F. MOENCH.

CARTRIDGE STOP FOR MAGAZINE SHOTGUNS.

APPLICATION FILED APR. 22, 1915.

1,157,571.

Patented Oct. 19, 1915.

2 SHEETS—SHEET 1.

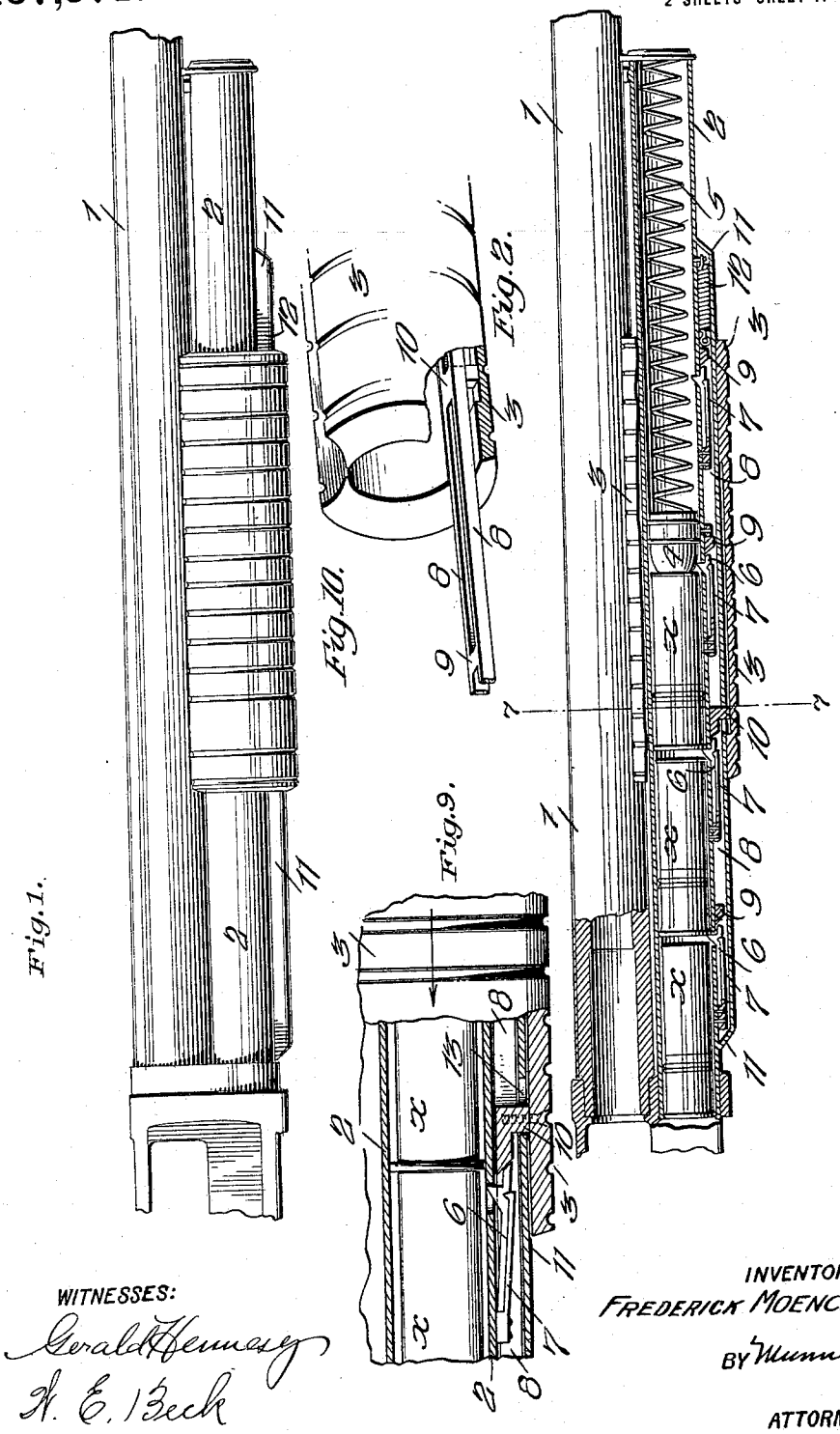


Fig. 1.

Fig. 10.

Fig. 2.

Fig. 9.

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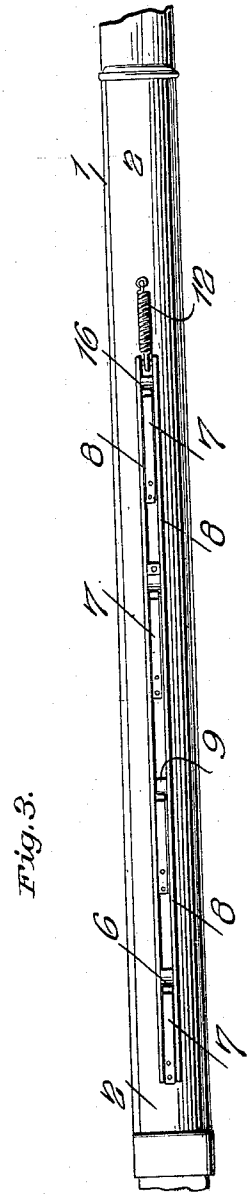


Fig. 3.

