March 1, 1949. R. S. BARKER ET AL 2,462,836

CARTRIDGE CLIP LOADER

Filed May 1, 1947

Fig. 1.

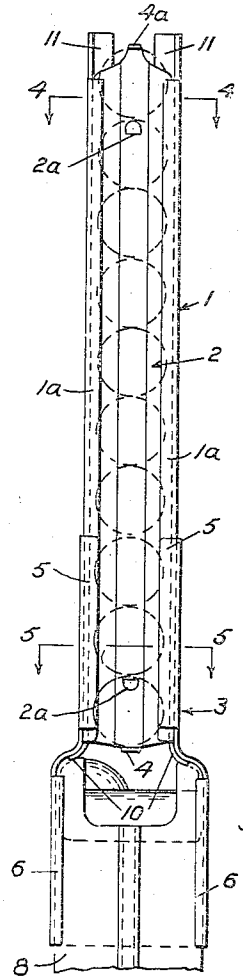


Fig. 2.

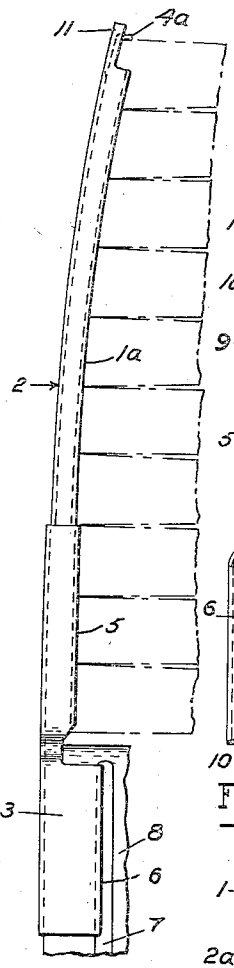


Fig. 3.

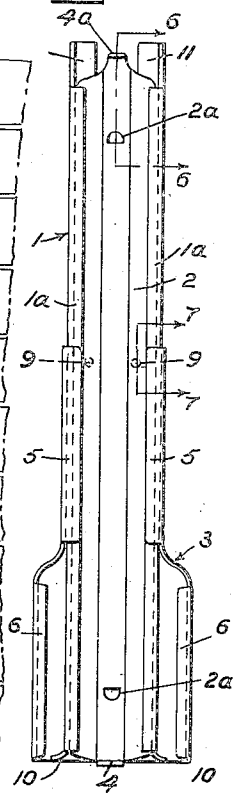


Fig. 8.

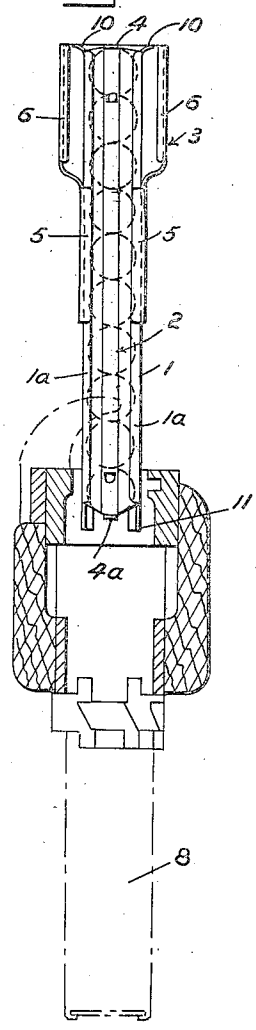


Fig. 6.

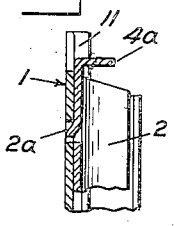


Fig. 4.

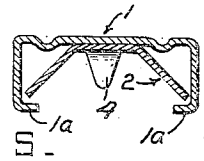


Fig. 5.

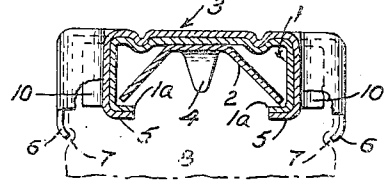
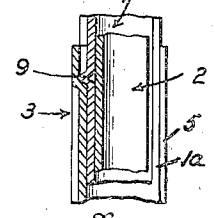


Fig. 7.



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CARTRIDGE CLIP LOADER

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3 Claims. (Cl. 42—87)

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

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

This invention relates to a device for loading cartridges into the magazine of firearm of the type having a removable magazine, such as the U. S. Army carbine, caliber 30, M1, and has for its primary object the provision of cartridge clip which will be capable of transferring a full magazine load of cartridges directly into the magazine with one rapid motion.

Another object is to provide a device of this character which can be used to load the empty magazine in the rifle without removing the magazine, and can also be used to load the magazine when it is removed from the rifle.

Another object is to provide a compact cartridge clip which can be telescoped into a minimum length for shipping and packaging.

