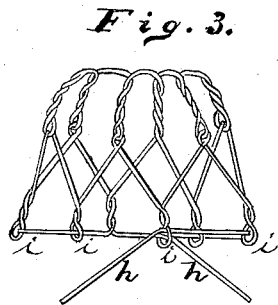
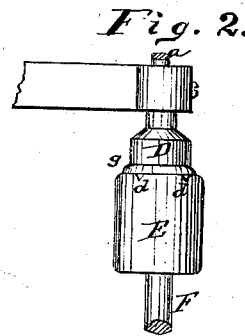
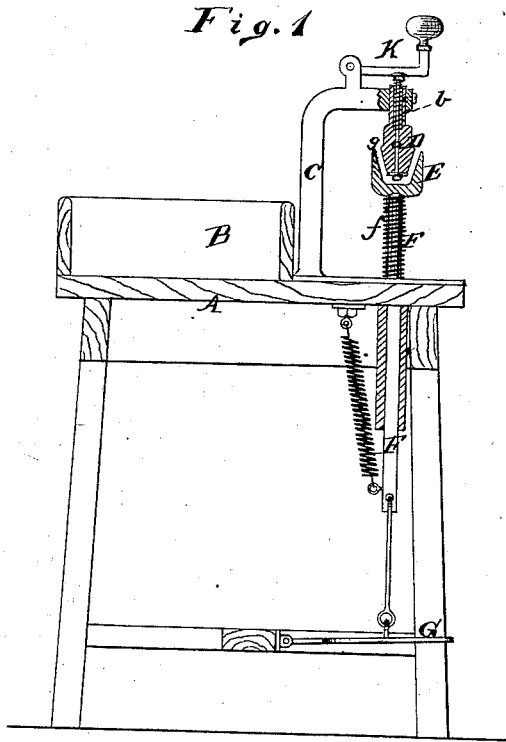


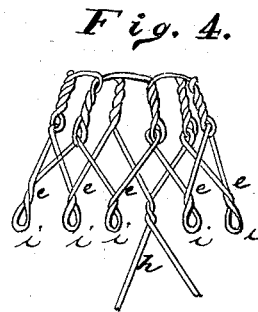
A. De MESTRE.
Machine for Finishing Wire-Caps.

No. 166,076.

Patented July 27, 1875.



Witnesses.
Otto Hufeland
Chas. Kahlers,



Inventor.
Adrien De Mestre
per
Van Santwood & Hauff
Attors

UNITED STATES PATENT OFFICE.

ADRIEN DE MESTRE, OF BORDEAUX, FRANCE.

IMPROVEMENT IN MACHINES FOR FINISHING WIRE CAPS.

Specification forming part of Letters Patent No. 166,076, dated July 27, 1875; application filed May 7, 1875.

CASE B.

To all whom it may concern :

Be it known that I, ADRIEN DE MESTRE, of Bordeaux, France, have invented a certain new and Improved Machine for Finishing Wire Caps, of which the following is a specification:

This invention is illustrated in the accompanying drawing, in which—

Figure 1 represents a vertical section. Fig. 2 is a partial side view on a larger scale than the previous figure. Fig. 3 is a side view of a wire cap when finished. Fig. 4 is a side view of the cap before the same has been fully finished.

Similar letters indicate corresponding parts.

This invention consists in the combination of a cup-shaped die with a conical plunger, the cup-shaped die being supported on a spring-bar so that it can swivel, and provided on its edge with recesses, while the plunger is also mounted so that it can swivel, and provided with a projecting edge, whereby the operation of finishing the caps is materially facilitated. The hollow die can be depressed by treadle, and the plunger is provided with a pusher-bar, to facilitate the discharge of the finished caps from the apparatus.

In the drawing, the letter A designates a wooden table, on which is secured a box, B, for the reception of the wire caps to be finished. On this table is fastened a standard, C, through the end of which extends a plunger, D, through which passes a rod, a, which is forced up by a spring, b. The plunger is feathered to the rod a, and the former is confined in the standard C, so that both the plunger and rod can revolve freely. The lower end of the rod a is formed with a head, c, and said rod can be depressed independent of the plunger by means of the lever K. The plunger D fits a cup-shaped die, E, which is mounted on the upper end of a rod, F, so that it can revolve freely. In the edge of the die E are formed a series of notches, d, corresponding in number and position to the branches e of the wire caps to be finished. (See Fig. 4.) The rod F slides freely up and down in a suitable socket in the foot of the

standard C, and it is subjected to the action of a spring, f, which has a tendency to force the die E against the plunger D. A treadle, G, which connects with the rod F, serves to depress the same against the action of its spring. The plunger D is provided with a projecting edge, g, which serves to bring the loops of the caps to be finished in the proper position, so that the same can be readily applied to the neck of a bottle.

When the die E has been depressed by the treadle G, one of the caps to be finished is placed in the same, its branches e being adjusted in the notches d; then the plunger is permitted to ascend, and the cap is firmly retained in position between the plunger and the die; but it, together with said plunger and die, can be freely turned round. The ends h of the wire, Fig. 4, are then passed through the loops i, said loops being made to lie over the projecting edge of the plunger, and by this operation the cap is brought in the form shown in Fig. 3. The die E is then depressed, and by pressing on the lever K the finished cap is forced off from the plunger, ready to be applied to a bottle.

The invention described in this application for a patent was patented in England in 1874, and is numbered 683.

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

The cup-shaped die E, swiveled upon the spring-impelled bar F, and having notches d, for receiving the wires to form the cap, in combination with the swiveled plunger D, having a projecting edge for bringing the loops of the wire cap into the proper position, substantially as described, and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 24th day of March, 1874.

ADRIEN DE MESTRE. [L. s.]

Witnesses :

ALBION P. STEVENS,
CH. F. THIRION.