

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

No. 166,076.

Patented July 27, 1875.

Fig. 1

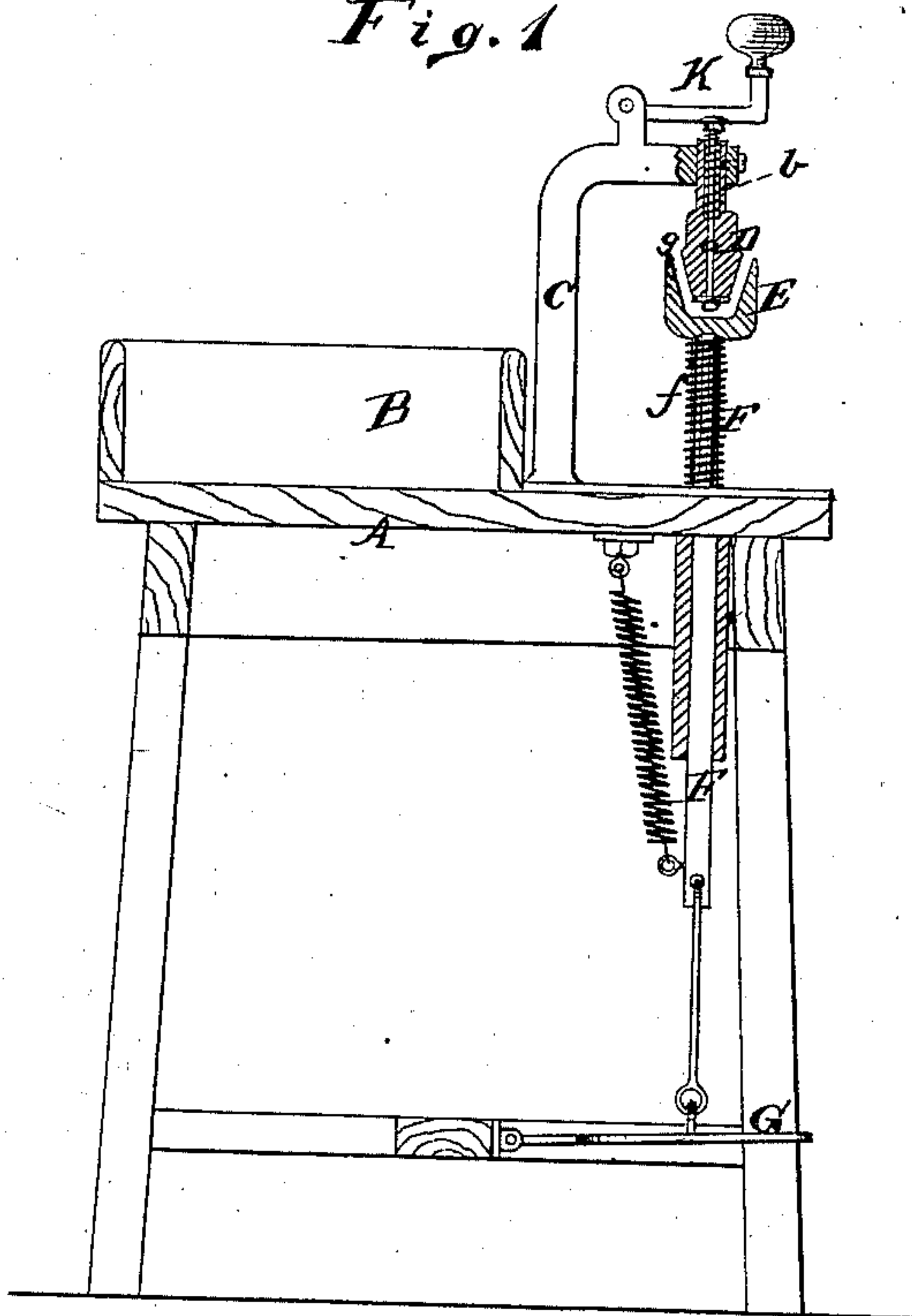


Fig. 2.

