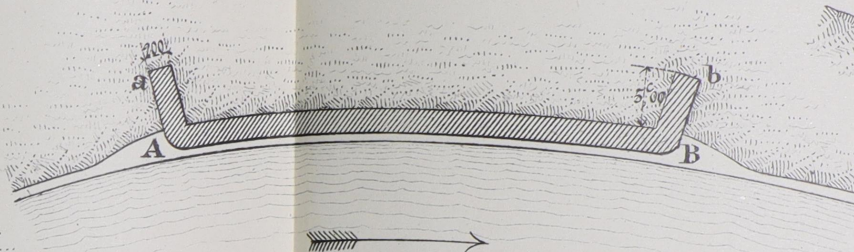
Черт. 4.



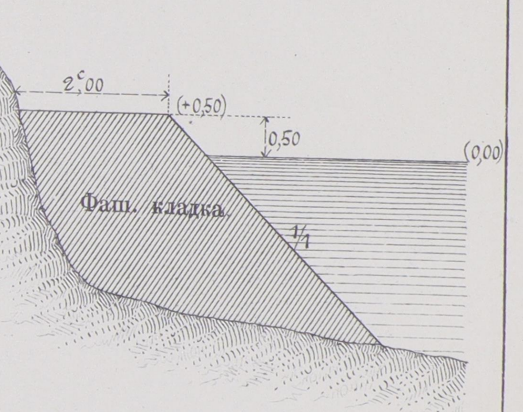
Черт. 5.



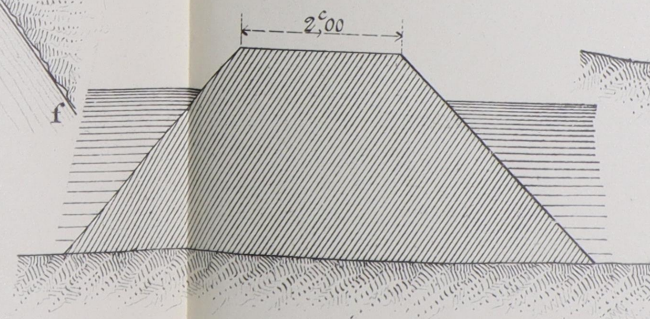
Черт. 7.



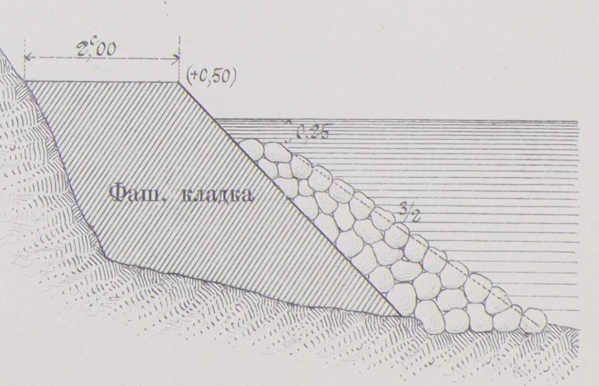
Черт. 6.



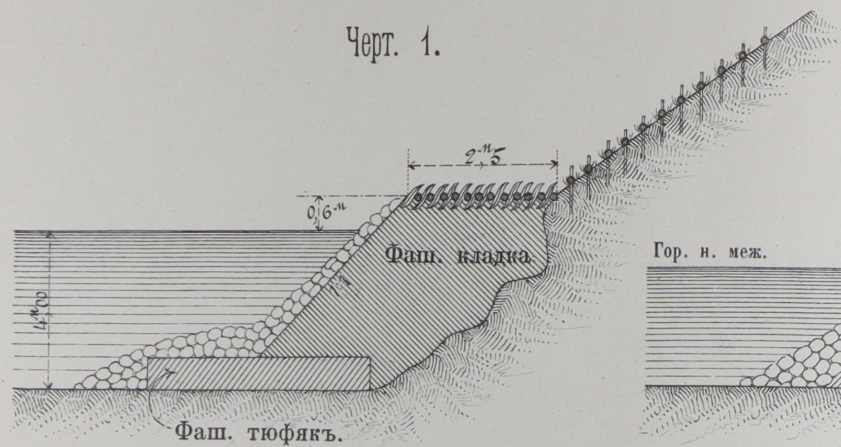
Черт. 9.



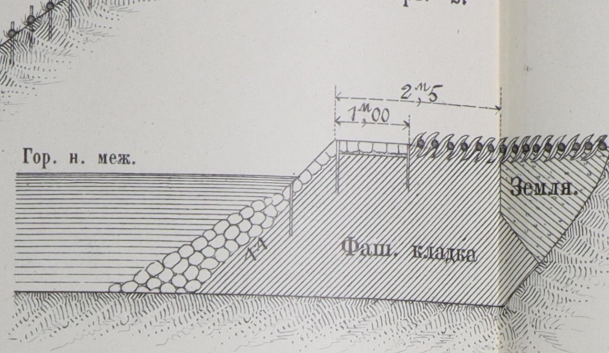
Черт. 8.



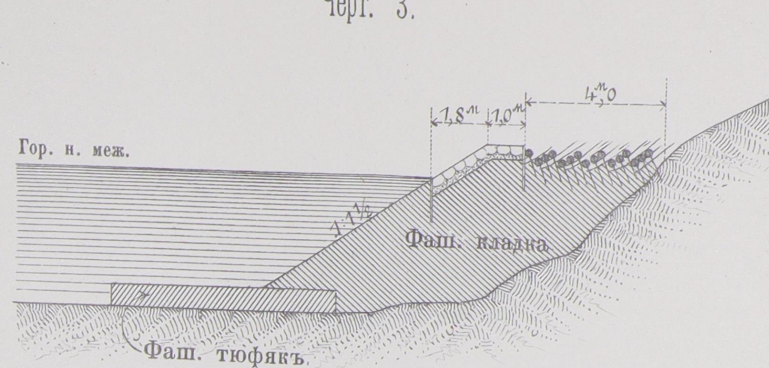
Черт. 1.



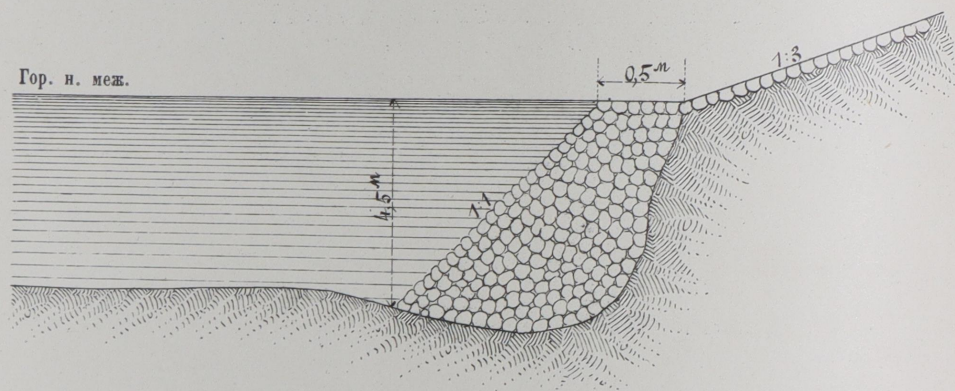
Черт. 2.



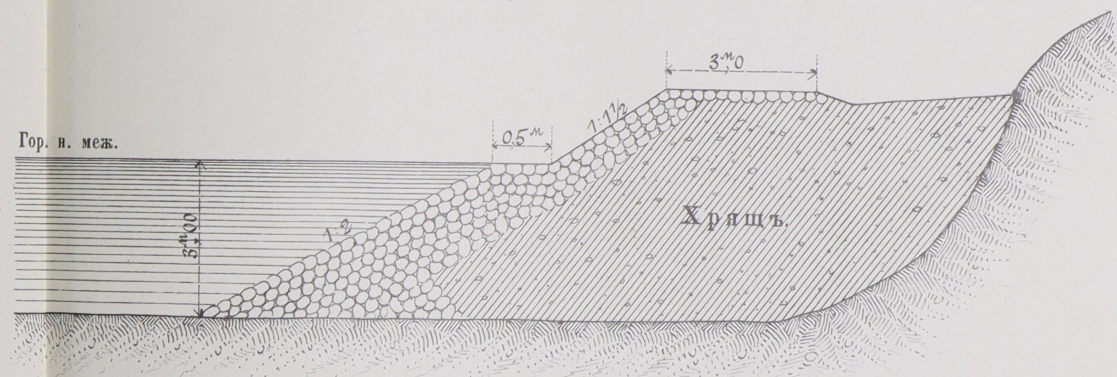
Черт. 3.



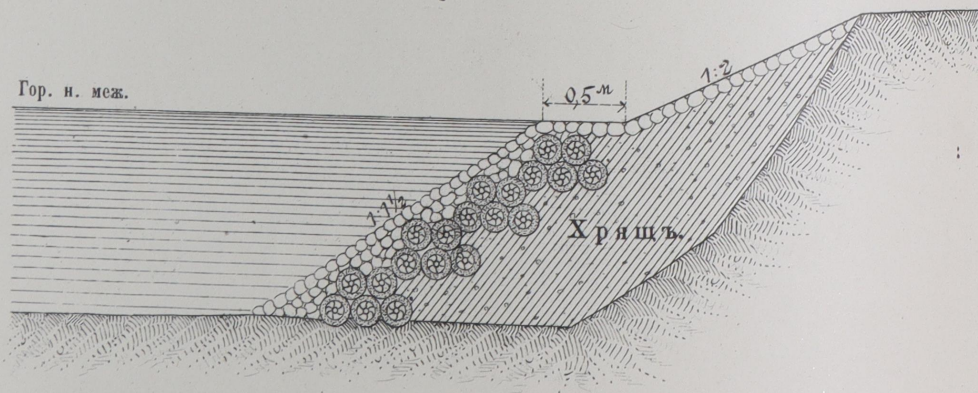
Черт. 4.



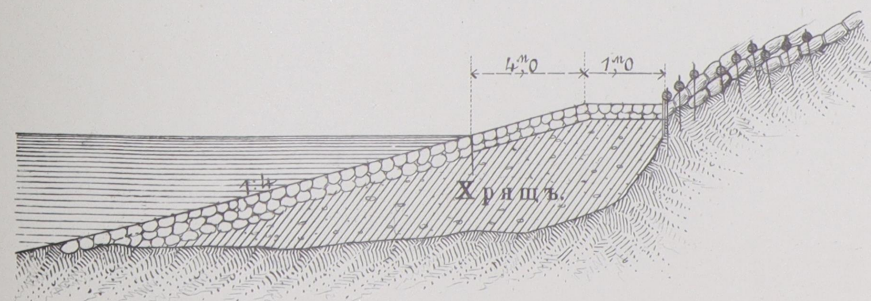
Черт. 5.



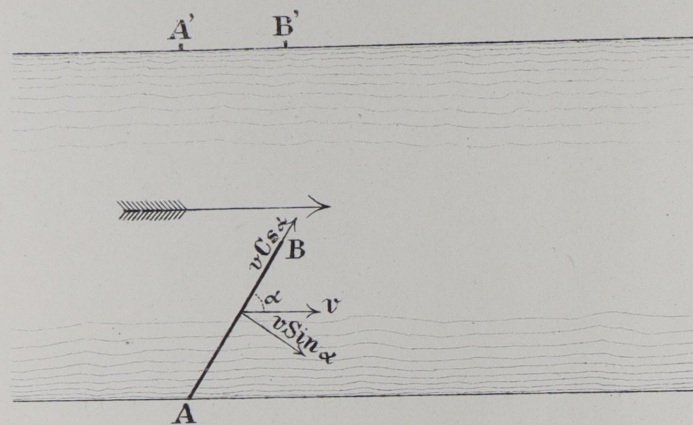
Черт. 6.



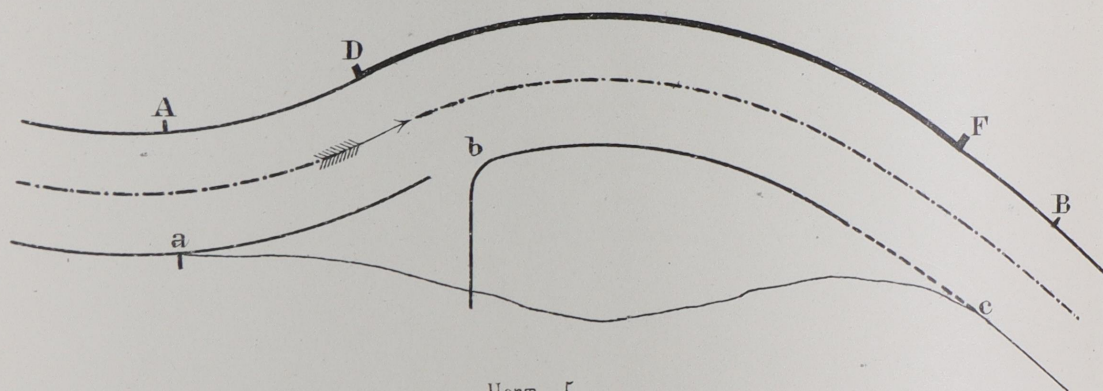
Черт. 7.



