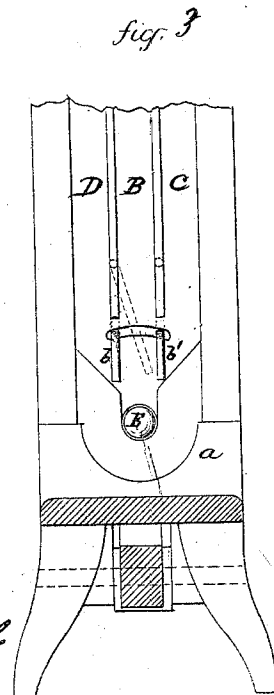
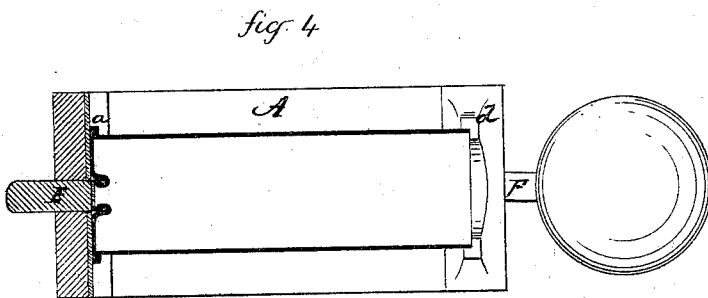
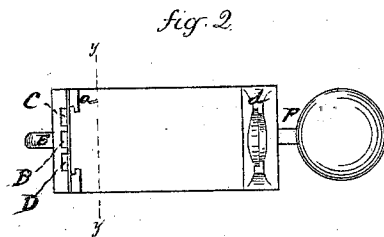
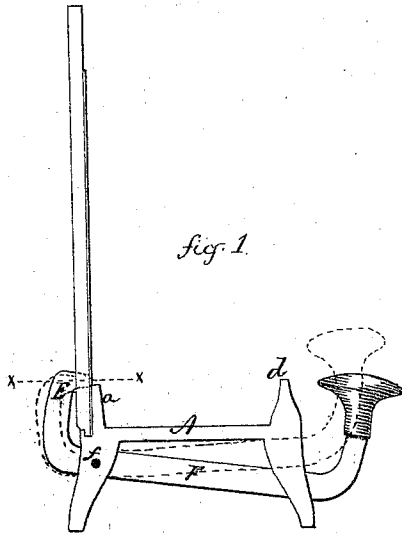


E. A. KELSEY.

Improvement in Cartridge-Capping Machines.

No. 130,724.

Patented Aug. 20, 1872.



Ephraim A. Kelsey
Inventor.

By Atty.

John E. E. & Co.

Witnesses.

J. H. Shumway
W. A. Bull

UNITED STATES PATENT OFFICE.

EPHRAIM A. KELSEY, OF WEST MERIDEN, CONNECTICUT.

IMPROVEMENT IN CARTRIDGE-CAPPING MACHINES.

Specification forming part of Letters Patent No. 130,724, dated August 20, 1872.

To all whom it may concern:

Be it known that I, EPHRAIM A. KELSEY, of West Meriden, in the county of New Haven and State of Connecticut, have invented a new Device for Capping Cartridges; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents in—

Figure 1, a side view; Fig. 2, a top view; Fig. 3, a sectional view on line *y y*, full size, looking to the rear, the covering-plate of the channels removed; and in Fig. 4, a top sectional view, cutting at line *x x*.

This invention relates to a device for attaching the priming to the external rear end of cartridge-shells, substantially such as known as the "Berdan" primer, the object being to automatically supply the primer or cap to each successive shell introduced to receive the primer; and it consists in one or more channels acting as receiver for a number of primers, combined with a seat upon which to rest the shell, and a punch, which, acting in connection with the said channel, takes from the said channel one of the primers therein and attaches it to the shell, as more fully hereinafter described.

A is the base upon which the cartridge-shell is placed, a seat, *a*, being formed to receive the head, and *b*, to receive the forward end, to insure proper relative position to the shell. At the rear is arranged one or more channels, B C D, here represented as vertical. But one of these channels is in use at the same time, as more fully hereinafter described. In the rear, and in line with the center of the cartridge, a punch or follower, E, is arranged, here represented as being one arm of the lever F, pivoted at *f*, so, by raising the lever, as denoted in broken lines Fig. 1, the punch is thrown back and depressed, and again thrown forward. The several channels lead to this punch, as seen in Fig. 3, the central channel represented as opened to the punch; the primers placed in these channels

fall to the bottom, the channels being in width and thickness little more than that of the diameter and depth of the primer. They remain in the channels one above the other, those in one channel resting upon the follower E until that is forced back, as before described; then the first primer falls in front of the follower, a cartridge-shell having been previously placed in the seat; the lever pressed down, as before described, causes the follower to press the primer forward and into place in the shell; the shell is then removed, a second shell placed thereon, the primer attached in like manner, and so on until all the primers in that channel are used. To supply from the other channels, a portion, *b b'*, of the division between the channels at the bottom (see Fig. 3) is made movable from the outside, so that when the supply of the central channel has been exhausted a portion, *b*, is swung over to the right, as denoted in broken lines, opening that channel and closing the channel B. This exhausted, the division *b'* is next swung to the left to supply the primers from that channel. Thus many channels may be employed, and, while I prefer that they shall be vertical, as described, because it enables me to rely upon the natural gravitation of the primers to carry them down, other positions may be used; but, if in line that the gravitation cannot be relied upon, artificial means, as springs, must be employed.

Claims.

1. In combination with the channel B, one or more, as a supply-receiver of the primers, I claim the follower E and the seat *a* to support the shell in the proper relative position.
2. In combination with the subject-matter of the first clause I claim a movable division, *b b'*, substantially as and for the purpose specified.
3. In combination with the subject-matter of the first clause I claim the lever F for operating the said follower, substantially as described.

Witnesses: EPHRAIM A. KELSEY.

E. H. LOOMIS,

GEORGE W. SMITH.