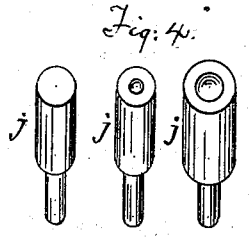
(No Model.)

O. W. SMITH.

TOOL FOR WATCH MAKERS AND REPAIRERS.

No. 274,837. Patented Mar. 27, 1883.



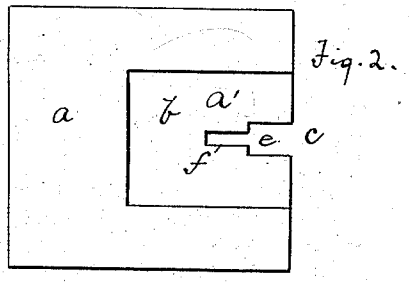


Fig. 2.

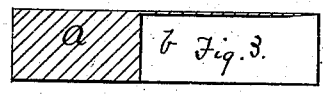


Fig. 3.

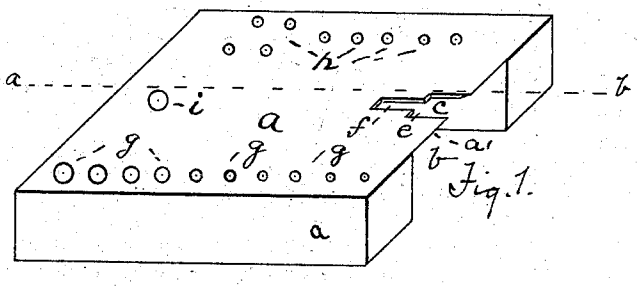


Fig. 1.

Witness
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UNITED STATES PATENT OFFICE.

ORREN W. SMITH, OF BANGOR, MAINE.

TOOL FOR WATCH MAKERS AND REPAIRERS.

SPECIFICATION forming part of Letters Patent No. 274,837, dated March 27, 1883.

Application filed February 5, 1883. (No model.)

To all whom it may concern:

Be it known that I, ORREN W. SMITH, of Bangor, in the county of Penobscot and State of Maine, have invented certain new and useful Improvements in Tools for Watch Makers and Repairers; and I do hereby declare that the following is a full, clear, and exact description of the invention, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 shows a perspective of my invention; Fig. 2, a bottom view; Fig. 3, a section through line *a b;* Fig. 4, specimens of removable anvils *j*.

My invention consists of an improved combination-tool for watch makers and repairers, and is designed to unite in a convenient form several important adjuncts of the bench. It will be best understood by reference to the accompanying drawings, in which—

a shows a metal block, preferably steel, of any desired size, serving as a small anvil for general purposes. The under side of this block is excavated at *b*, and the thin surface *a'* of the top thus left is preferably brought to a knife-edge at its edge, and is slotted at *c*, said slot varying in width, as shown at *e f*, to adapt it to work differing in size or character. This furnishes a convenient device for removing or setting the "roller" attached to the balance-arbor and for putting on the hair-spring collet, the surface of the block at the edges of the slot serving as a bearing for the roller or balance, as the case may require, leaving the remaining parts within the cavity *b*, which protects them from injury. At *g* are gage-holes for gaging the sizes of pinions, &c., or for what is technically known as "staking," while at *h* are a series of holes or openings serving as receptacles for the screws as they are removed from the works. At *i* is a hole adapted to receive and hold small anvils of different shapes—such, for instance, as shown at *j j j*—used for setting up or bumping up screw-holes, holes for running-gear, and similar work, which will readily suggest itself to a practical workman.

What I claim as my invention is—

1. The block or anvil *a*, having the cavity *b* and slot *c* therein, substantially as and for the purposes described.

2. As a new article of manufacture, a tool for watch makers and repairers, embodying in its construction a block or anvil, *a*, having the cavity *b* and slot *c* therein, the gage-holes *g*, and receiving-holes *h* and hole *i*, with anvils *j j j*, fitting therein, all said devices being arranged substantially in the manner and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 31st day of January, 1883.

ORREN W. SMITH.

Witnesses:

CHAS. M. JORDAN,

WM. FRANKLIN SEAVEY.