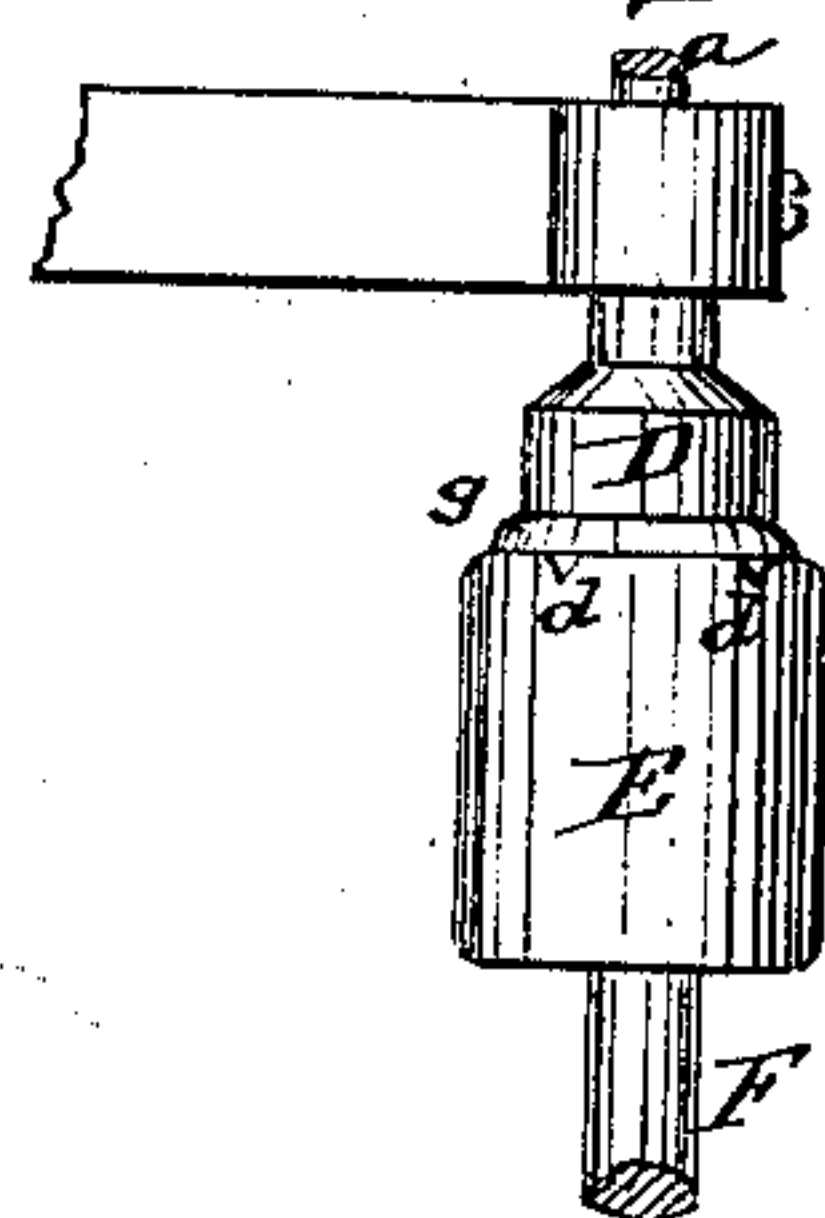
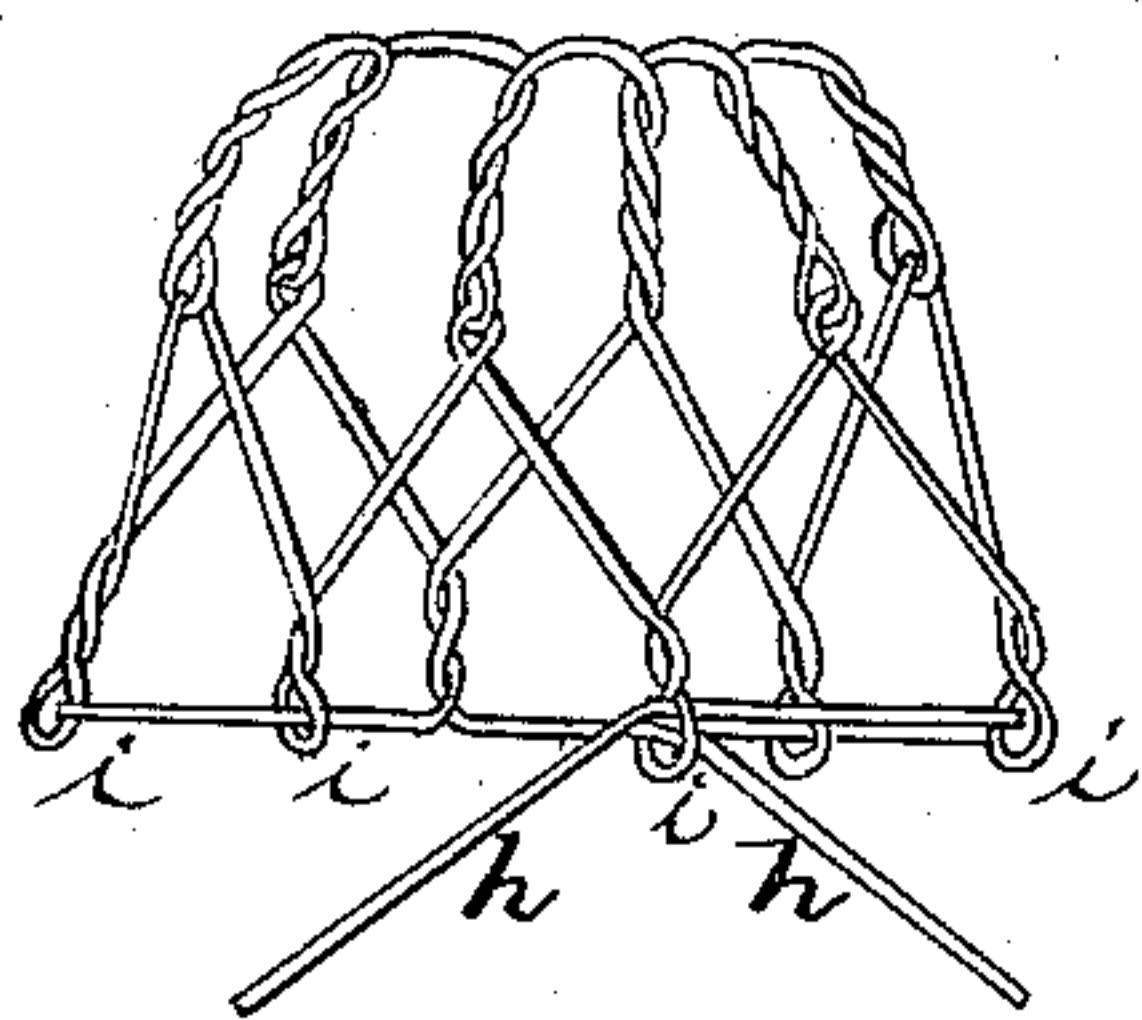
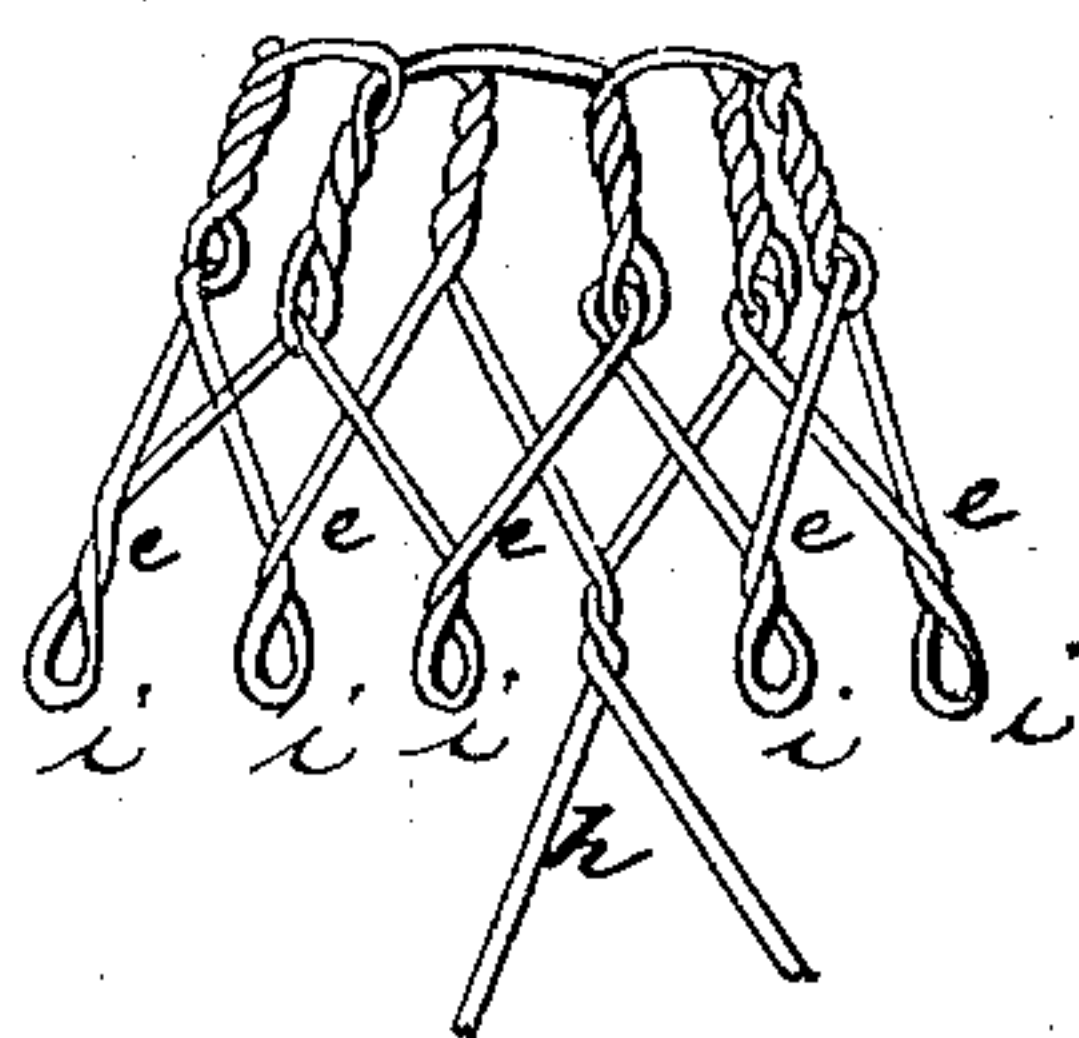


Fig. 3.



Witnesses.
Otto Hufeland
Chas. Wahlen,

Fig. 4.



Inventor.
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per
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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.