

A. BURGESS.

Improvement in Magazine-Guns.

No. 129,523.

Patented July 16, 1872.

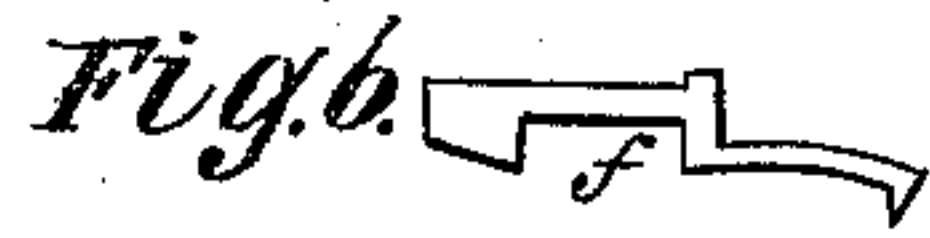
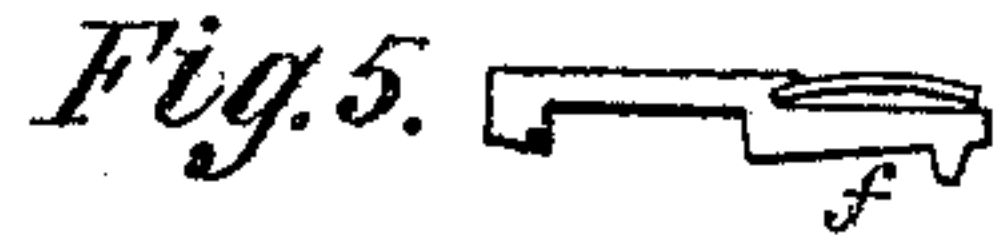
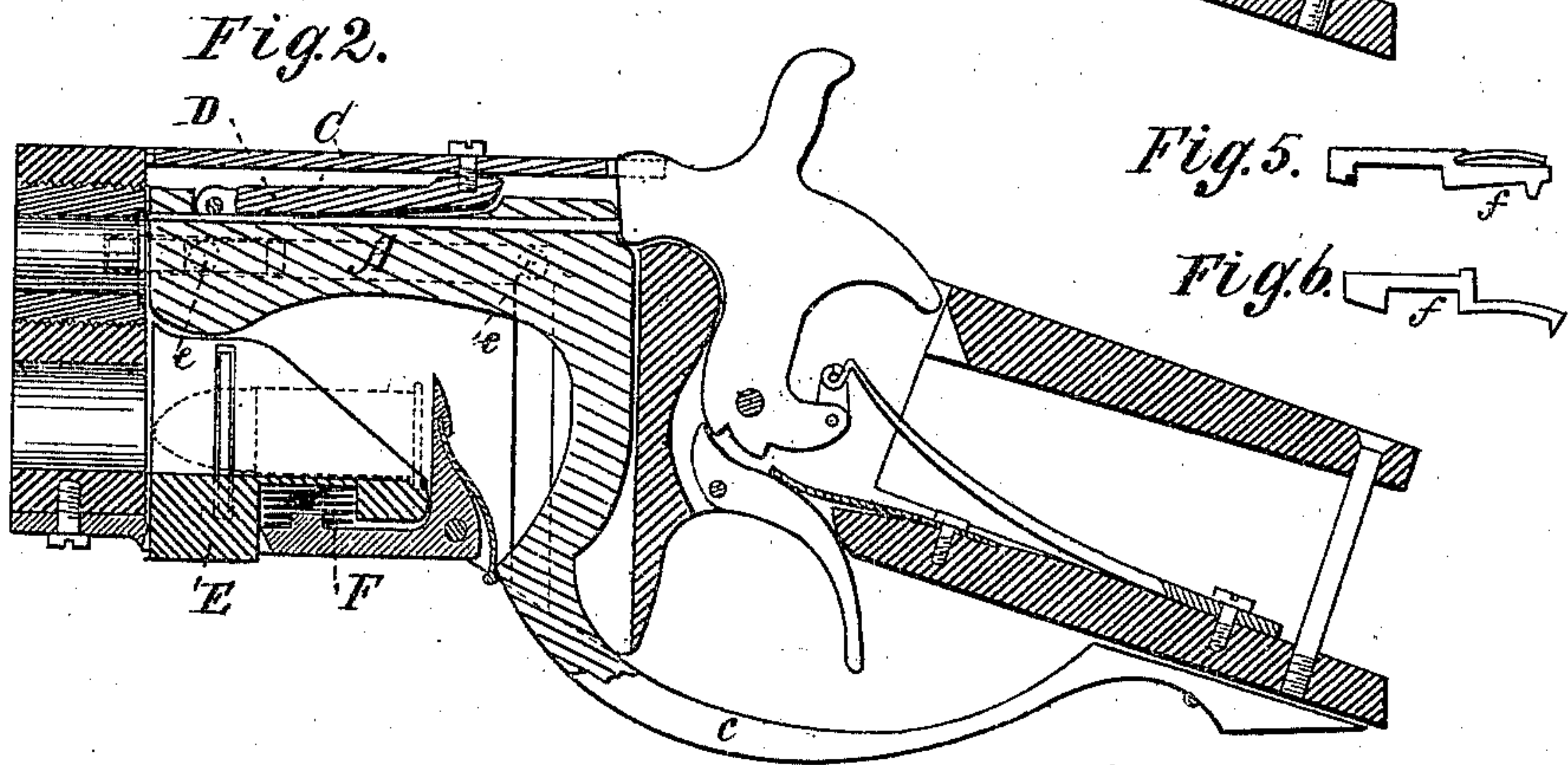
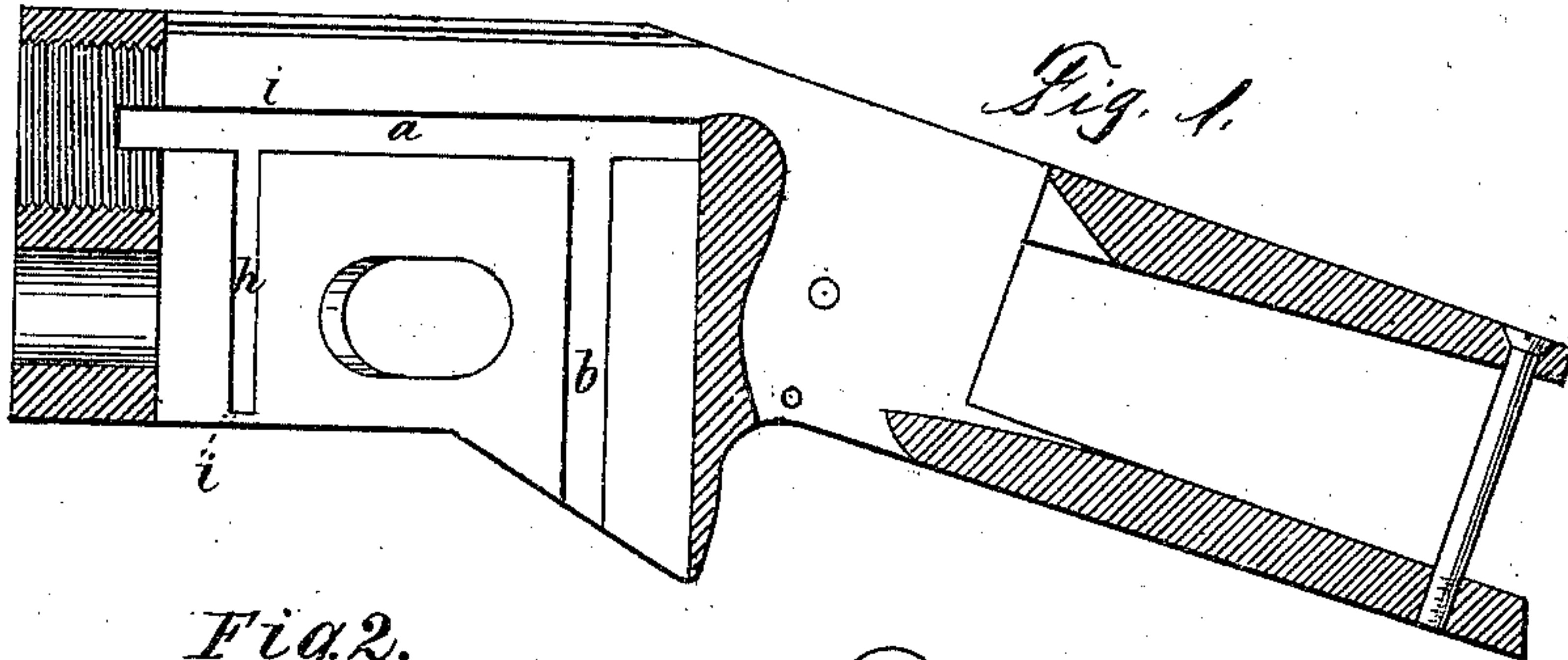


