

1,245,499.

Patented Nov. 6, 1917.

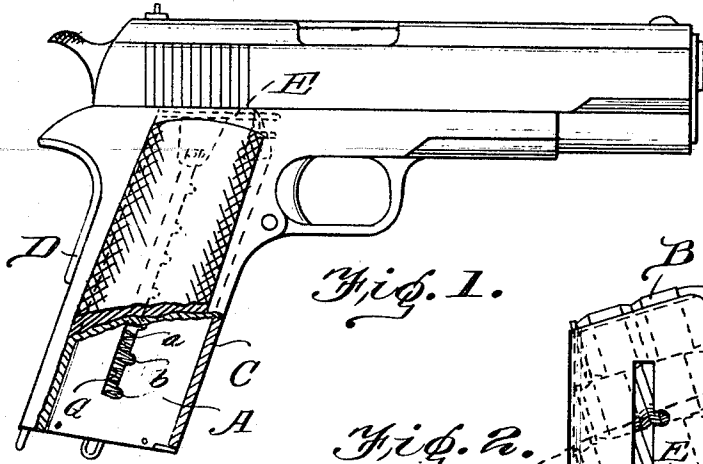


Fig. 1.

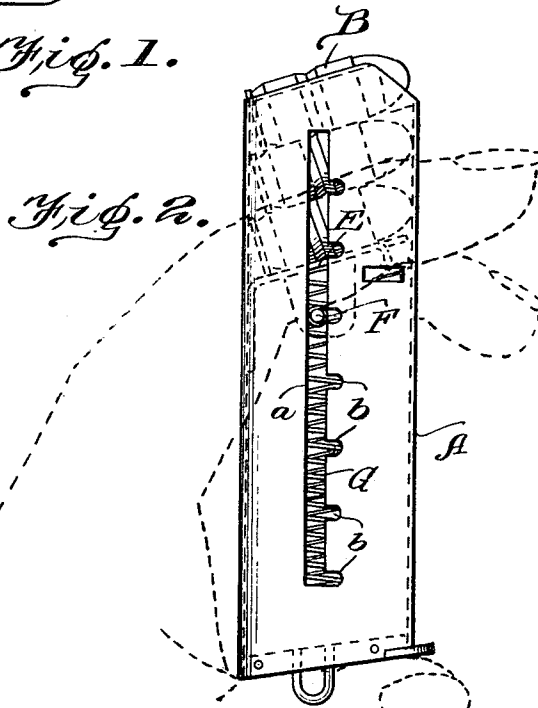


Fig. 2.

Fig. 3.

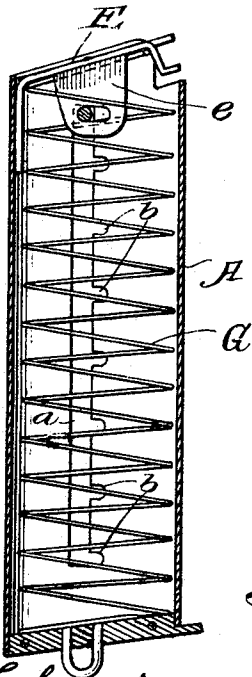


Fig. 4.

Fig. 5.

Inventor.

Gardner P. Orme

A. A. Lybrand
R. M. Smith.

By *Gardner P. Orme*
Attorney.

UNITED STATES PATENT OFFICE.

GARDNER P. ORME, OF WASHINGTON, DISTRICT OF COLUMBIA.

FIREARM-MAGAZINE.

1,245,499.

Specification of Letters Patent.

Patented Nov. 6, 1917.

Application filed March 16, 1917. Serial No. 155,215.

To all whom it may concern:

Be it known that I, GARDNER P. ORME, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Firearm-Magazines, of which the following is a specification.

This invention relates to fire arm magazines and the object in view is to provide in connection with a fire arm magazine, means for facilitating the recharging of the magazine with cartridges.

With the ordinary construction of fire arm magazines, it is a difficult and oftentimes practically impossible matter to reload the magazine, this being especially true in extremely cold weather when the fingers are numb and temporarily incapable of forcing the cartridge into the magazine in accordance with the present practice.

The particular object of the invention is to provide means capable of practical use in cold weather for compressing the follower spring in the magazine to enable the cartridges to be inserted in the magazine one after the other with the greatest possible ease.

A further object in view is to provide means whereby the follower may be temporarily locked at intervals in the movement thereof for the purpose of temporarily relieving the strain on the fingers of the operator. The spring compressing means also comprises a finger grip in the form of a pin, and this pin is made removable so that it does not interfere in any way with the removal of the magazine from the grip of the gun nor the reinsertion of the magazine therein.

With the above and other objects in view, the invention consists in the novel construction, combination and arrangement of parts, herein fully described, illustrated and claimed.

In the accompanying drawings:—

Figure 1 is a side elevation partly broken away, of a fire arm, illustrating the present invention in its applied relation thereto.

Figure 2 is a side elevation of the magazine removed, illustrating by dotted lines the method of compressing the magazine spring.

Figure 3 is a longitudinal section through the magazine.

Fig. 4 is an inverted perspective view of the follower. 55

Fig. 5 is a fragmentary cross section taken in line with the follower depressing pin.