We achieve the above objects by means of a clip generally similar to a known type of clip for holding a number of cartridges aligned for feeding into a rifle magazine, said clip being arranged to slidably hold the cartridges by flanges which engage with the circumferential groove or flange and the base of each cartridge. Our clip is distinguished by slidable enlarged means at one end thereof for feeding the cartridge directly from the clip into the removed magazine of an automatic firearm such as the M1 carbine and also has engaging means at the other end of the clip for engaging a portion of the firearm so that cartridges may be fed directly into the magazine when it is positioned in the weapon, whereby the weapon may be loaded directly from the clip without removing the empty magazine.

The invention is illustrated in preferred form in the accompanying drawings but without limitation to the particular detail shown except as defined by the appended claims.

In the drawings:

Figure 1 is a front elevation of our invention as used for loading a magazine when removed from the firearm,

Figure 2 is a side elevation of the device shown in Figure 1,

Figure 3 is a front elevation of our invention with the slidable magazine-engage portion retracted on the clip,

Figure 4 is a cross section taken on line 4—4 of Figure 1,

Figure 5 is a cross section taken from line 5—5 of Figure 1,

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Figure 6 shows a section taken on line 6—6 of Figure 3,

Figure 7 shows a section taken on line 7—7 of Figure 3,

Figure 8 is a front elevation of our invention as used for loading a magazine in a rifle.

Referring to the drawings, our improved clip is formed of three separate elements 1, 2 and 3 all fashioned of thin sheet steel or any other suitable metal. An elongated channel member 1 (see Figure 4) is formed by bending over the edges of a suitably shaped metal strip to form guide flanges 1*a* for engaging the grooved or flanged ends of a number of cartridges in the usual manner, as is well known in this art. A spring strip 2 is retained within this channel member and is restrained against longitudinal movement by two pressed-out portions 2*a* (Figure 6). The function of strip 2 is to force the cartridge flanges against guide flanges 1*a*. The two ends of strip 2 are cut down to form narrow tongues 4 and 4*a* which are turned up as shown when the clip is full of cartridges, to retain same. The structure so far described is well known in this art.

In order to make it possible to load a clip of cartridges directly into a free magazine (i. e., a magazine removed from its firearm) we provide a slidable magazine-engaging portion 3, bent over as shown at 5 to slidably retain same on the channel 1 and enlarged at its free end and turned in at the side edges thereof, as shown at 6 to engage channels 7 on the sides of a magazine 8. These channels 7 are normally provided to guide the magazine into its operating position in the firearm with which it is used.

The sliding feature of the magazine engaging portion is provided in order to facilitate shipping and packing of the clip, either loaded or unloaded, and particularly for transporting loaded clips in containers. It will be readily apparent that if the magazine engaging part were not slidable as shown a great deal of shipping space would be wasted. This is of course an important factor in military logistics.

The slidable member 3 is retained from sliding further back than necessary, when telescoped as shown in Figure 3, by stops shown in the form of two small bosses 9 as punched out of the channel member 1 at the proper point to engage member 3 in its rearward sliding motion when the minimum overall length is reached. When the clip is extended as shown in Figure 1, member 3 is prevented from coming off by tongues 10, as best seen in Figures 1 and 3.

At the opposite end of our clip from the slidable member **3** are two tips **11** for engaging a suitable recess on a rifle as shown at **11** (Figure 8) for positioning the loaded clip in correct alignment with the empty magazine **8** when in the rifle, so that by a downward pressure of the hand on the row of cartridges the hook **4a** will be bent out of the way and the cartridges forced into the magazine in correct order for immediate use.

For loading magazines prior to insertion into the rifle, the magazine-engaging member **3** is slid forward to its extreme position on the clip and is clipped on to the empty magazine as shown in Figures 1 and 2. The cartridges can then be stripped into the magazine by downward pressure on the top cartridge with sufficient force to bend back hook **4** and force the cartridges into the magazine. In the type of rifle shown the loaded magazine can be inserted into the rifle with a single motion and be for immediate use.

It will thus be seen that we have provided a dual-purpose clip capable of loading the magazine either on or off the weapon with which the magazine is used, and one which is collapsible to a minimum length for the purpose stated.

We claim:

1. A cartridge transferring device comprising a clip having means for holding a plurality of cartridges in a row by spring-engagement with the base flanges thereof, and slidable magazine-engaging means on said clip extensible beyond the end of the said clip for engagement with a cartridge magazine, whereby a clip-held row of cartridges may be manually fed directly into an engaged magazine.

2. A cartridge-transferring device comprising a cartridge clip for holding a row of cartridges, a member slidable on said clip from a position substantially coextensive with part of said clip into an extended position beyond one end of said clip for engaging a free cartridge magazine when said member is extended, and firearm engaging tips on the other end of said clip for retaining said transferring device in cartridge-feeding relationship with the magazine of a firearm.

3. A cartridge transferring device comprising a clip having means for holding a plurality of cartridges in a row by spring-engagement with the base flanges thereof, a magazine-engaging member slidable along said clip longitudinally thereof from a position substantially co-extensive with at least a portion of the length thereof into an extended position wherein one end of said magazine-engaging member extends beyond one end of said clip whereby a clip-held row of cartridges may be manually fed directly into an engaged magazine.

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PARLEY F. LAMBERT.

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