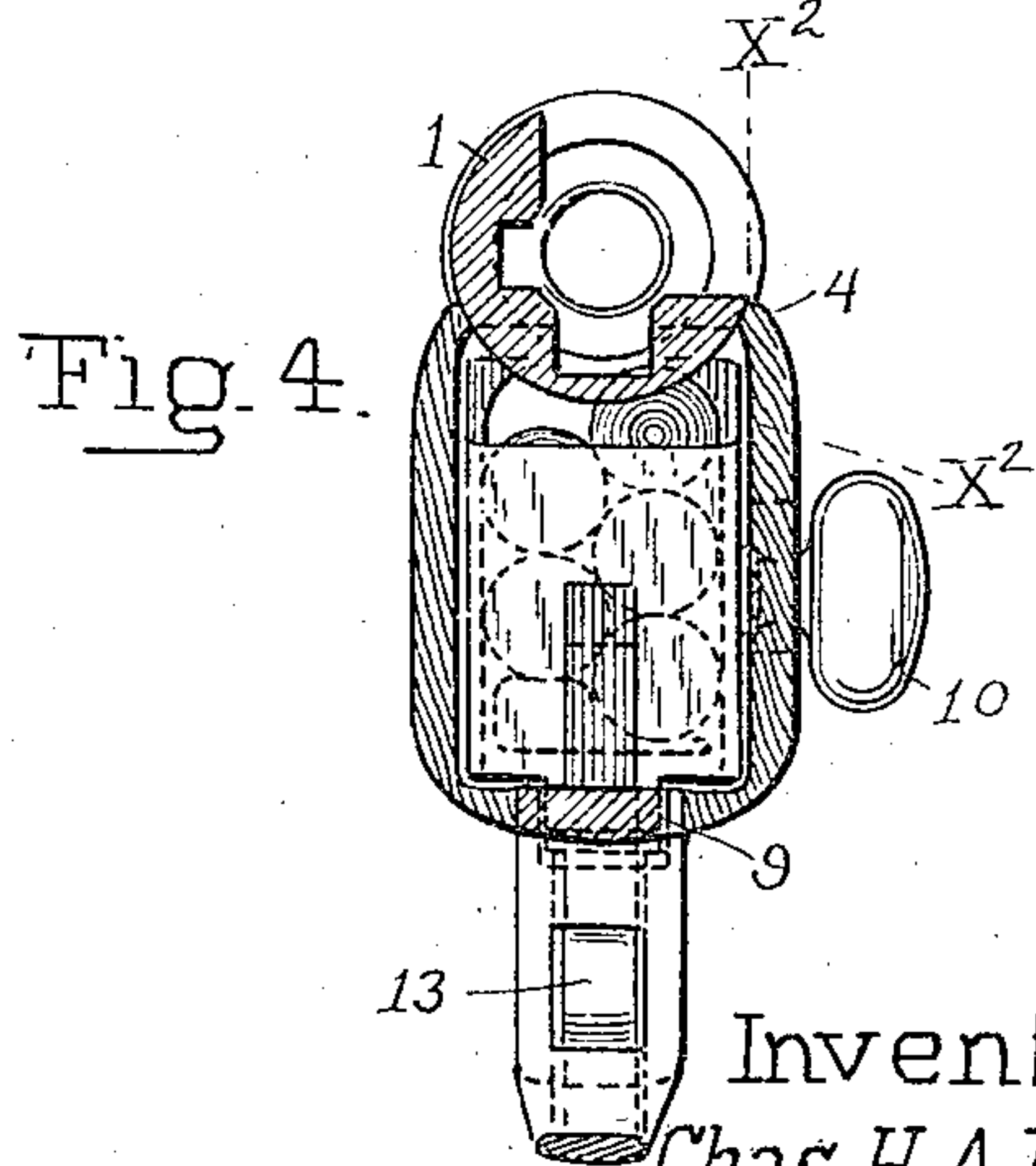
