

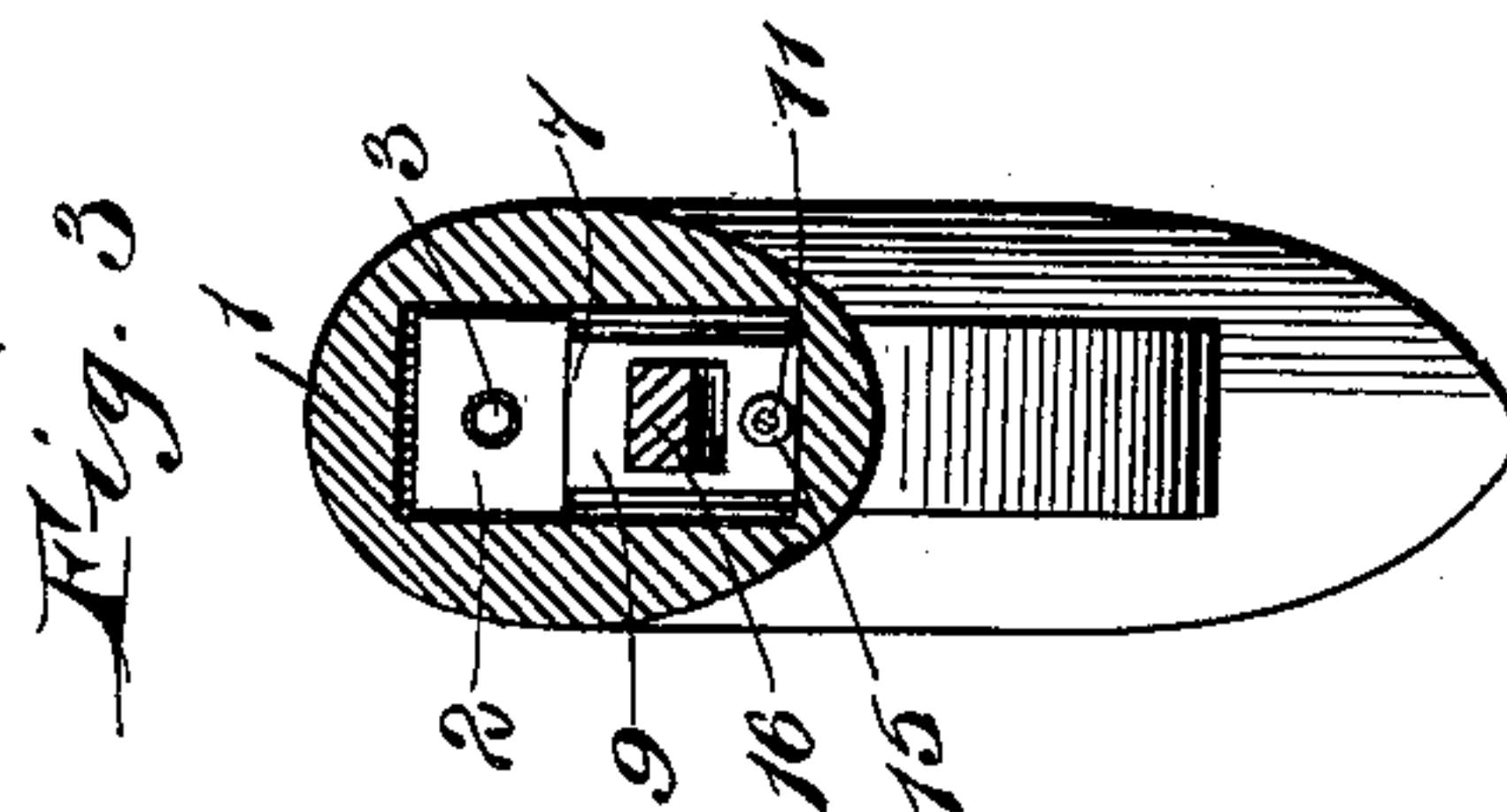
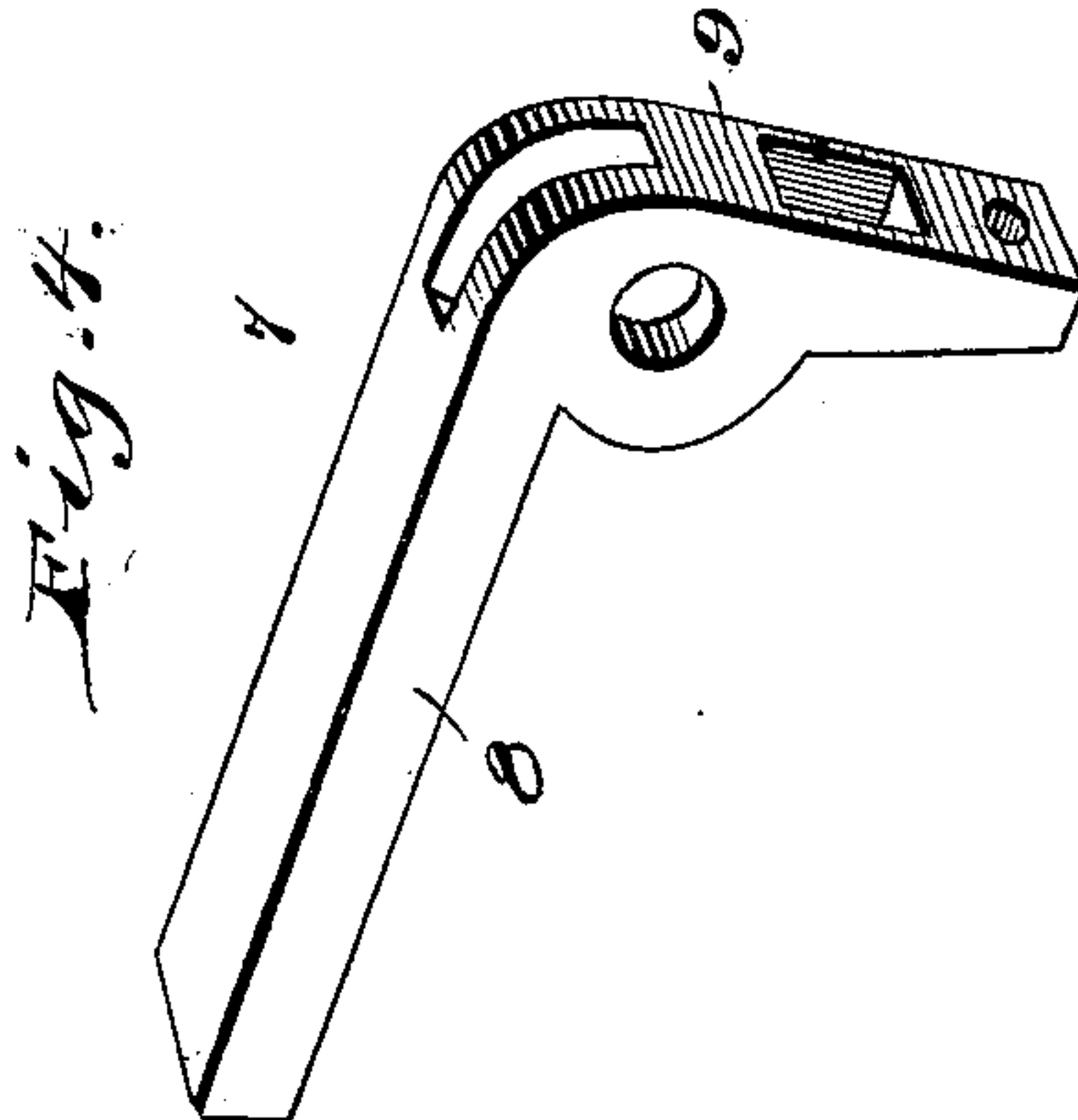
