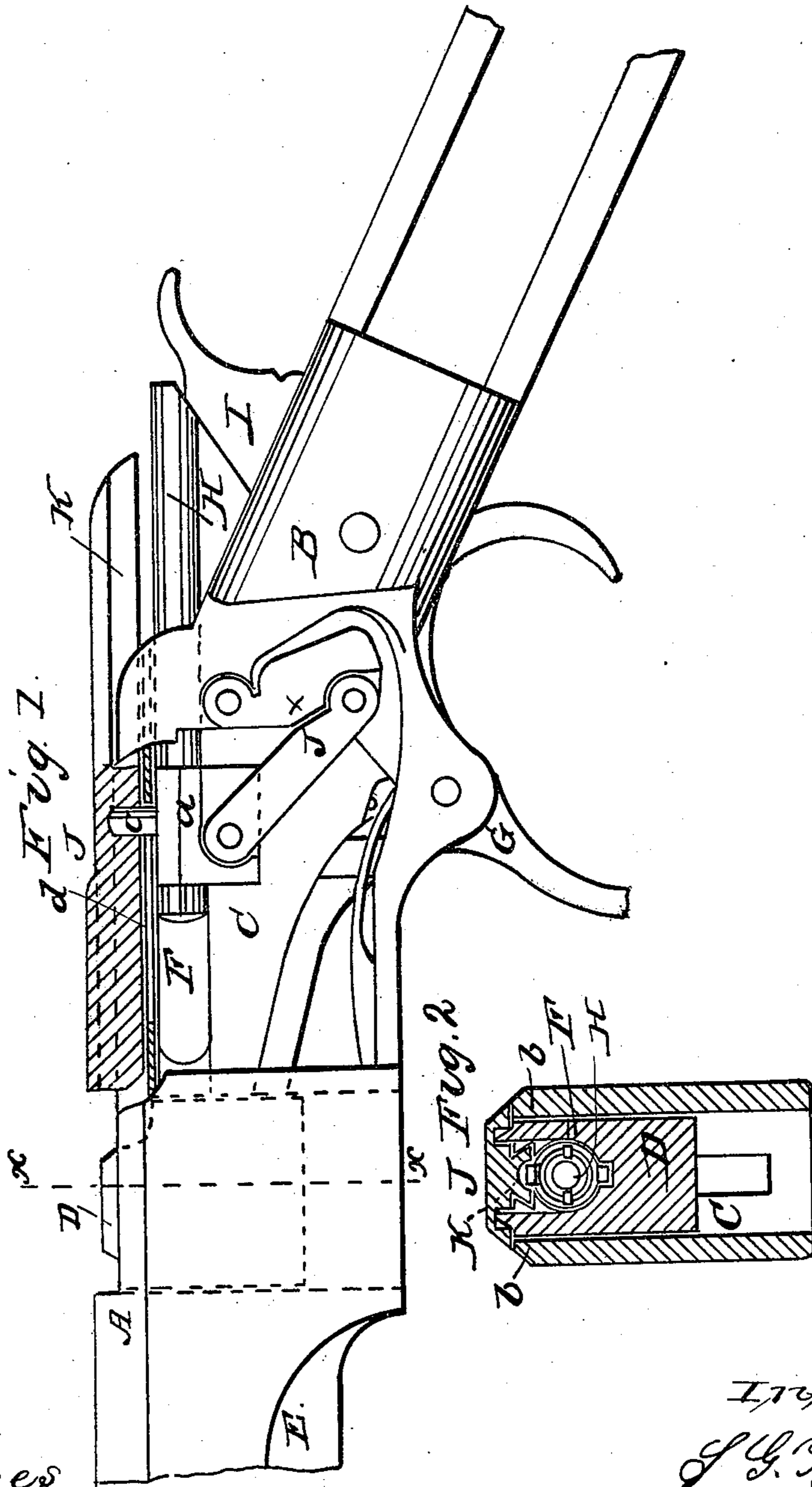


S. G. BAYES.
Magazine Gun.

No. 86,723.

Patented Feb. 9, 1869.



Witnesses
Julius Dietrich
G. C. Cotton

In presence of
S. G. Bayes.
per Myself
Attorney

UNITED STATES PATENT OFFICE.

S. G. BAYES, OF WAUSEON, OHIO.

IMPROVEMENT IN MAGAZINE FIRE-ARMS.

Specification forming part of Letters Patent No. 86,723, dated February 9, 1869.

