Nov. 22, 1938. W. W. VOGEL 2,137,680

CARTRIDGE HOLDER

Filed Jan. 23, 1937

Fig. 2

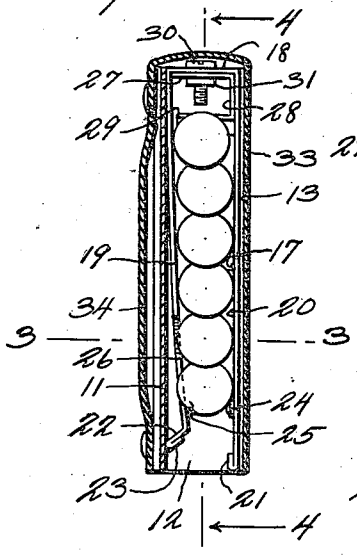


Fig. 5

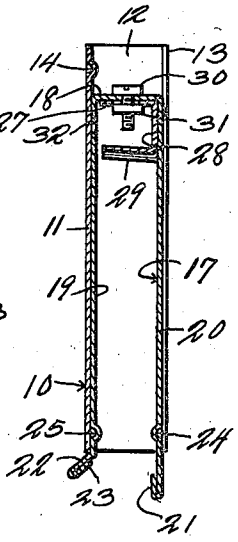


Fig. 4

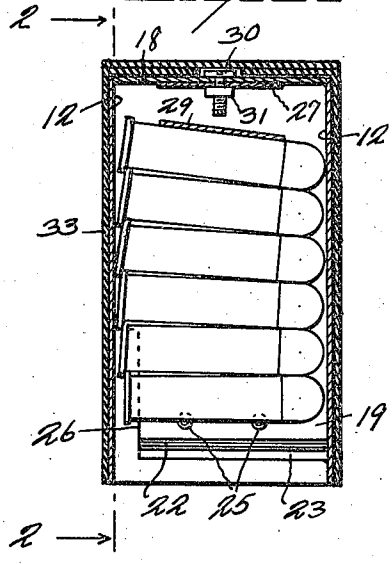


Fig. 1

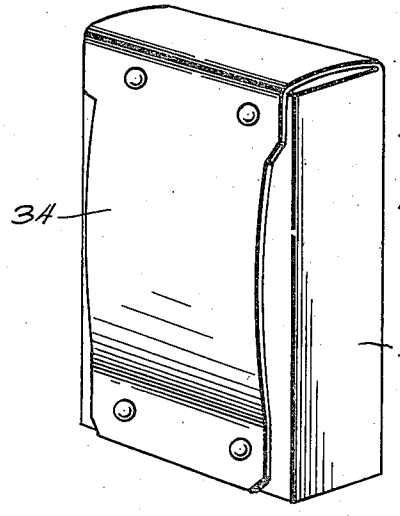


Fig. 3

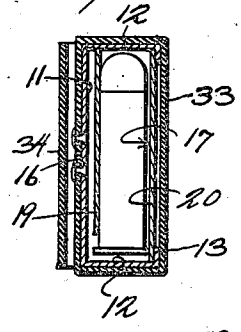
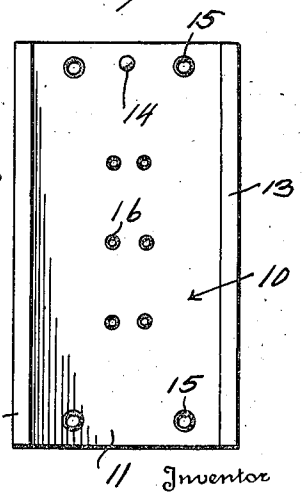


Fig. 6



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2,137,680

UNITED STATES PATENT OFFICE

2,137,680

CARTRIDGE HOLDER

William W. Vogel, Willard, Ohio

Application January 23, 1937, Serial No. 122,066

10 Claims. (Cl. 224—15)

This invention relates to cartridge holders or carriers such as are particularly used by policemen and "plainclothes" men attached to their service belts and designed to carry a small reserve supply of pistol cartridges.

It is essential that holders of this character shall be compact, that the cartridges shall not be exposed, that it shall be capable of quickly discharging all of its cartridges, if necessary to do so, or to discharge one cartridge at a time if desired, that it may be operated to discharge the cartridges by the use of one hand, and that it may be readily filled.

With these essential features in mind, it is the object of my invention to provide a cartridge holder which fulfills these conditions.

My invention is illustrated in the accompanying drawing wherein:

Figure 1 is a perspective view of the cartridge holder looking toward the rear.

Figure 2 is a vertical sectional view through the cartridge holder on the line 2—2 of Figure 4.

Figure 3 is a section on the line 3—3 of Figure 2.