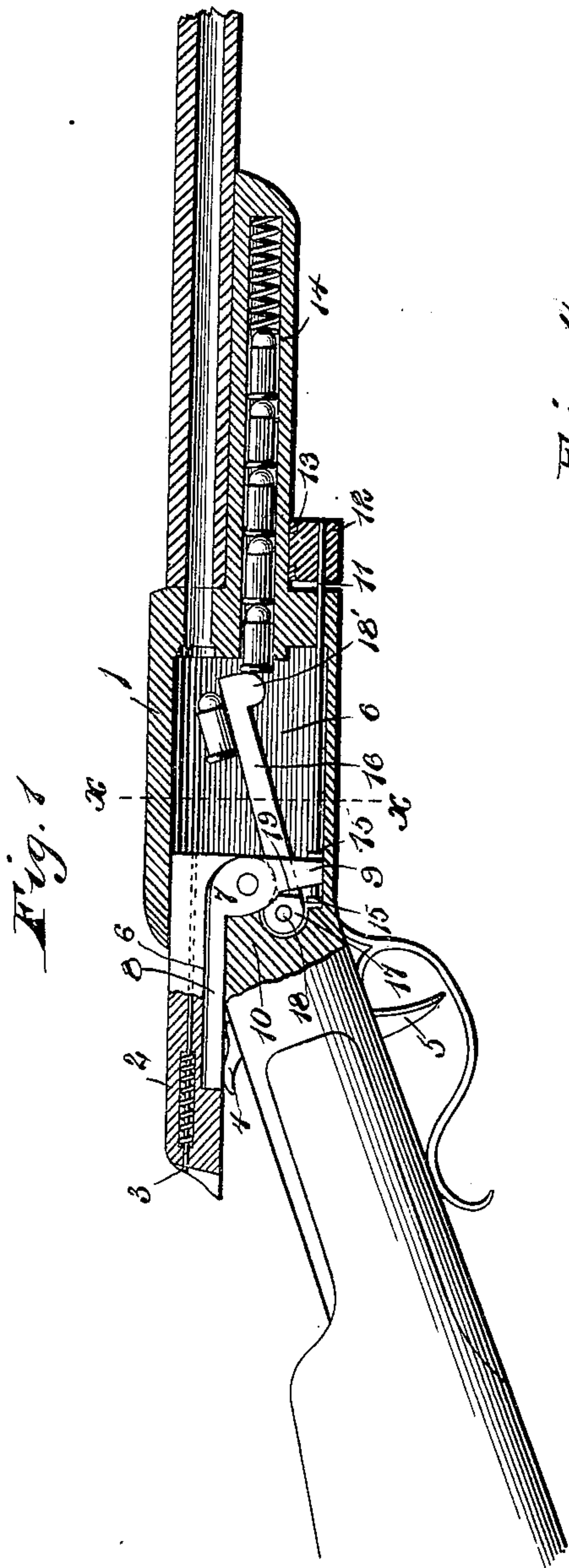
(No Model.)