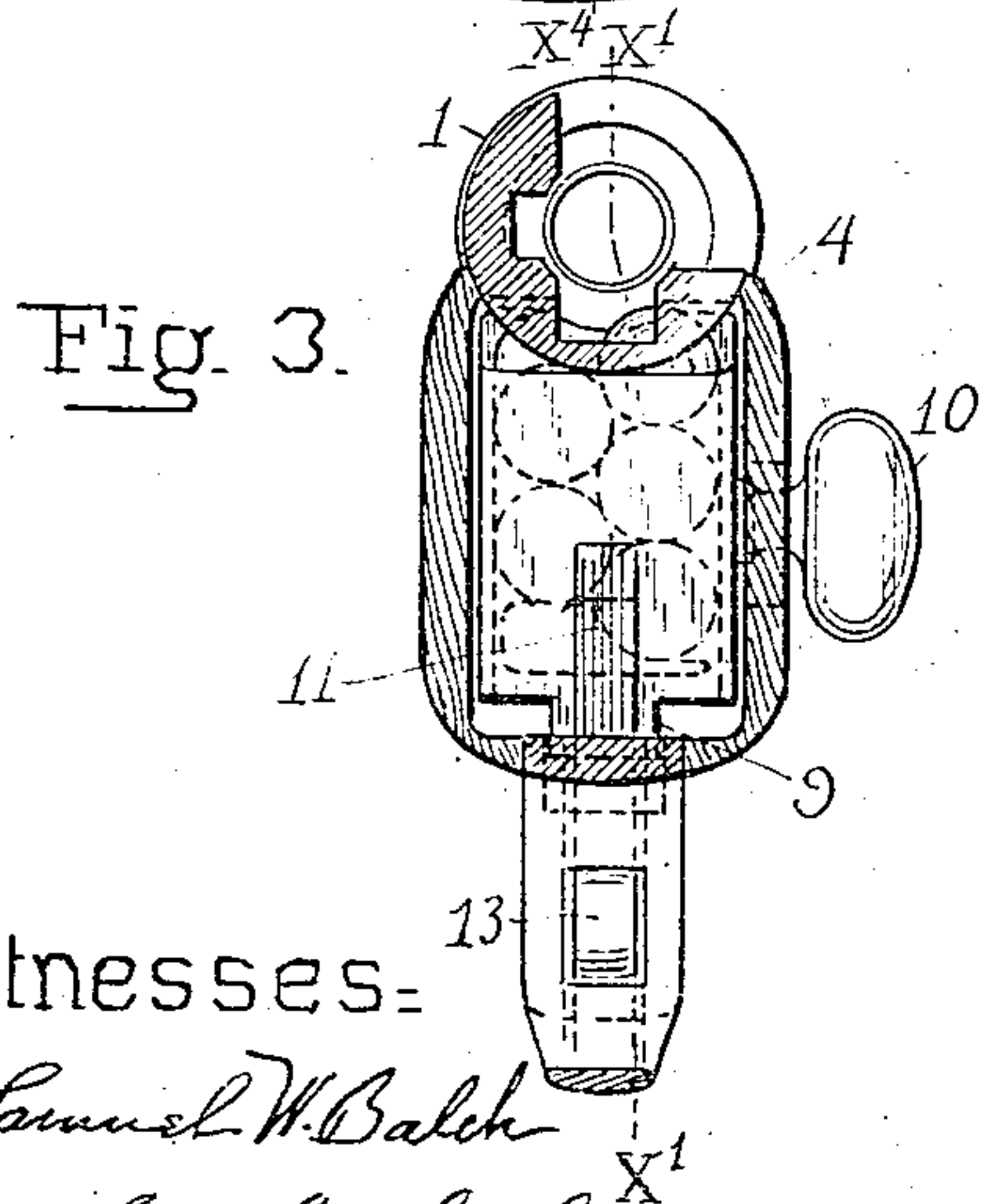
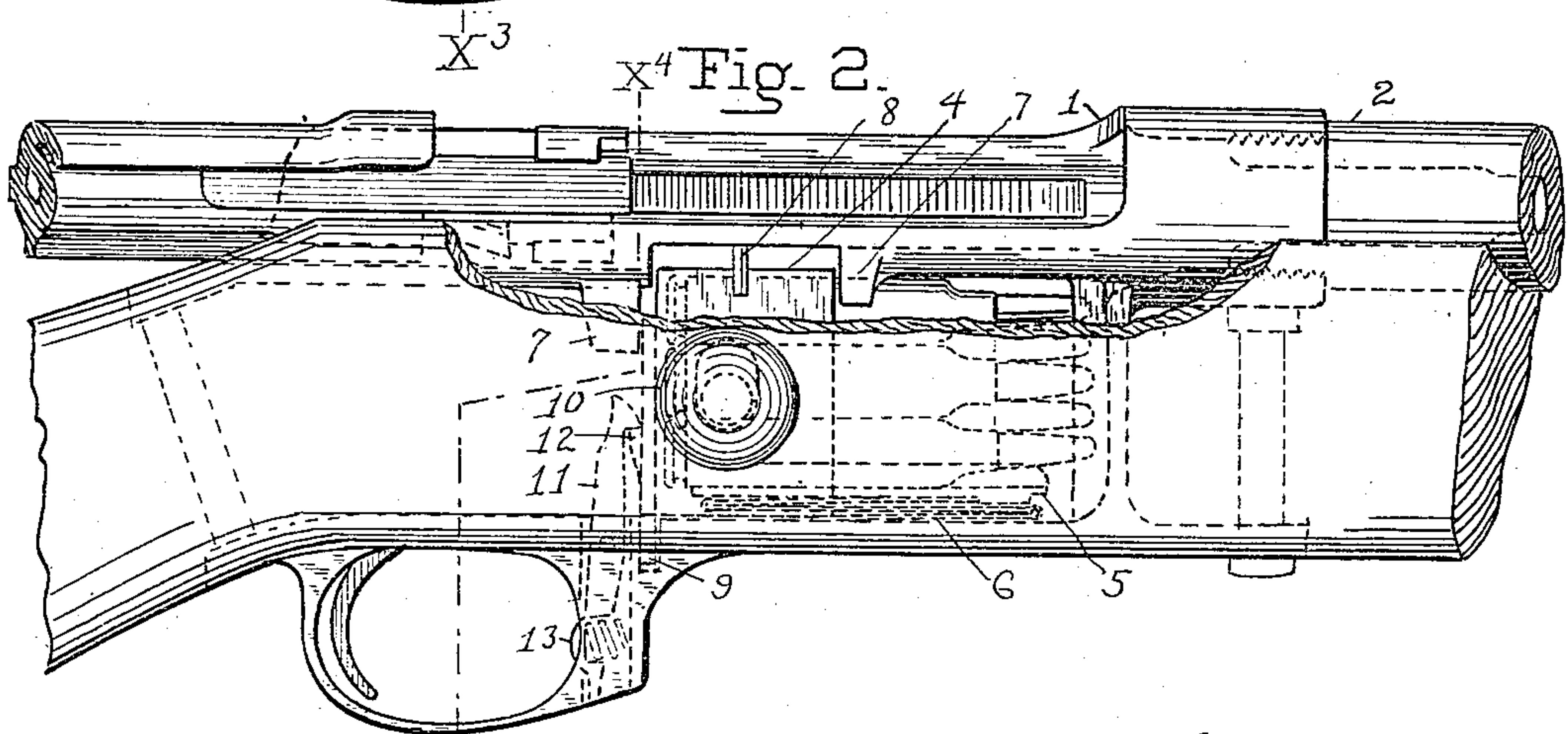
