

O. W. SWIFT,
Capping Screws.

No. 69,863.

Patented Oct. 15, 1867.

Fig. 1

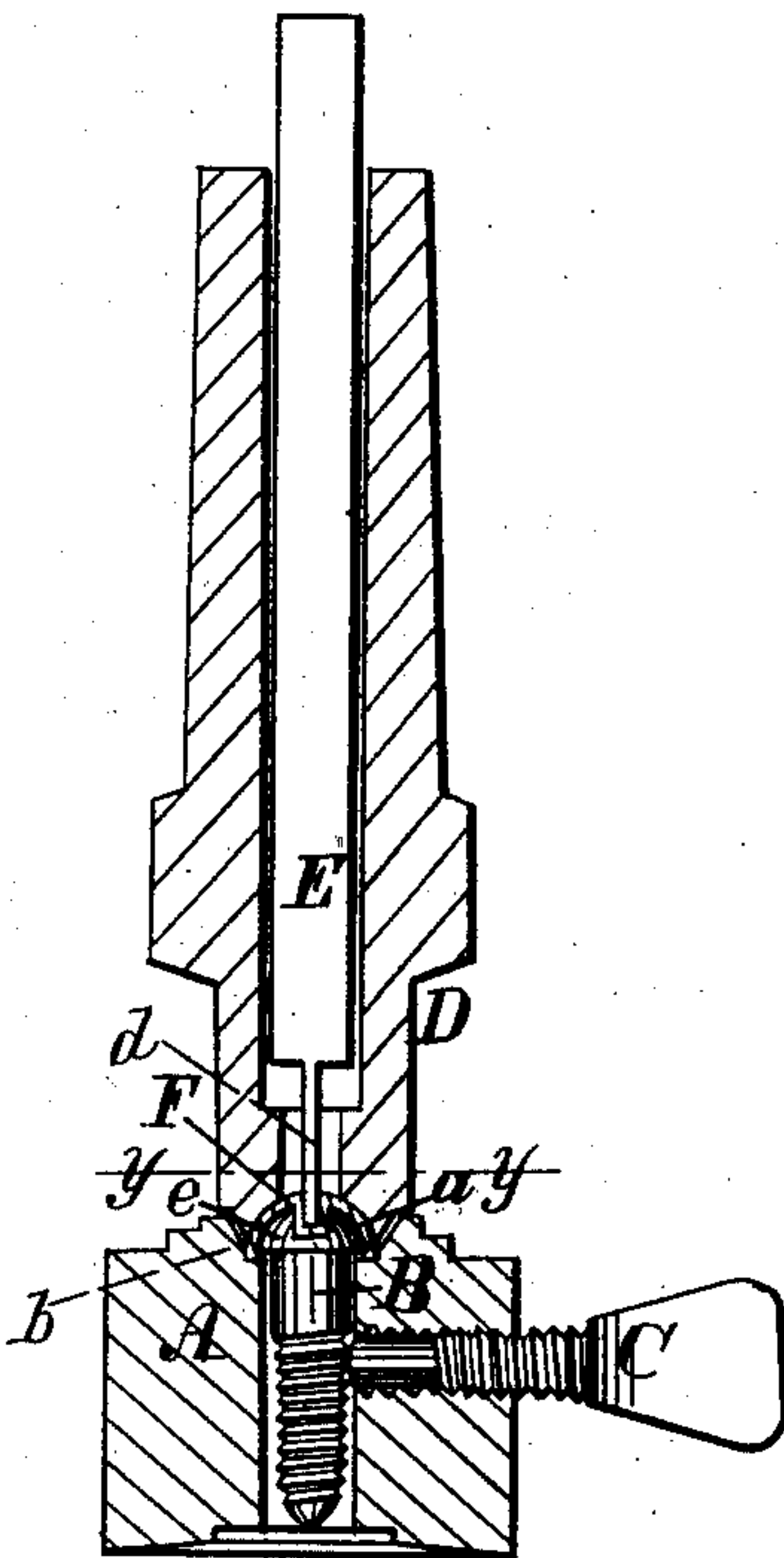


Fig. 2

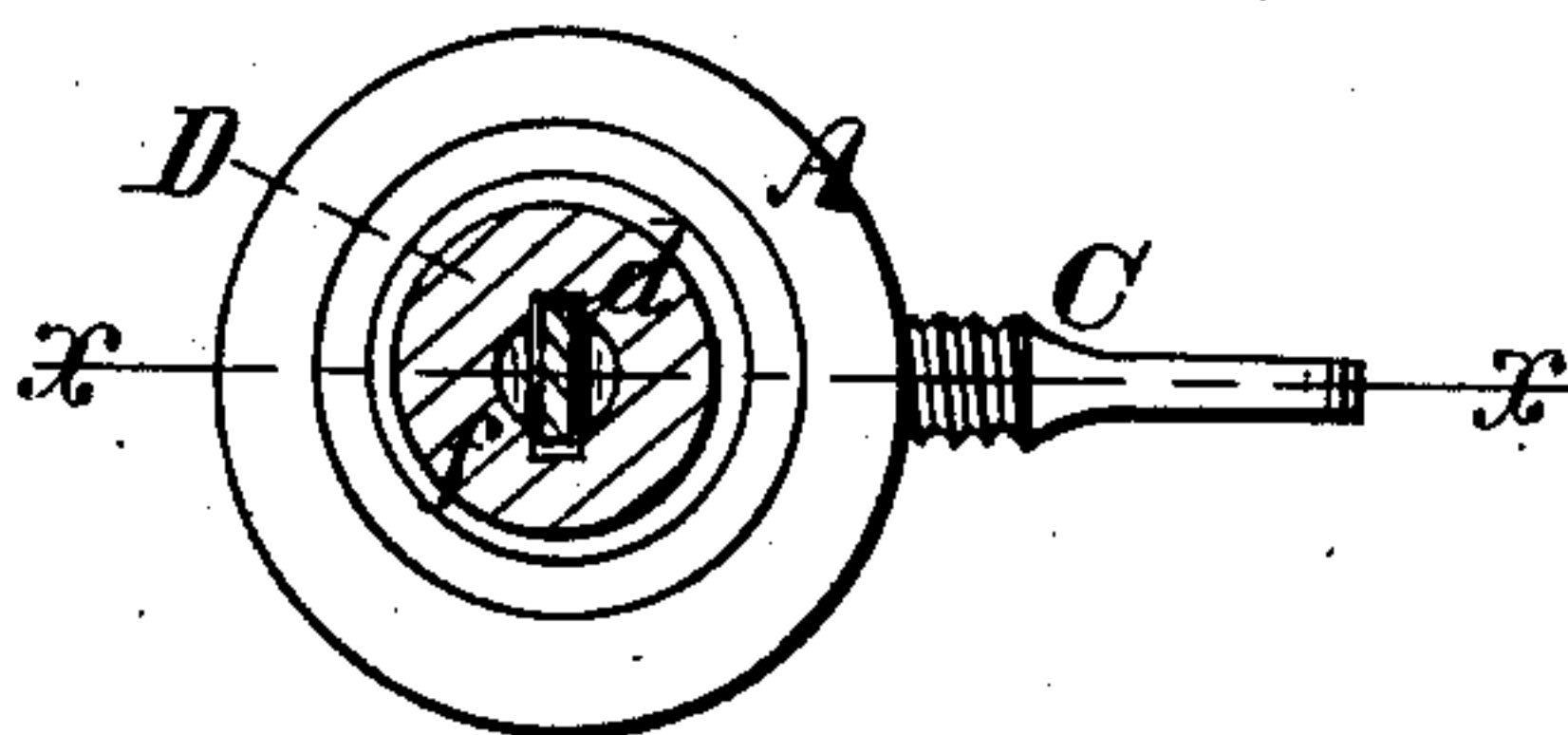


Fig. 3



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ORRIN W SWIFT, OF NEW HAVEN, CONNECTICUT.

Letters Patent No. 69,863, dated October 15, 1867.

IMPROVED DEVICE FOR CAPPING SCREWS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ORRIN W. SWIFT, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new and improved Device for Capping Screws; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to a new and improved device for capping screws, that is to say, covering the heads of the screws with a white-metal cap, and closing the edge of the same all around underneath the edge of the head, and at the same time pressing the portion of the cap over the nick in the screw-head directly into the nick without cutting away the cap over the nick, as is now done. In the accompanying sheet of drawings—

Figure 1 is a vertical central section of my invention, taken in the line *x x*, fig. 2.

Figure 2, a horizontal section of the same, taken in the line *y y*, fig. 1.

Figure 3, a detached view of a cap, such as are fitted on the screw-heads.

Similar letters of reference indicate like parts.

A represents what may be termed a bolster, which serves the office of holding the screw to be capped, and also serves the office of a die to assist in closing the edge of the cap all around underneath the screw-head. This bolster is constructed of a piece of steel having a circular hole made centrally through it, in which the screw B to be capped is fitted and secured therein, so that it cannot turn, by means of a set-screw, C, or other suitable device. (See fig. 1.) The head *a* of the screw rests in a recess, *b*, in the top of the bolster, said recess being of inverted conical form. D is a die, formed of a steel rod, and having a semispherical recess, *c*, in its lower end corresponding in size to the head *a* of the screw, the end of the die all around the recess *c* being bevelled or tapered to correspond to the interior