2 Sheets—Sheet 1.

W. E. KING.
MAGAZINE FIREARM.

No. 604,764.

Patented May 31, 1898.



Witnesses

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Victor J. Evans

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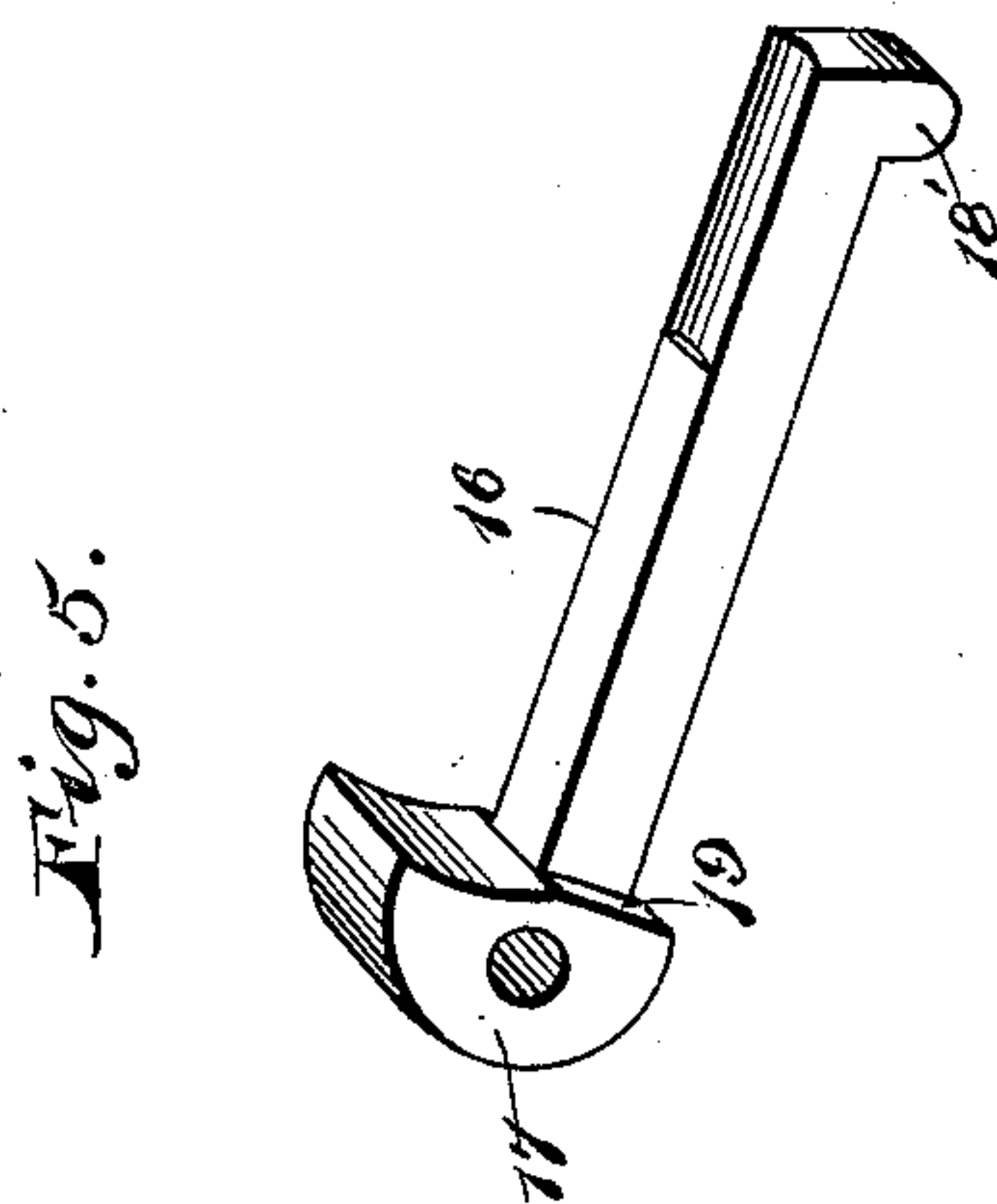
