

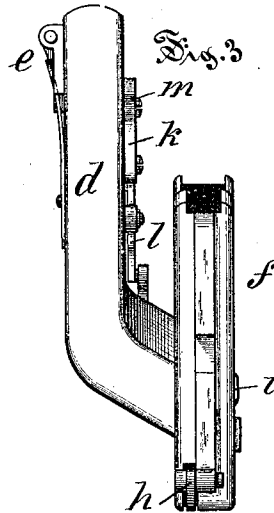
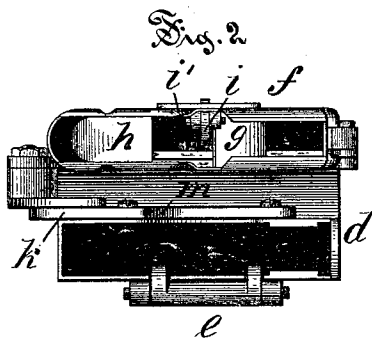
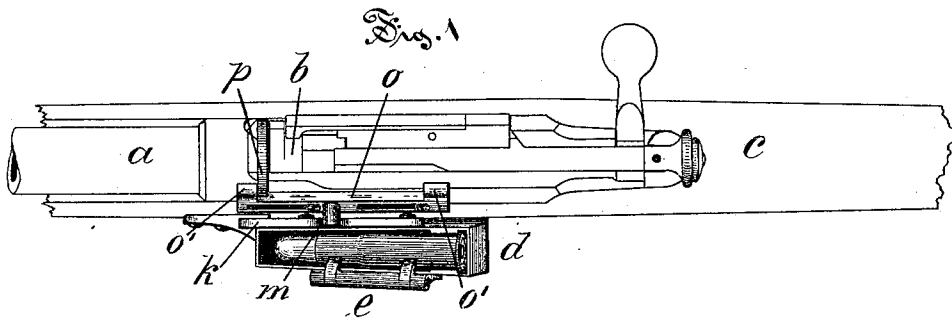
(No Model.)

3 Sheets—Sheet 1.

G. V. FOSBERY.
MAGAZINE GUN.

No. 356,311.

Patented Jan. 18, 1887.



Witnesses:

W. M. Yorkman
E. P. Pelton.

Inventor:

George Vincent Fosbery
By Simonds & Burdett
Attys

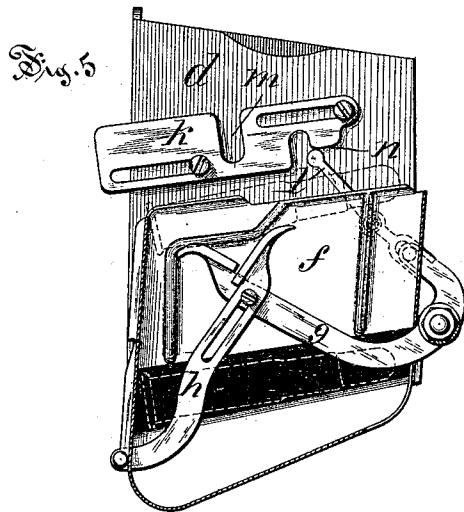
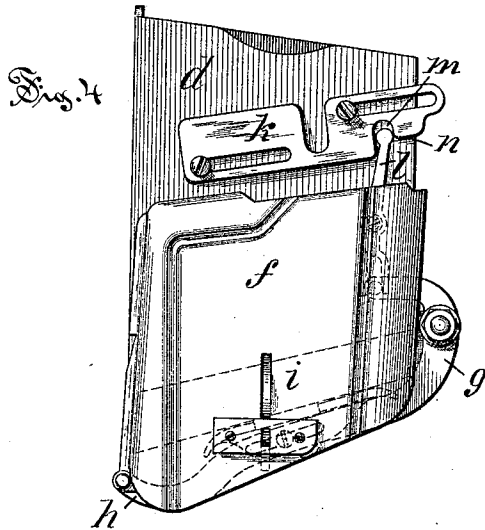
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G. V. FOSBERY.
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(No Model.)

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Fig. 6

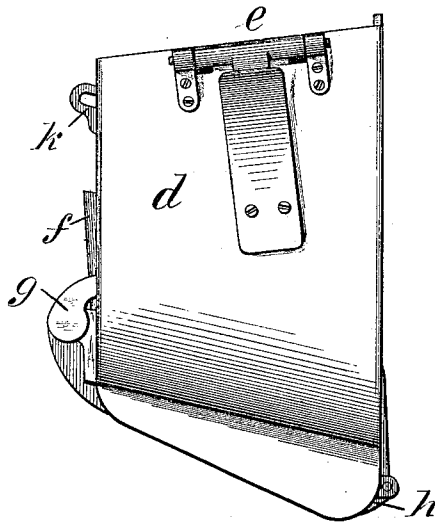
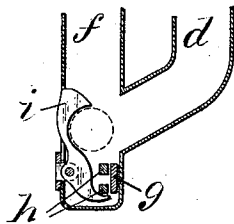


Fig. 7



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UNITED STATES PATENT OFFICE.