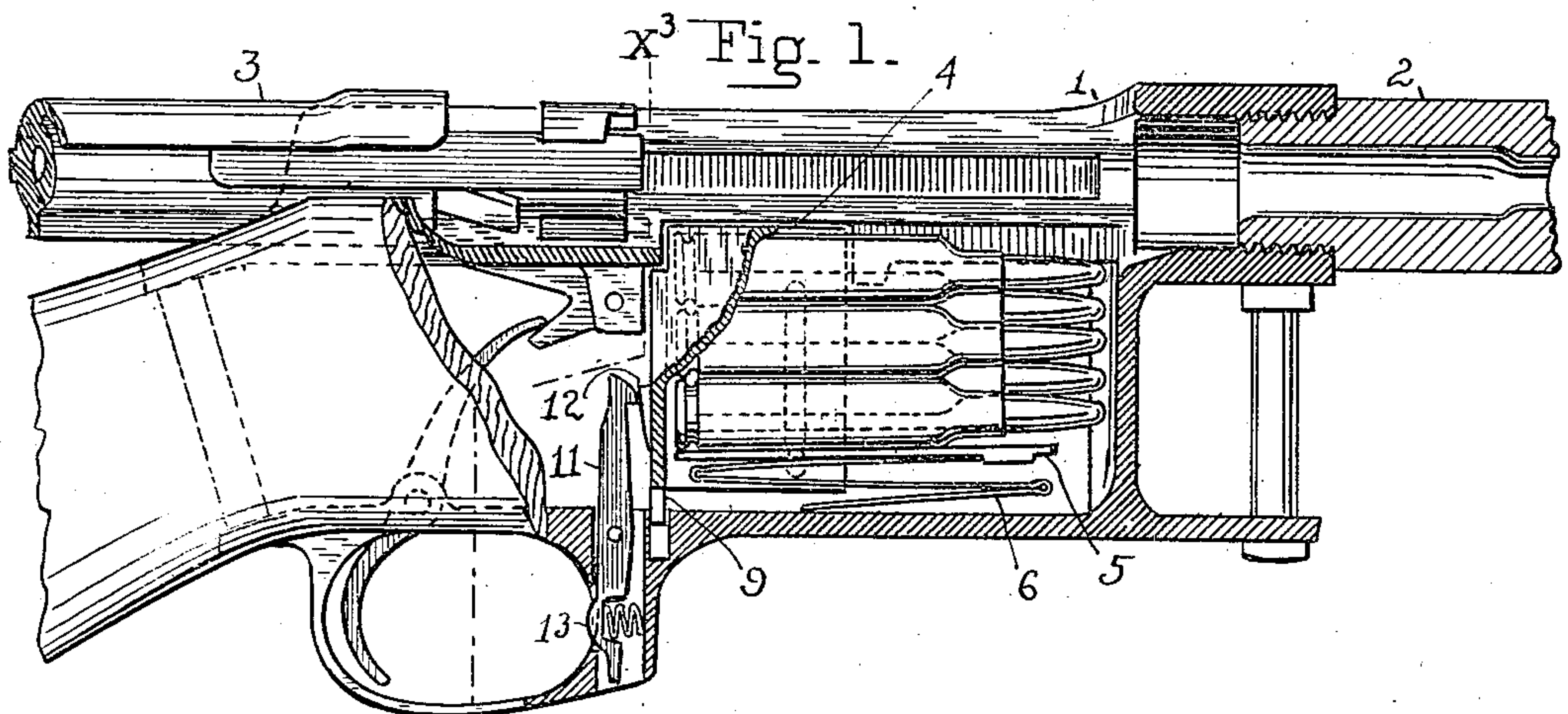


