

March 28, 1944.

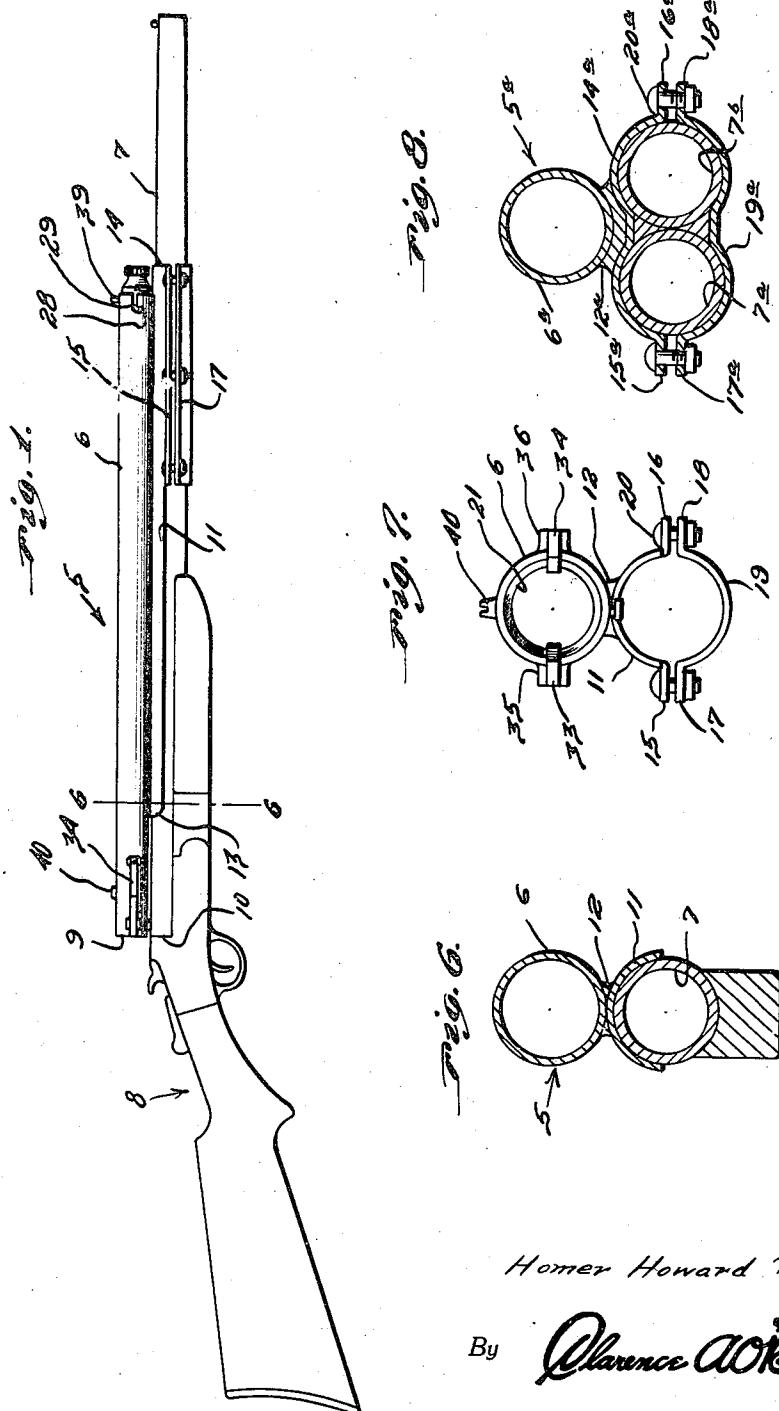
H. H. PICKENS

2,345,003

FIREARM

Filed Jan. 28, 1941.

