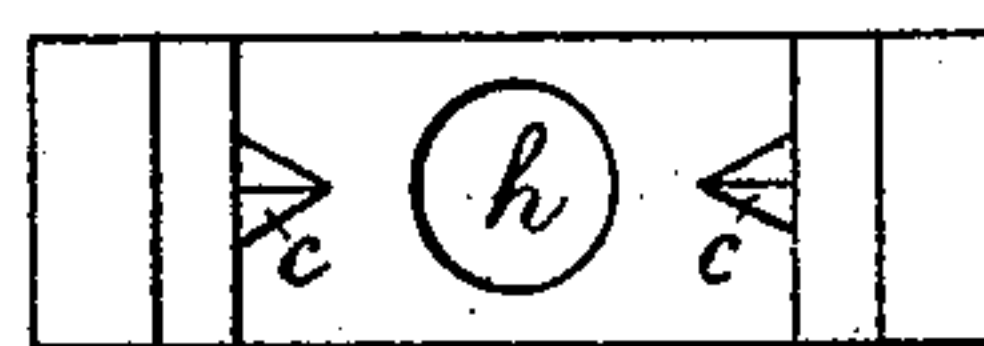
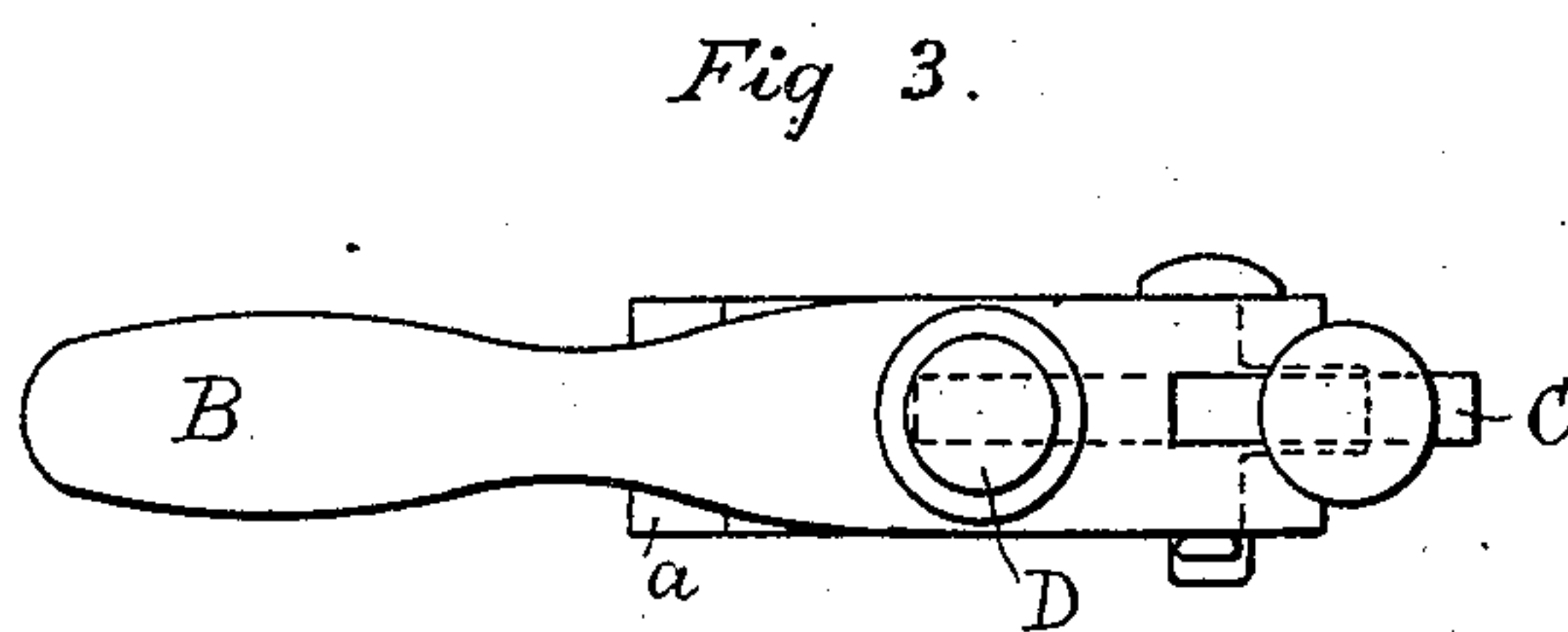
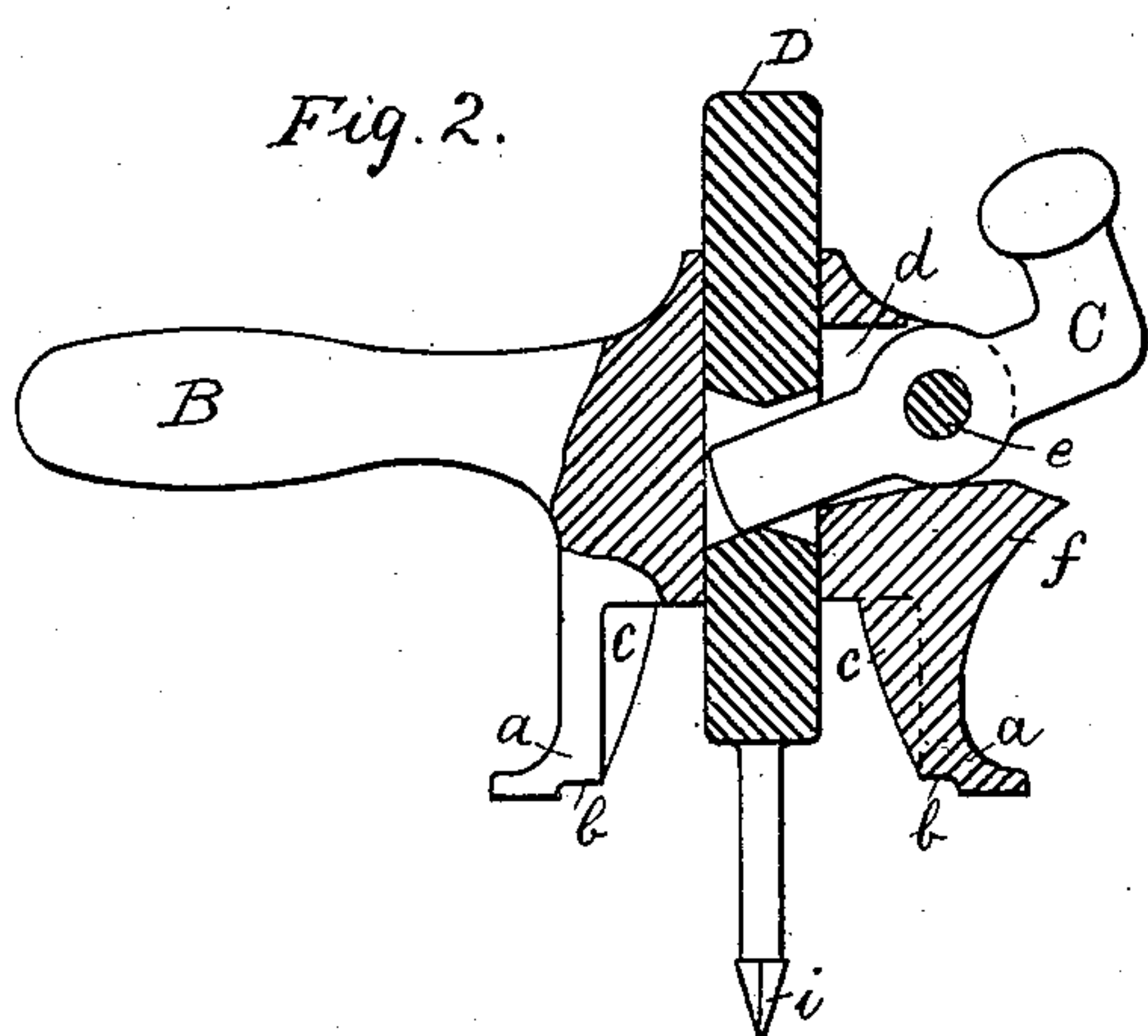