To all whom it may concern:

Be it known that I, S. G. BAYES, of Wauseon, in the county of Fulton and State of Ohio, have invented a new and useful Improvement in Fire-Arms; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and useful improvement in that class of fire-arms which are known as "magazine-guns," the same being provided with a chamber to contain a plurality of cartridges, (those with metallic shells being used,) which, by a suitable mechanism, are conveyed, one at a time, from the magazine and deposited into the breech or rear end of the barrel of the piece to be discharged, the metallic shells of the exploded cartridges being thrown through an opening in the top of a chamber at the rear of the barrel, in which chamber the greater portion of the mechanism above alluded to is placed.

In connection with the sliding breech-pin of this class of fire-arms, a slide or cover is provided for the opening through which the metallic shells of the exploded cartridges are cast out, so that said opening will be kept covered or closed, except at such time when the mechanism is ready to eject the shell, when it is opened, and after the expulsion of the shell closed by the operation of the guard-lever.

My invention consists in the peculiar construction of this slide, whereby it is adapted to be moved forward to cover the opening in a line parallel with the axis of the barrel.

I am aware that a flat spring has been attached to the breech-pin and moved forward with it to close the opening in the chamber; but the success of this arrangement depends upon the elasticity of the spring, whose outer end must be raised by the carrier before the opening can be closed, and then spring into position upon the chamber when the carrier has been thrown down.

The continued use of this spring will have a tendency to weaken it, and therefore render the cover imperfect.

By my invention this difficulty is avoided,

as the cover is non-elastic and moves forward in line parallel with the axis of the barrel. In order to accomplish this result, it is grooved upon its under surface in such a manner as to slide easily over the projecting ribs upon the carrier, which ribs are employed for expelling the shell of the exploded cartridge.

In the accompanying sheet of drawings, Figure 1 is a side view of the breech portion of a magazine-gun, a portion of the side nearest the eye being removed in order to show the working parts; Fig. 2, a transverse section of the same, taken in the line *xx*, Fig. 1.

Similar letters of reference indicate corresponding parts.

A represents a portion of the rear or breech end of the barrel of a fire-arm; B, a portion of the stock, which is of metal, and adjoins the metallic chamber C at the rear or breech end of the barrel. D is the carrier, which raises the cartridges from the magazine E, underneath the barrel, up to the rear end of the barrel; and F is the sliding breech-pin, by which the cartridges are shoved into the barrel. The carrier and breech-pin are operated by a lever, G, connected by suitable mechanism to them. H is the plunger, against which the hammer I strikes to explode the cartridge.

The front end of the plunger works in the rear part of the breech-pin F, and at the rear end of the breech-pin there is a block, *a*, to which one arm of a toggle, *J*^x, is pivoted, the toggle being connected with the lever G.

The parts above referred to are all old and well known, and therefore do not require a special description.

In the top of the chamber C there is made an opening, *b*, as usual, through which the metallic shells of the exploded cartridges are thrown out each time the carrier D rises. This opening *b*, in fire-arms of this class, is most generally open, no cover being provided for it, and the few covers that have been applied have been found defective, although some of them have been operated by the breech-pin. My invention obviates this difficulty.

The cover consists of a slide, J, provided at its under side with a longitudinal dovetail rib, K, which is fitted and allowed to slide or work freely in a corresponding-shaped groove in the top of the chamber C.

It will be seen that the carrier D is provided with two projecting ribs, by which the cartridge-shell is raised and discharged from the opening, and in order to permit the non-elastic slide J to move forward, it is grooved upon its under side to a sufficient depth to permit its passage over the ribs of the carrier.

A pin, *c*, extends up from the block *a* at the rear of the breech-pin F, said pin passing through an oblong slot, *d*, in the top of the chamber C, and into a mortise in the under side of the rib K, as shown clearly in Fig. 1.

By this arrangement it will be seen that the slide or cover J will be moved with the breech-pin, and each time the breech-pin is moved forward to shove the cartridge into the barrel the slide J will be also moved and made to cover the opening *b*, and when the breech-pin is drawn back and the carrier rises the slide

J will be drawn back, so as to expose the opening and admit of the expulsion of the cartridge-shell.

I claim as new and desire to secure by Letters Patent—

The slide or cover J, applied to the top of the chamber C for closing the same, when dovetailed into the breech, and grooved upon its under side to pass freely without being raised over the projecting ribs of the carrier D, as herein described, for the purpose specified.

The above specification of my invention signed by me this 12th day of August, 1868.

S. G. BAYES.

Witnesses:

FRANK BLOCKLEY,
ALEX. F. ROBERTS.