2 Sheets-Sheet 1



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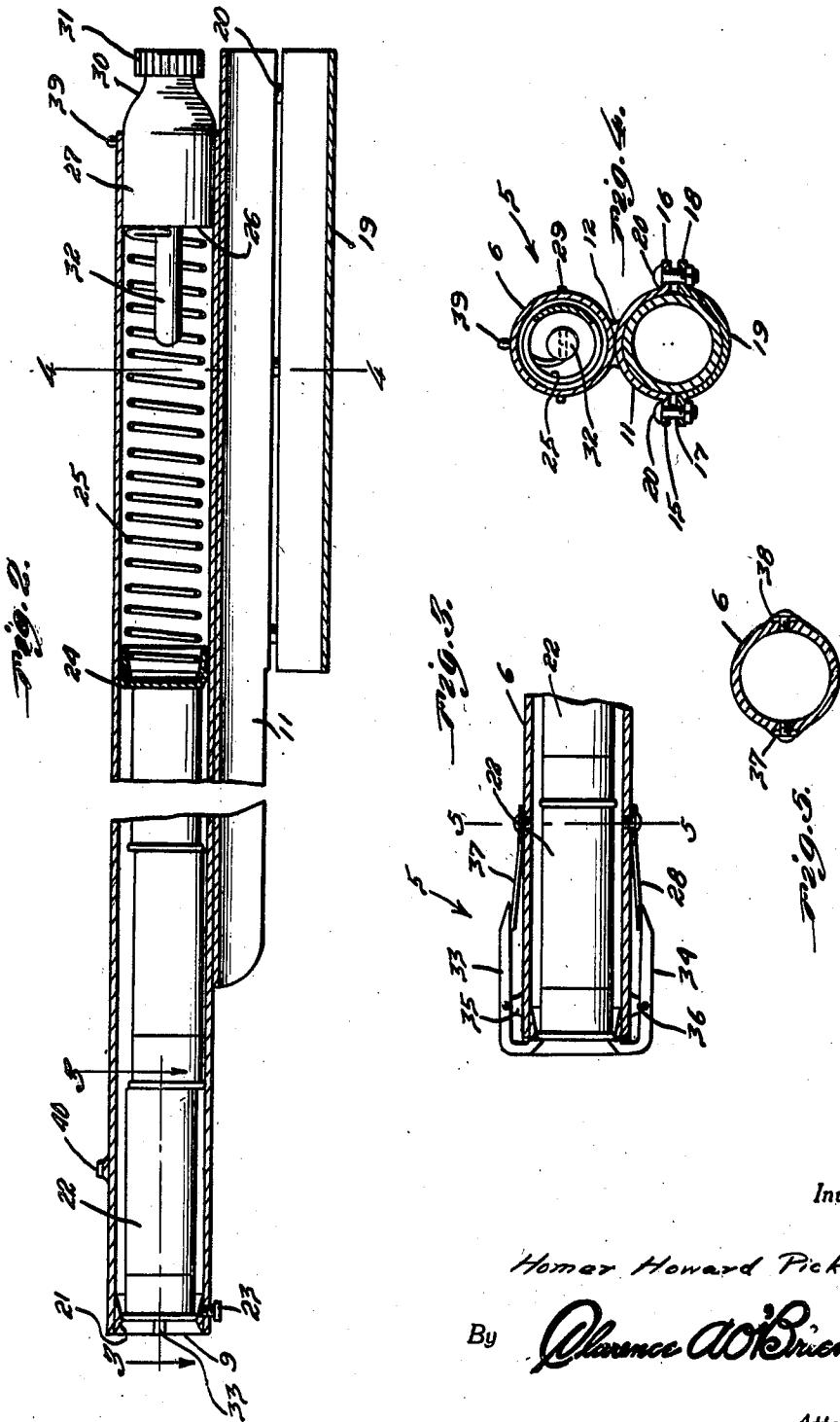
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UNITED STATES PATENT OFFICE

2,345,003

FIREARM

Homer Howard Pickens, Texarkana, Tex.

Application January 28, 1941, Serial No. 376,396

3 Claims. (Cl. 42—6)

My invention relates to improvements in firearms, and particularly to a firearm having a cartridge magazine, and the primary object of my invention is to provide a firearm in which the magazine is either built in or is in the form of an attachment, to provide readily accessible a quantity of extra cartridges available in a position for instant loading by hand into the breech or cartridge chamber of the firearm.

Other important objects and advantages of my invention will be apparent from a reading of the following description taken in connection with the appended drawings, wherein for purposes of illustration I have shown preferred embodiments of my invention.

In the drawings:

Figure 1 is a general right hand side elevational view showing the invention in the form of an attachment for a shot gun.

Figure 2 is an enlarged longitudinal vertical sectional view taken through the attachment.

Figure 3 is a fragmentary horizontal sectional view taken through Figure 2 along the line 3—3 and looking in the direction of the arrows.

Figure 4 is a transverse vertical sectional view taken through Figure 2 along the line 4—4.

Figure 5 is a transverse sectional view taken through Figure 3 along the line 5—5.

Figure 6 is a transverse sectional view taken through Figure 1 along the line 6—6.

Figure 7 is a left hand end elevational view of Figure 2.

Figure 8 is a transverse sectional view similar to Figure 4 but showing application of the invention to a double-barrel type of firearm.

Referring in detail to the drawings, the numeral 5 generally designates the cartridge magazine which is devised to be supported upon the top of the barrel or barrels of the firearm to discharge the cartridges in the immediate neighborhood of the breech or of the cartridge chamber opening of the firearm, the said magazine being arranged substantially parallel with the barrel or barrels, and being equipped with sights for use in aiming the firearm. The said magazine 5 consists of an elongated substantially uniform diameter tube 6 designed to lie along the top of the barrel or barrels 7 of the firearm which is generally designated 8, with the forward end of the tube extending a suitable distance along the barrel and toward the front end thereof, and with the rear end 9 of the tube aligned with or substantially aligned with the loading breech 10 of the barrel 7, so that a minimum

amount of transfer will be required to place a cartridge withdrawn from the tube 6 into the breech of the firearm.

A substantially semi-circular base 11 is suitably connected or attached as indicated by the numeral 12 to the bottom of the tube 6, the base 11 to overlie and rest upon the top part of the barrel 7 from a suitable point 13 adjacent the rear end of the tube to a point 14 slightly in advance of the front end of the tube. A forward end portion of the base 11 has lateral flanges 15 and 16 which match substantially similar flanges 17 and 18 on a substantially semi-circular clamp member 19, bolts 20 being placed through the opposed flanges at suitable intervals to effect substantially rigid clamping of the barrel 7 between the cooperating clamp members as illustrated in Figure 1, whereby the magazine 5 is securely mounted in place on the firearm.