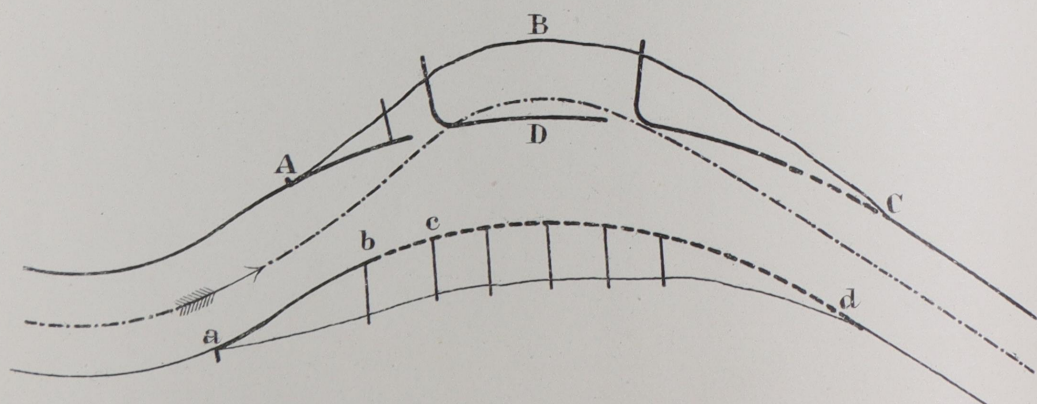
Черт. 1.



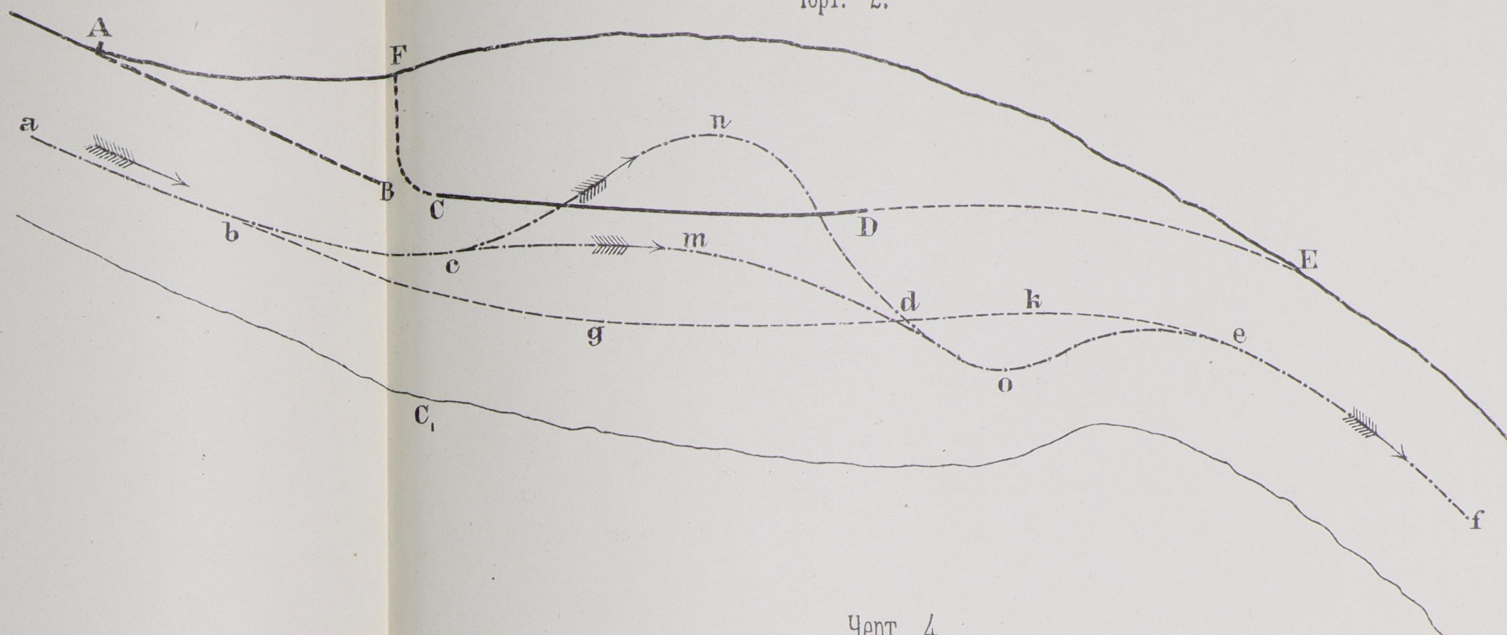
Черт. 3.



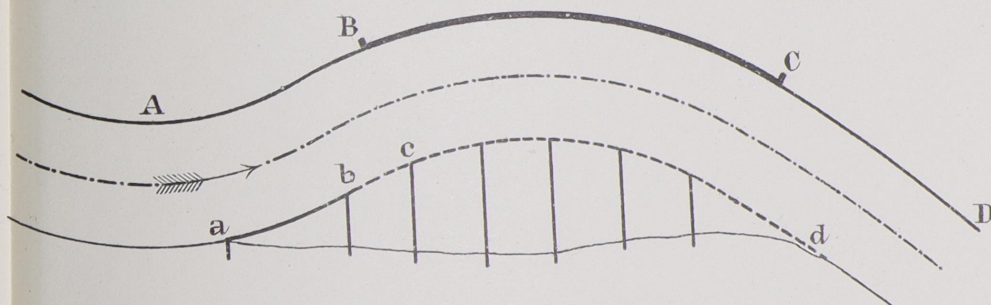
Черт. 5.



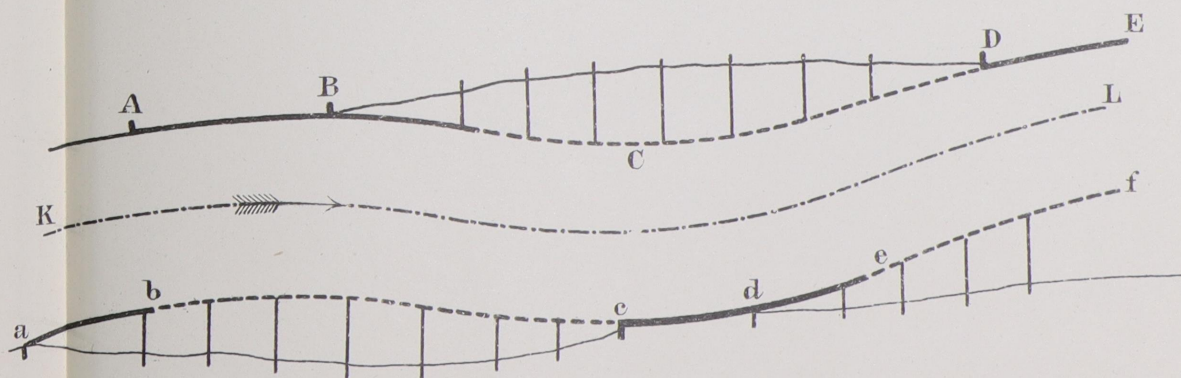
Черт. 2.



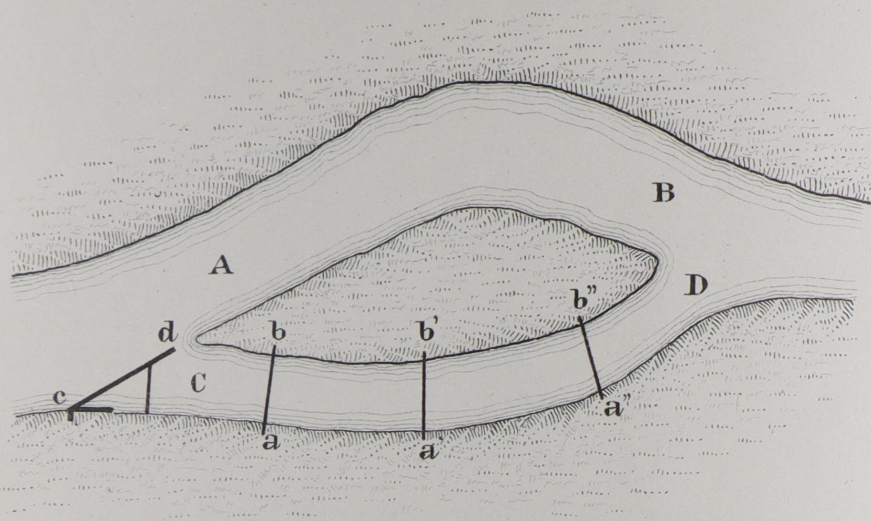
Черт. 4.



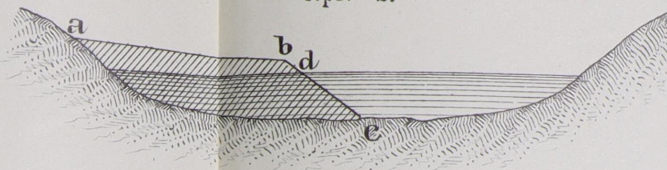
Черт. 6.



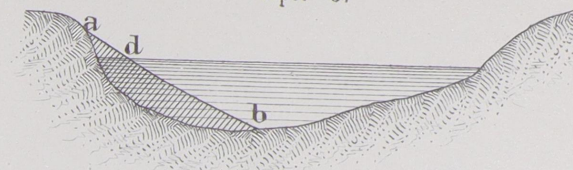
Черт. 1.



Черт. 2.



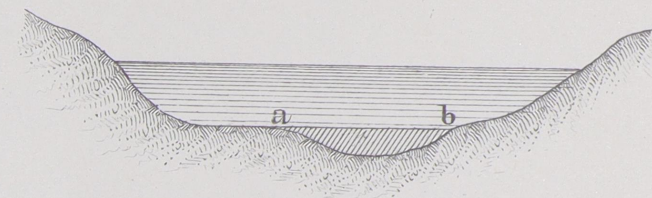
Черт. 3.



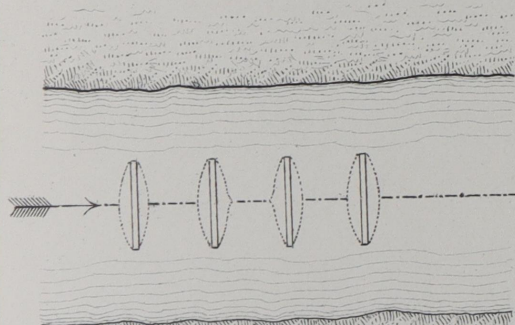
Черт. 4.



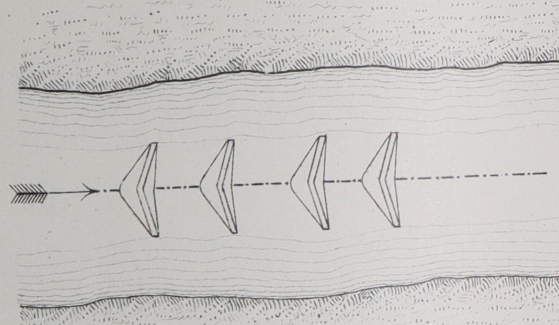
Черт. 5.



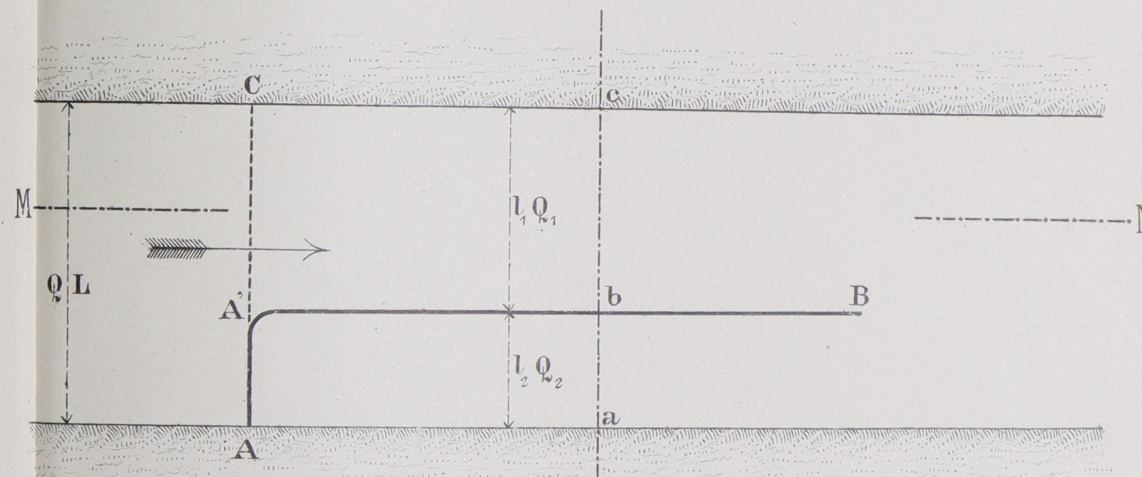
Черт. 6.



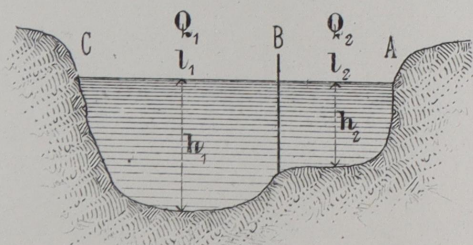
Черт. 7.



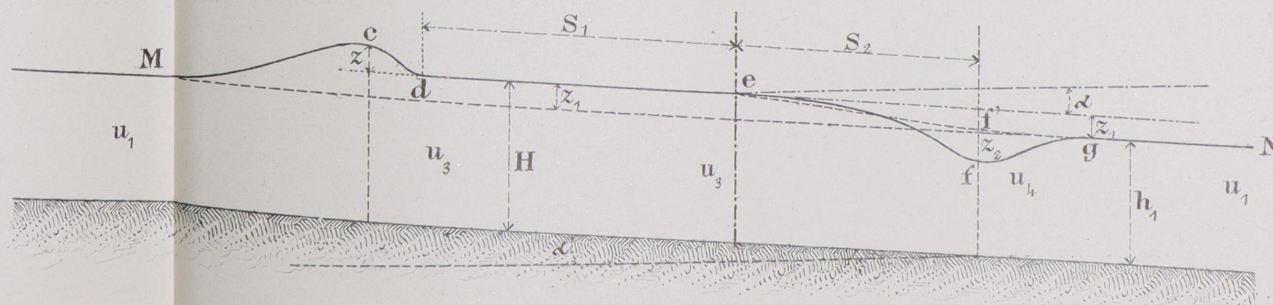
Черт. 8а. Планъ.