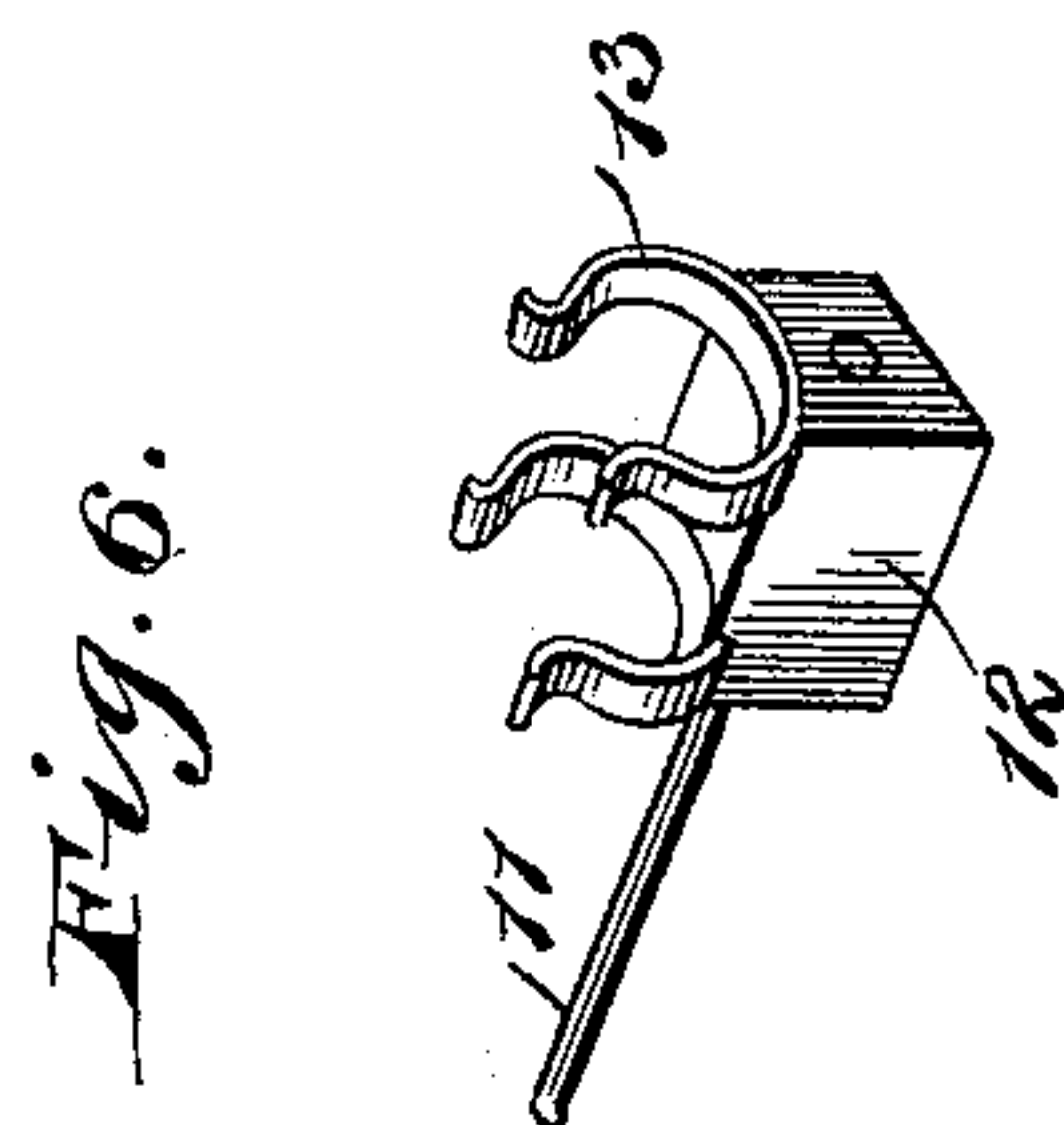
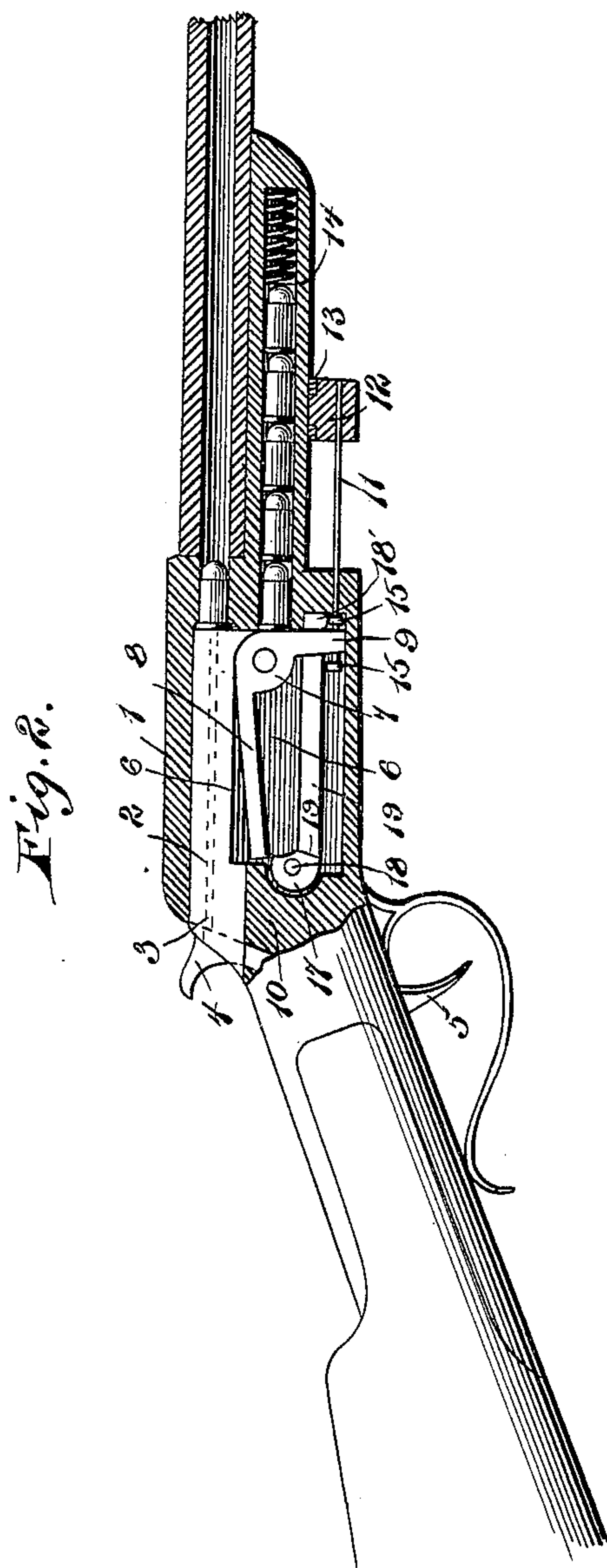
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2 Sheets—Sheet 2

