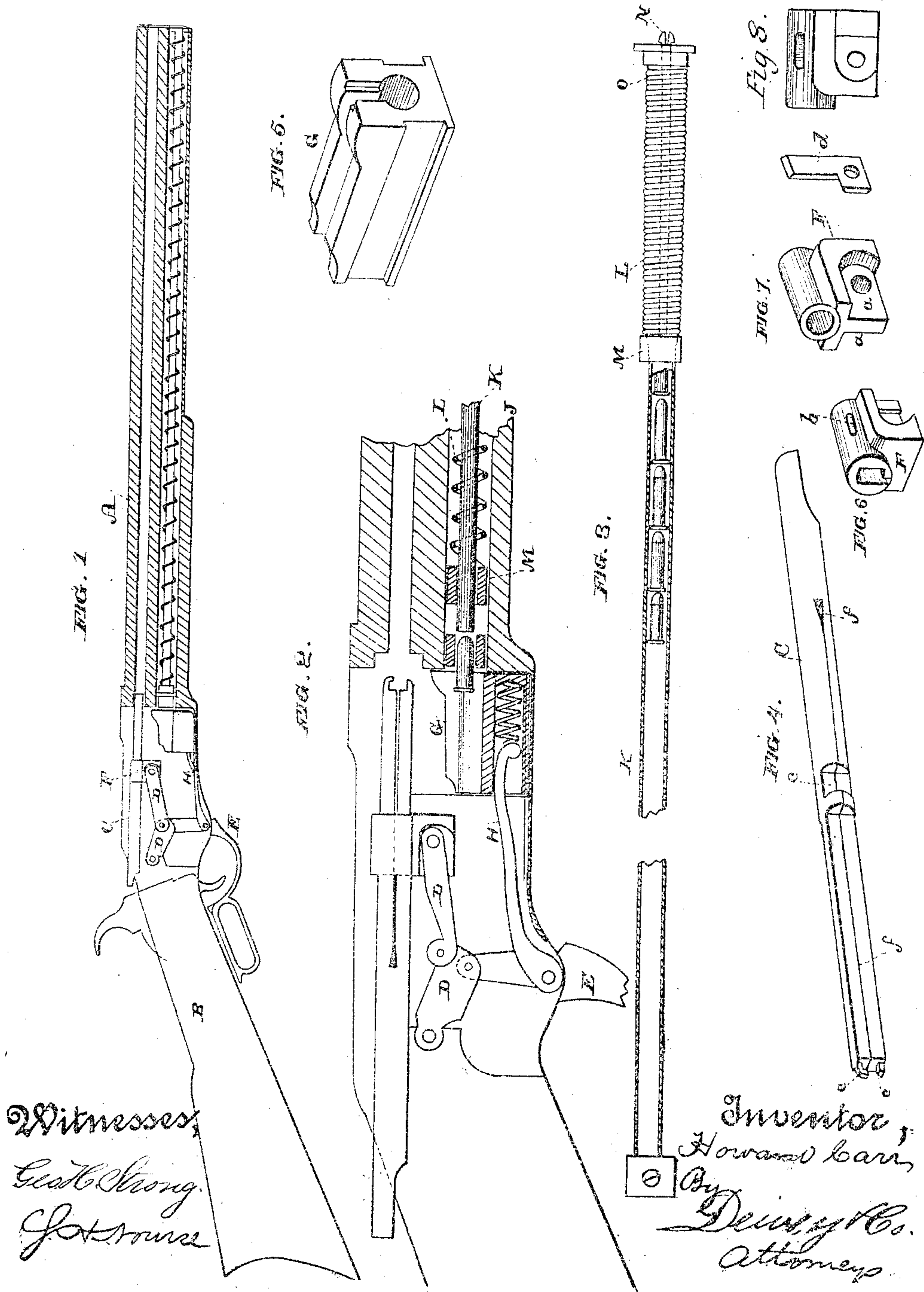


(No Model.)

H. CARR.
MAGAZINE GUN.

No. 281,341.

Patented July 17, 1883.



Witnesses,
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UNITED STATES PATENT OFFICE.

HOWARD CARR, OF SAN FRANCISCO, CALIFORNIA.

MAGAZINE-GUN.

SPECIFICATION forming part of Letters Patent No. 2-1,341, dated July 17, 1883.

Application filed May 8, 1883. (No model.)

To all whom it may concern:

Be it known that I, HOWARD CARR, of the city and county of San Francisco, State of California, have invented an Improved Magazine-Gun; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to certain improvements in magazine-guns, and they are especially applicable to what is known as the "Winchester rifle breech mechanism."

