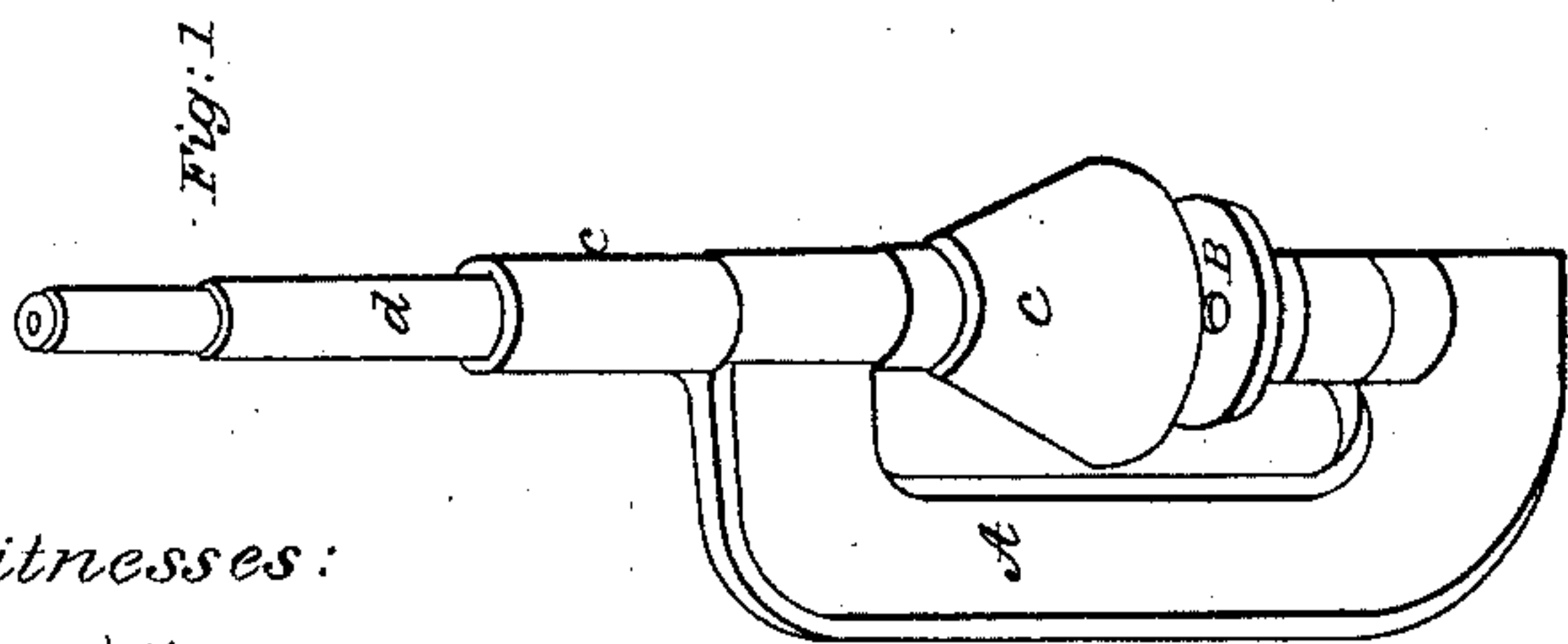
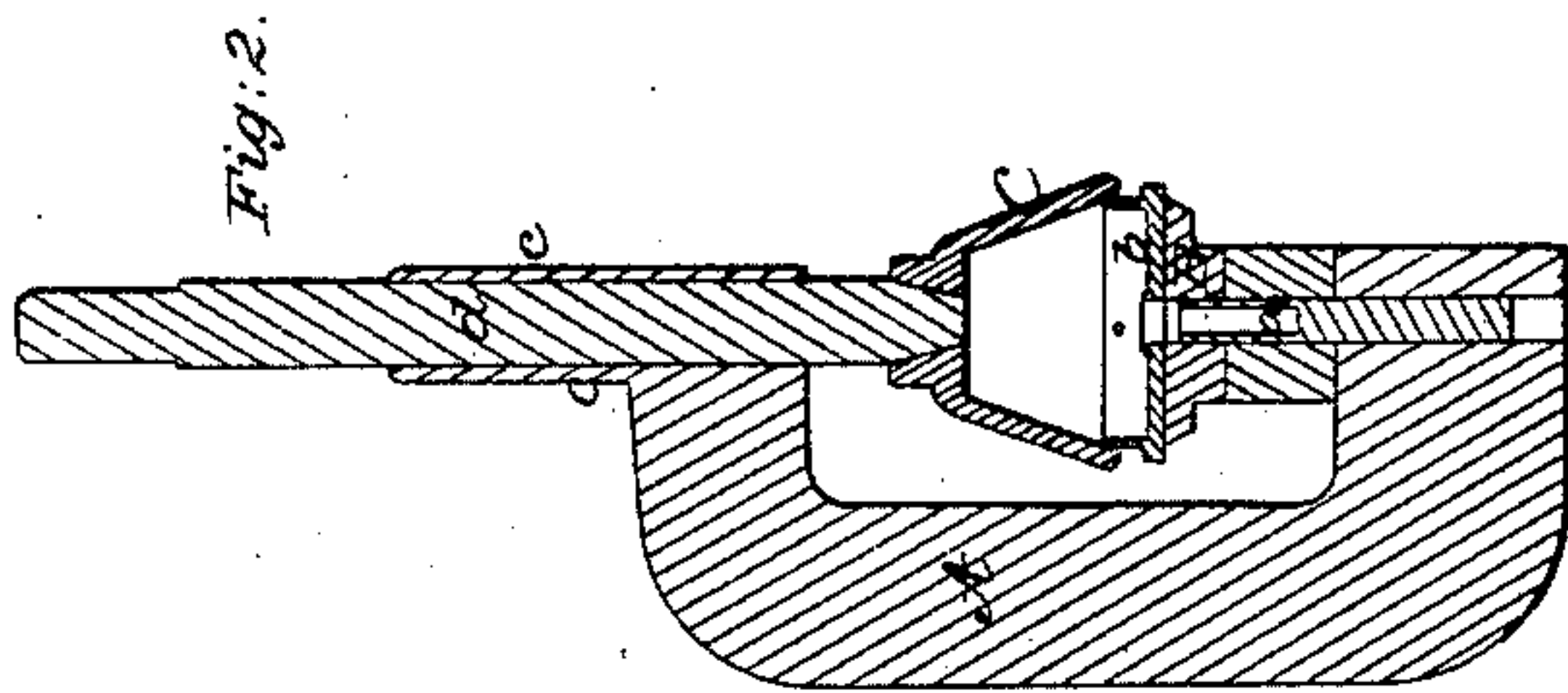