Fig. 3.

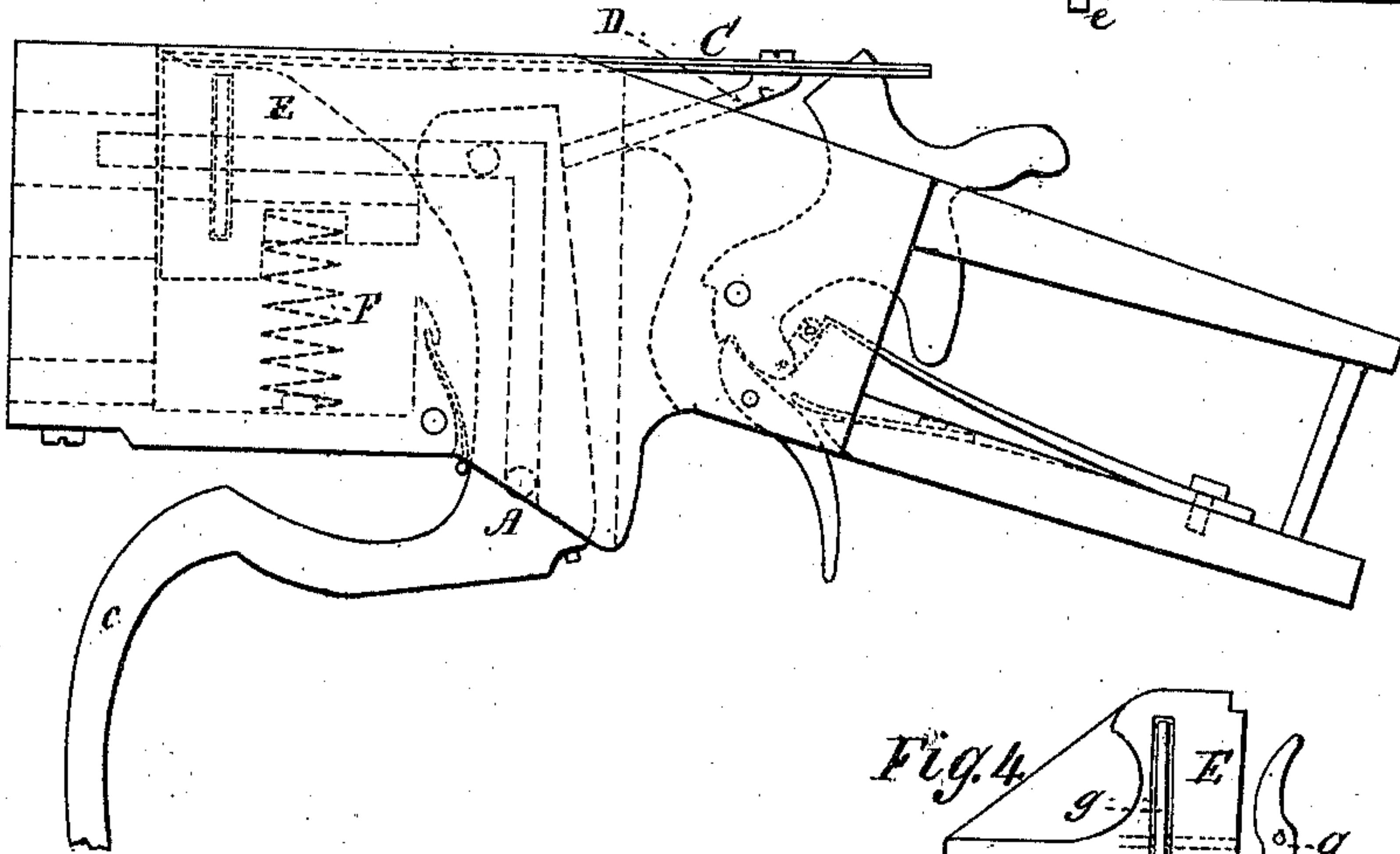


Fig. 7.

