G. H. W. CASHMORE.

LEWIS GUN MAGAZINE.

APPLICATION FILED FEB. 5, 1918.

1,303,028. Patented May 6, 1919.

Fig. 1.

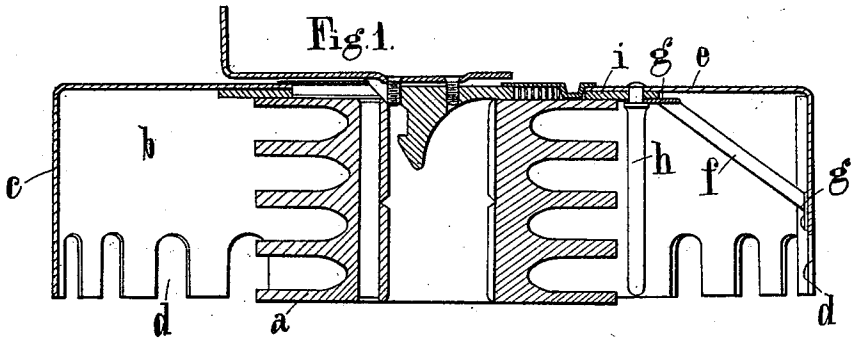


Fig. 2.

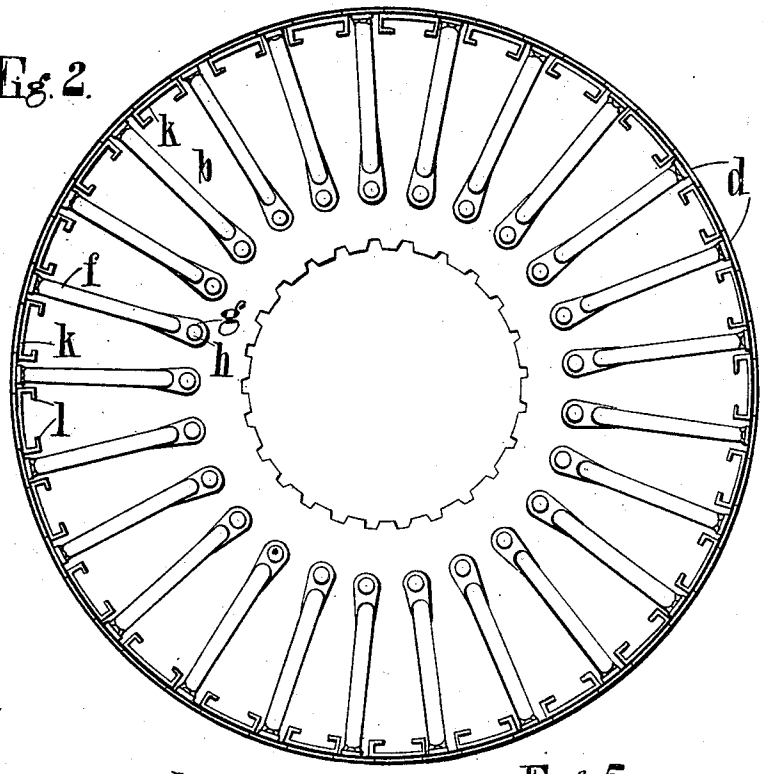


Fig. 6.

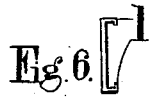


Fig. 5.

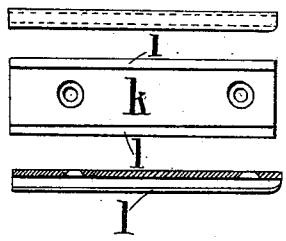


Fig. 3.

Fig. 4.

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UNITED STATES PATENT OFFICE.

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LEWIS-GUN MAGAZINE.

1,303,028. Specification of Letters Patent. Patented May 6, 1919.

Application filed February 5, 1918. Serial No. 215,526.

To all whom it may concern:

Be it known that I, GEORGE HENRY WILLIAM CASHMORE, a subject of the King of Great Britain and Ireland, and residing at 24 Wontner road, Balham, London, S. W. 12, England, have invented certain new and useful Improvements in Lewis-Gun Magazines, of which the following is a specification.