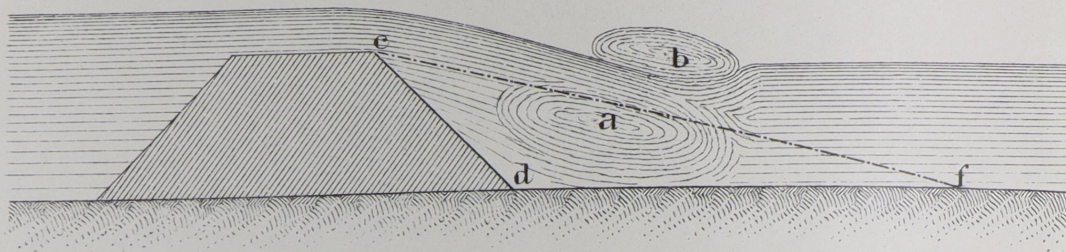
Черт. 8в. Поперечная профиль по сьа.



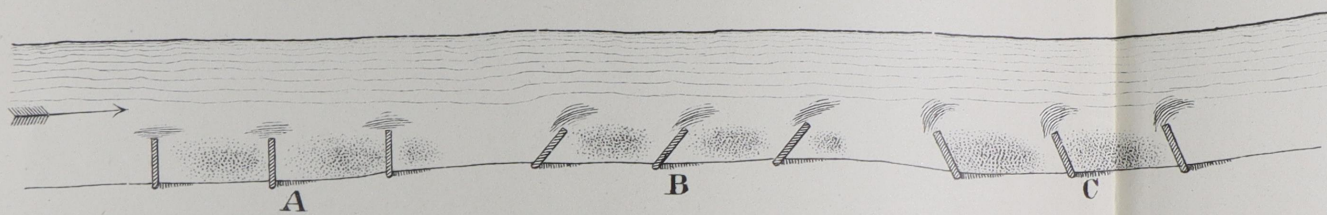
Черт. 8б. Продольная профиль по MN.



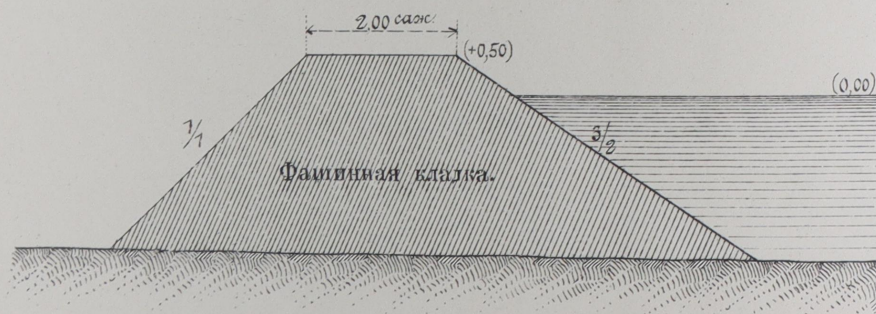
Черт. 1.



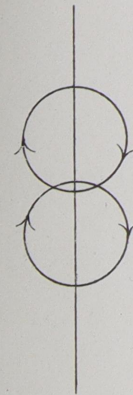
Черт. 4.



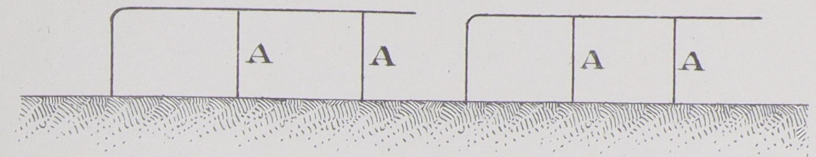
Черт. 6.



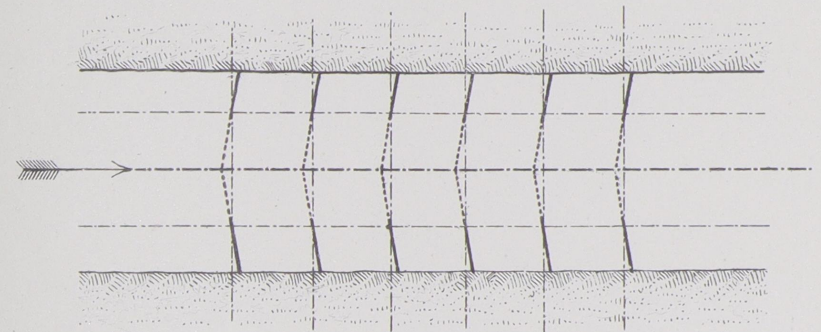
Черт. 2.



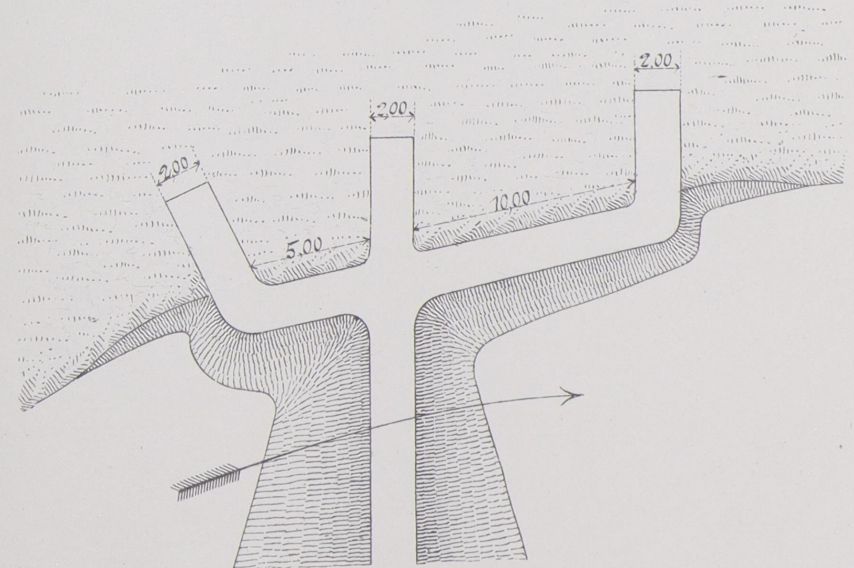
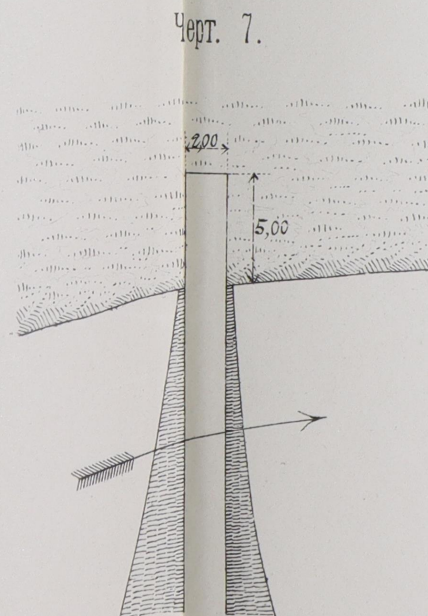
Черт. 3.



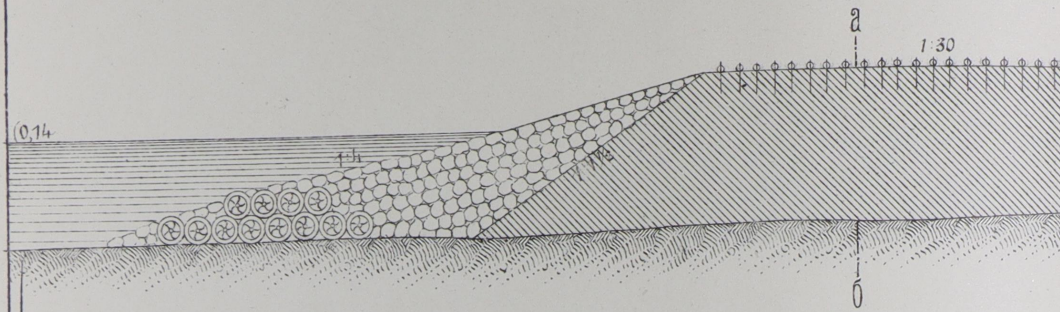
Черт. 5.



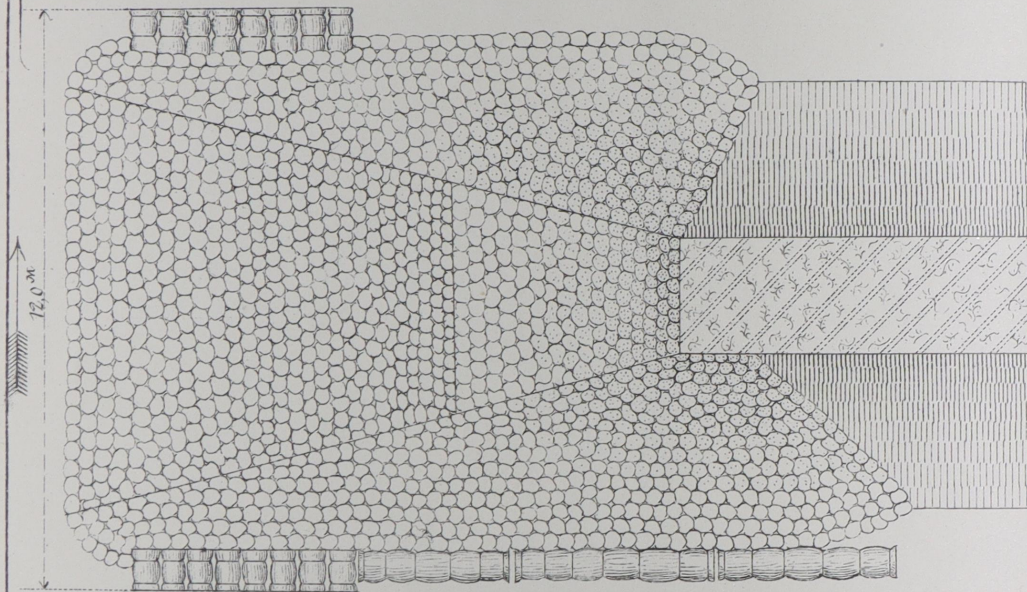
Черт. 8.



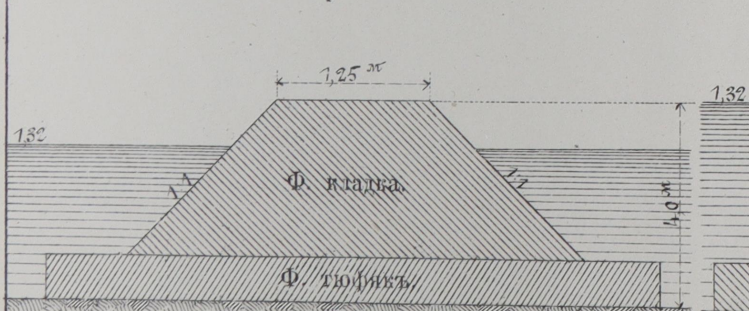
Черт. 1. Продольный разръзъ.



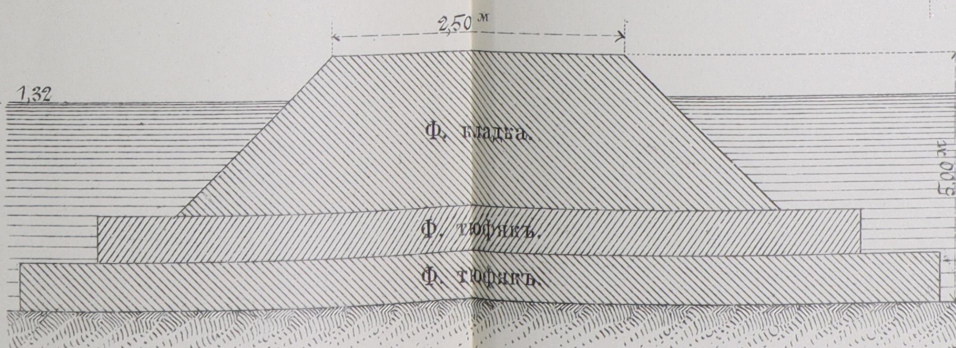
Планъ



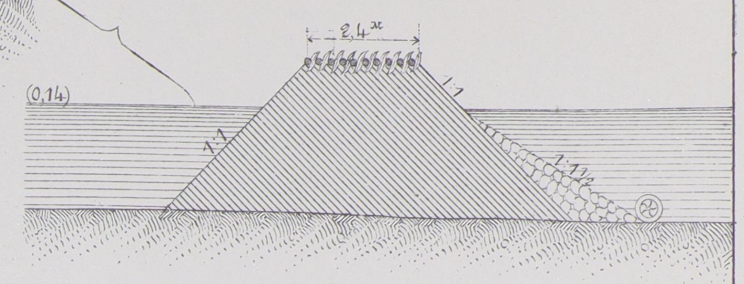
Черт. 2.



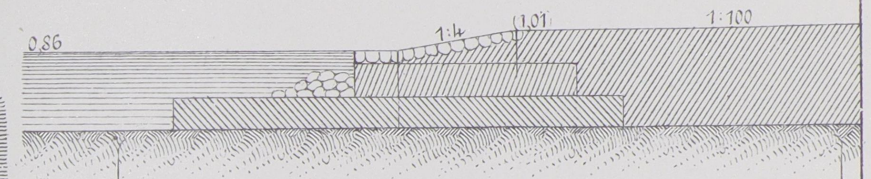
Черт. 3.



