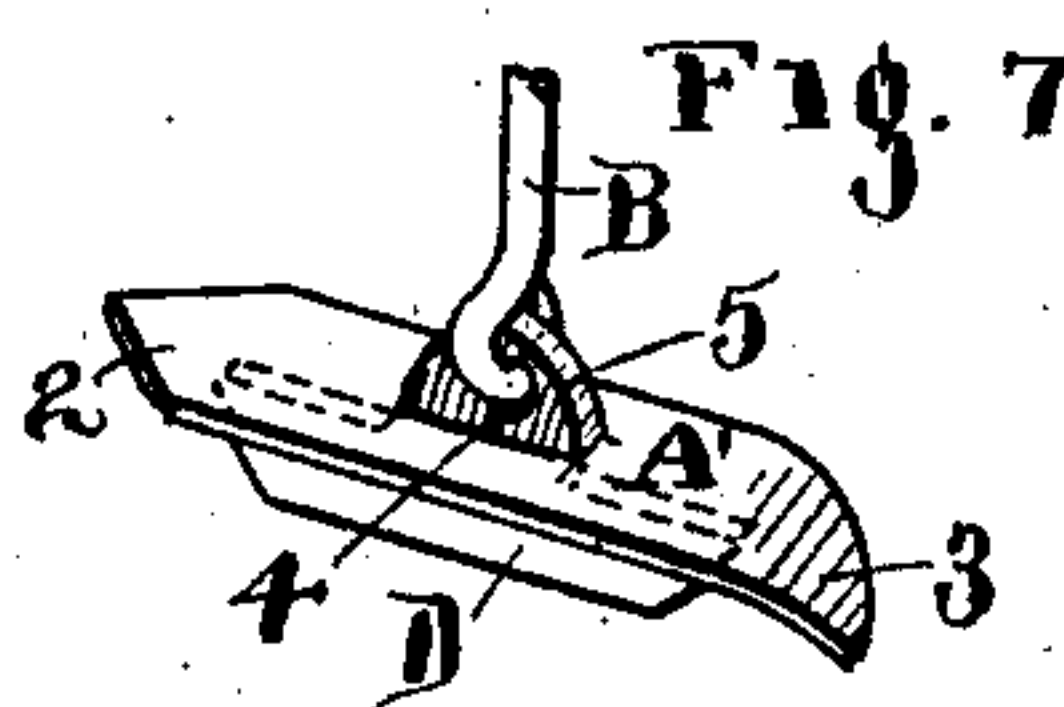
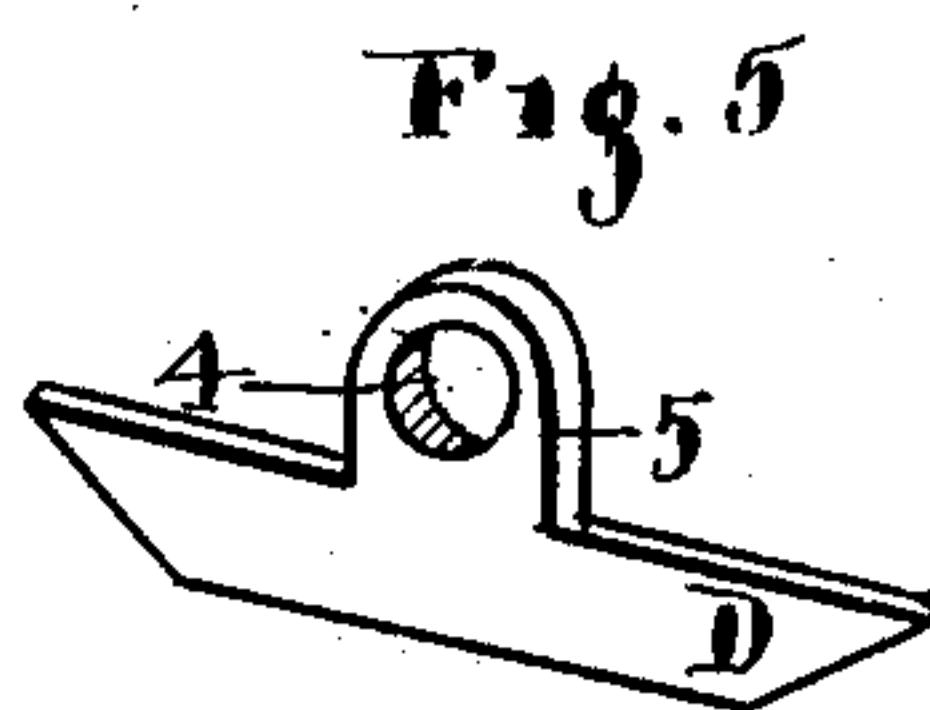
