

UNITED STATES PATENT OFFICE.

RIMMON C. FAY, OF ILION, NEW YORK, ASSIGNOR TO THE REMINGTON ARMS COMPANY, OF SAME PLACE.

CARTRIDGE-LIFTER FOR MAGAZINE-GUNS.

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To all whom it may concern:

Be it known that I, RIMMON C. FAY, a citizen of the United States, residing at Ilion, county of Herkimer, State of New York, have invented certain new and useful Improvements in Cartridge-Lifters for Magazine-Guns, of which the following is a specification.

My invention relates to improvements in mechanism for actuating the cartridge-carrier and retaining the bolt in magazine-guns of the bolt type.

The object of my invention is to render positive the action of said cartridge-carrier and to provide at the same time means which prevent the dropping out of the bolt accidentally when withdrawn for the purpose of loading the gun, but which permit the removal thereof when desirable.

Referring to the accompanying drawings, which form a part of this specification, Figure I shows the position of my invention when the breech of the gun is closed. Fig. II shows the same when the bolt is withdrawn; and Fig. III shows the device, partly in section, on the line *xx*.

My invention is especially applicable to that class of magazine-bolt guns in which the cartridges are fed one at a time radially to a cartridge-carrier which by its motion up and down receives the cartridge and brings it into position to be forced by the bolt into the barrel of the gun.

C' represents a rearwardly-extending lever pivoted on a lug L', attached to the under side of the barrel of the gun, and it has at its rear end a carrier C, fashioned into the proper shape for receiving a cartridge. A rod B is pivotally connected to the lever C' by means of a notch at L, and the said rod has at its rear end an upwardly-projecting stud O in the line of travel of the bolt A. A spring D, secured at one end to the gun and at its other end to the lever C, tends to elevate the cartridge-lifter C to the position shown in Fig. II; but when the forward end of the bolt A comes into contact with the stud O it is driven forward and the carrier C depressed, as in Fig. I. In some instances the spring D may fail to entirely lift the lever C' when the bolt is withdrawn from engagement from the stud O

through weakening of the spring or by reason of dirt in the gun, and in order to make such action certain and positive I employ a lever E, pivoted to the frame of the gun at G and having a pin G' at its forward end in engagement with a slot in the cartridge-lifter C, while its other end projects upwardly into a recess P, formed in the gun-frame near the rear of the bolt. In this position it will be in the line of travel of the bolt-locking lugs or surfaces F, when the bolt is withdrawn. In Fig. II the bolt is shown withdrawn, the locking devices F having forced the upper end of the lever E backward, thereby lifting the cartridge-carrier C into position to deliver a cartridge to the gun, and as the bolt moves forward to force the cartridge in position it comes into engagement with the stud O, thereby depressing the carrier to receive another cartridge.

By reference to Fig. III the lever E will be seen to have a pin G, which projects therefrom and passes through the frame H and held therein by a spring I.

By pressing upon the projecting thumb-piece J, formed on the pin G, which is capable of longitudinal motion, the spring I is compressed and the lever E moved away from the frame H out of the path of the lug F, thereby allowing the locking devices F on the bolt to pass the upper end of lever E, so that the bolt may be removed entirely from the gun.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. In a magazine bolt gun, the combination of a cartridge carrier pivoted at its forward end, a spring secured thereto for raising it, and a rod pivoted on the gun and connected with the carrier, adapted to be engaged by the bolt for depressing the carrier substantially as shown and described.

2. In a magazine bolt gun, the combination of a cartridge carrier pivoted at its forward end, a rod pivoted to the gun and connected with the carrier, a projection on said rod adapted to be engaged by the bolt for depressing the carrier, and a lever pivoted on the gun and connected with the carrier

adapted to be engaged by the bolt in its backward movement for raising the carrier substantially as and for the purpose set forth.

3. In a magazine bolt gun, the combination
5 of a cartridge carrier pivoted at its forward end, a lever pivoted on the gun and in engagement with and operating the free end of the cartridge carrier, and a projection on the bolt for actuating said lever.

10 4. In a magazine bolt gun, the combination of a bolt, a cartridge carrier, a lever pivoted on the gun and connected with the cartridge carrier for elevating it when actuated by the bolt, and adapted to hold the bolt in the gun,
15 and means in connection with the lever for moving it so as to allow the bolt to be removed from the gun substantially as shown and described.

5. In a magazine bolt gun, the combination of a cartridge carrier, an elevating lever connected to the carrier in the path of the bolt, a spring for retaining the lever in engagement with the bolt, and means for throwing said lever out of said path. 20

6. In a magazine bolt gun, the combination
25 of a rearwardly projecting cartridge carrier pivoted at its forward end, a rod connected therewith and operated by the forward motion of the bolt for depressing said carrier and a lever engaging with said carrier and operated by the rearward motion of the bolt to
30 raise said carrier.

RIMMON C. FAY.

Witnesses:

FRANK N. QUAIFFE,

H. E. BABCOCK.