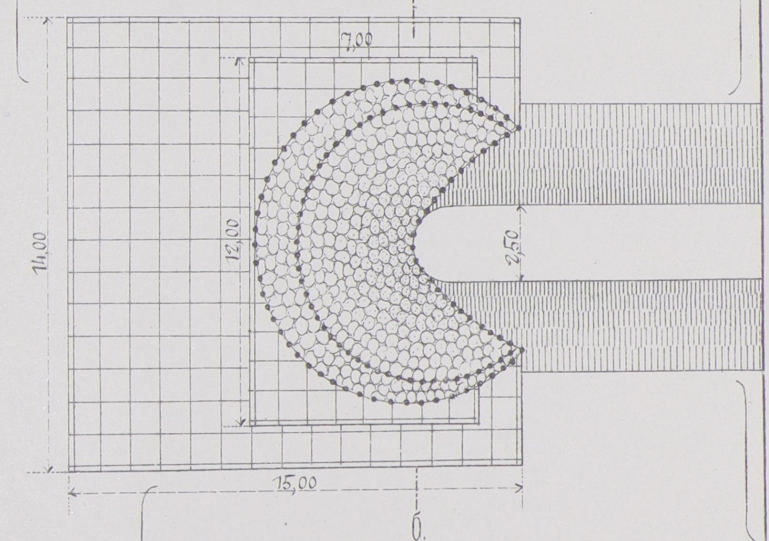
Разръзъ по а-б.



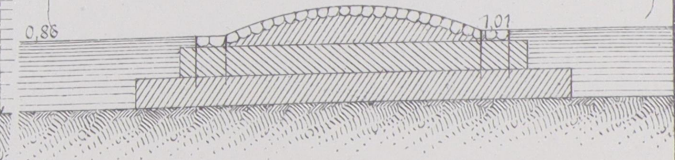
Черт. 4. Продольный разръзъ.



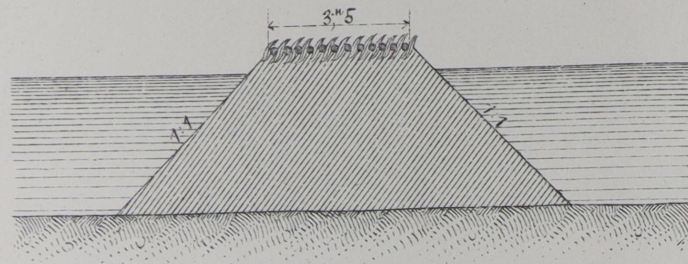
Планъ а



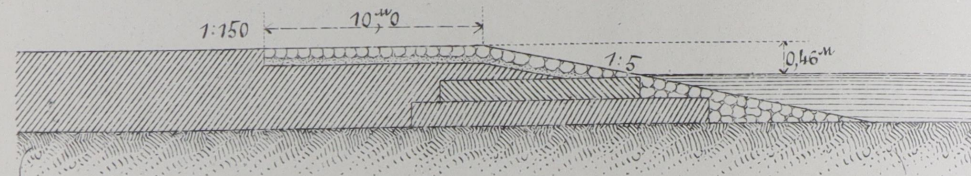
Разръзъ по а-б.



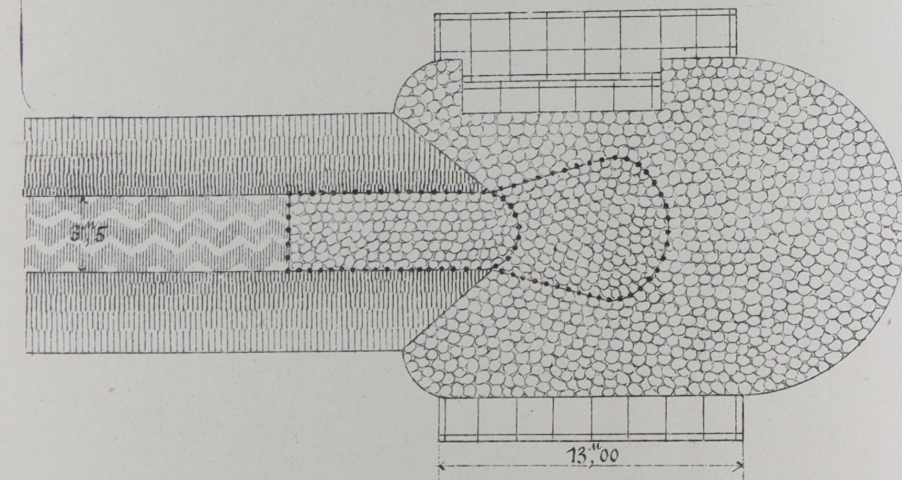
Черт. 1.



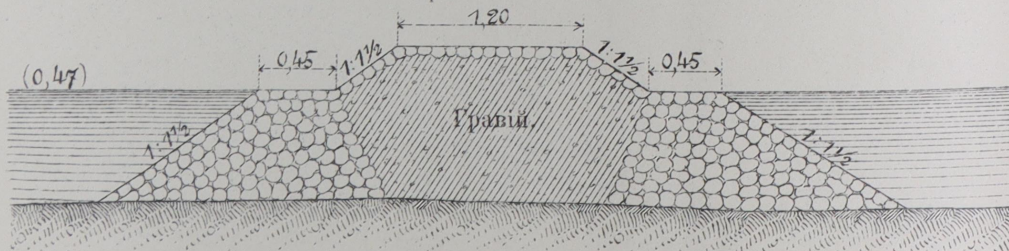
Черт. 2. Продольный разръзъ.



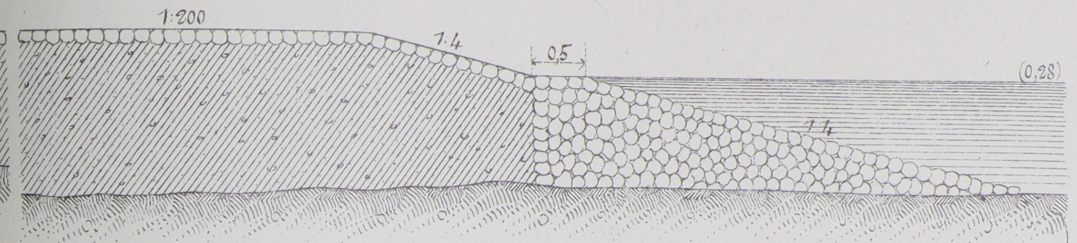
Планъ



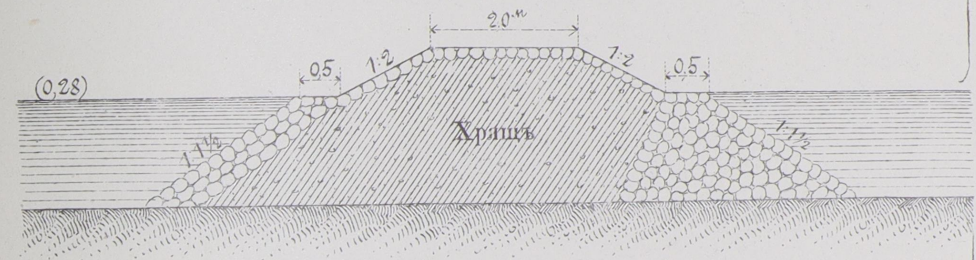
Черт. 3.



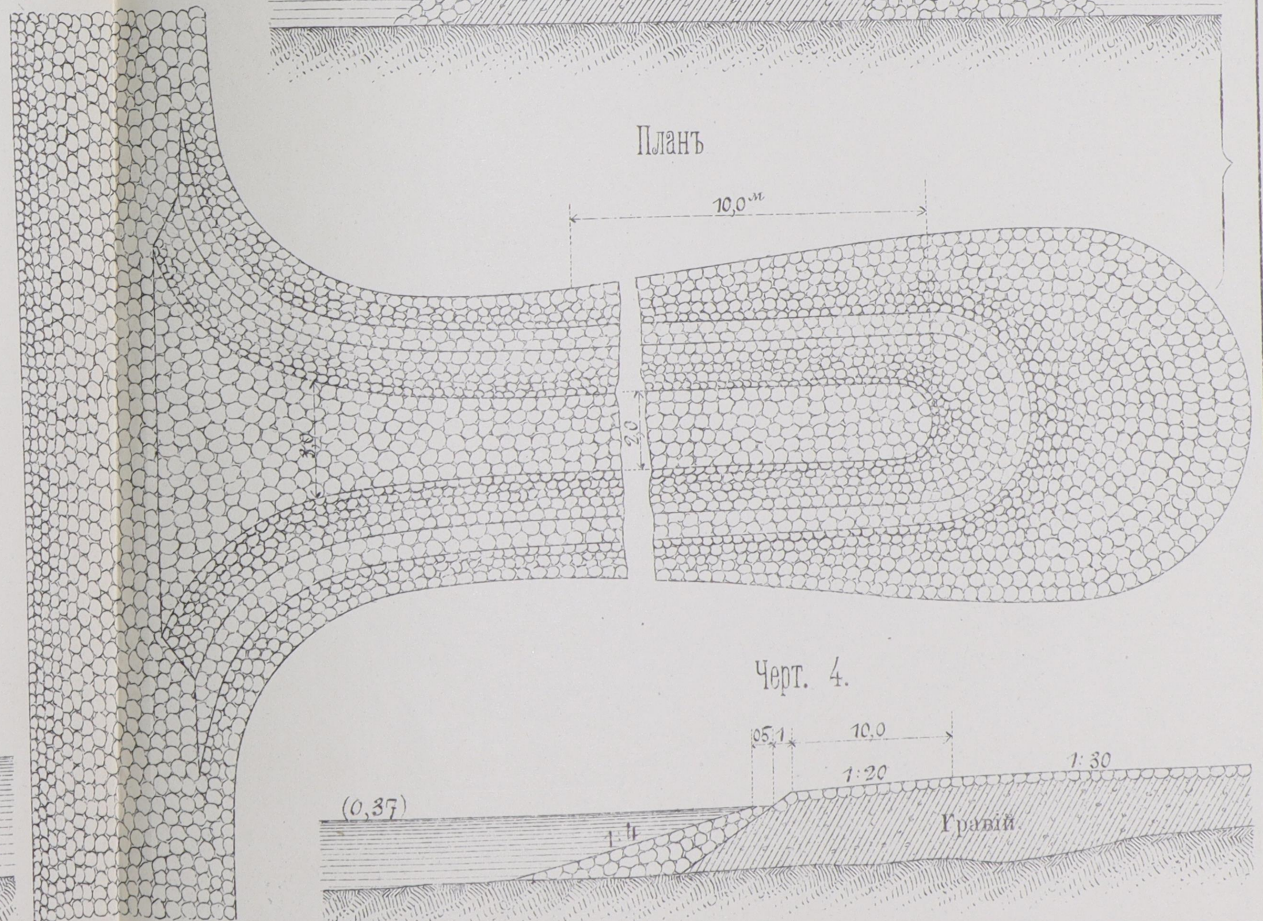
Продольный разръзъ.



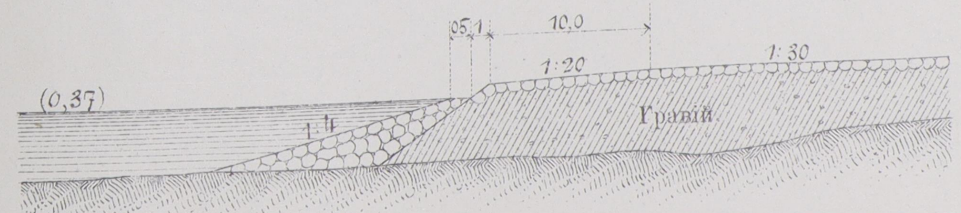
Черт. 5. Поперечный разръзъ.



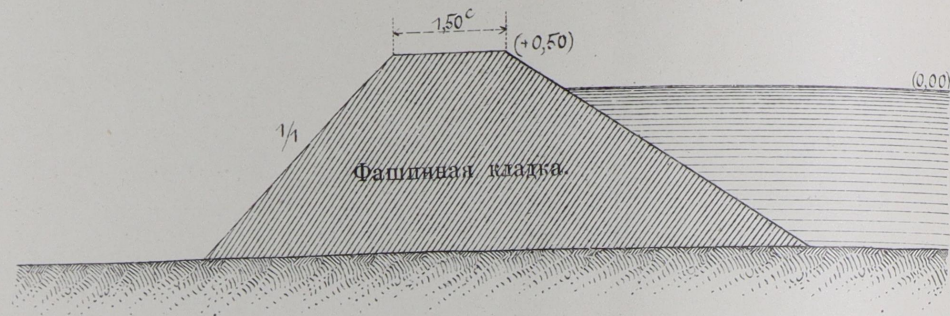
Планъ



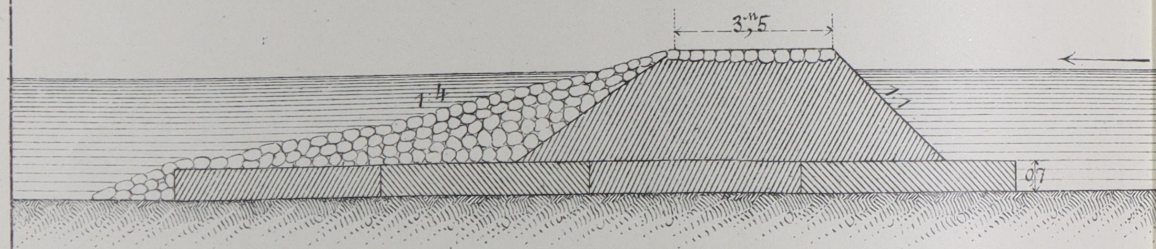
Черт. 4.



