

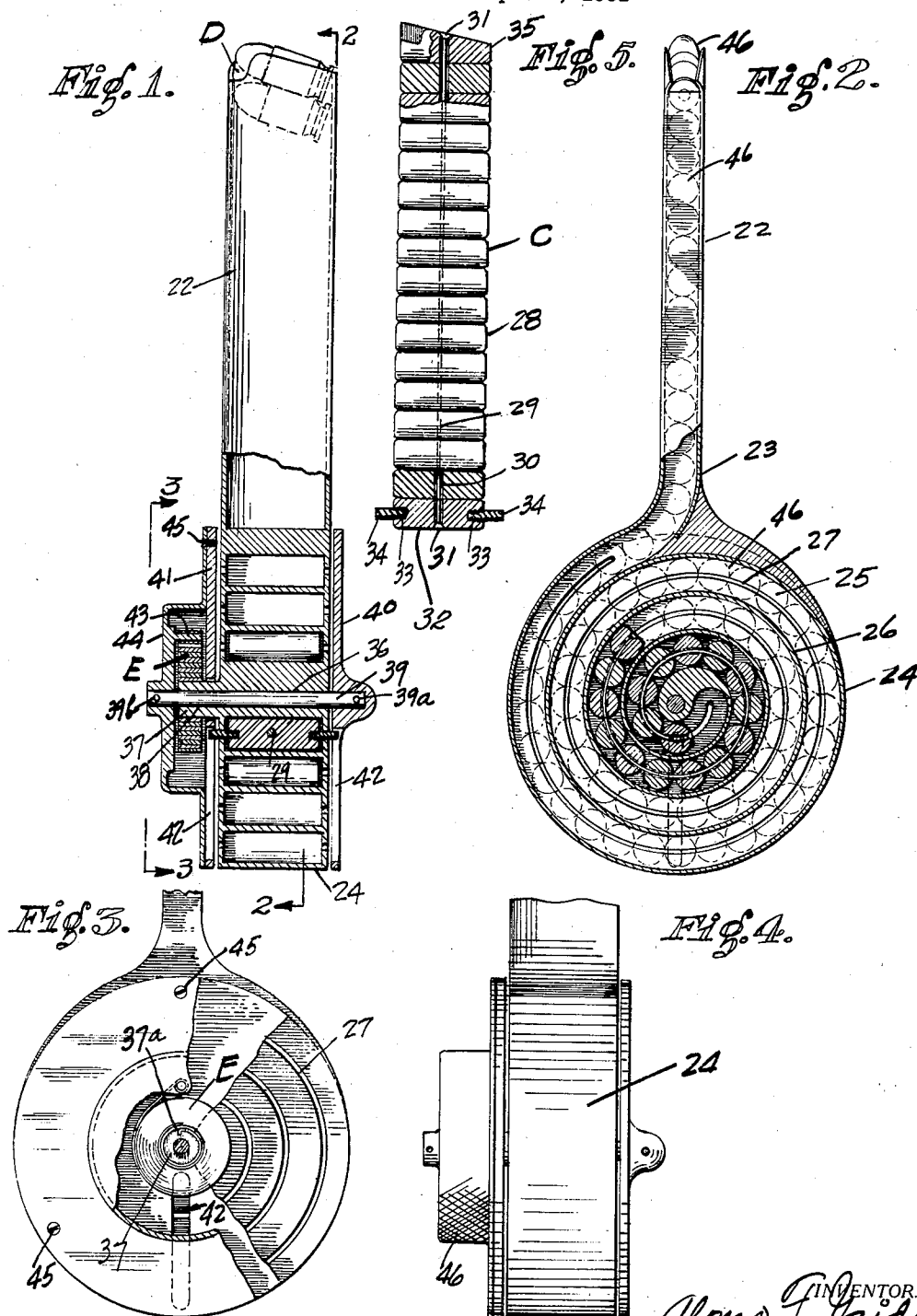
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MAGAZINE FOR RAPID FIRE ARMS

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MAGAZINE FOR RAPID FIRE ARMS

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5 Claims. (Cl. 42—50)

My invention refers to improvements in rapid fire shoulder arms and it has for its primary object to provide a means of utilizing commercially manufactured automatic pistols or the like for use as rapid fire arms for police purposes.

The ordinary automatic pistol consists, mainly, of a barrel mounted in a frame, an automatic action, by means of which firing, extracting and ejecting the fired shell and the operations of loading the new cartridge from the magazine, is accomplished automatically.

An object of my invention is to provide means of supplying fixed ammunition in greater numbers than is ordinarily supplied by the conventional type of magazine originally sold with a pistol or the like. The transformed automatic pistol is fitted with a magazine which is capable of containing a greater number of cartridges, and one which may be readily adapted to the pistol without alterations or attachments made thereto. I shall describe the magazine in the following specifications.

The invention is shown by way of illustration in the accompanying drawing, wherein,

Fig. 1 is a partly sectionalized side view of the magazine.

Fig. 2 is a partly sectionalized rear view of the magazine on line 2—2 of Fig. 1.

Fig. 3 is a partly sectionalized front view of the magazine on line 3—3 of Fig. 1.

Fig. 4 is a portion of the side view of the magazine.

Fig. 5 is a partly sectionalized side view of the flexible follower assembly.

Referring to the magazine, particularly Fig. 1. It comprises mainly an elongated tube 22 of the same general dimensions as the magazine originally supplied with the pistol. The elongated tube 22 terminates at 23, (Fig. 2) into a housing 24 having formed therein spiral compartments 25 which are formed by spiral walls 26. The compartments 25 have the same general dimensions as elongated tube 22. A spiral slot 27 is provided midway between the spiral walls 26.

