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No. 644,493. Patented Feb. 27, 1900.

N. P. BLAKEMAN.

DEVICE FOR RIMMING AND CRIMPING CARTRIDGES.

(Application filed Nov. 6, 1899.)

(No Model.)

Fig. 1.

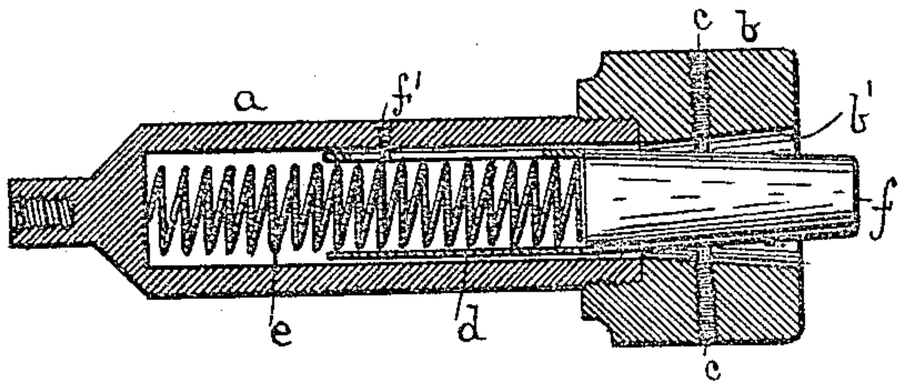


Fig. 2.

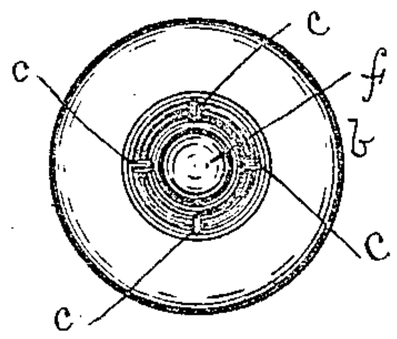
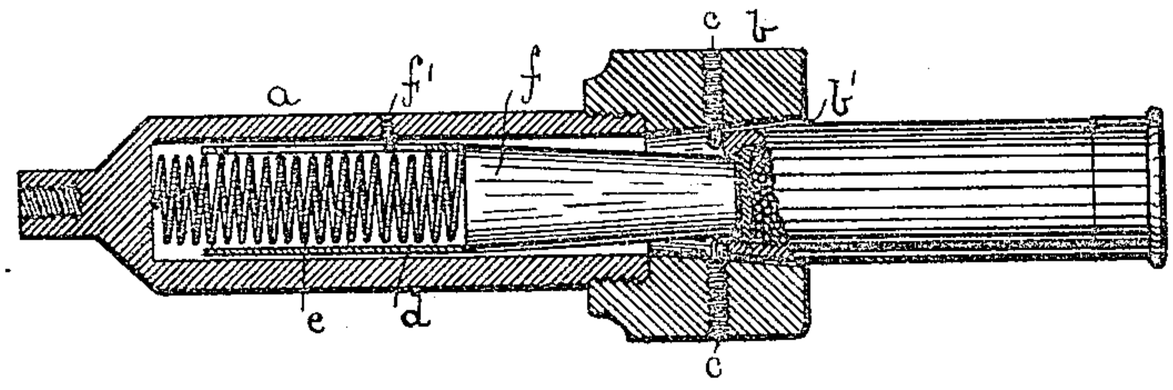


Fig. 3.



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UNITED STATES PATENT OFFICE.

NATHANIEL P. BLAKEMAN, OF WICHITA, KANSAS.

DEVICE FOR RIMMING AND CRIMPING CARTRIDGES.

SPECIFICATION forming part of Letters Patent No. 644,493, dated February 27, 1900.

Application filed November 6, 1899. Serial No. 736,030. (No model.)

To all whom it may concern:

Be it known that I, NATHANIEL P. BLAKEMAN, a citizen of the United States, residing at Wichita, in the county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in Devices for Rimming and Crimping Cartridges; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in devices for rimming and crimping cartridges, the objects of which are to facilitate the use of the device in a manner to be set forth. In the devices of this character now in use after the crimping operation has been performed the cartridge sometimes sticks in the tool, owing to the binding of the rim or crimped portion between the plunger and the crimping-head. In my invention I have overcome this difficulty, as hereinafter described in detail and as illustrated in the accompanying drawings, forming a part of this application, in which—

Figure 1 is a longitudinal sectional view of my improved rimmer and crimper. Fig. 2 is a front end view of same. Fig. 3 shows the relative position of the parts with a cartridge crimped in the tool.

In the drawings, *a* represents a crimping-shell which bears the operative parts of the device and is formed cylindrical, with its rear end threaded internally to receive the shank of a tool by which the crimper may be rotated and with its front end externally threaded to receive the crimping-head *b*. The crimping-head *b* is cylindrical in form, with its inner walls *b'* flaring outwardly, as shown. Passing through the sides of the crimping-head, at opposite points therein and at right angles thereto, are crimping-pins *c*, against which the edge of the cartridge strikes when the tool is applied thereto.

Within the shell *a* is a lining *d*, the front edge of which reaches to the rear side of the pins *c*, thus forming a shoulder against which portions of the edge of the cartridge will strike when the crimping-head is pressed thereon to the full limit required to complete the operation. Within the shell is also a coil-spring *e*, the rear end of which rests against the rear end walls of the shell, and the forward end is secured to one end of a plunger *f* and serves to normally throw forward said plunger and to yieldingly support same within the shell. This plunger has a longitudinal slot formed therein, in which a guide-pin *f'* slidingly fits and serves to prevent the plunger from being entirely ejected from the shell by the spring *e*. The sides of the plunger contract gradually from its rear to its forward end, thus giving it a taper the lines of which are inverse to the lines of the inner walls *b'* of the crimping-head. Herein lies the essential feature of my invention, for it is by this construction I attain the results sought for.

In operation, a cartridge having been filled, a wad is inserted and the end of the plunger applied thereto. The crimper-head is then pressed against the end of the cartridge until its edges strike the crimping-pins, causing such edges to turn inwardly, the plunger receding as the cartridge enters the head. The tool is then rotated, so as to harden by pressure and friction the edges of the cartridge and make a perfectly-tight joint. Then the tool is withdrawn, the oppositely-sloping sides of the plunger and crimping-head permitting this to be done without disturbing the joint formed between the wad and the edge of the cartridge.

By means of my invention the crimped end of the shell is also given a slightly-tapering form, so as to enter the barrel of a gun without catching.

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

In a crimping-tool, the combination with a shell, of crimping-head having flaring sides and provided with crimping-pins taking into the bore of the head, and a spring-supported plunger having tapering sides, the lines of taper being inverse to the lines of the walls of the head, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

NATHANIEL P. BLAKEMAN.

Witnesses:
M. M. MCCALLISTER,
CHESTER A. LATHAM.