L. W. HILGENDORF.

CARTRIDGE MAGAZINE.

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1,227,439.

Patented May 22, 1917.

Fig. 1.

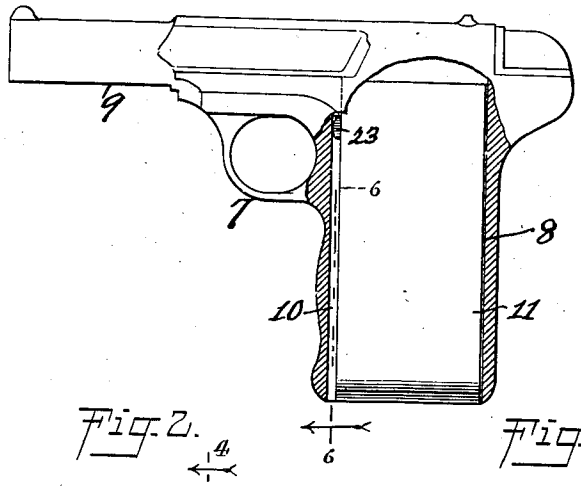


Fig. 2.

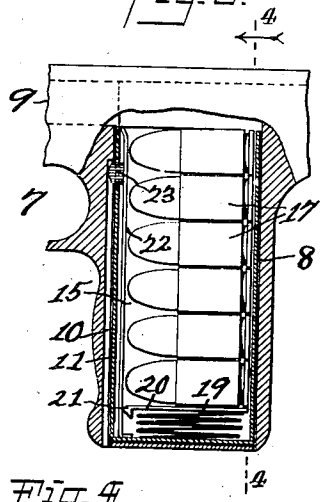


Fig. 3.

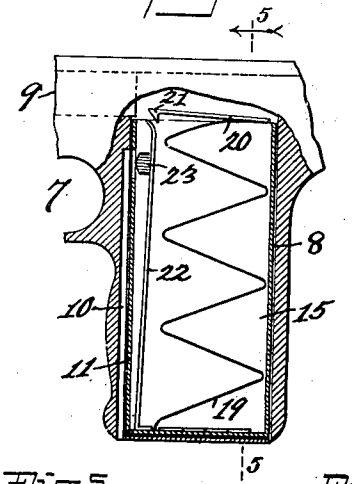


Fig. 4.

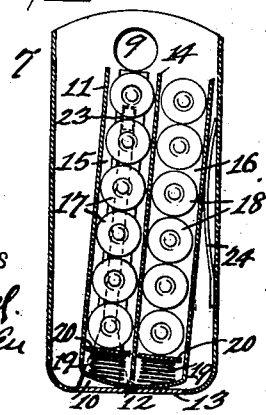


Fig. 5.

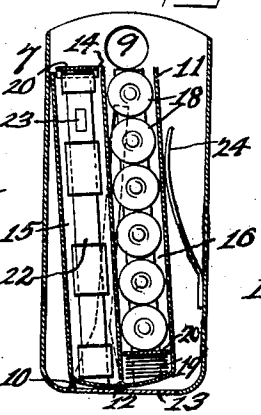
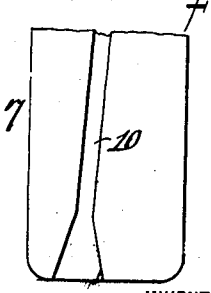


Fig. 6.



WITNESSES

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CARTRIDGE-MAGAZINE.

1,227,439. Specification of Letters Patent. Patented May 22, 1917.

Application filed January 4, 1917. Serial No. 140,530.

To all whom it may concern:

Be it known that I, LOUIS WESLEY HILGENDORF, a citizen of the United States, and a resident of Fountain, in the county of El Paso and State of Colorado, have invented certain new and useful Improvements in Cartridge-Magazines, of which the following is a specification.

My invention relates to firearms, of the repeater type, and the main object thereof is to double the magazine capacity and to provide simple though efficient means for instantly and automatically throwing an exhausted portion of the magazine out of operative position and moving the unused stack of cartridges into operative position.

My invention is fully described in the following specification, of which the accompanying drawings form a part, in which like characters refer to like parts in each of the views, and in which:—

Figure 1 is a side elevation of a firearm, partly in section, provided with my invention;

Fig. 2 is a similar view with the cartridge magazine shown in section;

Fig. 3 is a view similar to Fg. 2 but showing the cartridges shown in Fig. 2 as all ejected to permit the magazine movement to bring the other cartridge stack into operative position;

Fig. 4 is a section taken on the line 4—4 of Fig. 2, showing the initial cartridge stack in operative position;

Fig. 5 is a section taken on the line 5—5 of Fig. 3, showing the second cartridge stack in operative position; and

Fig. 6 is a fragmentary interior view of the firearm, as on the line 6—6 of Fig. 1.