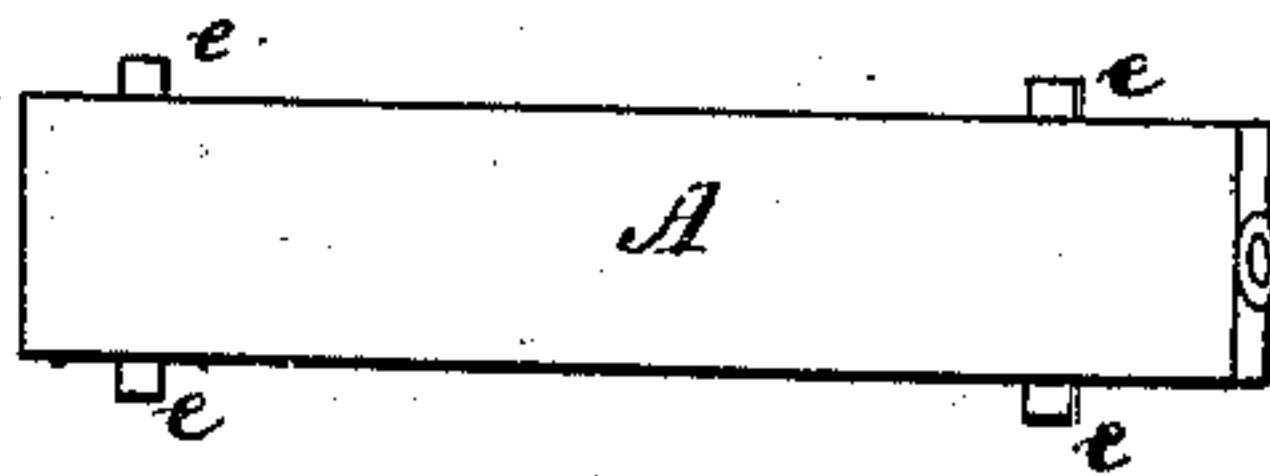
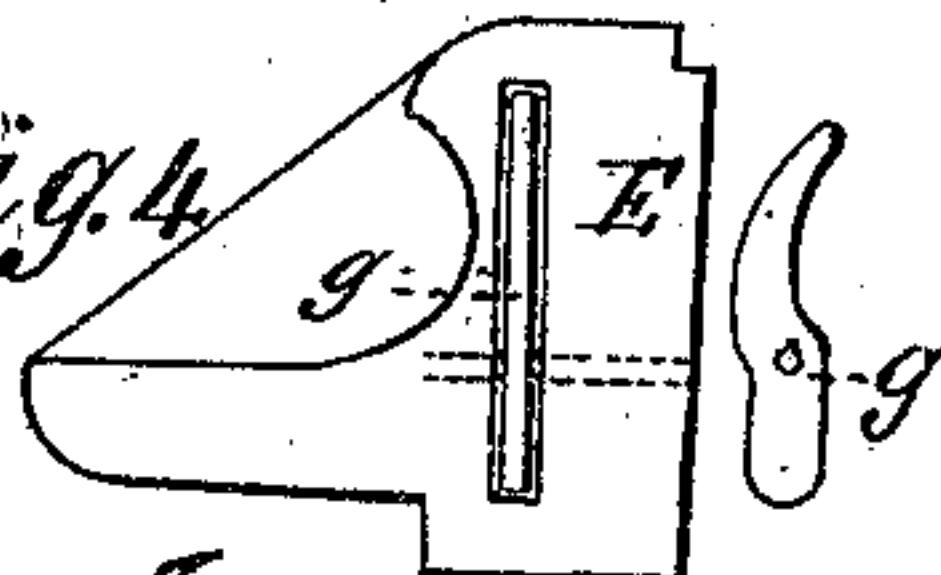


Fig. 4.