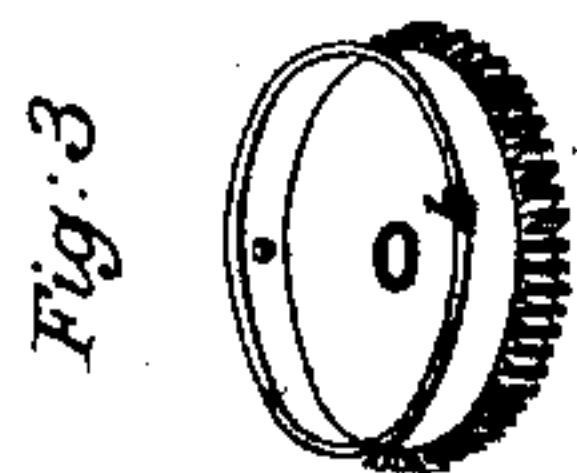
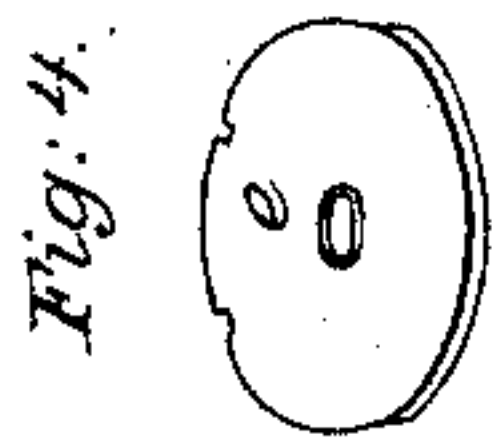