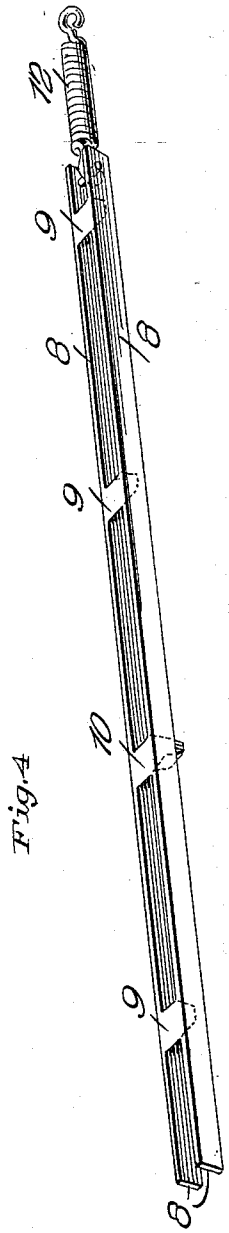


Fig. 4.

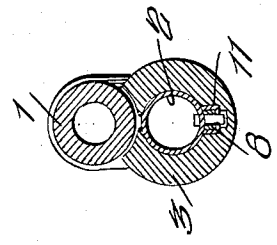


Fig. 7.

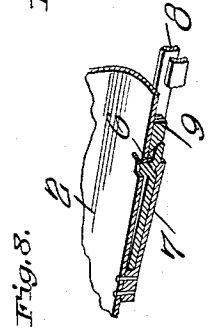


Fig. 8.

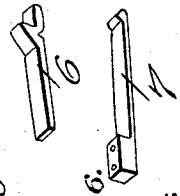


Fig. 5.



Fig. 6.

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# UNITED STATES PATENT OFFICE.

FREDERICK MOENCH, OF RUSHVILLE, ILLINOIS.

## CARTRIDGE-STOP FOR MAGAZINE-SHOTGUNS.

1,157,571. Specification of Letters Patent. Patented Oct. 19, 1915.

Application filed April 22, 1915. Serial No. 23,057.

*To all whom it may concern:*

Be it known that I, FREDERICK MOENCH, a citizen of the United States, and a resident of Rushville, in the county of Schuyler and State of Illinois, have made an Improvement in Cartridge-Stops for Magazine-Shotguns, of which the following is a specification.

My invention is an improvement in that class of magazine or repeating shot-guns which are provided with a slidable hand-grip applied to the magazine or cartridge-tube arranged under the barrel.

The special feature of my invention is the means I employ to prevent the mouths or discharge ends of the cartridge from being jammed or flattened, or otherwise distorted, by contact with the heads of the cartridge shells.

The invention is an attachment applied to, and beneath, the magazine or cartridge-tube, and includes, as a principal feature, a series of spring catches that engage the flanges or rims of a corresponding number of shells, but which may be released by manipulation of a slidable trip device. The trip and the hand grip are independent of the breech mechanism, the latter being operated by other means.

The invention is illustrated in the accompaying drawings in which:

Figure 1 is a side view of a portion of the barrel, together with the magazine or cartridge-tube provided with my improved attachment. Fig. 2 is in part a side view and in part a longitudinal section of the same parts. Fig. 3 is a bottom plan view of the magazine and barrel, the former having attached the device hereinafter termed a "slidable trip", the cover or sheath being removed. Fig. 4 is a perspective view of such slidable trip. Fig. 5 is a perspective view of one of the catches which engage the rims or flanges of cartridge shells. Fig. 6 is a perspective view of one of the springs which are applied to the several catches for holding them normally engaged with the cartridge rims. Fig. 7 is a reduced cross section on the line 7—7 of Fig. 2. Fig. 8 is a sectional perspective illustrating the arrangement of a spring catch and its actuating spring with the magazine or cartridge tube and the sliding trip which coacts with the catch. Figs. 9 and 10 are partly sectional detailed views illustrating the position and action of the slidable trip with relation to adjacent coöperating parts.

Referring particularly to Figs. 1 and 2, the numeral 1 indicates the barrel of a repeating shot-gun, and 2 the magazine or cartridge tube arranged directly beneath the barrel and duly secured thereto in the usual way.

The numeral 3 indicates the wooden hand-grip which is operated for discharging cartridges from the magazine, to be successively elevated and forced into the breech of the barrel 1. As shown in several figures—see especially 2, 8, 9—the magazine or cartridge tube 2 is provided in its underside with a series of small openings or slots which are in alinement and spaced apart a little more than the length of a loaded cartridge.

