A. C. JORDAN.

# Bottle-Capping Machine.

No. 126,711. Patented May 14, 1872.

Fig. 1.

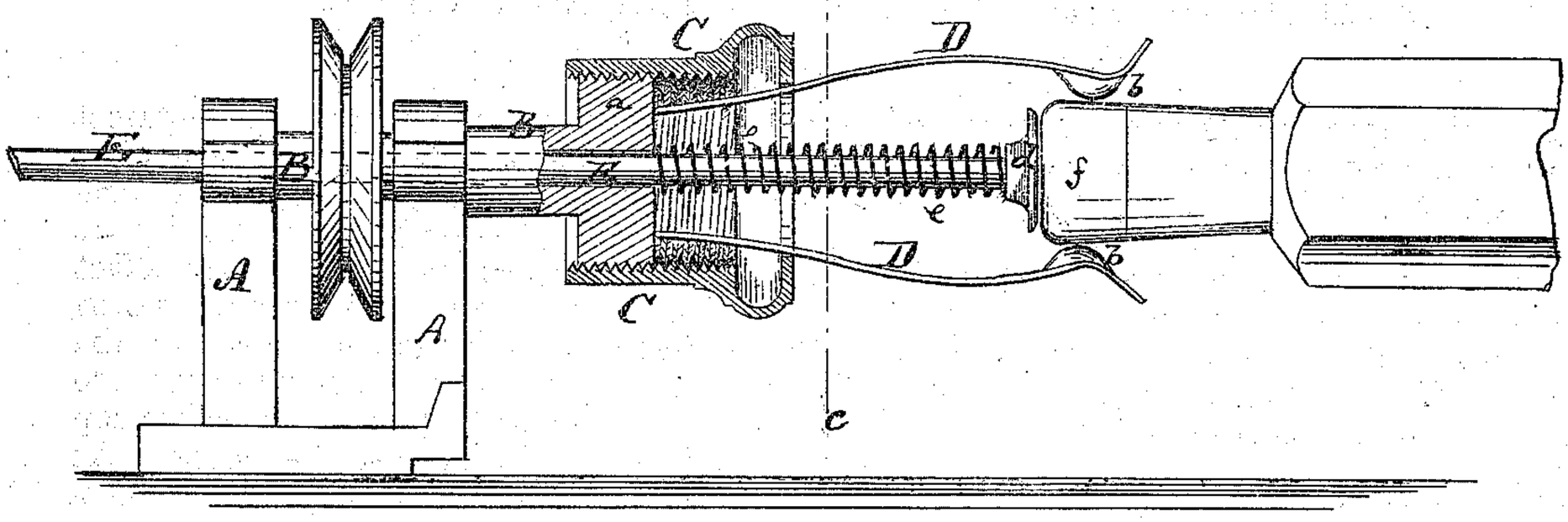



Fig. 2.