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UNITED STATES PATENT OFFICE.

WILLIAM E. KING, OF CHASE, MICHIGAN.

MAGAZINE-FIREARM.

SPECIFICATION forming part of Letters Patent No. 604,764, dated May 31, 1898.

Application filed July 21, 1897. Serial No. 645,380. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. KING, of Chase, in the county of Lake and State of Michigan, have invented certain new and useful Improvements in Magazine-Firearms; 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.

The object of this invention is to provide a magazine-firearm which is simple and strong, by reason of its particular construction and arrangement, and also possesses the no less important feature of being quick and safe in action. The invention also contemplates an arrangement by which the shell, after the cartridge is discharged, is ejected from one side of the gun beyond the operator.

To the above ends and to such others as the invention may pertain the same consists in providing a magazine-firearm with a sliding breech-block, a pivoted dog for locking the breech-block in its closed position, a sliding rod operating the dog to project the breech-block, and a cartridge-carrier also actuated by the dog to move the new cartridge in line with the breech end of the gun.

The invention further consists in the particular construction and arrangement of the parts forming an attachment for magazine-firearms and in which the parts are in action.

In the following specification I have entered into a detail description of the invention, reference being had to the accompanying drawings and to numerals thereon which designate the different parts, and what I consider to be the novel features of construction are specifically recited in the claims.

In the drawings forming part of this specification, Figure 1 is a longitudinal section through a firearm constructed in accordance with my invention, being arranged with the breech-block open. Fig. 2 is a similar view with the breech-block closed. Fig. 3 is a transverse section on the line X X of Fig. 1. Fig. 4 is a detail view of the dog which locks the breech-block closed and also provides for opening the same. Fig. 5 is a detailed view of the cartridge-carrier. Fig. 6 is a detailed view of the head of the operating-rod.

Referring to the drawings by numerals, 1 designates the frame which incloses the mech-