C. S. Moseley,
Watchmakers' Tool.
N^o 45,512. Patented Dec. 20, 1864.



Witnesses:
N. W. Stearns.
P. E. Teschemacher.

Inventor:
C. S. Moseley

UNITED STATES PATENT OFFICE.

CHARLES S. MOSELEY, OF WALTHAM, MASSACHUSETTS.

IMPROVED TOOL FOR CLOSING OR CONTRACTING THE BARRELS OF WATCHES.

Specification forming part of Letters Patent No. 45,512, dated December 20, 1864.

To all whom it may concern:

Be it known that I, CHARLES S. MOSELEY, of Waltham, in the county of Middlesex and State of Massachusetts, have invented a new and useful Tool for Closing or Contracting the Barrels of Watches, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of the tool. Fig. 2 is a central vertical section through the same, showing the watch-barrel in place. Fig. 3 is a view of the barrel of a watch with the cap removed. Fig. 4 is a view of the cap.

In repairing watches where the mainspring is broken a difficulty frequently arises in consequence of the upper portion of the rim of the barrel having been spread or enlarged by the breaking of the spring, which causes the cap to fit loosely, and renders it liable to fall out of place. This has heretofore been remedied by hammering the cap so as to flatten and enlarge it sufficiently to fit the barrel when sprung into its place. This method was objectionable, however, as the hammering was liable to injure the finish, and the circularity of the cap was liable to be destroyed.

My invention consists in a tool for the purpose of contracting and restoring the barrel of a watch to its original form, the construction and operation of which I will now proceed to describe in such terms that others skilled in the art may understand and use my invention.

In the said drawings, A is the stock or frame, the lower part of which is of a suitable form to be grasped in a vise. *a* is a pin projecting up from the frame and passing into a hole in the support or anvil B, on which the watch-barrel *b* is placed with the open side uppermost.

In the upper portion of the frame A is

formed a hollow sleeve, *c*, in which works a spindle, *d*, to the lower extremity of which is attached a die, C, the inner face of which is turned out of a conical form, as seen in Fig. 2. This die C is brought down upon the upper edge of the rim of the barrel, and a few light blows are then struck with a hammer upon the top of the spindle *d*, forcing down the die C, the conical form of the interior of which causes it to bind upon and equally contract the upper edge of the rim of the barrel, and renders it perfectly true, so that the cap *e*, Fig. 4, will fit tightly when sprung into place. The anvil B is made removable, so that it may be replaced by another to accommodate a barrel of a different size, care being had to employ an anvil of such a diameter that the die C will not come in contact with it before striking the rim of the barrel *b*.

It is desirable that the conical die C should be brought down vertically upon the barrel to compress equally all parts of the upper edge of the rim, and thus keep it true; but it is evident that other means may be employed to bring down the die besides that shown—for instance, it may be attached to the end of a lever and be furnished with a joint, so that it will adapt itself to the edge of the barrel. The method first described, however, is that which I prefer, as it is simple and compact.

What I claim as my invention, and desire to secure by Letters Patent, is—

The above-described tool, consisting, essentially, of the anvil B and the conical die C, suitably guided in a frame or stock, and operating substantially as described, for the purpose specified.

C. S. MOSELEY.

Witnesses:

N. W. STEARNS,
P. S. BARTLETT.