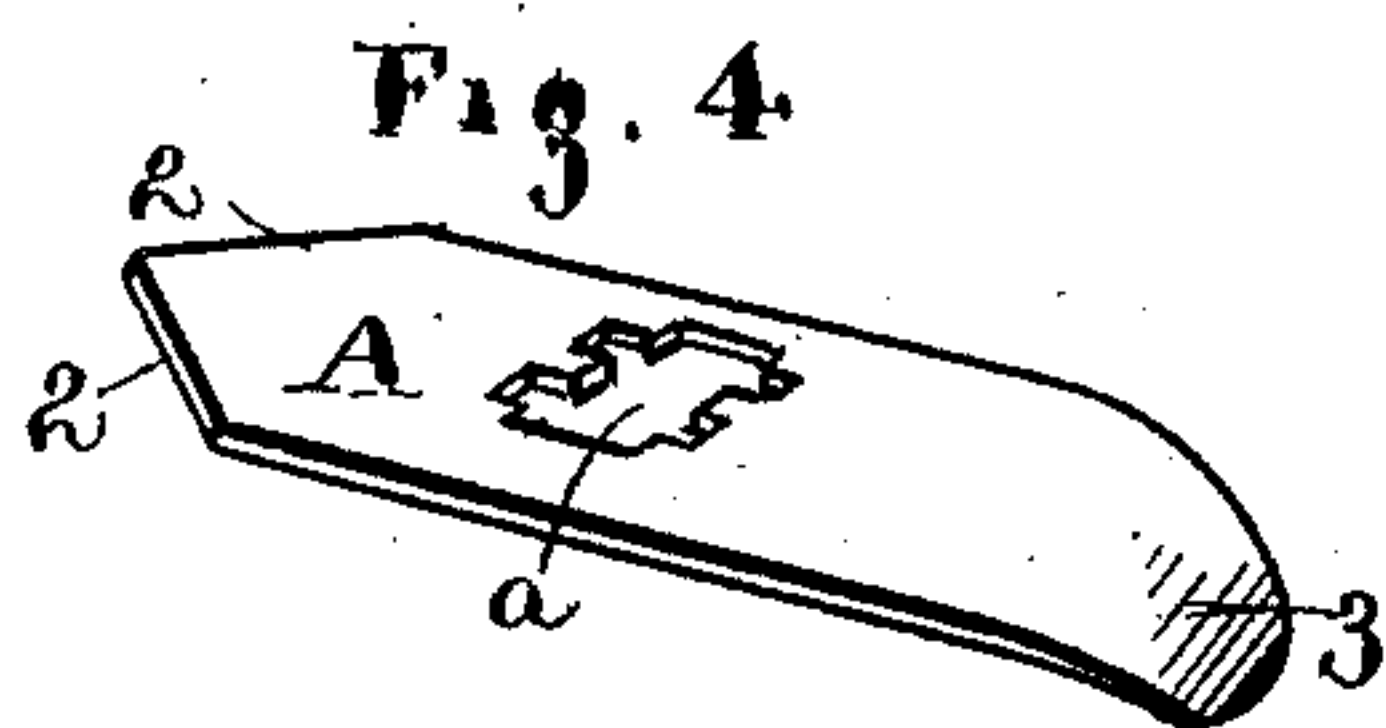