Witnesses
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ANDREW BURGESS, OF OWEGO, NEW YORK.

IMPROVEMENT IN MAGAZINE-GUNS.

Specification forming part of Letters Patent No. 129,523, dated July 16, 1872.

Specification describing an Improvement in Magazine Fire-Arms, invented by ANDREW BURGESS, of Owego, in the county of Tioga and State of New York.

Figure 1 is a vertical longitudinal section of the bed-piece, showing the position of the opening in which the working mechanism of the gun is placed. Fig. 2 is a sectional elevation of the bed-piece and working mechanism when the breech is closed. Fig. 3 is an elevation of the bed-piece, its contained mechanism being shown in dotted lines, with the breech-block open or thrown back. Fig. 4 is a side view of the carrier-block and one of the hands for holding the cartridge in place. Fig. 5 shows one of the cartridge-extractors, and Fig. 6 a modification of the same. Fig. 7 is a plan or top view of the breech-block.

In both sides of the interior of the opening of the bed-piece are the grooves *a b*, the longitudinal one *a* extending the whole length of the opening and into the end of the barrel, the vertical groove *b* extending from the other downward, at a right angle, to the bottom of the bed-piece. The breech-block *A* at the rear end turns downward, and its further continuation forms the lever-guard *c*, by which it is operated. Said block has pins or projections at *e* working in the grooves *a b*, thus serving as guides to control its movements when it is operated by the lever-guard *c*. On the projecting pins of the breech-block are hung the extractors *f*, (shown in dotted lines, Fig. 2,) the points of which pass before or spring over the flange of the cartridge when the breech is closed. The cap *C* is connected with the breech-block by the link *D*, which is pivoted to said breech-block near the forward end, the rear end being secured to the cap. The cartridge-carrier has vertical slots, into which are fitted the hands *g*. These project a little from the carrier-block and run in the corresponding grooves *h* of the bed-piece.

The magazine is secured under the barrel, and is furnished with a spiral spring in the ordinary manner.

To operate this arm, the magazine is filled by inserting the cartridges through the opening in the side of the bed-piece. The lever-guard is then pushed forward. This brings down the rear of the breech-block, and the pins *e*, following the grooves *a b*, give the forward end of this block a backward motion, which is communicated to the sliding cap *C*

by the link *D*, and this cap cocks the arm by its rear end operating against the hammer and pushing it back. The cartridge-shell is at the same time withdrawn by the extractors *f*, and the cartridge-carrier, being no longer confined by the breech-block, rises by force of the spiral spring *F*, and, carrying up a cartridge, throws out the withdrawn shell; and the hands *g* close inward at the top by their upper projecting parts striking the shoulders *i*, formed by the termination of grooves *h*, and thus hold the feeding cartridge from flying out. The lever-guard is now pulled back, which closes the breech, the breech-block driving the cartridge before it into the bore of the gun, and also forcing down the cartridge-carrier *E*; and the hands *g* are opened by their lower ends striking the shoulder *i*, left by the lower termination of the grooves *h*, so as to admit a new cartridge.

When used as a single loader the breech is opened, as before, by the lever-guard, and the cartridge dropped in at the top by hand.

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

1. In a breech-loading fire-arm, a breech-block, *A*, provided with projections *e* adapted to work in grooves in a bed-piece, substantially as specified, so that said breech-block may have a vertical movement at its rear end and a longitudinal movement at the front end when opening and closing the breech.

2. In a breech-loading fire-arm, a bed-piece provided with the grooves *b* and *i* running at right angles to each other, and adapted to guide and control a breech-block, as and for the purpose specified.

3. The construction and arrangement of the extractors *f*, grooves *i*, breech-block *A*, and front projections *e* of the same, all as shown and described, whereby the said projections serve as the pivot-guides on which the breech-block turns, and as impelling devices for the extractors, as set forth.

4. Combination of the hammer, cap *C*, link *D*, breech-block *A*, and guard *c*, when operating, as described, for the purpose of cocking the arm, as set forth.

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