

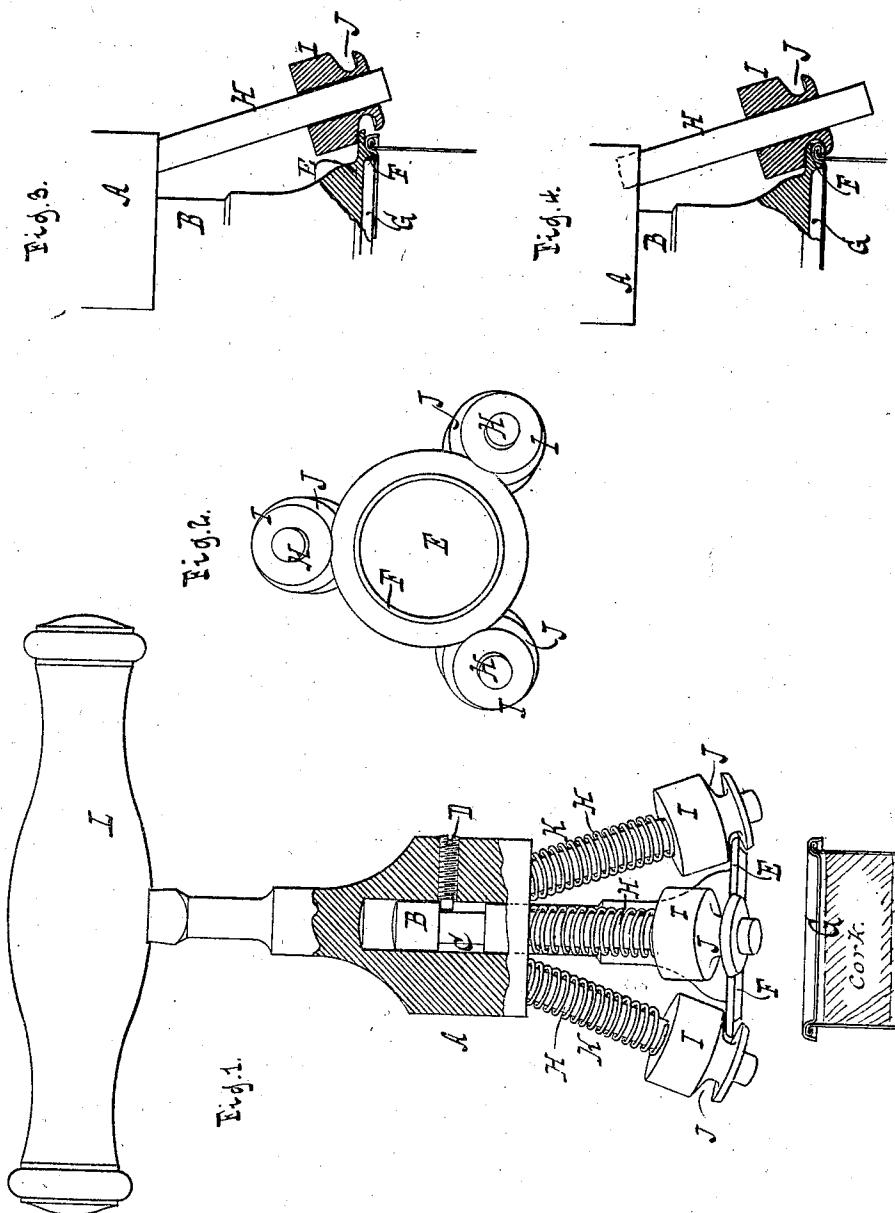
(No Model.)

R. WHITAKER.

METAL CRIMPING TOOL.

No. 287,784.

Patented Oct. 30, 1883.



WITNESSES:

Otto Hauff and
William Miller

INVENTOR

Richard Whitaker
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his ATTORNEYS

UNITED STATES PATENT OFFICE.

RICHARD WHITAKER, OF NEW BRUNSWICK, NEW JERSEY, ASSIGNOR TO
ALVIN L. FISHER, OF SAME PLACE.

METAL-CRIMPING TOOL.

SPECIFICATION forming part of Letters Patent No. 287,784, dated October 30, 1883.

Application filed September 26, 1883. (No model.)

To all whom it may concern:

Be it known that I, RICHARD WHITAKER, a citizen of the United States, residing at New Brunswick, in the county of Middlesex and State of New Jersey, have invented new and useful Improvements in Metal-Crimping Tools, of which the following is a specification.

The object of my invention is to provide a simple and cheap tool for crimping or swaging the rim of a sheet-metal cap upon the flanged mouth of a can-spout—as, for example, the spout of a varnish-can—such spout being fitted with a cork, which it is desired to protect by the cap. This object I have accomplished by the novel means hereinafter described, and illustrated in the accompanying drawings, in which—

Figure 1 represents a side view, partly in section, of a tool embodying my invention. Fig. 2 is an inverted plan view thereof. Figs. 3 and 4 are detail views illustrating the operation of the tool.

Similar letters indicate corresponding parts.

The letter A designates the stock of the tool, fitted on a central spindle, B, to revolve and move longitudinally thereon, the spindle being provided with a circumferential groove, C, of the proper width, into which enters the end of a screw, D, of the stock.

On the outer or lower end of the spindle B is a disk, E, which constitutes the bearing of the tool, and the lower surface of which is provided with a concentric rib or shoulder, F, within the edge of the disk, to enter a corresponding countersink, G, (see Fig. 2,) in the cap, for convenience of centering the tool.

From the lower end of the stock A project outwardly a series of oblique shafts, H, in this example three in number, which are at like angles to the spindle B, and on the lower ends or portions of which are fitted rollers I, to revolve thereon, the shafts being fixed. These rollers I constitute the crimping devices of the tool, and are respectively provided with a circumferential groove, J, the upper edge of which is beveled, to impinge against the top of the spindle-disk E, while the lower edge thereof is undercut, as shown in Figs. 3 and 4, to act on the rim of the cap, as hereinafter explained.

On the oblique shafts H are arranged springs

K, which act on the rollers I with a tendency to keep their upper edges in contact with the disk E.

In applying my tool to use the sheet-metal cap is placed on the flanged mouth of the proper spout, and the disk E is held down upon the cap. The stock A is then depressed and at the same time revolved on the spindle B, as by a handle, L, or by a bit-brace or other suitable means, when the rollers I are forced in an inward or upward direction, due to the obliquity of the shafts H, while they are also caused to revolve simultaneously on their own axes and that of the spindle B, due to their forcible contact with the disk E, and to the fact that they share the motion of the stock, and by this means the lower edges of the roller-grooves are forced against the rim of the cap in the proper manner to crimp or swage such rim under the flange of the spout.

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

1. A sheet-metal-cramping tool consisting of the stationary central spindle having its lower end provided with the bearing-disk E, the revolving and longitudinally movable stock, the oblique shafts projecting outwardly from the stock, the crimping-rollers of the shafts having circumferential grooves J, and the springs arranged on the shafts to act on the crimping-rollers, the whole adapted to operate substantially as described, for the purpose set forth.

2. The bearing-disk having the concentric rib or shoulder F on its lower surface, in combination with the spindle B, stock A, oblique shafts H, grooved rollers I, and springs K, substantially as and for the purpose described.

3. The crimping-rollers, each having a circumferential groove, one edge of which is beveled and the other undercut, in combination with the oblique shafts H, springs K, stock A, and spindle B, substantially as and for the purpose described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

RICHARD WHITAKER. [L. S.]

Witnesses:

G. W. LUNT,
JAMES H. VAN CLEEF.