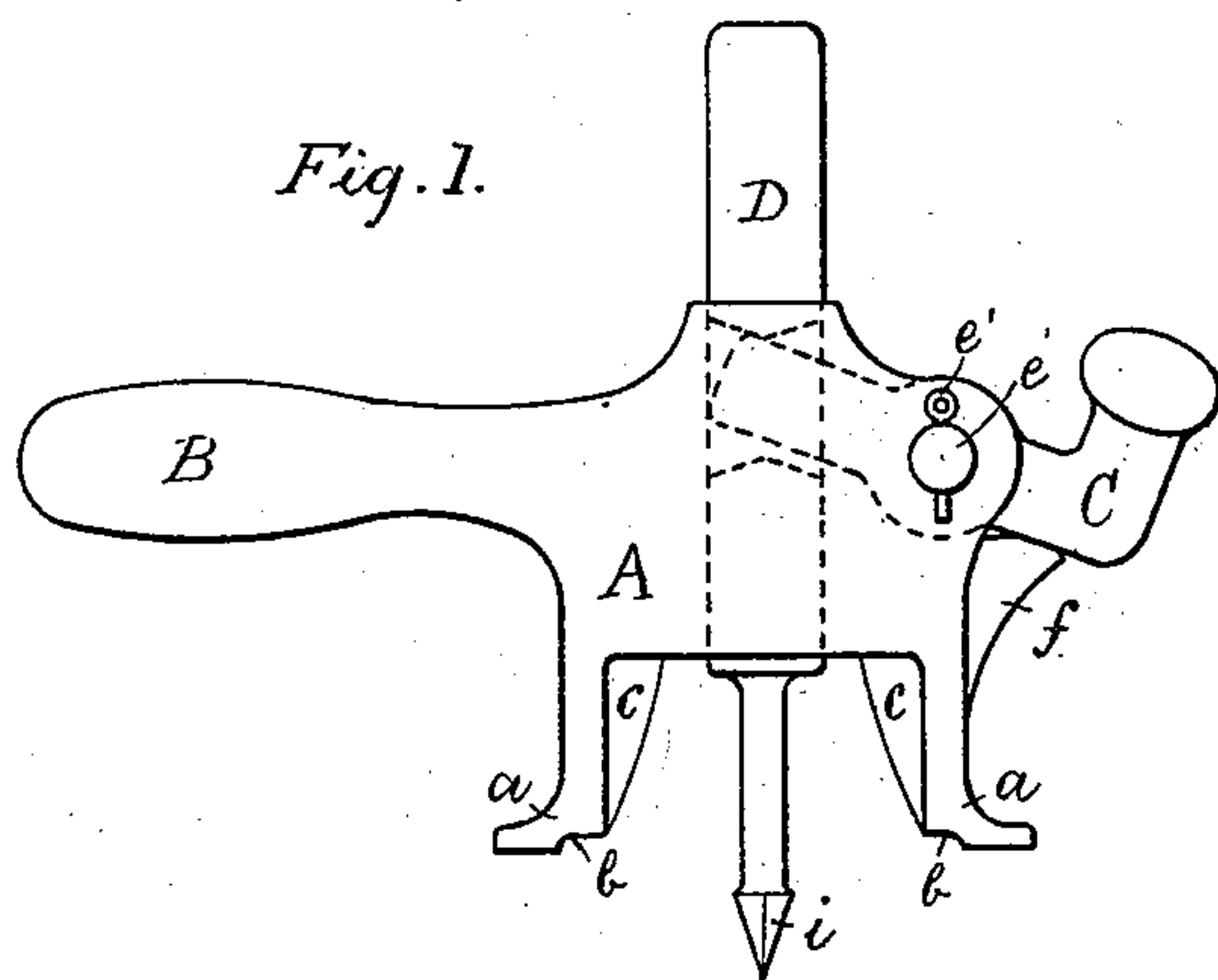