GEORGE VINCENT FOSBERY, OF WESTON-SUPER-MARE, COUNTY OF SOMERSET, ENGLAND.

MAGAZINE-GUN.

SPECIFICATION forming part of Letters Patent No. 356,311, dated January 18, 1887.

Application filed April 12, 1886. Serial No. 198,535. (No model.) Patented in England July 20, 1885.

To all whom it may concern:

Be it known that I, GEORGE VINCENT FOSBERY, of Weston-Super-Mare, in the county of Somerset, England, have invented a certain new and useful Improvement pertaining to Fire-Arms, of which the following is a description, reference being had to the accompanying drawings, where—

Figure 1 is a top view of a portion of a gun with said improvement applied thereto. Fig. 2 is a top view of a loading attachment detached from the gun. Fig. 3 is a rear view of said loading attachment. Fig. 4 is a side view of said loading attachment from the right side, showing the parts in the position of "rest," that is, before operating. Fig. 5 is a view similar to Fig. 4, with the right side of the elevator-chute represented as broken away, so as to show the cartridge-elevating levers, with the position of parts as they are when the breech-closer is drawn back. Fig. 6 is a side view of said loading attachment from the left side. Fig. 7 is a view in vertical cross section of a portion of the lower part of the elevator-chute, the object whereof is to show the hook which keeps a cartridge lying on the elevator-levers from escaping upward accidentally.

This improvement is described herein as applied to a gun intended to be held at the shoulder, which is the usual intended application of this improvement.

The gun represented in Fig. 1 is a so-called "Lee" gun.

My improvement consists in an attachment, separable or otherwise, for containing the cartridges before they are loaded into the gun, and means for bringing the cartridge into the path of the longitudinally-reciprocating breech-closer, when such a breech-closer is used.

The letter *a* denotes a breech-loading gun-barrel.

The letter *b* denotes the longitudinally-reciprocating breech-closer of a so-called "Lee" gun.

The letter *c* denotes the gun-stock.

The letter *d* denotes what I will term the "gravity-magazine," for the reason that the cartridges being put in at the top thereof descend or fall to the bottom thereof by gravity. The body of the gravity-magazine may itself be telescopic, so as, when opened out, to contain within reasonable limits any desired number

of cartridges, and when shut together may occupy very much less space. The top of this gravity-magazine may be covered or closed, if desired, by a cover of any suitable kind or shape.

The letter *e* denotes, as a whole, a spring-latch, which will readily give way to permit cartridges to be inserted into the gravity-magazine, but will not permit them to escape. This gravity-magazine is connected at the bottom with the elevator-chute *f*. It is to be understood that as the cartridges feed downward by gravity in the magazine they, one by one, escape into the elevator-chute. A cartridge escaping from the gravity-magazine into the elevator-chute is deposited upon the elevating-levers *g h*, which at the proper time operate to raise the cartridge to the top of the elevator-chute, so as to be within the path of the breech-closer, and be by the breech-closer thrown into the barrel in the operation of closing the breech.

As a cartridge comes from the gravity-magazine to be deposited upon the elevating-levers it is held from accidentally escaping upward by the hook *i*, which is, in effect, a pivoted lever, held into the position shown in Fig. 7 by the contact of its lower part with the lever *h*. The moment this lever starts upward for the purpose of elevating a cartridge it of course releases this hook, so that it no longer prevents the cartridge from rising. These two elevating-levers *g* and *h* are, for the most part, located inside the elevator-chute. The lever *h* is carried upward in the elevating operation by a pin, *j*. The lever *g* is operated from the reciprocating slide *k* through the medium of the intermediate lever, *l*. For this purpose the slide *k* contains the slot *m*. As the slide reaches the backward limit of its reciprocating play the head of the intermediate lever, *l*, comes out of the slot and in contact with the locking-surface *n*, whereby the elevating-levers are held temporarily locked at the upper limit of their vertical play until the slide *k* is again moved forward. The reciprocating movements of the slide *k* are given from the breech-closer *b*, which carries for that purpose a laterally-projecting finger, *p*, co-operating with the lugs *o* on the intermediate slide, *o*, which has a stud on its side projecting into a slot made for that purpose in the

