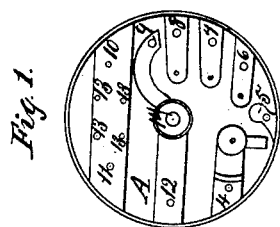
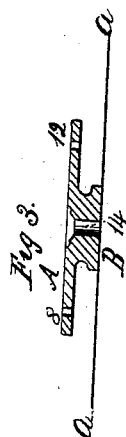
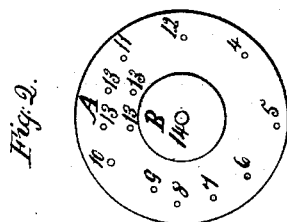


E. M. Kimball.
Watchmakers' Tool.
N^o 44,957. Patented Nov. 8, 1864.



Witnesses.

Jm F Mc Namara.
J. P. Hall.

Inventor.
E. M. Kimball.
per Jmum & Co.
Attys.

UNITED STATES PATENT OFFICE.

E. M. KIMBALL, OF TOLEDO, OHIO.

IMPROVED TOOL FOR WATCH-REPAIRERS.

Specification forming part of Letters Patent No. 44,957, dated November 8, 1864.

To all whom it may concern:

Be it known that I, E. M. KIMBALL, of Toledo, in the county of Lucas and State of Ohio, have invented a new and Improved Tool for Watch-Repairers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan or top view of the tool. Fig. 2 is an inverted plan or top view of the same. Fig. 3 is a central vertical section of the same.

Similar letters and numbers of reference indicate corresponding parts in the several figures.

Much difficulty has been heretofore experienced by repairers of watches in keeping the several screws so arranged, after taking the watch apart, that they can be at once re-inserted in their proper holes, and many of the screws are so much alike that in case of their getting mixed, much loss of time is occasioned by having to find the proper screws for the several holes.

The object of my invention is to obviate this difficulty; and to this end it consists in what I term a "screw-holder," composed of a plate having provided in it a sufficient number of holes, of such sizes and so arranged, that by placing the screws therein one at a time, as they are taken from the watch, each one can be selected as required when it is to be replaced.

It also consists in so constructing and providing a central hole or socket in the said plate as to enable it to be used as a support in striking out the center or hand-post, when necessary, and as a support for the balance in putting on the hair-spring collet, when, for any cause, it has been removed, the central portion being thereby also made to serve as a safe place to keep the balance while the watch is being cleaned or repaired.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A is the plate, of circular form, having a central pedestal or foot, B, which supports it at some distance from the table or bench, as shown in Fig. 3, in which the line *a* represents the surface of the table or bench. 4 5 6 7 8 9 10 11 12 13, represent holes arranged

like the screw-holes of a watch with "anchor" escapement. Around these holes there are inscribed, on the upper surface of the plate, shown in Fig. 1, representations of the several cocks of the above-mentioned kind of watch, to indicate which holes are to receive the several screws thereof. The holes are of such size as to admit the screws, but not to let their heads pass through, that the screws may be suspended therein by their heads. The screws, as they are severally removed, are placed one by one into the holes of the plate corresponding with their respective holes of the watch, and can be at once selected, as required for replacement.

The central foot or pedestal, B, has drilled or bored centrally through it, a central hole, 14, for the reception of a portion of the balance-staff, and thereby make the central portion of the plate constitute a safe place to deposit the balance while cleaning or repairing the other parts of the watch, or as a resting-place for the balance while putting on the hair-spring collet. By inverting the plate to bring the foot upward the foot is made to serve as a socket-support in striking out the center or hand post.

The plate represented may also be made to serve as a receptacle for the screws of any other kind of watch having a smaller number of screws than the anchor by arranging the screws in any manner that is so understood by the workman that he may select them one by one, as required, for replacement; or the plate may be made with holes corresponding in number or arrangement with the screws of any other kind of watch.

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

1. The screw-holder, consisting of a plate having a system of holes, arranged substantially as herein described, for the reception of the screws of a watch, for the purpose herein set forth.

2. Constructing the said screw-holder with a central foot or pedestal, with a central hole or socket, 14, substantially as and for the purpose specified.

E. M. KIMBALL.

Witnesses:

F. T. EGGER,
T. A. CLIFT.