In Figs. 2 and 9, the cartridges $x$ are shown in the magazine, the forward one being pressed upon by block 4 actuated by a spiral spring 5 in the usual way. A spring catch 6, see especially Figs. 2, 5 and 9, is adapted for engagement with a cartridge flange, the head or shoulder of each catch projecting through a slot or opening in the magazine. A spring 7, see especially Figs. 2 and 6, is riveted to the magazine, and its free end bears upon the head or shouldered end of the catch 6, so that the said head is held normally in engagement with the cartridge.

It will be seen that, by the arrangement illustrated in Fig. 2, the head of each cartridge $x$ is held, by a catch 6, spaced from the mouth or discharge end of the cartridge in rear of it. In brief, the heads and mouths of the cartridges are normally prevented from contact. It is obviously necessary to trip the catches 6, or disengage them from the cartridge heads, when it is desired to discharge a cartridge from the rear end of the magazine. For this purpose, I employ the device termed "a sliding trip" which is illustrated as a whole in Fig. 4. It consists of two thin flat, narrow, parallel bars 8 which are permanently and rigidly connected by lugs 9 and 10. As shown in Figs. 2 and 9, these lugs are all beveled on the under side, thus forming a sharp or acute-angle edge which is adapted to engage the free end of a catch 6, and thus pull it down into the position indicated in Figs. 7 and 9.

The sliding trip composed of the bars and

their connections is arranged in a sheath or cover 11, which is formed of thin sheet metal attached to the underside of the magazine; and a spiral spring 12 is attached to the forward end of the sliding trip, as shown in Figs. 2 and 4, for the purpose of retracting the trip after it has been actuated by the hand-grip 3. As will be understood by reference to Figs. 2 and 9, the lug 10 not only connects or bridges the two parallel bars 8 of the trip, but is also permanently attached to the hand-grip. The connection of parts is further illustrated in Fig. 10. It will be seen therefore, that the sliding trip is actuated by the hand-grip when the latter is pulled toward the rear end of the magazine 2, and thus all the lugs 9 and 10 are caused to simultaneously engage catches 6, so that all the catches are simultaneously released from engagement with the cartridges, and the spiral spring 5 is thus left free to push the cartridges rearward. This movement of the hand-grip 3 is arrested by contact of the lug 10 with the end wall of the slot 13 in the sheath or casing 11, as will be understood by reference to Fig. 9. In other words, said slot 13 in the cover 11 limits the reciprocation of the hand-grip when the pressure of the spiral spring 5 in the magazine has effected the ejection of a cartridge at the rear end of the magazine, the hand-grip being released and drawn back to its normal position shown in Fig. 2 by the operation of the spring 12 on the trip 8 and the catches 6 therefore all resume their normal position shown in Fig. 2, the heads of the catches thus projecting as before, through the openings in the underside of the magazine and into engagement with the cartridges remaining in the latter.

I claim:—

1. The combination with the magazine of a repeating firearm having a series of alined openings in its underside, the same being spaced apart about the length of a cartridge, a corresponding series of spring catches applied to the underside of the magazine and whose heads normally project through the aforesaid openings in engagement with the cartridges, a slidable trip having parts adapted for engaging the free ends of the catches, a retracting spring connected with said trip, and an action-slide operatively connected with the trip to operate as specified.

2. The combination with the magazine of a repeating firearm, the same having a series of openings in its underside, a corresponding series of spring catches whose heads or shoulders are adapted to project through the openings, for engagement with the cartridge heads, a slidable trip arranged parallel to the underside of the magazine, a retracting spring connected with said trip, an action-slide having an attached device which connects it with the trip, and means for limiting the reciprocation of the action-slide, as described.

3. The combination with the magazine of a repeating firearm having a series of alined openings in its underside, a corresponding series of spring catches attached to the underside of the magazine and having heads adapted to project through the openings, for engagement with the cartridges in the magazine, a slidable trip comprising bars and beveled lugs attached thereto and adapted, when the slide is operated, to engage with, and depress, the heads of the said spring catches, a retracting spring connected with such trip, and an action-slide also rigidly connected with the trip and adapted to operate the same, for simultaneously releasing all the spring catches from the cartridges, as described.

4. The combination with a magazine of a repeating firearm having a series of openings in its underside which are spaced apart corresponding to the number of cartridges to be received in the magazine, a series of catches corresponding to the number of openings, springs secured to the magazine and bearing upward against the catches, for holding them normally engaged with cartridges, a slidable trip comprising a longitudinal member having a series of beveled lugs corresponding in number with the catches and adapted to engage the heads of the latter, for depressing them and releasing all the cartridges simultaneously, a retracting spring connected with the said member, a sheath or cover applied over the series of catches and also inclosing the slidable trip and the catches, an action-slide applied to the magazine and permanently connected with the slidable trip, the connection being effected by means of one of the beveled lugs, and the sheath or cover having a slot through which said lug projects, whereby the sheath serves as a stop for limiting the reciprocation of the action-slide.

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Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."