(No Model.)

C. MACHER & J. L. LINS.
BUNG EXTRACTOR.

No. 287,305.

Patented Oct. 23, 1883.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHRISTIAN MACHER AND JULIUS L. LINS, OF WILMINGTON, ILLINOIS.

BUNG-EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 287,505, dated October 23, 1883.

Application filed August 28, 1883. (No model.)

To all whom it may concern:

Be it known that we, CHRISTIAN MACHER and JULIUS L. LINS, citizens of the United States of America, residing at Wilmington, in the county of Will and State of Illinois, have invented certain new and useful Improvements in Bung-Extractors, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention relates to an improved bung-extractor. The object we have in view is to obtain a device of the character described which will be certain in its operation and by the use of which all danger of having a fragment of the bung fall into the keg or barrel is avoided; and to that end the invention consists in certain novel devices and combination of devices, all as will be described and claimed.

Reference will be made to the accompanying drawings, in which Figure 1 is a side elevation of the extractor complete; Fig. 2, a sectional view of the same; Fig. 3, a top plan view, and Figs. 4 and 5 details.

Like letters refer to like parts in each view.

In the drawings, A represents the frame or casting in which the operative parts of the device are situated. This frame has formed on its lower end the legs or supports *a*, which rest upon the keg when the device is in position for use. At their lower extremity these legs are curved, as at *b*, in order to allow them to fit upon the bushing placed in the bung-hole. Upon the inner face of each of these legs is cast a sharp knife-edge, *c*, the object of which will be mentioned. A handle, B, for holding the device and turning it, as will be described, is formed upon one side of the frame A. A slot or opening, *d*, is formed in frame A at a point directly opposite the handle B, and pivoted in this slot is a lever, C. This lever is pivoted at or about its center upon a pin, *e*, said pin being passed through suitable holes made upon each side of the slot and through a hole made in the lever, and held in place by a pin, *e'*, as shown in Fig. 1. The outer end of this lever is bent upwardly, as shown, and when in certain positions hereinafter referred to rests upon a projection, *f*, cast upon frame A at a point below the slot *d*. The inner end of the

lever enters a slot, *g*, formed about midway upon a rod, D, and serves to raise and lower said rod. Rod D is passed through a vertical opening, *h*, made in frame A, and protrudes above and below the same, being of such a size that it is capable of vertical movement therein. The lower portion of rod D is smaller in circumference than the upper, and at its lower extremity it has formed an arrow-shaped head, *i*, as shown.

The operation of the device is as follows: The parts being joined together, as described, and being in such a position that the lever C, at its outer end, will rest upon the projection *f* and the rod D be elevated to its highest position, the device is placed upon a keg so that the arrow-shaped head of rod D will rest directly upon the bung to be extracted. The operator then strikes upon the top of rod D with any suitable instrument, the blow driving the lower end of the rod through the bung and elevating the outer end of lever C; and when the device is in this position the legs *a* will rest upon the keg, the curved portion *b* of said legs fitting over the bushing in the bung-hole. The extractor is then turned by the handle B until the arrow-shaped head of rod D is brought at a right angle to the slot it has made in the bung. A blow is then struck upon the upwardly-projecting end of lever C and said lever forced back to the projection *f*, and, partly through the leverage and partly through the sudden contact of the lever with said projection, the rod D is raised, and with it the bung. The bung has, by the passage therethrough of the rod D, been split; but a clean cut is made as it is raised and brought into contact with knives *c*, before referred to. Our device is simple, durable, and effective, and by its use all danger of fragments of the bung entering the keg is avoided.

Having thus described our invention, what we claim as new therein, and that for which we desire to secure Letters Patent, is—

1. The frame A, provided with handle B, in combination with rod D and lever C, as described and shown.

2. The frame A, provided with handle B and projection *f*, in combination with lever C

and rod D, said rod provided with arrow-shaped head *i*, as described and shown.

3. The frame A, provided with handle B and knives *c*, in combination with rod D and
5 lever C, as described and shown.

4. The frame A, provided with handle B, projection *f*, and knives *c*, in combination with rod D and lever C, as described and shown.

In testimony whereof we affix our signatures in presence of two witnesses.

CHRISTIAN MACHER.
JULIUS L. LINS.

Witnesses:

JAMES W. JOHNSON,
GEORGE MARKERT.