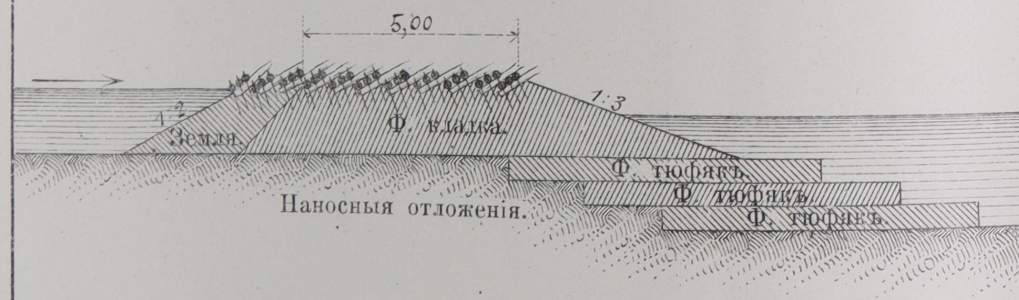
Черт. 1.



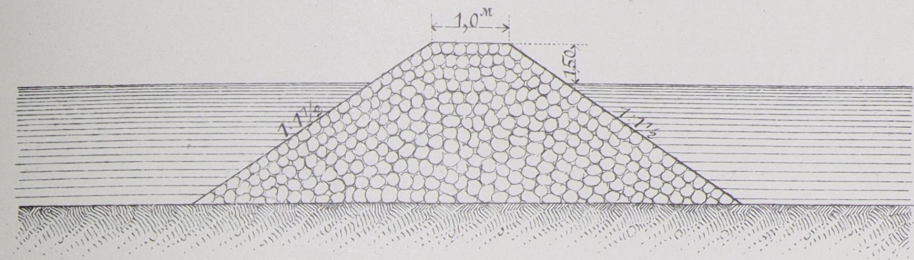
Черт. 5.



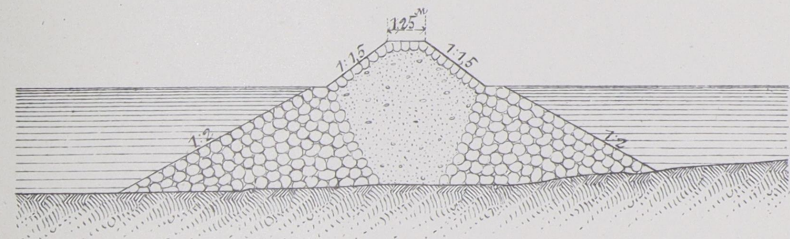
Черт. 4.



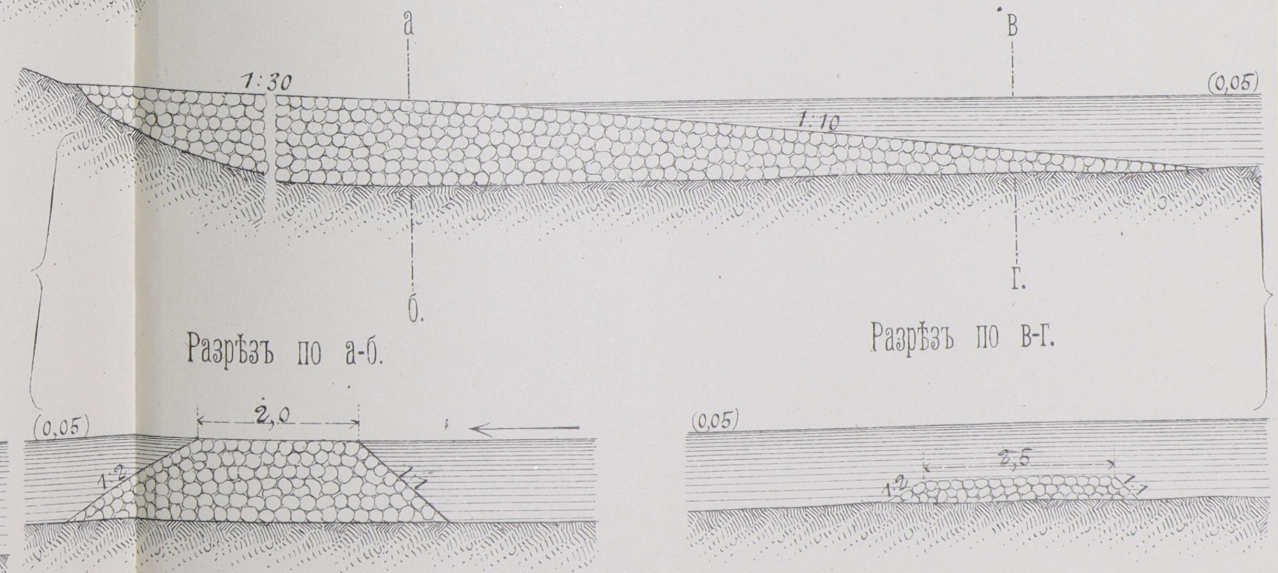
Черт. 2.



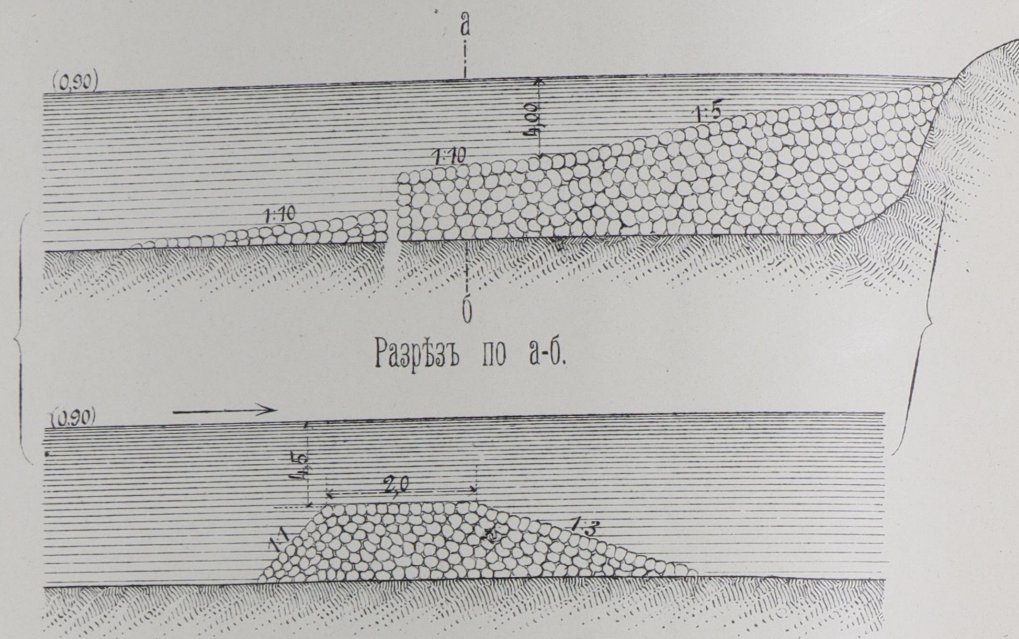
Черт. 3.



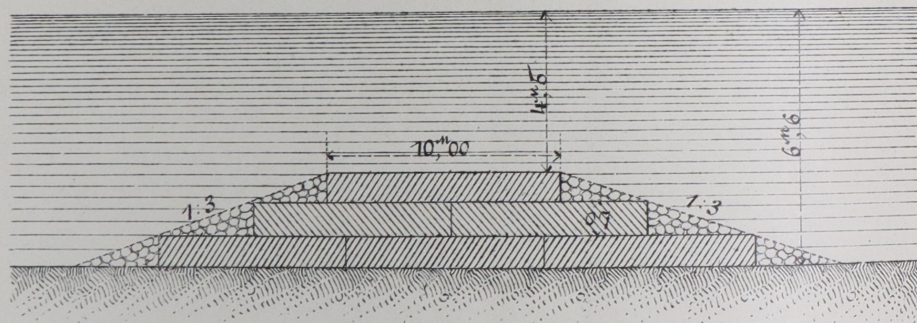
Черт. 6.



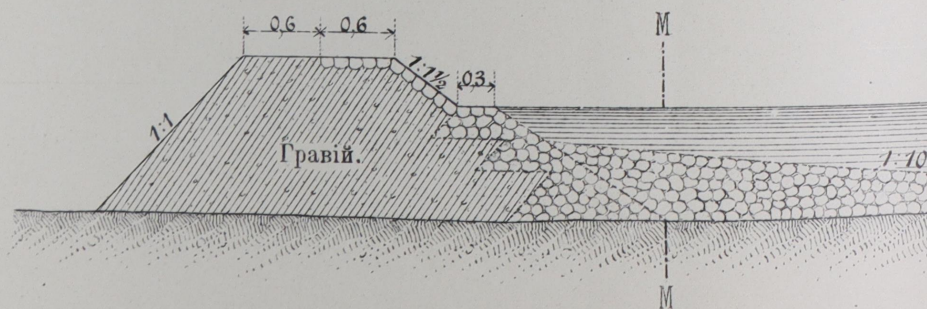
Черт. 1.



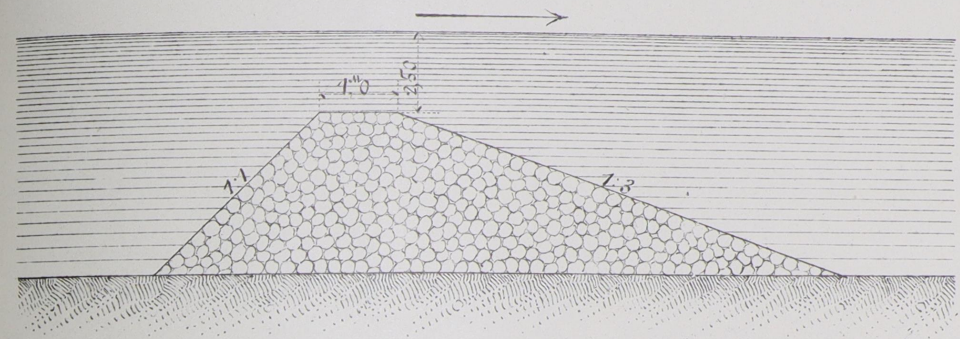
Черт. 4.



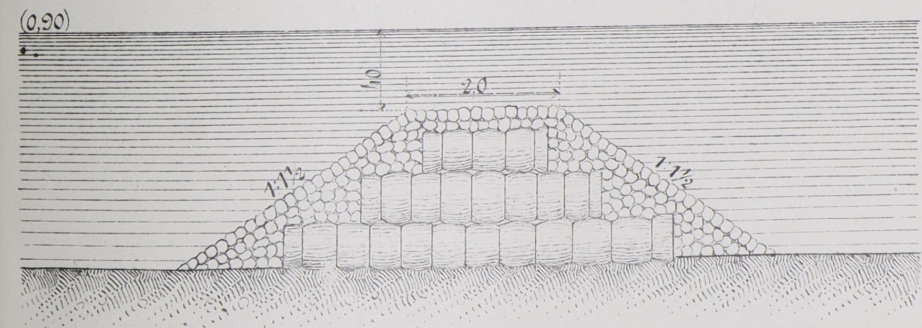
Черт. 3.



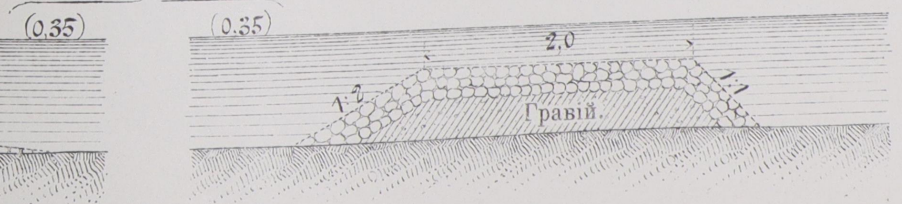
Черт. 2.



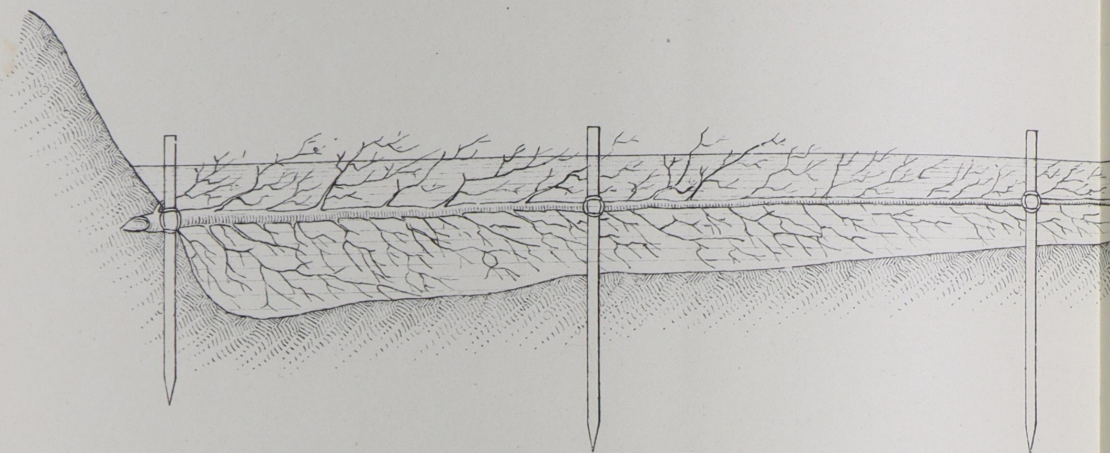
Черт. 5.