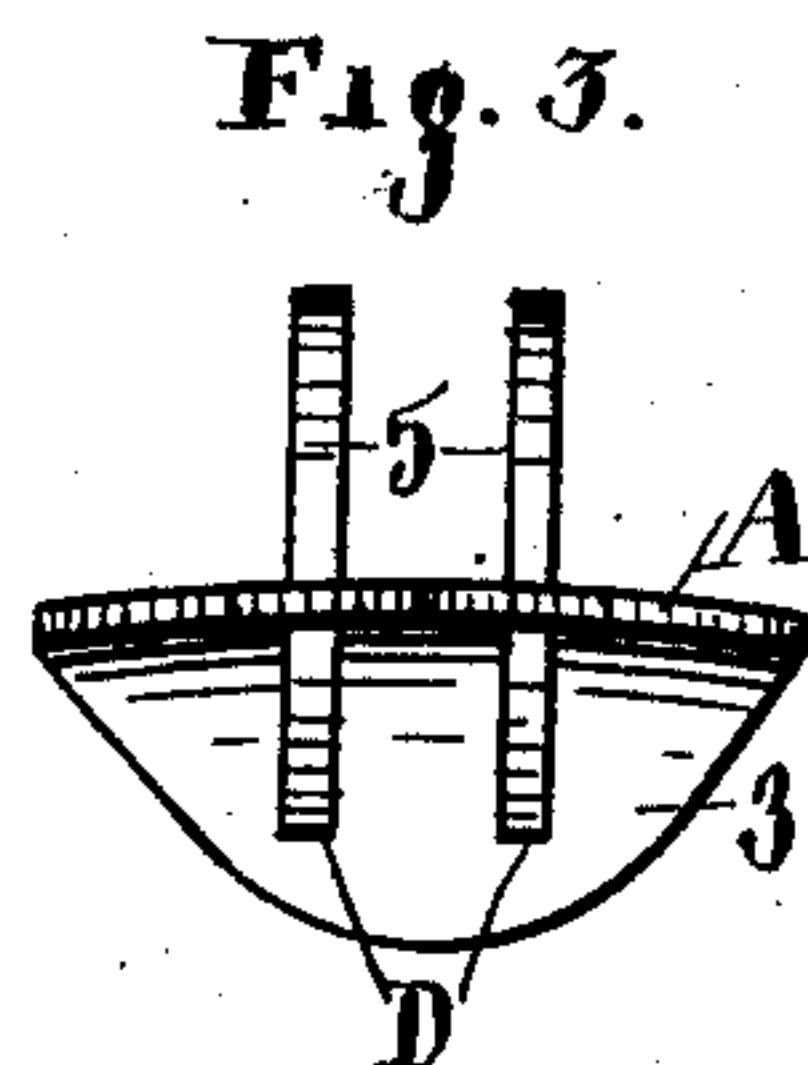
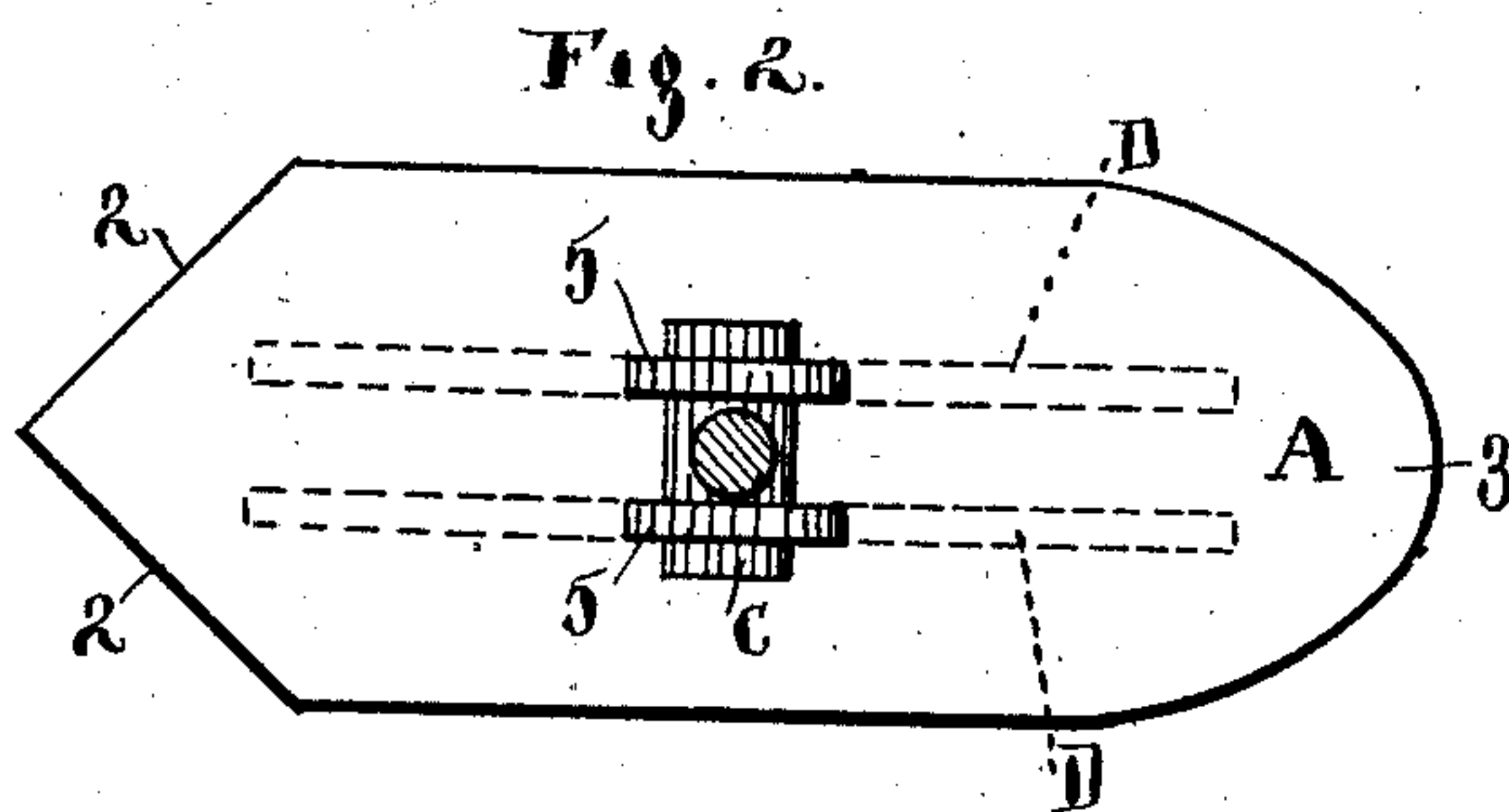
