March 25, 1941. J. C. GARAND 2,235,833

CARTRIDGE CLIP

Filed Nov. 22, 1938

Fig-1-

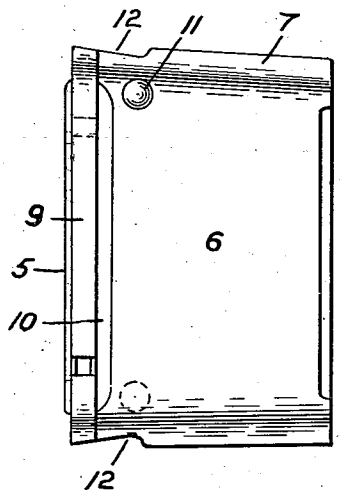


Fig-2-

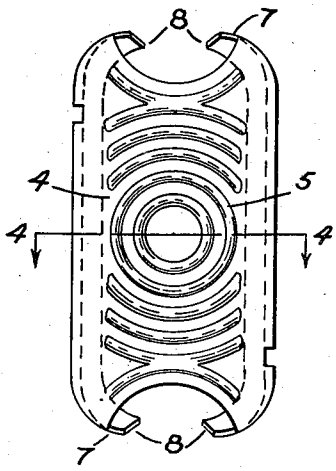


Fig-3-

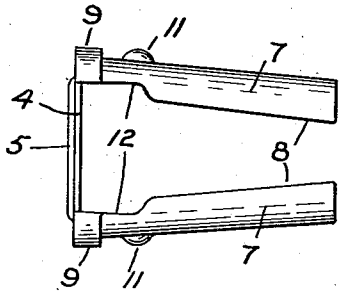
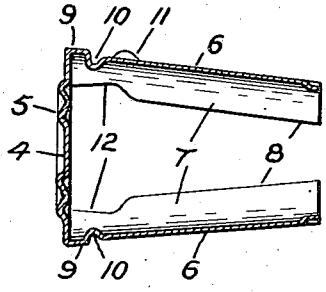


Fig-4-



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UNITED STATES PATENT OFFICE

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CARTRIDGE CLIP

John C. Garand, Springfield, Mass., assignor to the Government of the United States of America, as represented by the Secretary of War and his successors in office

Application November 22, 1938, Serial No. 241,821

6 Claims. (Cl. 42—87)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The invention described herein may be manufactured and used by or for the Government for governmental purposes, without the payment to me of any royalty thereon.

The subject of this invention is a cartridge clip of the type intended to hold a double row of cartridges in staggered relation and to be inserted therewith into the receiver of a gun of the class shown in U. S. Patents 557,079 and 853,715.

The main objects of the invention are the provision of means to cause the clip to be thrown to one side when automatically ejected from the receiver, and to assure that cartridges will not be ejected from the clip by the follower.

These objects are attained broadly by retarding the travel of one side of the clip as it is being ejected, and by placing an obstacle in the path of the upwardly moving cartridges.

Specifically, a projection is provided on the side of the clip adapted to engage a slight obstruction on a wall of the receiver to cause the ejected clip to be deflected to one side, and the edges of the inturned ends of the side walls of the clip diverge from the side walls so that these edges have a greater forward convergence than the side walls.

With these and other objects in view, the invention resides in the novel arrangement and combination of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed without departing from the spirit of the invention.

A practical embodiment of the invention is illustrated in the accompanying drawing, wherein:

Fig. 1 is a side elevation of a clip;

Fig. 2 is a rear elevation;

Fig. 3 is an end elevation, and

Fig. 4 is a sectional view on the line 4—4 of Fig. 2.

Referring to the drawing by numerals of reference:

The clip consists of a back plate 4 preferably formed with stiffening ribs 5, from the sides of which back plate extend forwardly converging side walls 6—6 formed with inturned ends 7—7 the edges 8—8 of the inturned portions diverging from the side walls as they recede from the back plate.

The side walls adjacent to the back plate have outwardly extending ribs 9 which serve to guide the clip into the receiver and hold it in position therein, fitting into grooves in the receiver for such purpose, and also inwardly extending ribs 10 which engage in front of the extracting rims of the cartridges and retain them in position in the clip. Formed on a plane vertical portion of each side wall of the clip when the clip is reversible as herein shown, is a projection 11 the lowermost one of which is adapted to engage an obstruction on the wall of the receiver as shown in copending application Serial No. 262,171 of March 16, 1939, to cause the clip to be deflected to one side as it is ejected from the receiver when all the cartridges have been fed therefrom.

The inturned portions of the side walls of the clip are cut away adjacent to the back plate, as indicated at 12, to permit cartridges to be fed into the clip from the end in loading thus rendering it possible to load the clip with a loading machine when the sides of the clip are expanded or spread apart sufficiently to permit entrance of a cartridge between the edges 8—8 of the opposite cartridge retaining portions 7.

It will be noted in Figs. 3 and 4 that the distance between the edges 8—8 at their front ends has been appreciably reduced because each edge diverges from the corresponding side wall 6 so that this distance at the front ends will normally be less than the diameter of the cartridge and will require spreading of the side walls when loading through the opening between the cartridge retaining portions 6—6. Because of this divergence of the edges 8 of the cartridge retaining portions 7 there is provided sufficient additional metal to properly support the uppermost cartridge in position to be advanced by the breech bolt of a gun and this support is particularly necessary when the last round has been moved into position for loading by the cartridge feed mechanism of the gun.

I claim:

1. A clip for holding a double row stack of cartridges in staggered relation and adapted to be inserted therewith into the receiver of a gun, said clip comprising a back plate and two converging side walls extending forwardly from the back plate to embrace the stack of cartridges, said side walls having inturned cartridge retaining portions at the top and bottom thereof, the edges of said retaining portions being forwardly diverged with respect to their corresponding side wall.

2. A clip for holding a double row stack of cartridges in staggered relation and adapted to be inserted therewith into the receiver of a gun, said clip comprising a back plate and two side walls extending forwardly from the back plate to embrace the stack of cartridges, said side walls

having inturned cartridge retaining portions at the top and bottom thereof, the edges of said retaining portions being forwardly diverged with respect to their corresponding side wall.

3. A clip for holding a double row stack of cartridges in staggered relation and adapted to be inserted therewith into the receiver of a gun, said clip comprising a back plate and two side walls extending forwardly and convergingly from the back plate to embrace the stack of cartridges, said side walls having inturned cartridge retaining portions, the inturned portions at the same end of the clip being spaced at their forward ends a distance less than the diameter of a cartridge to be carried in the clip.

4. A cartridge clip including spaced side walls adapted to embrace a double row stack of cartridges in staggered relation, said side walls having inturned cartridge retaining portions, the edges of said retaining portions being forwardly diverged with respect to their corresponding side wall.

5. A reversible cartridge clip adapted to be inserted into the receiver of a gun with either one of opposite ends in lowermost position, said clip comprising opposite side walls, each side wall provided with a single projection adapted for engagement with deflecting means on the receiver during ejection of the clip, the projections being adjacent opposite ends of the opposite side walls.

6. A cartridge clip adapted to be inserted into the receiver of a gun, said clip including a side wall one end of which will be lowermost when inserted into the receiver, said side wall having a plane vertical portion provided with a projection at the lowermost end thereof adapted for engagement with deflecting means on the receiver during ejection of the clip.

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