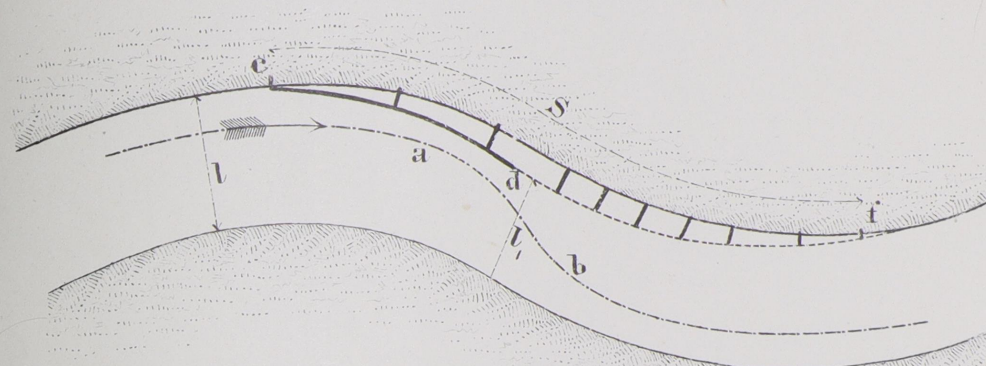
Разрѣзъ по М-М.



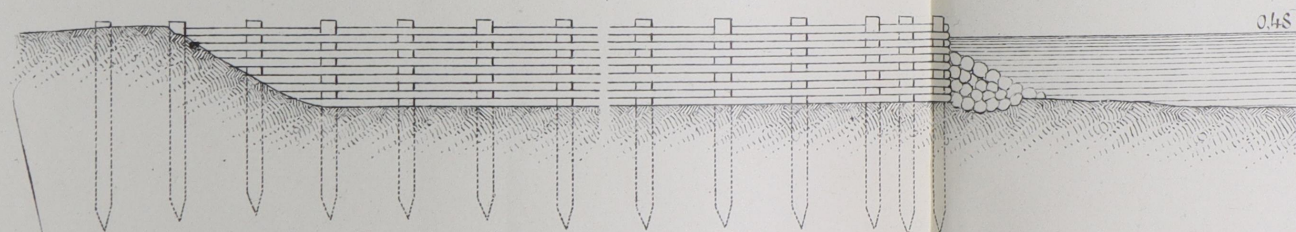
Черт. 1.



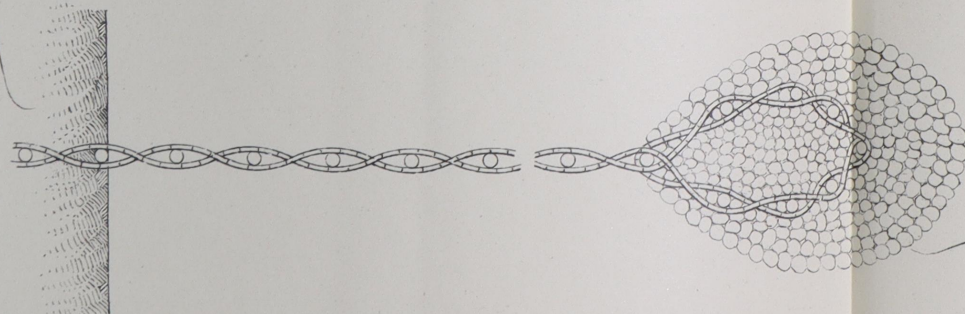
Черт. 3.



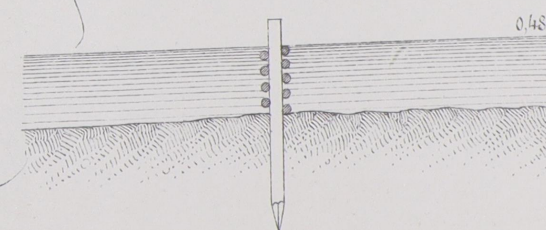
Черт. 2. Фасадъ.

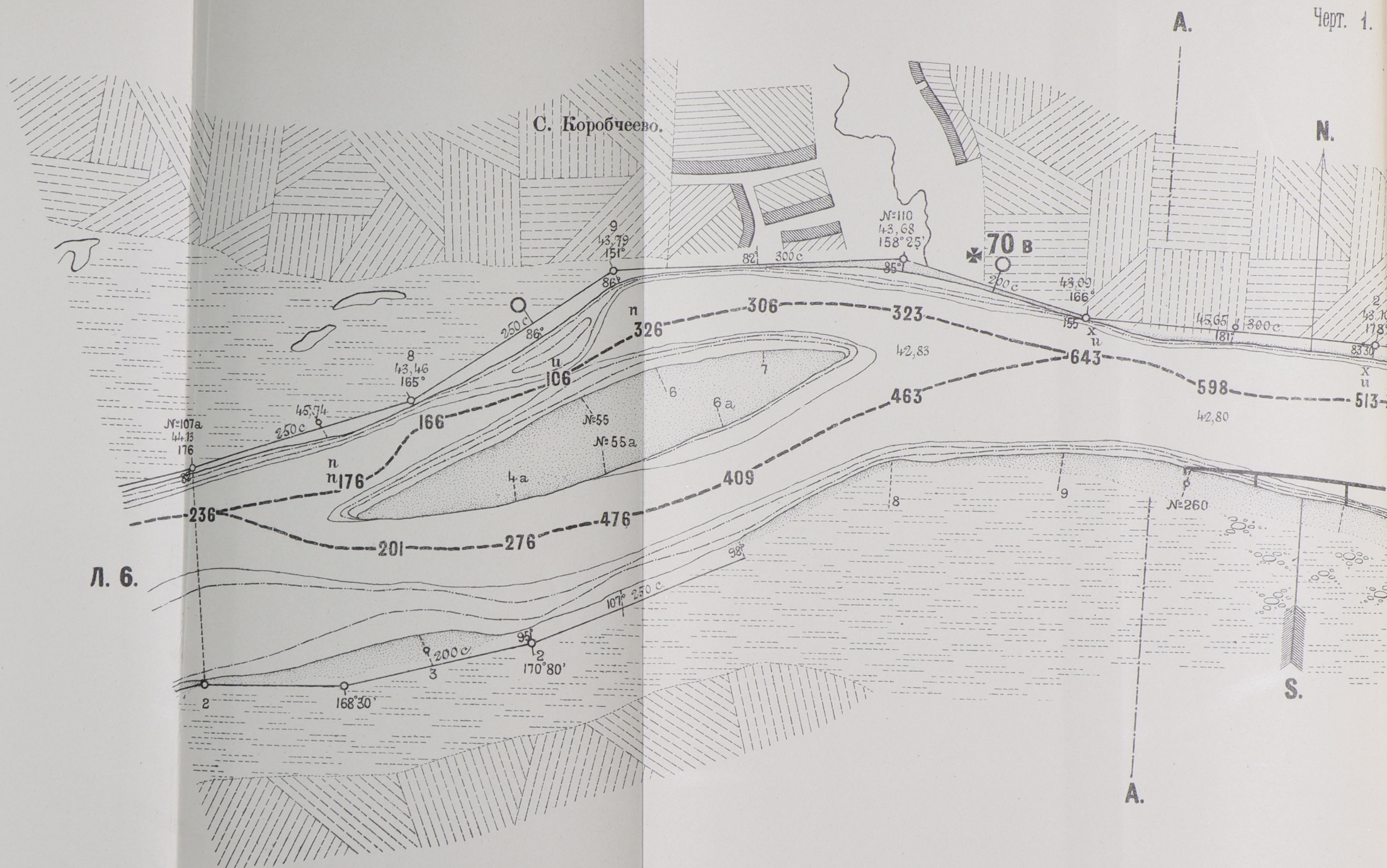


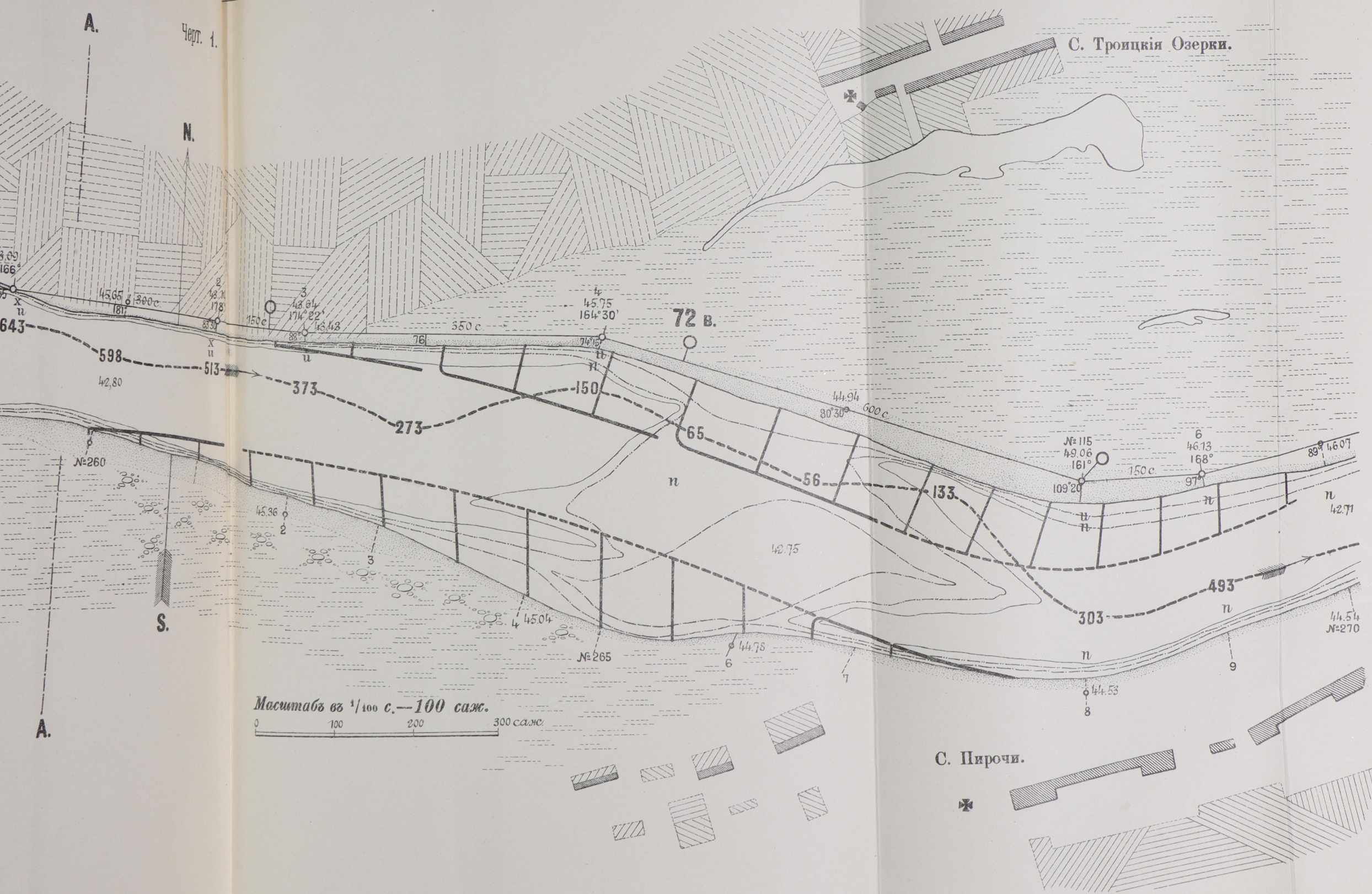
Планъ.

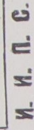


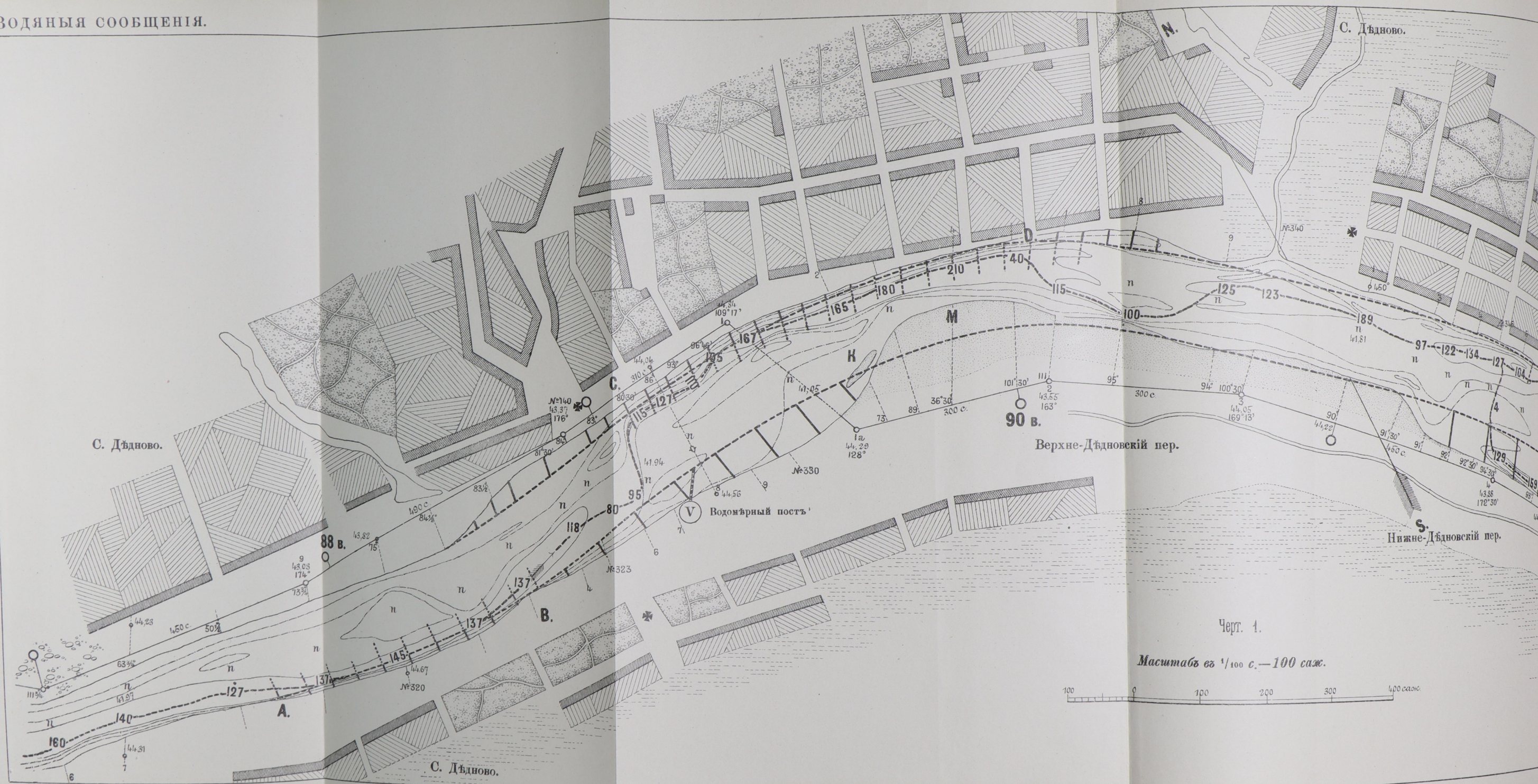
Поперечный разрёзъ.