The magazine A, in the general formation thereof, is similar to the magazine now in common use, the same being of suitable length to accommodate the desired number of cartridges B, the latter being insertible in the normally upper end of the magazine. The magazine is insertible in and removable from a magazine chamber C formed in the grip D of the fire arm as indicated in Fig. 1, any usual or preferred means being employed for locking the magazine in the grip D and unlocking the same to admit of the removal of the magazine. 70

In carrying out the present invention, the magazine is formed in the opposite side walls thereof with longitudinal slots *a* and in the preferred embodiment of the invention, each slot *a* is formed at intervals in the length thereof with lateral extensions or notches *b* the purpose of which will hereinafter appear. 75

The follower E which is slidable longitudinally within the magazine A is provided on the lower side thereof with a downwardly extending lug *e* formed with a transversely elongated slot *e'*. F designates a hand grip shown in the form of a pin for compressing the follower spring G, said pin being insertible through the slots *a* of the magazine and also through the slot or transversely elongated opening *e'* in the lug *e* as shown in Fig. 5. The pin F is preferably pointed at one end as shown at *f* to facilitate inserting the same through the side walls of the magazine and through the lug *e* and said pin is also preferably formed with a stop shoulder *f'* which bears against the face of the magazine A when the pin is fully inserted in place, said shoulder serving to properly position the pin F in order that the opposite end portions of said pin may project equally from both sides of the magazine, thereby providing efficient gripping portions for the fingers of the hand as illustrated in Fig. 2. 80 85 90 95 100

When the magazine is empty, it is first removed from the grip D and at such time, the follower E is at the top or cartridge receiving end of the magazine. The pin F 105

is then inserted through the opening e' in the lug e of the follower E, said pin also passing through both of the slots a . The magazine is then gripped in the hand as indicated in Fig. 2, preferably with the thumb supporting the lower end of the magazine and the index and second fingers engaged over the projecting end portions of the spring compressing and follower depressing pin F. Now by a closing movement of the hand, the pin F is caused to travel lengthwise of the slots a , carrying with it the follower E and compressing the follower spring G. During this movement the cartridges are inserted in the receiving end of the magazine. This movement is continued until the magazine is filled with cartridges. At any time however, the operator may thrust the pin F laterally into engagement with any desired notch b and thereby temporarily lock or latch the follower, thus enabling the tension on the fingers to be relieved. The operation may then be continued at the convenience of the person charging the magazine, and after the magazine has been filled with cartridges, the pin f is removed. After this there is no projection on either side of the magazine and the latter may be reinserted in the usual way in the magazine chamber C of the grip D.

The invention herein shown and described is particularly useful in extremely cold weather, when it is practically impossible, with the magazines now in use, to compress the magazine spring and insert the cartridges therein. The pin F forms an efficient grip for the fingers and enables the magazine spring to be compressed with comfort and with safety. The fire arm may be provided at any suitable place with a recess or pocket to receive and hold the pin F when the latter is not in use. The housing of the pin F may be left to the will and convenience of the manufacturer. The magazine may also be loaded more quickly and with less exertion than the ordinary magazine.

I claim:—

1. A fire arm magazine formed with slots extending longitudinally of the opposite side walls thereof, a spring pressed follower movable within said magazine, and a detachable follower spring compressing member adapted to be inserted through said slots and to engage a part of said follower and being further adapted to be moved longitudinally of said slots carrying with it said follower, said spring compressing member being of such length as to provide finger

gripping portions which project beyond the side walls of the magazine when in its working position.

2. A fire arm magazine formed in the opposite walls thereof with longitudinal slots and notches intersecting said slots at intervals and disposed along one side of the slots, a follower movable longitudinally within said magazine, a follower spring, a lug extending from the underside of said follower and formed with an opening elongated transversely of the slots in the magazine, and a follower depressing member adapted for removable insertion through the opening in said lug and for movement longitudinally and laterally of the slots of the magazine, whereby said follower depressing member may be moved into engagement with any one of said notches, said spring depressing member being of such length as to provide finger gripping portions which project beyond the side walls of the magazine when in its working position.

3. A fire arm magazine formed with slots extending longitudinally of the opposite side walls thereof, a spring pressed follower movable within said magazine, and a detachable follower spring compressing member adapted to be inserted through said slots and to engage a part of said follower and being further adapted to be moved longitudinally of said slots carrying with it said follower, said spring compressing member being of such length as to provide finger gripping portions which project beyond the side walls of the magazine when in its working position, and also having a positioning shoulder for limiting the extent of its insertion.

4. The combination of a fire arm having a magazine chamber, a magazine removably inserted in said chamber and formed with slots extending longitudinally of the opposite side walls thereof, a spring pressed follower movable longitudinally within said magazine, and a follower depressing pin adapted to be removably inserted through a part of said follower and through the slotted side walls of the magazine, said pin being of suitable length to provide finger gripping portions which project beyond the opposite side walls of the magazine when in its working position.

In testimony whereof I affix my signature in the presence of two witnesses.

GARDNER P. ORME.

Witnesses:

BENNETT S. JONES,
DOROTHY A. BURCH.