

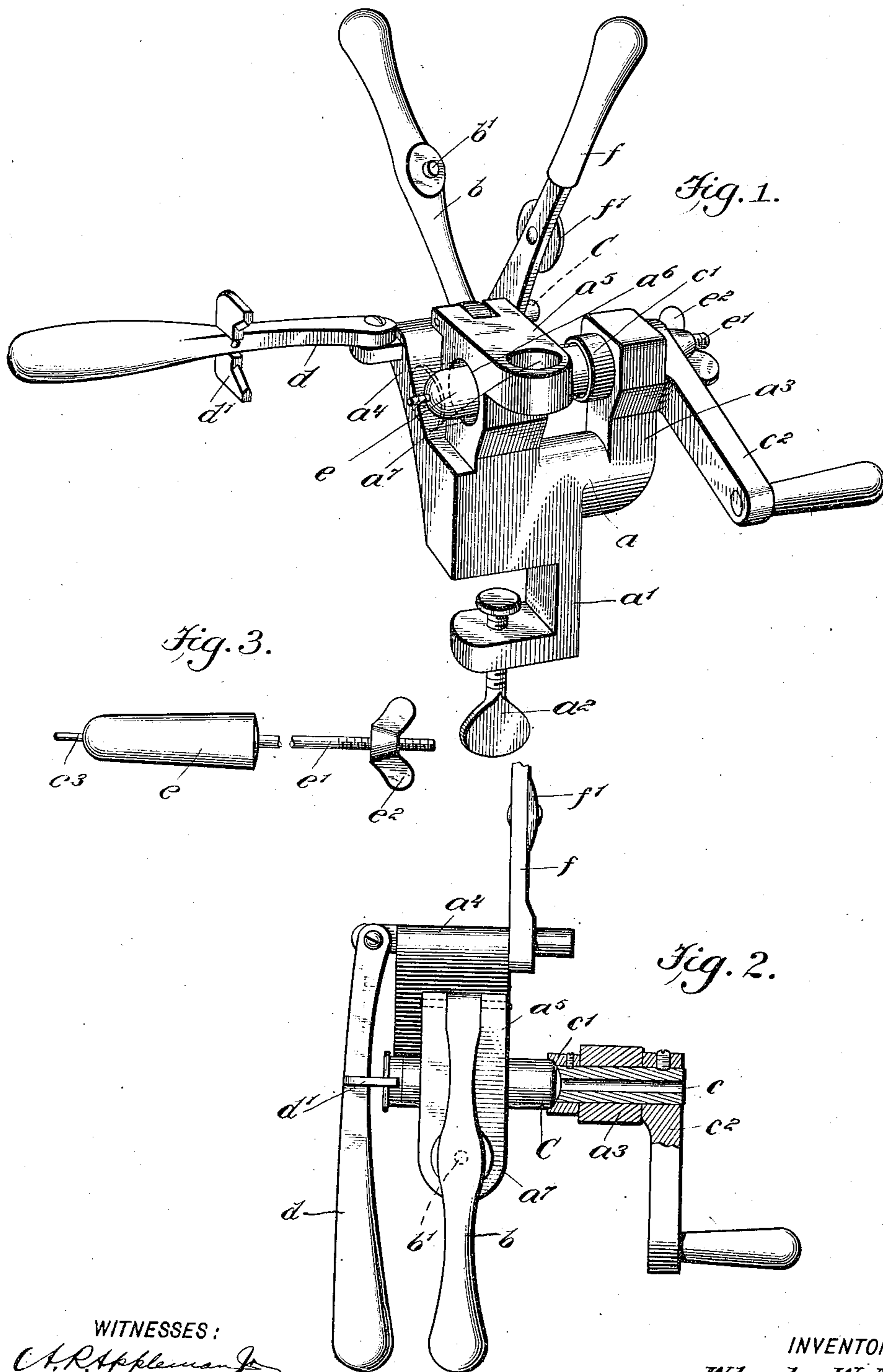
No. 666,540.

Patented Jan. 22, 1901.

W. W. MOORE.
CARTRIDGE LOADER AND RELOADER.

(Application filed Nov. 1, 1900.)

(No Model.)



WITNESSES:
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CARTRIDGE LOADER AND RELOADER.

SPECIFICATION forming part of Letters Patent No. 666,540, dated January 22, 1901.

Application filed November 1, 1900. Serial No. 35,106. (No model.)

To all whom it may concern:

Be it known that I, WHEELER W. MOORE, a citizen of the United States, and a resident of Rushville, in the county of Schuyler and State of Illinois, have invented a new and Improved Cartridge Loader and Reloader, of which the following is a full, clear, and exact description.

This invention relates to a device for removing the spent caps from cartridges and applying fresh caps and also for trimming the edges of the cartridges and crimping the same after they have been loaded.

This specification is a specific description of one form of the invention, while the claims are definitions of the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the invention, the cartridge being indicated by dotted lines. Fig. 2 is a plan view with parts in section, the cartridge being here shown in full lines; and Fig. 3 is a detail view of the removable holder for the cartridge during the operation of decapping the same.