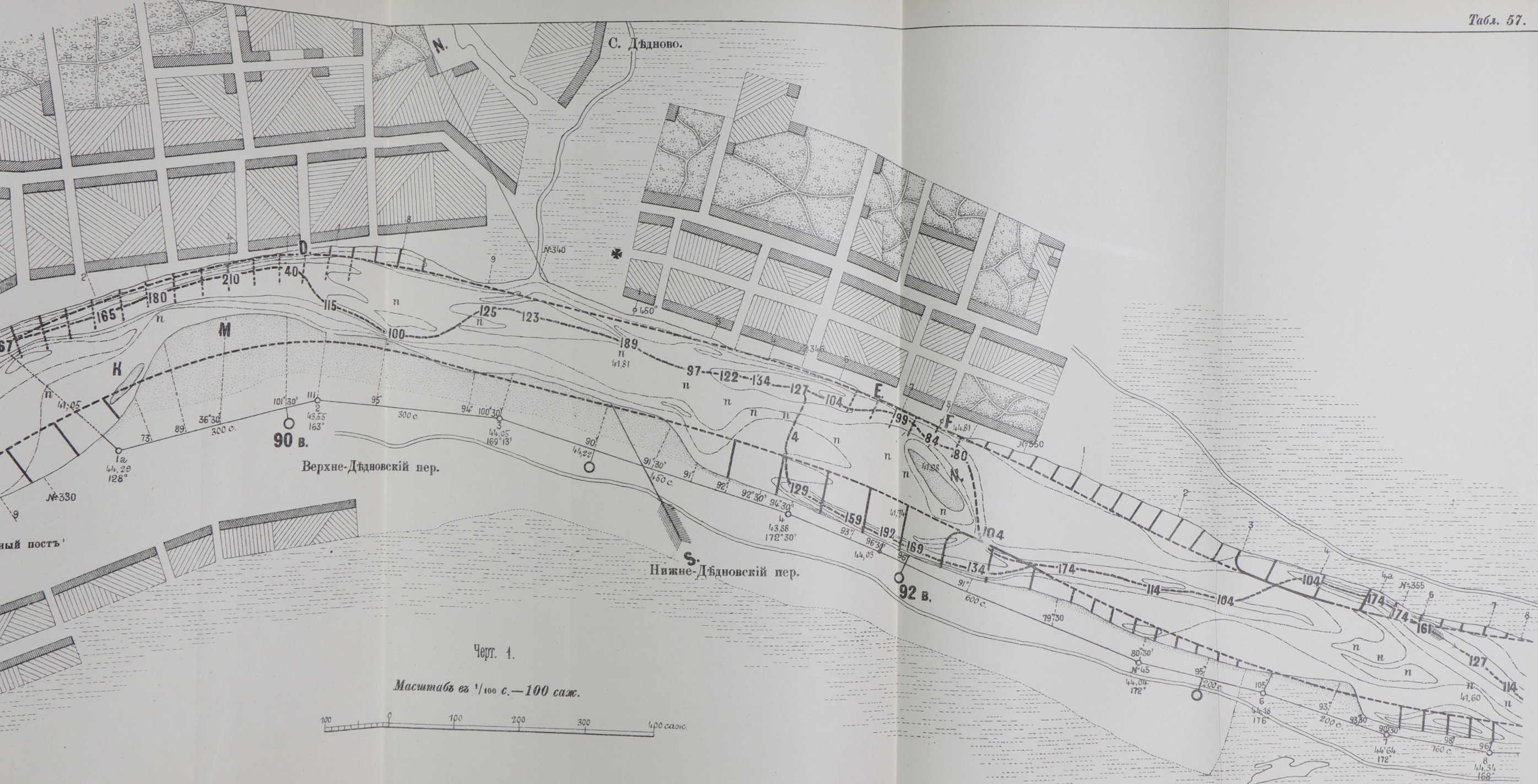




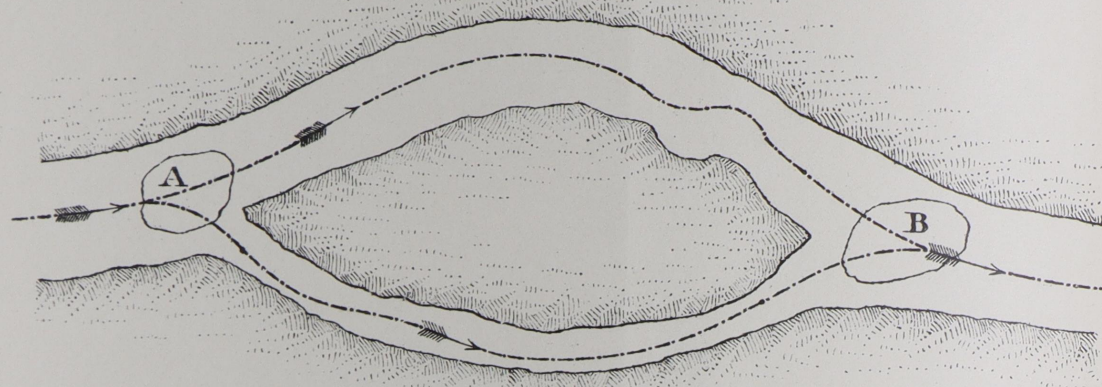




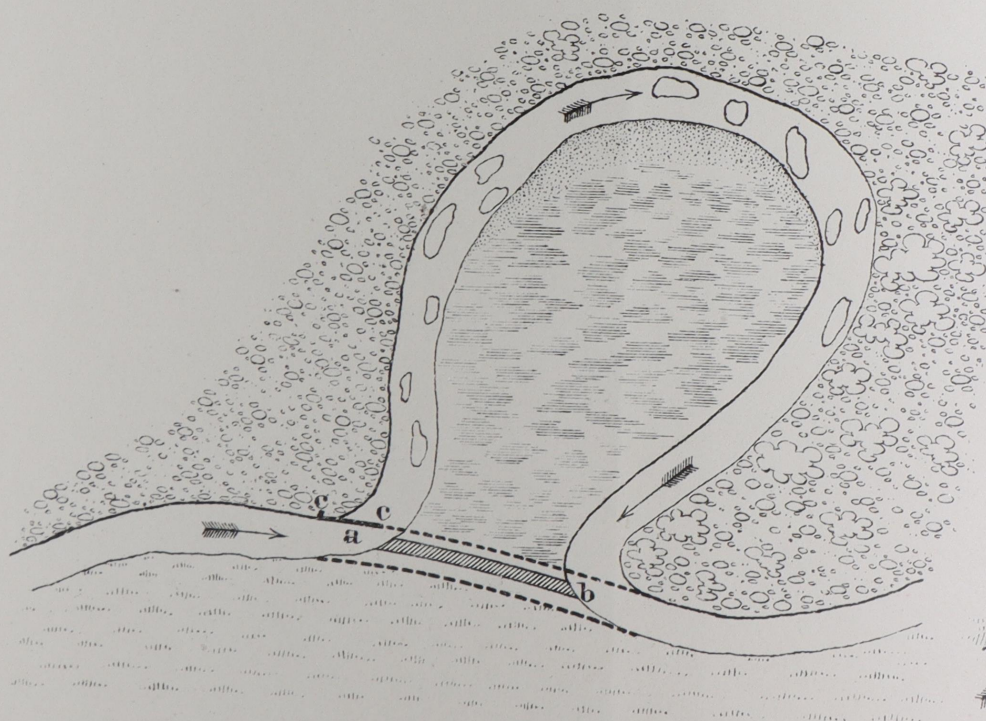




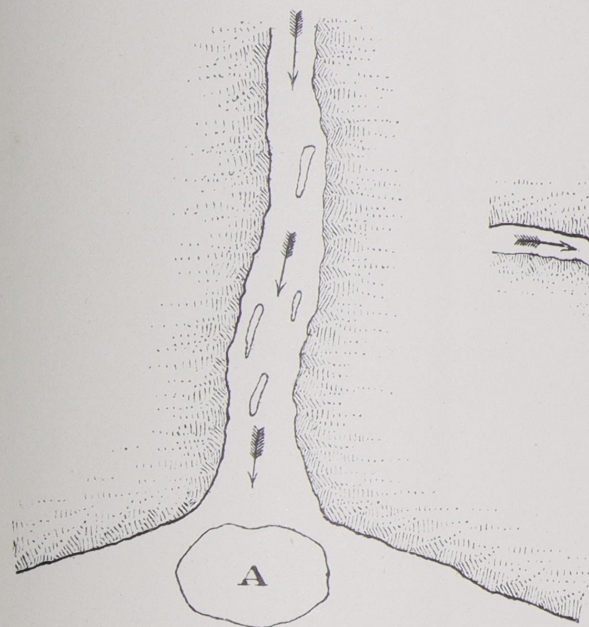
Черт. 1.



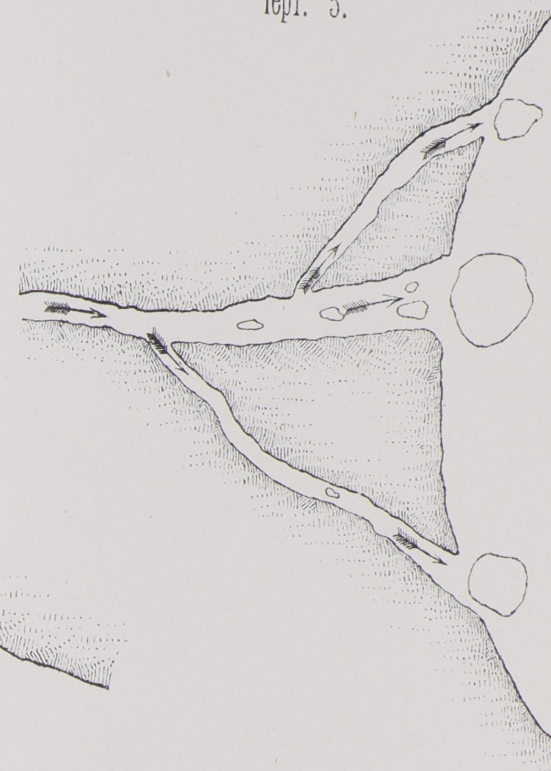
Черт. 3.



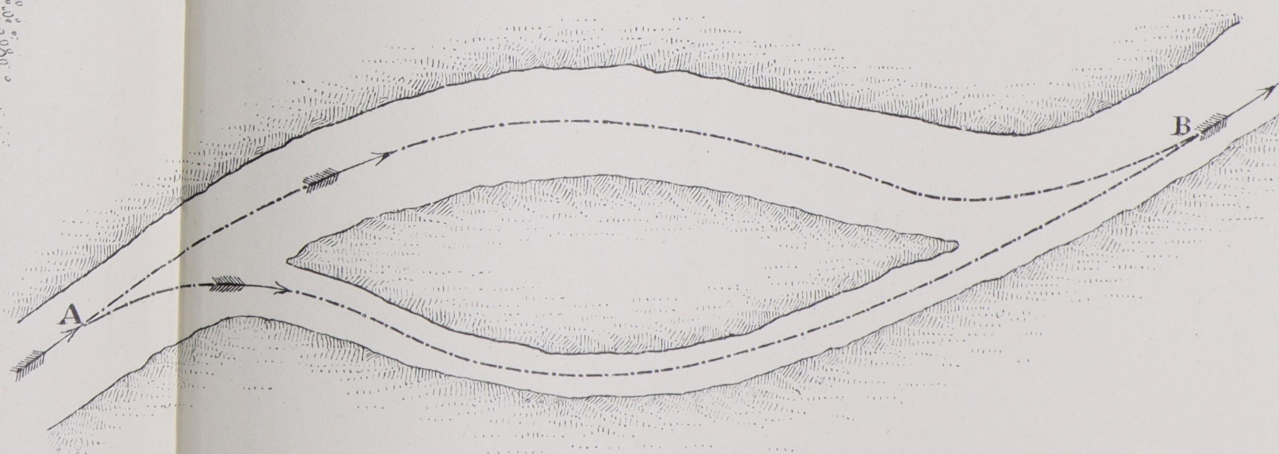
Черт. 4.



Черт. 5.