Figure 4 is a vertical section on the line 4—4 of Figure 2.

Figure 5 is a vertical section of the cartridge holder with the clip forced downward and the throat of the clip expanded to permit the discharge of cartridges, the outer covering being omitted.

Figure 6 is a front view of the outer metallic frame.

Referring to the drawing, it will be seen that the holder essentially comprises an outer metallic frame designated generally 10. This frame is formed to provide a back plate 11 having side walls 12 and inturned flanges 13 at the free margins of the side walls. At the upper end of the back plate 10 there is an indentation 14. At each corner there is a rivet perforation 15 and the central portion of the back plate has a plurality of small rivet holes 16. These rivet holes 15 and 16 are for uniting the frame to an outer leather case, as will be later described.

Slidable into or out of the frame 10 is a cartridge clip designated generally 17. This has the form of an inverted U to provide an end wall 18, a back wall 19 and a front wall 20. These walls 19 and 20 may be forced towards each other and when the force is relieved, they will spring to a position where the walls are parallel to each other.

The front wall 20 extends straight downward from the portion 18 which connects the two walls and at its lower end a narrow flange 21 is turned over flat against the inner face of the wall 20. The back wall or rear wall 19 is shorter than the front wall and is angularly bent outward at its lower end to form a lip 22, the lower extremity of which is bent back upon the lip and flat against the inside face thereof to strengthen the lower end of the metal, as at 23. The front wall at a point above the lower extremity 21 is formed with inwardly projecting indentations 24. The back wall just above the bend 22 is also formed with inwardly projecting indentations 25 disposed directly opposite the indentations 24. These indentations, it will be seen, provide inwardly projecting bosses. The back wall 19, as is seen in Figure 2, is cut away at 26, this cut away portion extending upward from the lower inclined end of the back wall to a point above the indentations 25.

Disposed within the upper end of the clip is a thin strip of metal bent to provide an upper portion 27, a downwardly extending portion 28 and an inwardly extending web 29. A screw 30 passes through the web 27 and is engaged by a nut 31 which bears against the inner face of the web 27.

It will be seen from Figure 4 that the web 29 is inclined laterally downward. This web 29 is resilient. The purpose of this spring member 29 is to act as a follower to press against the uppermost cartridge and hold the cartridges in contact with each other so that they will not rattle. The spring yields just enough to permit the insertion of the proper number of cartridges and to hold the cartridges closely engaged with each other. The upper end of the rear wall of the clip is formed with a slight perforation 32 into which the indented boss 14 will spring when the clip is fully inserted within the frame 10 and fully pushed home. The boss or indentation 14 projecting into the perforation 32 will act to detachably hold the clip entirely within the frame 10, but at the same time, by pressing upon the upper end 18, the clip may be forced downward in the frame. Extending over the frame and riveted thereto is a leather covering designated generally 33, this leather casing or covering, of course, not closing the lower end of the frame. The back 11 of the frame is riveted to this leather covering through the perforations 16 and also riveted to this outer covering and to the plate 11 of the frame is a loop 34 through which a belt may be passed. This loop is riveted to the body of the covering 33 and to the frame by rivets passing through the four openings 15.

In the use of this device, the cartridges are normally disposed within the clip, as illustrated in Figure 4, in superposed relation. When the clip is disposed entirely within the frame and pushed home therein, the angular lip 22 will ride inward on the lower edge of the wall 11 of the frame until when the clip is fully pressed home, the lower end of the wall 19 is forced in to the position shown in Figure 2. In this position, the throat

of the clip is so contracted, particularly in view of the inwardly projecting bosses **24** and **25**, that the cartridges cannot fall out. The rim of the lowermost cartridge will be disposed within the slot or cut away portion **26**, as shown in Figure 2, and this cut away portion may extend any desired extent upward from the lower end of the wall **19** so that the rims of one or more cartridges may project into this cut away portion. This is to accommodate the enlarged rims of the cartridges and prevent the cartridges being clamped merely at their rims. With this cut away portion **26**, the rims will have ample accommodation and the front and rear plates of the clip will grip the body of the cartridges. Assuming that the cartridge holder is placed upon the belt and it be desired to release all of the cartridges, the officer presses down with the thumb of his right hand upon the upper end of the outer covering **33** and thus presses down upon the upper end of the clip, forcing the clip downward within the frame until the lip **22** passes the lower end of the wall **11**, whereupon the wall **19** of the clip will spring outward opening the throat of the clip and permitting all of the cartridges to fall out into the hand of the user. Obviously if it be desired to release only one cartridge, then immediately that one cartridge has been discharged, the user may force inward on the lip **22** and force upward on the clip, which will cause the movable wall **19** to be again forced inward, holding the remaining cartridges within the clip. Preferably, however, the device is used in reloading and all of the cartridges are discharged at one time into the hand.