anism for injecting and ejecting the cartridge, said frame being securely attached to the adjoining parts of the firearm. Within the upper part of this frame is mounted the sliding breech-block 2, in which is located the usual firing-pin 3, which is adapted to be struck by the hammer 4 of the firearm, said hammer being held in the ordinary manner by the trigger 5, engaging notches in the hub of the same. The hammer is adapted to be moved out of the path of the breech-block when it is brought to a full-cock, and the said breech-block has a sliding movement within the frame to bring the inner end of the firing-pin at the end of the barrel. The under side of the breech-block is provided with a longitudinal recess 6, in the forward end of which is pivoted a dog 7, having a horizontal member 8, which lies within the recess, and a depending member 9, the lower end of which is slotted for the purpose hereinafter specified. The horizontal member of the pivoted dog 7 is adapted to be brought into engagement with a solid part 10 between the side pieces of the casing when the breech-block is closed, in this particular forming a locking-dog for the breech-block to hold it fast against the breech end of the barrel. To the depending member of the locking-dog is connected an operating-rod 11, which extends through the forward part of the inclosing case and is provided with an enlarged portion 12, having spring-clips 13, that embrace the magazine 14 to serve to hold the rod adjusted. This rod has a sliding movement, and when pushed rearward will elevate the horizontal member of the locking-dog into the recess of the breech-block, and a further movement will slide the breech-block out of the frame to open the same and permit the cartridge to be ejected. The manner of connecting the sliding rod 11 to the locking-dog permits of a play between the parts in order that when the said operating-rod is moved forward a slight rearward movement thereof will not trip the dog. To this end the rod is passed through the depending member of the dog and has rigid collars 15 secured thereto which contact with the said member when the rod is operated. In connection with this locking-dog and mechanism for operating the same to the sliding breech-block I provide a cartridge-

carrier which is also actuated by the dog and comprises an arm 16, having a head 17, through which passes a pivot-pin 18, by which the arm is pivoted within the frame at the rear end of the same. This arm projects forwardly, passing through the slot in the depending member of the locking-dog, having a downward extension 18', which is engaged by the depending arm of the said dog. The head 17 of the arm or lever 16 is extended at each side, presenting shoulders 19, which are engaged by the inner side of the depending portion of the locking-dog and serve to tilt the arm or lever upward, thereby carrying the cartridge on a line with the barrel of the firearm. This tilting operation of the arm or cartridge-carrier takes place when the breech-block is open, owing to the relative position of the head and depending portion of the locking-dog. When the breech-block is closed or locked, the arm or cartridge-carrier is on a line with the lower part of the magazine 14 and receives a cartridge as the dog is operated to retract the breech-block, the cartridges being fed from the magazine in the usual manner. It will be noted that the operation of injecting the cartridge into the barrel is effected by the sliding dog, which not only moves the cartridge into the barrel, but also depresses the carrier in position to receive another cartridge by means of the upper edge of the slotted or apertured portion of the dog coming into contact with the free end of the cartridge-carrier.

From the foregoing it will be apparent that I provide a simple, cheap, and effective mechanism for injecting and ejecting cartridges that consists of comparatively few parts constructed and arranged with a view of being positive in action and effective in holding the breech-block firmly within the frame during the explosion of the cartridge, the operation of ejecting the cartridge and bringing another into place being readily accomplished by any known means, the shell being discharged from the firearm at the right-hand side thereof. The construction and disposition of parts

also contemplate providing for the operation of ejecting and injecting cartridges without necessitating the removal of the firearm from the shoulder.

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

1. In a magazine-firearm, the combination with a sliding breech-block, of a dog pivoted thereto and automatically engaging a stationary part of the firearm when the breech-block is closed, a pivoted arm having an enlarged portion or hub presenting shoulders engaged by the depending member of the dog, and a rod passed through the depending member of said dog and extending beyond the front end of the frame where it is provided with a head having spring-clips, said rod also having rigid collars located on opposite sides of the depending member of the dog, substantially as shown and for the purpose set forth.

2. In a magazine-firearm, the combination with a sliding breech-block and magazine-tube, of a dog pivoted to the breech-block and presenting horizontal and depending members, the depending member being slotted, an arm or cartridge-carrier pivoted within the frame, its forward end extending through the depending member of the dog, the said arm or carrier being located on a line with the magazine-tube when the breech-block is closed, a hub or projection formed on the arm at its pivoted point and presenting a cam or shoulders against which the dog abuts to actuate the arm; together with the sliding rod connected to the depending member of the dog and extending through the frame, substantially as shown and for the purpose set forth.

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

W. E. KING.

Witnesses:

WM. YODER,
C. E. TORRANCE.