Referring to the drawings, 7 represents a firearm having a magazine receiving space 8 and a barrel 9, no effort having been made to illustrate the firing mechanism, nor the ejecting mechanism, as they form no part of my invention, but attention is drawn to an inclined groove 10 at the forward portion of the space 8 cut into the frame of the firearm.

Vertically slidable upwardly into the space 8 is a magazine 11 pivoted at 12 to a base plate 13 and having a central partition 14 forming two compartments 15 and 16 for separate stacks 17 and 18 of cartridges, each stack being moved upwardly by means of a spring 19 and follower 20 the latter of which has an inclined free end 21 adapted, when forced downwardly by the introduction of the cartridges in the compartment 15, to force a spring bar 22 forwardly of said compartment whereby a button 23 thereon is forced outwardly through a suitable opening in the front wall of said compartment, the cartridges in said compartment preventing rearward movement of said spring bar 22.

When the magazine is introduced into the space 8 the forwardly forced button 23 enters the inclined groove 10 and rocks the magazine upon its pivot 12 against the action of a spring 24 into the position shown in Fig. 4, whereby the upper cartridge in the stack 17 is in line for movement into firing position and subsequent ejection, all of the cartridges in this stack being successively discharged and ejected in the usual way and, when the compartment 15 is entirely empty of cartridges, there is nothing to prevent retraction of the spring bar 22 to draw the button 23 out of the groove 10 in which it had rested hitherto.

Upon such retraction of the button 23, the spring 24 forces the magazine into the position shown in Fig. 5 to present the cartridges in the stack 18 successively to the firing and ejecting mechanisms and, upon the exhausting of this stack, the magazine may be withdrawn from the firearm and refilled, it being noted that the button 23 is positively moved into groove engaging position as long as there is one, or more, cartridges in the compartment 15 and is positively retracted when this compartment is emptied, the action of said button thus being entirely under the control of the cartridges in the compartment 15.

My invention is very simple and, with the mere addition of the groove 10 to the firearm, is readily adapted to arms of different types and makes, and I reserve the right to make such structural changes over the form shown and described as properly come within the spirit of my invention and within the scope of the appended claims.

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

1. In a firearm having a magazine receiving space and a groove at one end of said space; a magazine divided into a plurality of cartridge compartments, a pivotal mount therefor, means engaged in said groove for bringing one of said compartments into car-

tridge feeding position, and automatic means operable upon the exhaustion of said last named compartment for bringing the other compartment into cartridge feeding position.

2. In a firearm having a magazine receiving space and a groove at one end of said space; a rockable magazine divided into two cartridge compartments, means controlled by the cartridges in one compartment for carrying the same into cartridge feeding position, and automatic means operable upon the exhaustion of said last named compartment for bringing the other compartment into cartridge feeding position.

3. In a firearm having a magazine receiving space and a groove at one end of said space; a rockable magazine divided into two cartridge compartments, means controlled by the cartridges in one compartment and operable in said groove for bringing said compartment into cartridge feeding position, and automatic means operable upon the exhaustion of said last named compartment for bringing the other compartment into cartridge feeding position.

4. In a firearm having a magazine receiving space and a groove at one end thereof; a rockable magazine divided into two cartridge compartments, a spring retracted button forced into groove engagement by the cartridges in one of said compartments, and a spring for rocking said magazine on its pivot to bring the other compartment into cartridge feeding position upon the exhaustion of said previously named compartment and upon the retraction of said button out of groove engagement.

5. In a firearm having a magazine receiving space and a groove at one end thereof; a rockable magazine divided into compartments, a spring bar in one compartment; a button thereon, said button being forced outwardly of said magazine to engagement with said groove upon the insertion of cartridges into said compartment and held in such position until said compartment is emptied of cartridges to permit said bar to retract said button, and a laterally operable spring for rocking said magazine to bring the other compartment into cartridge feeding position upon the retraction of said button.

6. As an article of manufacture, for use in a firearm, a two compartment magazine, a support therefor. a pivotal connection therefor, a spring controlled follower in each compartment, a spring bar secured in one compartment adapted to be forced toward the end of said compartment upon the depression of the respective follower by the introduction of cartridges, and a button on said bar held outwardly of said magazine while said last named compartment contains a cartridge.

LOUIS WESLEY HILGENDORF.