A double beveled ring 21 is placed within and immediately adjacent the rear end of the tube 6 as illustrated in Figure 2, with the resulting aperture in the ring only sufficiently large to pass the cartridges 22. A set screw 23 traversing the side of the tube holds the ring 21 in place. Several of the cartridges 22 are arranged in end to end relation as illustrated in Figure 2 and to be pressed rearwardly by the engagement of a cup-shaped element 24 into which one end of an expanding helical spring 25 is socketed, with the opposite end of the spring engaging the inner face 26 of the removable plug 27. The plug fits into the front end of the tube 6 a suitable distance and has a bayonet pin projecting laterally therefrom for engagement with an L-shaped bayonet slot 29 formed in the end of the tube to hold the plug removably in place. The forward part of the plug is reduced as indicated by the numeral 30 and provided with a knob 31 for convenience in manipulation. An axially extending pin 32 is provided for insertion into the adjacent coils of the spring 25, so as to guide the plug and the spring into proper cooperative relation when inserting and removing the plug and the spring. For convenience in operation the cup-shaped element 24 is attached, as by crimping, to the end of the spring 25 so that the cup-shaped element is removed upon removal of the spring. The cartridges 22 are inserted in the tube from the rear against the resistance of the spring 25 which is held in place by the plug 27.

Holding the cartridges in the tube 6 under tension and operable to release the cartridges all at once or one by one is the pair of J-shaped trig-

gers 33 and 34 which are pivoted in horizontal positions on opposite sides of the rear end of the tube 6 on laterally projecting lugs 35 and 36. Longitudinally arranged leaf springs 37 and 38 engage between forward portions of the triggers and the sides of the tube to hold the crooks of the triggers engaged with the rim of the cartridge as clearly illustrated in Figure 3 of the drawings. Compression of one of the triggers 33 and 34 will leave the other trigger in retaining position with relation to the cartridges, compression of both of the triggers being necessary to release one or more of the cartridges. As the cartridge emerges from the rear end 9 of the magazine it is immediately available to the hand of the operator of the firearm for rapid and direct transfer to the breech 10 of the firearm. The bevel or curvature of the rear portions of the crooks of the levers 33 and 34 serve as cams to spread the levers as the shells are pressed forwardly into the tube in loading the tube.

Referring to Figure 8, showing mounting of the device of the invention on a double barreled firearm, it will be noted that the upper clamping portion of the base 11 is designated by the numeral 14a and is duplex in character instead of single. Similarly the lower clamping member 19a corresponding to the lower clamping member 19 is duplex instead of being single. Otherwise the clamping arrangements are the same as described above, so that the magazine 5a has its tube 6a mounted centrally and longitudinally with respect to the double barrels 1a and 1b, of a firearm such as a double barreled shot gun.

Although I have shown and described herein preferred embodiments of my invention, it is to be definitely understood that I do not wish to limit the application of the invention thereto, except as may be required by the scope of the subjoined claims.

Having described the invention, what is claimed as new is:

1. In a shot gun having a barrel including a cartridge chamber at the rearward end thereof, a magazine comprising a base having a longitudinal depression in its underside to conformably receive and lie along the top of the barrel, a tube fixed on said base to contain a number of car-

tridges in end to end relation, and having open rearward and forward ends, the rearward end of the tube being located close above said cartridge chamber and forming a discharge end, manually releasable cartridge retaining means on said discharge end of the tube, said retaining means being adapted to be engaged by the rearmost cartridge in the tube, a removable retainer on the forward end of the tube, longitudinal expanding spring means in said tube retained by said retainer, a longitudinally movable cartridge abutment in said tube, said cartridge abutment being urged toward the discharge end of said tube by said spring means and engageable with the foremost cartridge in the tube, and clamp means for securing said base in place on the barrel.

2. In a firearm having at least one barrel provided with a cartridge chamber adjacent its rearward end, a magazine consisting of a longitudinally split tubular base consisting of a first section lying along and conforming to a substantial part of one side of the barrel and a second section lying along and conforming to a substantial part of the opposite side of said barrel, clamping means to contract the sections on the barrel, a cartridge tube secured along one of said sections, said cartridge tube having a rearward end forming a cartridge discharge opening located immediately adjacent to said cartridge chamber.

3. In a firearm having at least one barrel provided with a cartridge chamber adjacent its rearward end, a magazine consisting of a longitudinally split tubular base consisting of a first section lying along and conforming to a substantial part of one side of the barrel and a second section lying along and conforming to a substantial part of the opposite side of said barrel, clamping means to contract the sections on the barrel, a cartridge tube secured along one of said sections, said cartridge tube having a rearward end forming a cartridge discharge opening located immediately adjacent to said cartridge chamber, said first section being substantially longer than said second section, said first section lying along the top of the barrel and said second section lying along the underside of the barrel, said clamping means engaging only a forward part of said first section.

HOMER HOWARD PICKENS.