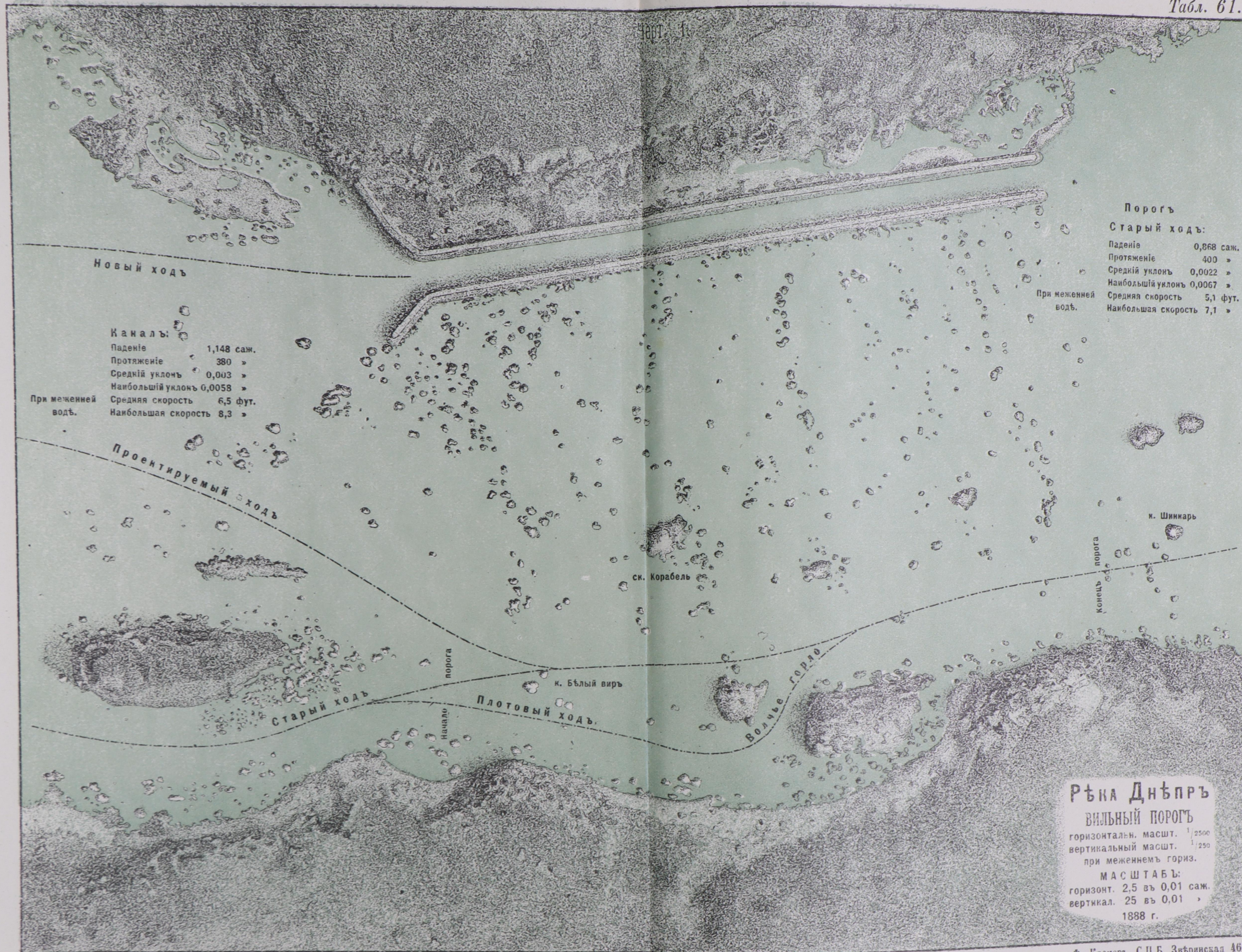


Черт. 2.

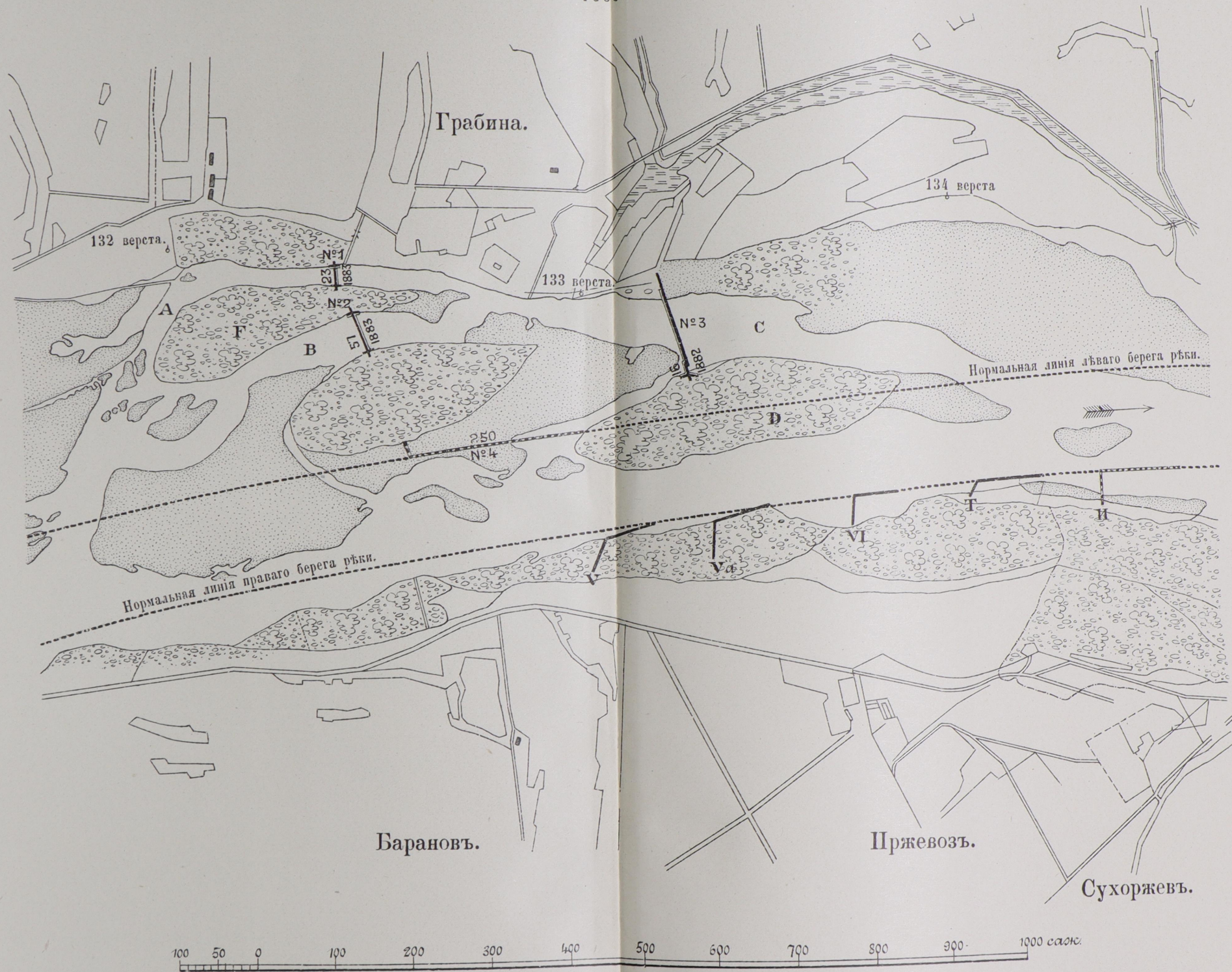




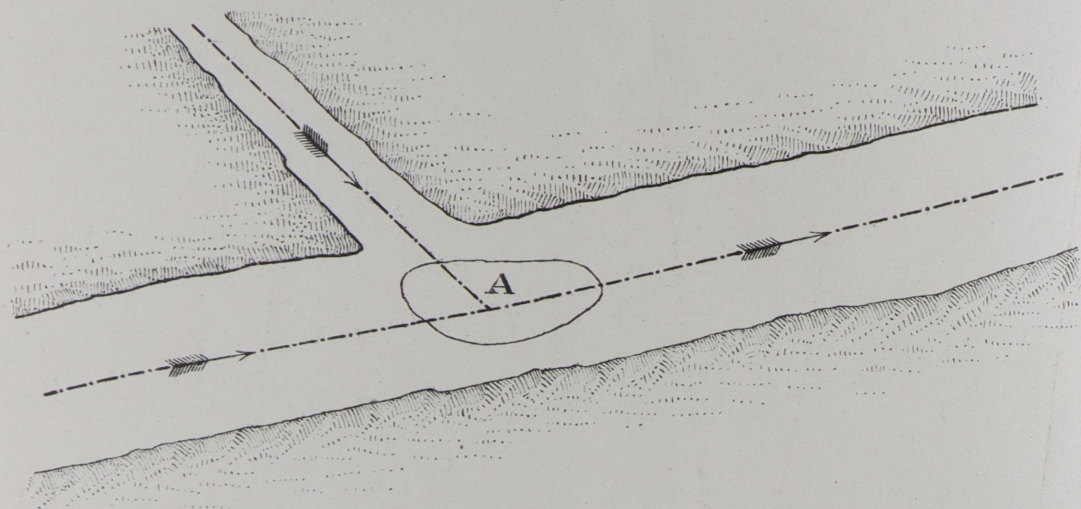




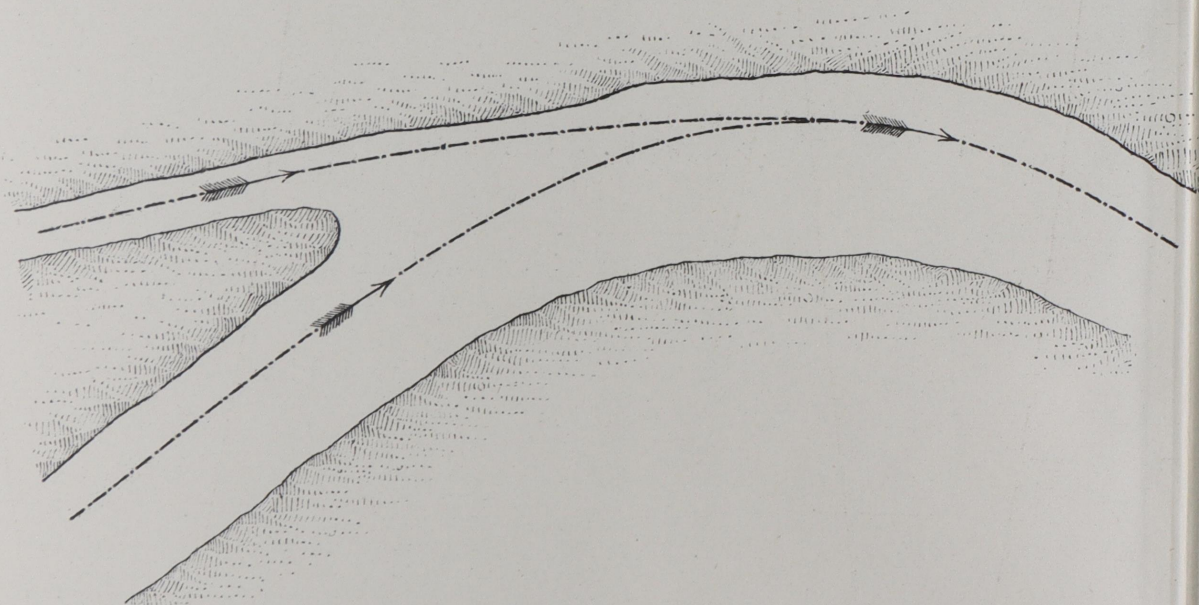
Черт. 1.
Планъ рѣки Вислы у д. Грабина
1883 г.



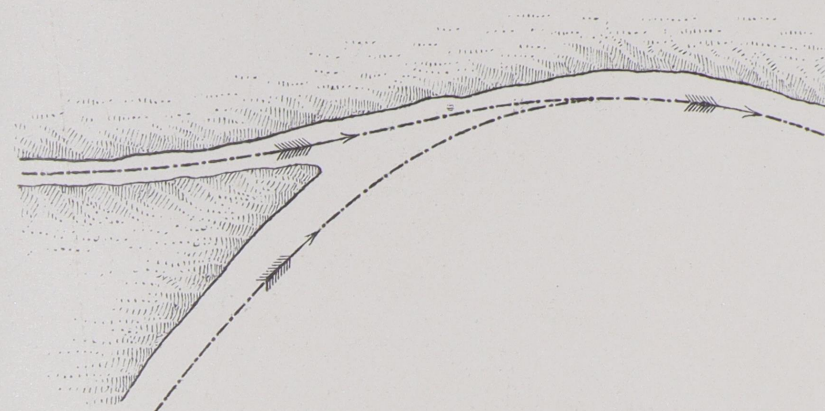
Черт. 1.



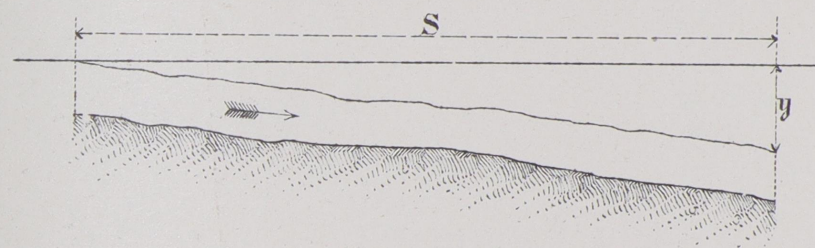
Черт. 3.



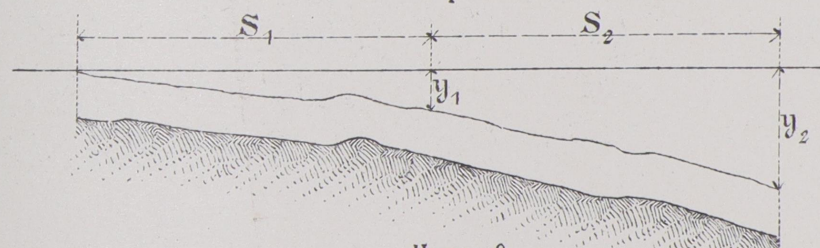
Черт. 2.



Черт. 4.



Черт. 5.



Черт. 6.