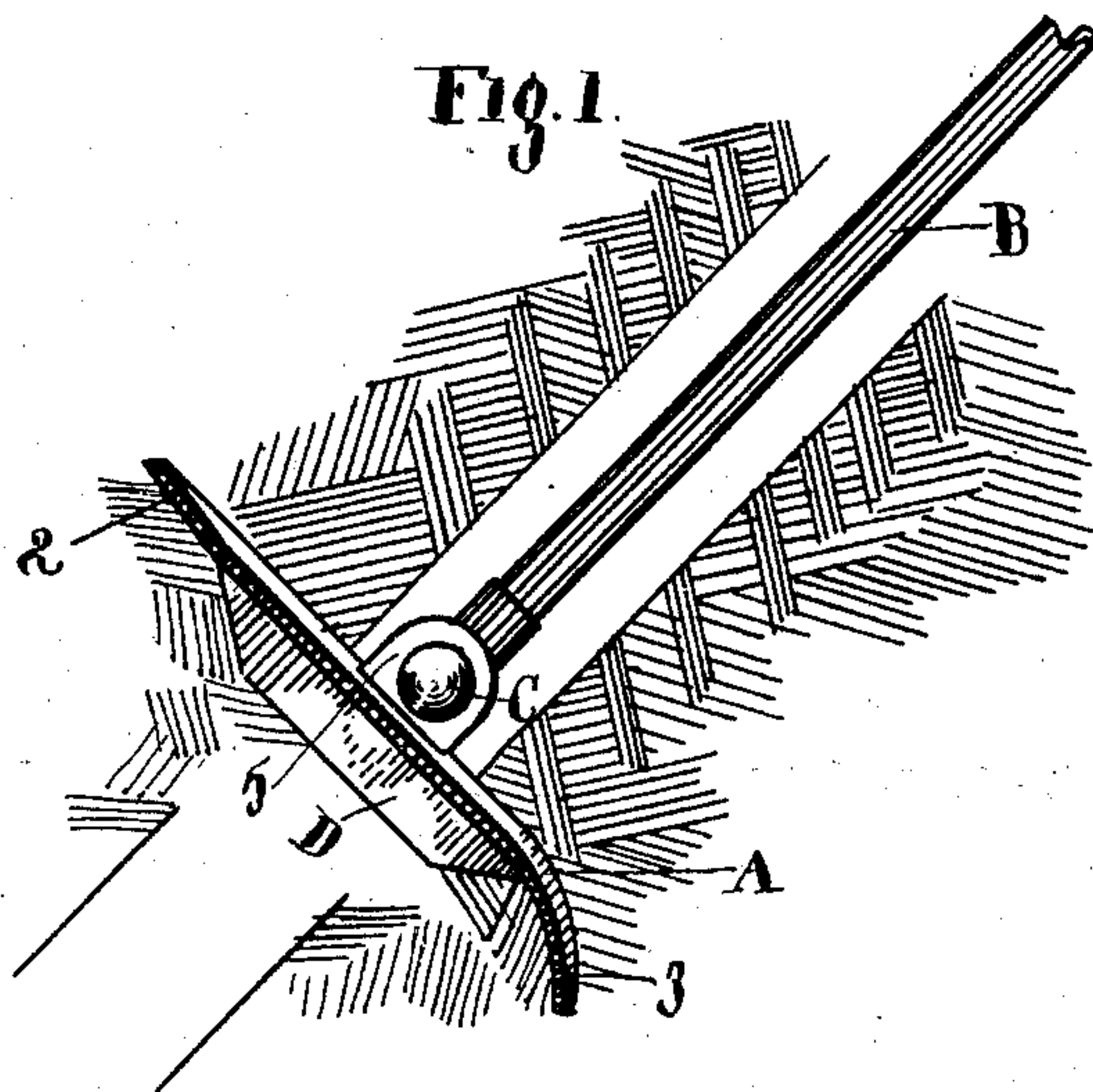