A flexible follower (Fig. 5) consists of a series of cylindrical sections 28 securely fastened together by means of a steel wire 29 threaded through each section at 30. The bottom follower 32 is provided with tapped holes 33 for the threaded ends of guide pins 34. The top follower 35 has a contour on the top surface 35a similar to the top surface of the follower in the magazine furnished with the pistol. The follower thus described forms a fully flexible unit and will follow the spiral compartments of the

magazines without being disassembled. It is then inserted in opening D (Fig. 1) in elongated tube 22, the bottom section 32 entering first.

Guide pins 34 are inserted through the spiral slot 27 which prevent the follower assembly C (Fig. 5) from being forced out through opening D of the elongated tube 22 by the action of the spring E which I will describe later.

Integrally formed with housing 24 is journal 36 which terminates in a hub 37 through which is bored a hole 38 into which is inserted a shaft 39.

Actuating discs 40 and 41 having elongated slots 42 formed therein are slipped over the ends of shaft 39 so that the elongated slots 42 are opposite and engage guide pins 34 in bottom section of follower 32 of follower assembly C.

A spiral clock type spring E is secured at 37a on hub 27. Into the free end of the spring E is placed pin 43 of cover 44. Actuating disc 40 is then secured to shaft 39 by pin 39a. Cover 44 is similarly secured to shaft 39 by pin 39a. The cover 44 is then rotated clockwise to wind the spring E. The follower C is then brought down to its lowest position in housing 24 by turning actuating disc 40 counter-clockwise until it stops. The cover 44 is then secured to actuating disc 41 by means of screws 45. It is to be understood that when the follower is in its lowermost position in housing 24, the spring E must be fully wound, so that should the cover 44 be released the action of spring E will cause the follower assembly C to travel thru the spiral compartments, thus forcing outwardly any cartridges which may have been placed into the elongated tube 22 through opening D. To load the magazine, the cover 44 is rotated clockwise just slightly and a few cartridges placed on top of follower 35. The operation is repeated until the magazine is filled. Should the top cartridge be carried into the chamber of the pistol by the automatic action, another cartridge will be pressed into place by the action of the follower 35.

While certain features of my invention are more or less specifically illustrated, I wish it understood that various changes in form and proportion may be resorted to within the scope of the appended claims. I similarly wish it understood that the materials and the finish of the several parts employed may be such as the experience and the judgment of the manufacturer may dictate or various uses demand.

Having thus described this invention, what I claim and desire to secure by Letters Patent is:

1. A magazine comprising an elongated tube fitting into a fire-arm and having its open end adapted to cooperate with the slide of the firing mechanism of the fire-arm, a housing on the other end of the tube being divided into a continuous spiral passage, the outer periphery of the passage being contiguous with the said tube; a follower slidable in the spiral passage to urge the cartridges toward the open end of the magazine, means outside of the housing to urge the follower toward said open end of the magazine; and means of connection between the follower and said urging means being slidably extended through a wall of said housing.

2. In a magazine the combination with an elongated tube adapted to receive a stack of cartridges in the usual manner, a housing on an end of the tube, having a spiral passage therein contiguous with said tube and also being adapted to slidably receive a stack of cartridges; a follower in the inner end of the spiral passage movable outwardly through the passage to urge the cartridges outwardly of the magazine; an element extended from the follower through the wall of the housing; guides to guide the said element on a spiral path; and resiliently wound means engaging the said element to move the same in the spiral guide, thereby to advance the follower in said spiral passage toward and into said tube.

3. In a magazine, a housing with a spiral passage therein; an elongated open ended tube extended from the housing continuously with the outer end of the spiral passage so that said passage and tube is adapted to hold a continuous stack of cartridges; a follower in the inner end of the spiral passage movable outwardly to urge the stack through the passage and tube; said housing having spiral slots on the sides thereof alongside the spiral passage, guide elements extended from the follower being slidable in said slots; rotatable means engaging the guide elements to move the latter in said slots as the last

means are rotated; and resilient means to urge the rotatable means to rotate so as to move the elements outwardly in the spiral slots.

4. In a magazine a housing with a spiral passage therein, an elongated open ended tube extended from the housing continuously with the outer end of the spiral passage so that said passage and tube is adapted to hold a continuous stack of cartridges; a follower in the inner end of the spiral passage movable outwardly to urge the stack through the passage and tube; said housing having spiral slots on the sides thereof alongside the spiral passage, guide elements extended from the follower being slidable in said slots; rotatable means engaging the guide elements to move the latter in said slots as the last means are rotated; and a resilient winding element connected to said rotatable means to rotate the latter as the winding element unwinds so as to move the guide elements and the follower outwardly of said spiral passage.

5. In a magazine a housing with a spiral passage therein, an elongated open ended tube extended from the housing continuously with the outer end of the spiral passage so that said passage and tube is adapted to hold a continuous stack of cartridges; a follower in the inner end of the spiral passage movable outwardly to urge the stack through the passage and tube, said housing having spiral slots on the sides thereof alongside the spiral passage, guide elements extended from the follower being slidable in said slots; rotatable means engaging the guide elements to move the latter in said slots as the last means are rotated; and a resilient winding element connected to said rotatable means to rotate the latter as the winding element unwinds so as to move the guide elements and the follower outwardly of said spiral passage, the open end of the tube being partly closed and so formed as to coact with the repeating mechanism of a fire-arm.

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