This invention relates to Lewis gun magazines.

Usually such magazines are formed with indented walls or with plain cylindrical walls furnished with notches or projections adapted to engage with the pawl or other feeding device upon the gun.

The present invention has for its object to devise improvements in the construction of such magazines which will result in a simplification of manufacture and cheapening the cost thereof, and will at the same time enable a more positive feed of the magazine to be obtained than is the case with such devices as hitherto adopted.

The invention consists in a machine gun magazine of the type referred to comprising a drum with a plain cylindrical wall having a series of slots or openings cut or formed therein so as to pierce the wall completely and adapted to engage the pawl or other feeding device upon the gun.

The accompanying drawings illustrate one form of machine gun magazine in accordance with the invention—

Figure 1 being a sectional elevation,

Fig. 2 an underneath plan showing the drum only in Fig. 1, while

Figs. 3, 4, 5 and 6 are views illustrating a detail.

In carrying my invention into effect in one convenient manner I form my improved magazine somewhat after the usual manner with a fixed center block *a* and a rotary drum *b*, but instead of forming the latter as is usual with a corrugated or indented wall for engaging the pawls or other feeding devices upon the gun, I form the same with a plain cylindrical wall *c* in which I cut or otherwise form a series of slots or openings *d* which may or may not be open-ended as shown and which are adapted to engage the feeding device or devices. By this means I not only simplify and cheapen the cost of manufacture by eliminating the cost of corrugating or indenting the drum and the cost of maintenance of the tools necessary for this purpose, but I also obtain a more positive feed for the drum than can be obtained with the usual corrugations or indentations, at the same time eliminating the tendency to get out of order due to wear, which is exhibited in so marked a degree in magazines as hitherto constructed.

When required on account of the depth of the cylindrical wall or for other reasons, I stay the wall *c* to the disk portion *e* of the drum by means of stays or struts *f* which are conveniently formed from flat strips by dishing the same, or stamping or otherwise molding or fashioning them into tubular or semi-tubular form, but having plain ended portions *g* bent at an angle to facilitate the riveting of the same to the disk and wall respectively.

The usual driving pins *h* are provided in the magazine and these may be utilized for riveting the stays to the disk portion *e* by passing a reduced or necked portion at each end of the driving pin through the upper flat portion of each stay and through an annular or other plate *i* upon the interior of the disk portion, and subsequently riveting each pin on the outside of the disk. This arrangement besides making for simplicity and strength possesses the important advantages as compared with known forms of magazine that any defective driving pin may be readily removed and replaced by a fresh one without in any way interfering with the structure of the magazine, whereas in existing devices should it be required to replace one pin, the whole of the magazine has to be dismantled and all of the driving pins removed to enable this to be done.

As the outer cylindrical wall of the magazine is plain, it becomes necessary to provide some means for guiding and retaining the heads of the cartridges in position in the magazine, and for this purpose I rivet or otherwise secure upon the inner wall of the magazine and between the feed slots or openings *d*, guides *k* which are shown in detail in Figs. 3–6, each guide being formed from an integral plate or strip of metal and being provided with the turned over or flanged edges *l* which serve to retain and guide the flanged ends of the cartridges.

Having now described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A machine gun magazine of the type referred to comprising a drum having a disk

portion and a plain cylindrical side wall formed with a number of open-ended slots in the edge remote from the disk portion adapted to engage the feeding device upon the gun and inclined stays secured to the disk portion and cylindrical wall respectively and having end portions arranged at an inclination to suit the inclination of the disk and wall respectively, substantially as described.

2. A machine gun magazine as claimed in claim 1 having a plurality of guiding pins, each of which is passed through to the outer side of the disk portion of the drum and riveted over, substantially as described.

3. A machine gun magazine as claimed in claim 1 provided with a series of guides for the bases of the cartridges, each of which guides is formed from a separate plate secured upon the inner side of the cylindrical wall, substantially as described.

In testimony whereof I have signed my name to this specification.

GEORGE HENRY WILLIAM CASHMORE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."