No. 859,650.

PATENTED JULY 9, 1907.

C. E. FROST.
EARTH ANCHOR.
APPLICATION FILED FEB. 14, 1907.



WITNESSES:
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UNITED STATES PATENT OFFICE.

CLINTON E. FROST, OF CLEVELAND, OHIO.

EARTH-ANCHOR.

No. 859,650.

Specification of Letters Patent.

Patented July 9, 1907.

Application filed February 14, 1907. Serial No. 357,423.

To all whom it may concern:

Be it known that I, CLINTON E. FROST, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain

5 new and useful Improvements in Earth-Anchors; and I do declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

10 My invention relates to earth anchors, and especially to the heavier style of anchors, such as are adapted to be used for circus tents, telegraph poles and the like uses, wherein powerful anchorage is required in individual anchors.

15 In the accompanying drawings, Figure 1 is a side view of one form of the anchor, and Fig. 2 is a plan view thereof. Fig. 3 is a front elevation of said anchor, and Fig. 4 is a perspective view of the anchor plate alone. Fig. 5 is a perspective view of one of the connecting

20 ribs detached. Fig. 6 is a perspective view of the cross rocker, used with the foregoing form of anchor, and Fig. 7 is a perspective view of a modification of the anchor.

In these views A represents the anchor plate or body

25 of the anchor except Fig. 7, where the plate is designated by A'. Said plates are preferably made of heavy sheet metal and have beveled or rather sharp pointed front ends 2, and rear rounded ends 3, bent to a downward curve or turn toward the bottom side in use

30 and over which are laid one or more separate and removable supporting and connecting ribs D. Said ribs are parallel when two are used as in Figs. 1, 2 and 3, and run lengthwise about as shown, and stay rod or cable B is engaged with said ribs at the opposite or

35 upper side of the plate by means of a transverse T-shaped roller or rocker member C, into which the stay is threaded or otherwise firmly secured and which locks the ribs on the plate. Said rocker C has its arms engaged in holes 4 in ears 5 on said ribs, which project

40 through slots or holes *a* in about the middle of plate A and in such relation as to expose the holes 4 in said ears on the upper side of the plate, whereby when cross rocker C occupies said holes it will also lock the ribs D closely against the plate and make a tight en-

45 gagement. The said rocker, therefore, serves both as a lock for the ribs on the anchor plate and as means for

attaching cable or stay C, and leaves the anchor free to tilt or turn to assume engaging position in the earth. In Fig. 7 I show rod B hooked through the eye of a single rib D.

50 In grounding the anchor for use it is my custom to bore a hole in the earth to the requisite depth and corresponding substantially to the width of the anchor plate, and then sink the anchor to the desired depth therein with its point downward and with the cable 55 secured thereto. Then as upward pull is exerted upon the anchor it will turn in the hole or bore by reason of its bent or curved end 3 engaging in the wall of the bore and, entering thereinto more and more deeply as upward pull is exerted thereon, will 60 cause the anchor to assume a transverse position in the bore relatively as seen in Fig. 1, where it will at last engage across both ends and become so firmly fixed that it cannot be pulled out by strain on the cable.

What I claim is:—

1. As a new article of manufacture, an earth anchor having a removable rib on one side provided with a lug extending through said anchor to the other side, and said lug constructed to secure a cable thereto.

2. An earth anchor having a substantially flat body 70 pointed at one end and curved lengthwise at the other end, in combination with a removable rib on one side of the anchor body having an eye exposed on the other side of said body, and a cable connection engaged with said eye.

3. An earth anchor having separate removable ribs on one side, in combination with a rocker engaging said ribs 75 with the anchor on the other side, and a cable fixed to said rocker.

4. An earth anchor consisting of a flat plate having an opening through its middle portion, parallel ribs on one side thereof having ears projecting through said opening 80 to the other side, a rocker transversely through said ears and bearing against said plate, and a cable secured to said rocker.

5. An anchor plate having one end pointed and the opposite end rounded and bent downwardly and provided with a hole through its middle, in combination with separate ribs spaced apart on said plate and having perforated ears projecting through to the top of the plate, and a T shaped rocker through said ears constructed to secure 85 said ribs and to fix a cable thereto.

In testimony whereof I sign this specification in the presence of two witnesses.

CLINTON E. FROST.

Witnesses:

R. B. MOSER,
F. C. MUSSEM.