of the recess *b* in the top of the bolster. (See fig. 1.) The die D is tubular, and within it there is fitted a rod, E, which is allowed to slide freely up and down. The lower end of this rod is cut out or filed away at two opposite sides to form a thin blade, *d*, which will enter the nick *e* of the screw-head, and this blade *d* passes through an oblong slot, *f*, in the bottom of the die D, said hole, when the blade is in it, preventing the latter and the rod E from turning.

The operation is as follows: A screw, B, is secured in the bolster A, with its nick *e* in line with the blade *d*, it being essential that the nick and blade correspond in position in order that the latter may pass into the former when the rod E is pressed or forced down. After the screw is properly adjusted in the bolster a cap, F, is placed on the screw-head. The caps are semispherical shells, stamped or swaged out by a machine, and of such a size as to fit snugly on the screw-heads. The die D is then forced or pressed down, and closes the cap snugly on the head, the lower edge of the former being bent all around under the edge of the head, as shown in fig. 1. The rod E is then forced down while the die D is still on the screw-head, and the blade *d* presses the portion of the cap directly over the nick *e* into the same, so that the nick, as well as the head, is covered by the cap.

By this means the screw-heads have a far neater appearance than when the cap is cut away over the nick, as is now done, for in the latter case the dark iron color of the nick, which is fully exposed, does not contrast favorably with the white-metal cap.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The tubular die D, with the rod E fitted within it, and provided with the blade *d*, in combination with the bolster A for receiving the screw B, and the set-screw C, or its equivalent, for holding screw B in position while being capped, all constructed and arranged to operate substantially in the manner as and for the purpose specified.

ORRIN W. SWIFT.

Witnesses:

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