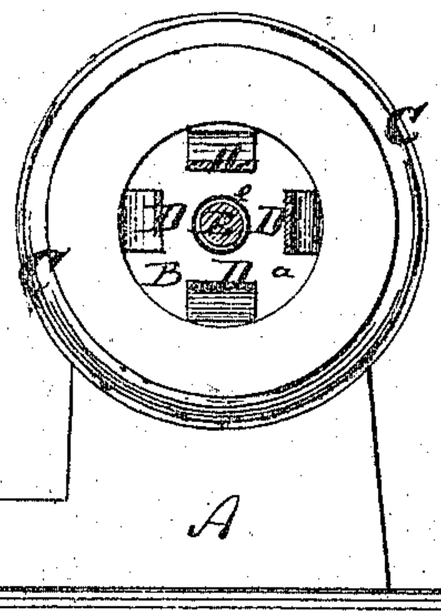



Fig. 3

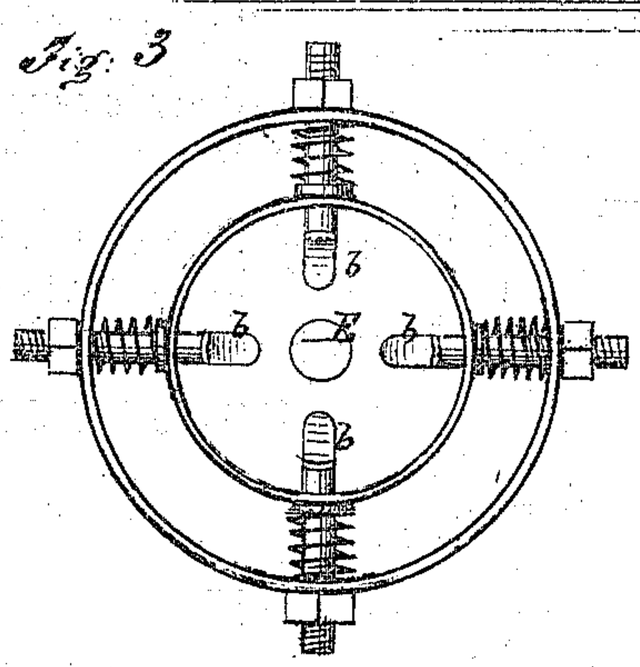
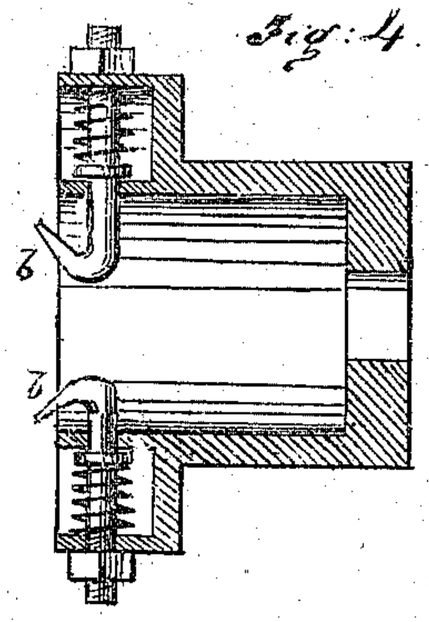



Fig. 4.

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126,711

# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN BOTTLE-CAPPING MACHINES.

Specification forming part of Letters Patent No. 126,711, dated May 14, 1872.

Specification describing a new and Improved Bottle-Capping Machine, invented by AUGUST C. JORDAN, of the city, county, and State of New York.

Figure 1 represents a sectional side view of my improved bottle-capping machine. Fig. 2 is a vertical transverse section of the same on the line C C, Fig. 1. Fig. 3 is a face view, and Fig. 4 a longitudinal section of a modification of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a machine for quickly and exactly applying tin-foil or other thin caps over the corked ends of bottles or jars; and consists in the arrangement of rotary spring-jaws for pressing the foil against the neck of the bottle, and of a sliding spring-button for holding the head of the cap against the stopple or cork.

A in the drawing represents the supporting-frame of the machine. In it are the bearings of a tubular shaft, B, which, at its front end, carries a head or flange, *a*, to which a cylindrical sleeve, C, is screwed. D D are four, more or less, springs projecting forward from the head *a*, and so shaped at their free ends as to form convex inward lips *b b*. The tendency of the springs D is to crowd the lips *b* toward the axis of the shaft B. The front part of the sleeve C, bearing against the springs D, serves to regulate their spring-power, inasmuch as the sleeve C is screwed more or less forward on the head *a*. E is a rod, fitted lengthwise through the hollow shaft B, and provided with a button, *d*, at its front end. A spring, *e*, serves to push it forward far enough to bring the button *d* between the lips *b b*, thereby spreading the front ends of the springs D sufficient for the convenient introduction of the bottle.

The bottle, having the tin-foil cap *f* placed against its cork or stopple, is pushed against the button *d* so as to enter between the spring-jaws D, as is clearly shown in Fig. 1. Immediately upon having been pushed back by the bottle the button ceases to have any effect upon the springs, whose entire strength is then free to press the lips *b* against the cap on the bottle. Rotary motion being now imparted to the shaft B causes the lips *b* to rub on the cap and lay it smoothly against the bottle. As soon as the cap has been thus applied the bottle is withdrawn, whereupon the button is immediately pushed forward by the spring *e* to hold the springs apart, ready to receive another bottle. The button is screwed upon the rod E, or otherwise applied, to be easily removed and replaced by one of different size, it being necessary that the button should be large enough to hold the springs far enough apart to allow the ready introduction of the bottle.

In Figs. 3 and 4 is shown a modification in the form of spring-jaws, the same being formed on transverse sliding rods that have springs to crowd them inward. The operation is the same as above described.

The button *d*, besides holding the spring-jaws apart, serves also to hold the cap tight against the end of the bottle while the lips are laying it on the side.

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

The combination of the adjustable sleeve C with the tubular shaft B, spring-jaws D *b*, and button *e*, all substantially as herein shown and described.

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