In reloading the device, the holder is held with its opening upward and the back toward the person. The clip is, of course, forced upward so as to open the cartridge gripping jaws formed by the walls **19** and **20**. The cartridges are then inserted with the bases or rims of the cartridges toward the cut away portion **26**. After the clip has been filled with cartridges, the clip is pushed downward fully into the frame until the boss **14** engages the perforation **32**, which locks the clip in the frame, and the holder is then ready for use.

It will be seen that the carrier or holder heretofore described is very compact, it is easily carried in a pocket or on a belt, it is light in weight and it is readily operated. The cartridges are always out of sight and kept dry and clean. With this device, a revolver can be quickly reloaded as all the cartridges are in hand and pointed downward.

It will be seen that the frame **10** constitutes in effect a casing rectangular in section and from which one wall is omitted, the function of this wall being performed by the flanges **13**. By omitting this fourth wall, the device is rendered lighter and cheaper because not so much metal is used. As far as the operation of the device goes, the frame or casing **10** might be, as before stated, in the form of a member rectangular in cross-section and open at its opposite ends into which the clip can be slipped. The frame or casing must be open at its opposite ends for the purpose of allowing a discharge of the cartridges at one end and to permit the operator to push down on the clip on the opposite end of the frame or casing. While preferably the frame or casing will be entirely covered with leather or fabric, as heretofore described, I do not wish to be limited to this. The leather covering, however, forms at the upper end of the frame or casing a cover for this open upper end which, however, is flexible enough to permit the operator, by pressure of the thumb against the end of the covering, to force the clip downward.

The main reason for extending the wall **17** below the wall **19** is that the clip will have to be pushed down further before allowing the cartridges to discharge. Furthermore, when the clip is pushed into the frame and locked, the front will be flush at bottom. This keeps the cover straight and level and the cover will not drop into frame, so that the holder keeps its square appearance. The bosses or projections **24** and **25** are for the purpose of preventing any discharge of cartridges should the wall **19** spread.

While I have illustrated the rivets **16** for holding the cover in place upon the casing, it is to be understood that these rivets may be omitted and the cover simply held in place by the rivets passing through the openings **15**. If the cover is sewed together, the rivets at the corners of the cover and frame will be sufficient. Preferably the slot **26** will be long enough to accommodate the rims of two cartridges.

While I have illustrated certain particular features of my invention and certain details of construction, I do not wish to be limited thereto except as defined in the appended claims, as slight modifications might be made without departing from the spirit of the invention.

What is claimed is:—

1. A cartridge holder, including an outer frame open at opposite ends, a clip slidable within the frame and including two walls spaced from each other and an integral web connecting said walls at their upper ends whereby the lower ends of the walls are yieldably movable toward or from each other, the walls being resiliently held in approximately parallel relation, one of the walls of the clip having a cam portion thereof at its lower end engaging with the lower end of the frame when the clip is fully inserted and acting to force the last named clip wall inward at its lower end and toward the opposite clip wall, thus contracting the throat of the clip and retaining cartridges therein, a movement of the clip downward from its fully inserted position allowing the clip walls to move relatively apart and permit the discharge of cartridges therefrom.

2. A cartridge holder, including an outer frame at opposite ends, a clip slidable within the frame and including two walls spaced from each other and an integral web connecting said walls at their upper ends whereby the lower ends of the walls are yieldably movable toward or from each other, the walls being resiliently held in approximately parallel relation, one of the walls of the clip having a cam portion thereon at its lower end engaging with the lower end of the frame when the clip is fully inserted and acting to force the last named clip wall inward at its lower end and toward the opposite clip wall, thus contracting the throat of the clip and retaining cartridges therein, a movement of the clip downward from its fully inserted position allowing the clip walls to move relatively apart and permit the discharge of cartridges therefrom, and coacting means on the upper end of the clip and upper end of the frame whereby the clip may be retained when entirely inserted within the frame.

3. A cartridge holder, including an outer frame open at opposite ends, a clip slidable within the frame and including two walls spaced from each other and an integral web connecting said walls at their upper ends whereby the lower ends of the walls are yieldably movable toward or from

each other, the walls being resiliently held in approximately parallel relation, one of the walls of the clip having a cam portion thereon at its lower end engaging with the lower end of the frame when the clip is fully inserted and acting to force the last named clip wall inward at its lower end and toward the opposite clip wall, thus contracting the throat of the clip and retaining cartridges therein, a movement of the clip downward from its fully inserted position allowing the clip walls to move relatively apart and permit the discharge of cartridges therefrom, the upper end of the frame and the upper end of one of the clip walls having coacting inwardly extending indentations snapping into each other and locking the clip entirely inserted within the frame.