The device has a body portion *a*, adapted to be held rigidly on a suitable support, by a clamp *a'* and thumb-screw *a''*. The body portion *a* is provided with two brackets *a'''* and *a''''* and with a centrally-disposed head-like portion *a⁵*. The head-like portion *a⁵* is formed with a transverse passage *a⁶* therein and with a vertical passage *a⁷*, such passages being separate from each other, as shown. The passage *a⁷* is adapted to receive the cartridge and hold it in a vertical position while the cap is being applied to the cartridge by means of a hand-lever *b*, fulcrumed on the head-like portion *a⁵*, and having a pin *b'* in such position that when the lever *b* is thrown down the pin *b'* will engage the cap of the cartridge and force it into place.

The bracket *a'''* carries loosely a hollow shaft *c*, held to turn and prevented from sliding by a collar *c'* at its inner end and a hand-crank *c''* at its outer end. The collar *c'* is formed with a concave face adapted to engage the end of the cartridge to crimp it, as is illustrated in Fig. 2, the cartridge being there designated

by the letter C. When the cartridge is being crimped, it is passed through the opening *a⁶*, as illustrated, and it is held firmly engaged with the crimping-collar *c'* by means of a hand-lever *d*, fulcrumed at one side of the bracket *a'''*, and having stationary jaws *d'*, adapted to engage the cartridge, as shown, thus holding the cartridge in place and preventing it from turning.

A holder (designated by the letter *e* in the drawings) is provided for carrying the cartridge during the operations of recapping and trimming the same. This holder is provided with a shank-rod *e'*, threaded, as shown, and carrying a thumb-nut *e''*. The shank-rod *e'* is capable of being projected through the hollow shaft *c* and of being fastened firmly therein by tightening up the thumb-nut *e''* against the outer end of the shaft. This fastens the holder *e* firmly to the hollow shaft and permits the rotation of the holder upon the rotation of the hollow shaft, the holder projecting through the opening *a⁶* in the head *a⁵* of the body A. The opposite end of the holder has a pin *e'''*, which is adapted to engage the cap and to press it out of the cartridge. To effect this operation, the cartridge should be placed on the holder *e* and the lever *d* moved toward the holder, so as to press the pin through the cap-opening in the butt of the cartridge, thus dislodging the cap. To trim the end of the cartridge, it should be placed on the holder *e*, as indicated by the dotted lines in Fig. 1, and a disk-like knife *f'*, carried by a hand-lever *f*, should be brought down into engagement with the cartridge. Then by turning the crank *c''* the cartridge will be rotated under the knife and properly trimmed. The lever *f* is fulcrumed to the bracket *a'''* at the side opposite the lever *d*. As illustrated in Fig. 2, when the cartridge is to be crimped the holder *e* is removed from the machine, so that the end of the cartridge may be engaged with the crimping-collar *c'*, and also so that the cartridge may be held stationary during the rotation of the collar.

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

1. A cartridge-tool, having a revoluble cartridge-holder, a hand-lever juxtaposed to the

holder, and movable toward and from same, and a knife carried by the lever to engage the cartridge for trimming it.

2. A cartridge-tool, having a body with a transverse passage therein, a revoluble crimping-cap in alinement with the passage, means for pressing the cartridge into engagement with the crimping-cap, a removable cartridge-holder in connection with the crimping-cap and projected through the said passage, and a knife juxtaposed to the holder and movable to engage the cartridge and trim it.

3. A cartridge-tool, having a body portion comprising a head formed with transversely and vertically disposed openings and also comprising two brackets or arms projected from the body portion, a rotating crimper held by one of the brackets in alinement with the transverse passage of the head, a removable cartridge-holder connected to rotate with the crimper and having a decapping-pin at its outer end, a hand-lever situated at the opposite side of the head and arranged to press the cartridge into engagement with the crimper, the hand-lever being mounted on the other bracket, a second hand-lever being mounted on the first-mentioned bracket and carrying a trimming-knife, and a third hand-lever carrying a pin for pressing a cap into position in the cartridge, the third hand-lever being mounted on the head.

4. A cartridge-tool having a body portion with a passage therein adapted to receive a cartridge, a rotating hollow shaft mounted in alinement with the passage and carrying at its inner end a crimper, a cartridge-holder

having a shank removably fitted within the hollow shaft, and means located oppositely to the crimper for pressing a cartridge into engagement therewith.

5. A cartridge-tool having a body portion with two openings therein at an angle to each other and adapted to receive the cartridge, a revoluble crimper located in alinement with one opening, a removable cartridge-holder connected to turn with the crimper, means situated opposite the cartridge-holder to press the cartridge thereon, a trimming-knife carried adjacent to the crimper and engageable with the cartridge to trim the same, and a hand-lever carrying a capping-pin, such pin being arranged to work with the cartridge when held in the second or remaining opening of the body of the tool.

6. A cartridge-tool, having a body portion with two openings therein each adapted to receive the cartridge, a crimper located opposite one opening, a removable cartridge-holder carried by the crimper, means located opposite the cartridge-holder to press the cartridge thereon, a trimming-knife carried adjacent to the crimper and engageable with the cartridge to trim the same, and a capping-pin carried in position to work with the cartridge when held in the second or remaining opening of the body of the tool.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WHEELER W. MOORE.

Witnesses:

J. W. TRIMBLE,
A. K. SMITHER.