No. 747,777.

PATENTED DEC. 22, 1903.

C. H. A. F. L. ROSS.  
MAGAZINE FOR FIREARMS.  
APPLICATION FILED MAR. 4, 1902.

NO MODEL.



Witnesses:

Samuel W. Balch  
Geo. L. Wheelock

Inventor,

Chas. H. A. F. L. Ross

by Thomas Wenzel  
Attorney.



# UNITED STATES PATENT OFFICE.

CHARLES H. A. F. L. ROSS, OF BALNAGOWAN CASTLE, ROSS-SHIRE, SCOTLAND.

## MAGAZINE FOR FIREARMS.

SPECIFICATION forming part of Letters Patent No. 747,777, dated December 22, 1903.

Application filed March 4, 1902. Serial No. 96,603. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES H. A. F. L. ROSS, a subject of the King of Great Britain, and a resident of Balnagowan Castle, Ross-Shire, Scotland, have invented new and useful Improvements in Magazine-Firearms, of which the following is a specification.

This invention is applicable to various forms of bolt and machine guns.

It relates particularly to the construction of the magazine, wherein a supply of cartridges is stored and from which they are fed to the gun, and in a device employed in conjunction therewith by which the magazine can be latched out of action and the cartridges therein held in reserve while the gun is loaded singly.

The invention is illustrated in conjunction with the form of bolt-gun breech mechanism which is patented to me in my United States Letters Patent No. 643,984, issued to me February 20, 1900, entitled "Improvements in magazine bolt-guns."

In the accompanying sheet of drawings, Figure 1 shows a side view, broken away on the line X' X' of Fig. 3, of a portion of the breech of a firearm including the magazine and showing the parts in position for feeding cartridges from the magazine. Fig. 2 is a side view, broken away on the line X<sup>2</sup> X<sup>2</sup> of Fig. 4, of the same parts and showing the magazine cut-off and the cartridges therein held in reserve while the gun is loaded singly before each discharge. Fig. 3 is a transverse section on the line X<sup>3</sup> X<sup>3</sup> of Fig. 1, showing the parts in position for magazine feed. Fig. 4 is a transverse section on the line X<sup>4</sup> X<sup>4</sup> of Fig. 2, showing the magazine cut-off.