slide *k*. With a gun suitably built and adapted for that purpose, studs like to lugs *o'* can be located directly on the slide *k*, and the finger *p*, or its equivalent, can be made to co-operate directly with such lugs, thereby dispensing with the intermediate slide, *o*. As the breech-closer *b* is drawn back in opening the breech of the gun, it at the set and proper time causes the slide *k* to move backward, and this in turn, through the medium of the intermediate lever, *l*, causes the elevating-levers to rise, carrying a cartridge to the top of the elevator-chute, where it is in the path of the breech-closer *b*, when it is again moved forward to close the breech of the gun. As the breech-closer thus moves forward to close the breech of the gun it at the set and proper time causes the slide *k* to move forward, which in turn causes the elevating-levers to again fall, when they again receive a fresh cartridge, by gravity, from the gravity-magazine, and so on indefinitely.

I shall not attempt herein to specify all the advantages arising from the use of such a loading attachment as is herein described, but will refer to one or two of such advantages. By locating the gravity-magazine at the side of the gun I get sufficient length or height of such magazine to contain a fair number of cartridges—say eight. At the same time the top of the magazine does not extend to an inconvenient degree above the top of the gun, as it would if such a gravity-magazine were located wholly above the axis of the barrel. It is further to be observed that it is, in the ordinary use of an arm provided with this improvement, intended that the user shall insert a fresh cartridge in the magazine each time that he discharges a cartridge, with the resulting advantage that if the user finds himself in a sudden exigency where it is required to use two or more cartridges with great suddenness and rapidity, they are at hand, ready for that rapid use, leaving the replenishment of the magazine to such a moment as is more convenient. Moreover, the user of the gun can at all times and by a single glance satisfy himself as to the number of cartridges he has in reserve. The advantage of having a positive feed for the cartridges, in place of one in the nature of a spring, is readily obvious.

As I prefer to construct this improvement, the gravity-magazine and the elevator-chute, with the appurtenant parts, are detachable from the gun proper, the gun being properly mortised for the upward passage through it of the elevator-chute; but of course a gun can be readily so constructed that all these parts are built permanently into it. In applying this improvement, where it is not desirable to provide such a central mortise for the upward passage of the elevator-chute, the gravity-magazine can be located upon one side of the gun and the elevator-chute upon the other side of the gun, the cartridges in such case, after having been elevated to the top of the elevator-chute, being fed out laterally into line with the

barrel. It will be further observed that the elevating-levers in their operation play back and forth in front of the orifice by which the gravity-magazine communicates with the elevator-chute, so that cartridges are prevented from entering the elevator-chute from the gravity-magazine when the levers are raised.

I claim as my improvement—

1. The combination, with the reciprocating breech-closer of a fire-arm having a projecting finger, of a cartridge-magazine formed with a receiving-chamber, *d*, and a delivering chamber or chute, *f*, said chambers opening into each other at the lower part, levers *g h*, arranged in the delivering-chamber to receive the cartridge from the receiving-chamber and carry it to the cartridge-receiver in the fire-arm, and a sliding latch, *k*, having engagement with the projecting finger of the breech-closer and said levers, whereby the said levers are raised and lowered and a cartridge resting thereon delivered to the chamber of the arm, substantially as described.

2. The combination, with the cartridge-receiver and the reciprocating breech-closer of a fire-arm, of a cartridge-magazine composed of a receiving-chamber, *d*, and a delivering chamber or chute, *f*, arranged side by side and having an opening between them at their lower part, a pivoted hook, *i*, in the delivery-chamber to hold the cartridge, levers *g h*, arranged in the delivering-chamber to receive the cartridge from the receiving-chamber and carry it to the cartridge-receiver in the fire-arm, and a sliding latch, *k*, having engagement with the reciprocating breech-closer and said levers, whereby said levers are raised and lowered and a cartridge resting thereon delivered to the chamber of the arm, substantially as described.

3. The combination, with a cartridge-receiver of a fire-arm, the reciprocating breech-closer thereof formed with a projecting finger, *p*, and a cartridge-magazine opening into said receiver, of vertically-reciprocating levers *g h*, arranged in said cartridge-magazine to receive the cartridge from the receiving-chamber and carry it to the cartridge-receiver of the fire-arm, and a slide, *k*, having connection with said levers and breech-closer, whereby the levers are raised and lowered and a cartridge resting thereon delivered to the chamber of the arm, substantially as described.

4. The combination, with a cartridge-magazine and the levers arranged therein to carry the cartridge to the cartridge-receiver of the fire-arm, of a hook, *i*, pivoted in the lower part of the magazine to hold a cartridge therein, said hook being held in contact with a cartridge and released therefrom by the movement of the cartridge carrying levers in the magazine, substantially as described.

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Witnesses:

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A. C. TANNER.