It consists of certain improvements in the carrier-block, the firing-bolt, and extractor for empty shells, and the magazine by which the gun is adapted to fire cartridges of small caliber for gallery use, all of which will be more fully explained by reference to the accompanying drawings, of which—

Figure 1 is a view of the gun, showing a longitudinal section. Fig. 2 is an enlarged view of the breech. Fig. 3 is a section of the cartridge-chamber. Figs. 4, 5, 6, 7, and 8 are details of construction.

A is the barrel of my rifle; B, the stock; and C is the breech-bolt, which is withdrawn and advanced by the toggle-lever D and the guard-lever E, in the manner usual to the Winchester rifle.

My device is intended to adapt the rifle for the use of cartridges of small caliber, or those using fulminating powder and a small ball for gallery use, or for small game, as squirrels or birds; and the recoil from such ammunition is so small that I do not require any powerful recoil, or breech-block, as the strength of the bolt is sufficient for the purpose.

The rear portion of the bolt C is made cylindrical, and it passes through a block, F, which has depressions or sockets *a* upon each side to receive the ends of one pair of the arms D, and a pin passes through to retain them in place. A slot, *b*, is made through this block, and a corresponding notch, *c*, is made in the side of the bolt to receive a sliding key, *d*, by which the bolt is secured to the block. That part of the bolt which extends forward from the block F has flattened sides, and has the hooks *e* at the front end to grasp the head of the shell and extract it when the bolt is withdrawn. The bolt has a horizontal slit, *f*, made in it, extending back two-thirds or more

of its length to a point behind the block F, the slot being enlarged or opened slightly at its rear end, as shown. The flattened extensions in front of the block are of such a length as to be elastic, which will thus allow the hooks *e* to separate and clasp the head of the shell when the bolt is forced forward against it, and they also separate to allow it to be ejected. By this construction I am enabled to make the breech-bolt and extractor in a single piece. The cartridges being of the rim-fire description, the blow of the hammer falling upon the end to explode the charge in the shell, and when the bolt is retracted it brings the shell with it, so that it may be ejected.

The carrier-block G is moved up and down in its vertical chamber by the arm H, one end of which is pivoted, so that the movement of the lever E actuates it. The other end enters a hole in the rear lower part of the carrier, and is pressed upon by a coiled spring within the opening, as shown. The cartridges are received into the carrier-block from the magazine J, which extends beneath the barrel, as shown, in the ordinary manner. In order to hold these small cartridges properly in the magazine without the necessity for an entire reconstruction, and also to enable me to load the magazine with facility, I employ a smaller tube, K, which fits the magazine-tube proper, and is removable therefrom through a suitable opening in its forward end. This smaller tube is slotted lengthwise upon its sides to allow the spring L, which is wound spirally around the exterior of the tube, to act upon a pin within it, by which the cartridges are forced downward. The spring acts directly upon a ring, M, which surrounds the tube and has a pin passing through the longitudinal slot.

When it is desired to fill the magazine with cartridges, the tube K is withdrawn from its inclosing-tube J, and the ring M is pushed up until the head N of an elastic split rod, *o*, passes out through the upper end of the tube, and the halves, springing apart, it is held by their resting upon the head. This rod *o* is attached to the cross-pin in ring M, and lies in tube K behind said pin, being equal in length to the distance occupied by the spring L when compressed. The cartridges being thus inserted

until the tube is full, the tube K is introduced into the outer permanent tube J, where it may be locked in place by lugs, which engage by turning the tube, or by any equivalent well-known mechanism. The spring, in order to allow it to act upon the cartridges, is then released by pressing the two halves of the head N together until they will slip through the hole in the head of the tube, and the magazine will then be in readiness for use.

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

1. In a breech-loading rifle, the longitudinal reciprocating breech-bolt C, secured within the block F by the wedge-key *d*, so as to be actuated by the toggle-levers D, connecting-rod, and lever E, the forward end of said bolt being split in the line *f*, and having the hooks or extractors *e*, substantially as herein described.

2. In a breech-loading rifle, a longitudinal breech-bolt, with connecting reciprocating mechanism, said breech-bolt being split longi-

tudinally, and having the shell-extracting hooks formed rigidly upon its front end, substantially as herein described.

3. The magazine, consisting of the exterior tube, J, and the interior removable horizontally-slotted tube, K, with the surrounding sliding ring M, the interior cross-pin, and the spring L, surrounding said tube K, substantially as herein described.

4. The fixed tube J and its interior removable slotted tube, K, with the sliding ring M, interior cross-pin, and surrounding spring L, in combination with the rod *o*, attached to said interior cross-pin, and having the split head N, by which the spring and the pin which advances the cartridges are held back to allow the tube to be filled, substantially as herein described.

In witness whereof I hereunto set my hand.

HOWARD CARR.

Witnesses:

S. H. NOURSE,

JOSEPH A. BAYLESS.