4. A cartridge holder, including an outer frame open at its opposite ends, a clip slidable into the frame and including two spaced walls integrally connected at their upper ends, the walls being made of resilient material whereby one of said walls may be forced toward the other wall, one of the walls of the clip at its lower end being inclined downward and outward at an angle, this downwardly and outwardly inclined portion engaging the corresponding wall of the frame as the clip is pushed into the frame to thus cause inward movement of the lower end of the last named wall and thus contract the throat of the clip to retain cartridges therein, a movement of the clip downwardly out of its fully inserted position permitting the last named wall to move outward and thus permit the discharge of cartridges from the clip.

5. A cartridge holder, including an outer frame open at its opposite ends, a clip slidable within the frame and including two walls integrally connected at their upper ends, the clip being of resilient material whereby to resiliently resist inward movement of the two walls with relation to each other, one of said walls being shorter than the other and having at its lower end an outwardly inclined margin, the two walls of the clip adjacent their lower ends but above the inclined margin of the first named wall having inwardly projecting bosses whereby as the clip is forced up fully into the frame, the inclined lower end of one of the walls will cause said wall to move inward and contract the throat of the lip to retain cartridges therein, a movement of the clip downward out of this fully inserted position permitting the wall with the inclined portion to move outward under its own resilience to thereby permit the discharge of cartridges.

6. A cartridge holder, including an outer frame open at its opposite ends, a clip slidable in the frame and including two walls spaced from each other and integrally connected, the clip being formed of resilient material whereby the lower ends of the two walls may be forced relatively towards each other, one of said walls being shorter than the other and being formed at its lower margin with an outwardly inclined portion adapted, when the clip is forced fully home into the frame, to cause said last named wall to move inwardly at its lower end and contract the throat of the clip to thereby retain cartridges therein, the last named wall at one end being cut away to accommodate the rims of the cartridges.

7. A cartridge holder, including an outer frame formed to provide a back wall, side walls and inwardly turned flanges on the side walls, the upper end of the back wall having an inwardly projecting boss, a clip insertable into said frame, comprising two opposed walls and a connecting integral portion at the upper ends of the walls, the clip being resilient whereby one of said walls may be forced toward the other wall, one of said walls of the clip bearing against the wall of the frame, the last named wall of the clip being outwardly inclined at its lower margin and being shorter than the other wall and having one end cut away to accommodate the rim of a cartridge, the last named wall of the clip having an indentation at its upper end coinciding with the projection on the wall of the frame whereby said clip, when fully inserted, will be detachably locked within the frame, and a covering of material entirely surrounding the frame and having a flexible portion extending across the upper end of the frame whereby to permit the upper end of the clip to be pressed downward within the frame to a point where the inclined margin of the said wall will pass the lower end of the frame.

8. A cartridge holder, including an outer frame open at its opposite ends, a clip slidable within the frame and including two walls spaced from each other and an integral web connecting said walls at their upper ends, the walls being resiliently urged away from each other, one of the walls of the clip having a cam portion at its lower end engaging with the lower end of the frame after the clip is fully inserted within the frame, said cam portion acting to force the last named clip wall inward at its lower end and toward the opposite clip wall to thus contract the throat of the clip and retain cartridges therein, a movement of the clip downward from its fully inserted position allowing the clip walls to move relatively apart and permit the discharge of cartridges therefrom, and a resilient anti-rattler member disposed within the upper end of the clip and having a resilient laterally inclined web against which the uppermost cartridge may rest.

9. A cartridge holder, including an outer frame open at its upper and at its lower ends, a clip slidable in the frame and including two walls spaced from each other by a connection at their upper ends, the lower ends of the walls being yieldingly movable with relation to but being urged away from each other, and cam means for forcing the lower ends of said walls relatively towards each other when the clip is fully inserted within the frame and upon withdrawal of said cam means by forcing the clip downward partly out of the frame, the lower ends of the walls are urged relatively apart to discharge cartridges from the clip.

10. A cartridge holder, including an outer frame open at both ends, a clip slidable into the frame and including two walls spaced from each other but integrally connected at their upper ends, the walls being yieldably movable towards each other but being resiliently urged outward, an anti-rattler disposed within the clip adjacent its upper end and forming a resilient cushion against which the uppermost cartridge may rest, and cam means for forcing the lower ends of said walls relatively towards each other when the clip is fully inserted within the frame, the lower ends of the walls being urged relatively apart to discharge cartridges from the clip upon withdrawal of said cam means by forcing the clip downward partly out of the frame.

WILLIAM W. VOGEL.