The receiver 1 of the gun is a hollow forging, and the gun-barrel 2 is threaded to its forward end. It is provided with suitable guideways and locking-shoulders for the breech-bolt 3, which may be of any desired construction. There is a passage-way through the underside of the receiver, through which each cartridge as it is fed from the magazine can pass from the magazine into the breech-chamber in the receiver, when it will be engaged by the breech-bolt and pushed into place and locked for firing when the breech-bolt is driven forward. The receiver has a

passage-way in the upper side, through which cartridges can be inserted singly before each firing, when the magazine is empty or the feed therefrom is cut off. In the form illustrated the magazine is loaded by inserting the cartridges through the receiver. The magazine has a rear wall and two side walls which extend forward sufficiently to hold the cartridges in position, in conjunction with inwardly-projecting lips 4 along the inner upper edges of the side walls, and a follower 5, which is pressed upwardly against the cartridges in the magazine by a spring 6 bearing on the framework of the gun. The uppermost cartridge in the magazine rests against the inwardly-projecting lip on one side of the magazine. When the parts are in a position for feeding from the magazine, the rear end of this uppermost cartridge will be partially in the path of the breech-bolt, and when the breech-bolt is driven forward this cartridge will also be driven forward, the forward end will enter the chamber of the gun, and when it has been driven forward sufficiently to be free from the lips by which it was held down in the magazine against the upward pressure of the spring it will rise fully into the receiver and in line with the bolt and gun-barrel.

The magazine is of sufficient width between its side walls to hold two rows of cartridges, the rows being staggered with respect to each other, so that the cartridges in the two rows will be alternately brought into engagement with a lip on one or the other side of the magazine and into position to be driven forward and out of the magazine by the breech-bolt.

That part of the magazine which carries the inwardly-projecting lips is guided from the framework of the receiver by lugs 7, pins 8, and a mortise which receives a downwardly-projecting tongue 9 on the magazine. The magazine has a limited vertical movement between two positions. Its upper position is shown in Figs. 1 and 3, and in this position the cartridge immediately under the inwardly-projecting lip is partially within the receiver and in the path of the breech-bolt, so that it will be fed from the magazine into the breech end of the gun when the breech-



bolt is driven forward. The upward pressure of the spring against the follower which is transmitted through the cartridge to the inwardly-projecting lips normally holds the magazine in this position.

The lower position of the magazine is shown in Figs. 2 and 4. In this position the cartridge immediately under the inwardly-projecting lip is below the path of the breech-bolt in the receiver, and the cartridges will not be fed from the magazine when it is in this position. The magazine is brought from the position of Figs. 1 and 3 to this position, in which the magazine-feed is cut off by pressing downward on a knob 10 on the side of the frame. The stem of this knob passes through the stock and is attached to the magazine. When brought to this lowered position, a latch 11 engages a catch 12 on the rear wall of the magazine and retains it. This latch is pivoted to the trigger-guard, and a knob 13 thereon projects within the trigger-guard. By pressing against this latch the magazine is released, and it will rise into position for feeding from the magazine. I do not limit myself, however, to the form of magazine which is illustrated, for it can be readily adapted to magazines in which the cartridges are in a single row and to detachable magazines by providing means for latching the magazine in both positions.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

The combination with a receiver and a breech-bolt therefor, of a magazine with side walls which is guided in the frame and has a limited movement toward and from the receiver-chamber, inwardly-projecting lips at the upper edges of the side walls, a knob for withdrawing the magazine to its position away from the receiver-chamber, a latch for retaining the magazine in this latter position, and a spring-pressed follower bearing on the frame by which the cartridges in the magazine are pressed against the inwardly-projecting lips of the side walls of the magazine and the magazine is thrust toward the receiver-chamber upon the release of the latch, the walls of the magazine being outside the path of the breech-bolt in both positions, and the cartridge immediately adjoining the lips in the path of the breech-bolt in the position of the magazine toward the receiver-chamber, and outside the path of the breech-bolt in the position away from the receiver-chamber, substantially as described.

Signed at Hartford, Connecticut, this 28th day of February, 1902.

CHARLES H. A. F. L. ROSS.

Witnesses:

JOSEPH A. BENNETT,  
HOWARD G. BESTOR.