

G. W. BRIGGS.

Dies for Capping Screws.

No. 134,845.

Patented Jan. 14, 1873.

Fig. 1

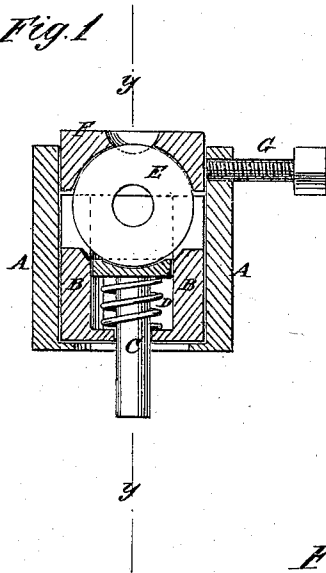


Fig. 2

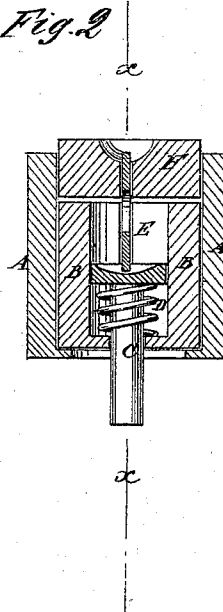


Fig. 3

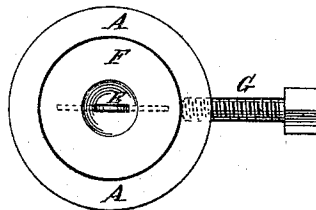


Fig. 4



Fig. 5



Witnesses:

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# UNITED STATES PATENT OFFICE.

GEORGE W. BRIGGS, OF NEW HAVEN, CONNECTICUT.

## IMPROVEMENT IN DIES FOR CAPPING SCREWS.

Specification forming part of Letters Patent No 134,845, dated January 14, 1873.

*To all whom it may concern:*

Be it known that I, GEORGE W. BRIGGS, of New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Dies for Capping Screws, of which the following is a specification:

Figure 1 is a detail sectional view of my improved die taken through the line *x x*, Fig. 2. Fig. 2 is a detail sectional view of the same taken through the line *y y*, Fig. 1. Fig. 3 is a top view of the same. Fig. 4 is a side view of a capped screw, the cap being shown in section. Fig. 5 is a perspective view of one of the caps.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved die for capping screws, which shall be simple in construction and convenient in use, and at the same time less expensive in manufacture and less liable to get out of order than the dies constructed in the ordinary manner; and it consists in the circle piece or guide, in combination with the rest, spring, and slotted and recessed die, as hereinafter more fully described.

A represents the bed-piece, which is constructed and secured to the bed-plate of the machine in the ordinary manner. The bed-piece A is made with an inwardly-projecting flange at its lower end to support the rest or stand B. The rest B has a hole through it for the passage of the stem or holder C, the upper part of said hole being enlarged or deeply countersunk to receive the coiled spring D, the lower end of which rests upon the shoulder thus formed, and upon its upper end rests the head of the stem C. The upper end or top of the stem or holder C is concaved to receive and give a wide bearing to the edge of the guide or circle piece E, which is made in the form of a circular or ring disk, of such a thickness that it may enter the slot of the screw-head. The guide E enters a slot in the rest B, and rests upon the stem or holder C. F is the die, in the center of the top of which

is formed a concavity of such a size as to receive the head of the screw. In the lower side of the die F is formed a slot to receive the upper part of the circle piece E, said slot extending into the cavity in the top of said die, so that the upper edge of said center piece may extend into said cavity to enter the slot in the screw-head. The die F is secured in the bed-piece A by a set-screw, G, as shown in Figs. 1 and 3.

In using the die the cap H is placed in the cavity of die F in such a position that the circle piece E may enter the slot in said cap. The screw is then placed in the cap H, with the slot in its head upon the guide E, thus making the slots in the cap and screw-heads exactly coincide. The movable die then descends and closes the edge of the cap down upon the screw-head, as shown in Fig. 4.

By this construction, should the edge of the circle piece be battered or worn, it may be turned, and should the slot in the screw-head not be exactly true the said circle piece can adjust itself to said slot. By this construction, also, the spring D will allow the guide or circle piece E to yield and be forced down into the rest B should the slot in the screw-head be shallow, or otherwise defective or wanting, so that no part of the die need be broken.

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

1. The circle piece or guide E, in combination with the rest B, stem C, spring D, and slotted and recessed die F, substantially as herein shown and described, and for the purpose set forth.

2. The concavity formed in the head of the stem or holder C to give a wide bearing to the edge of the circle piece or guide E, substantially as herein shown and described.

GEORGE W. BRIGGS.

Witnesses:

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