

P. MAUSER.
CARTRIDGE MAGAZINE.
APPLICATION FILED DEC. 4, 1909.

999,387.

Patented Aug. 1, 1911.

2 SHEETS—SHEET 1.

Fig. 1.

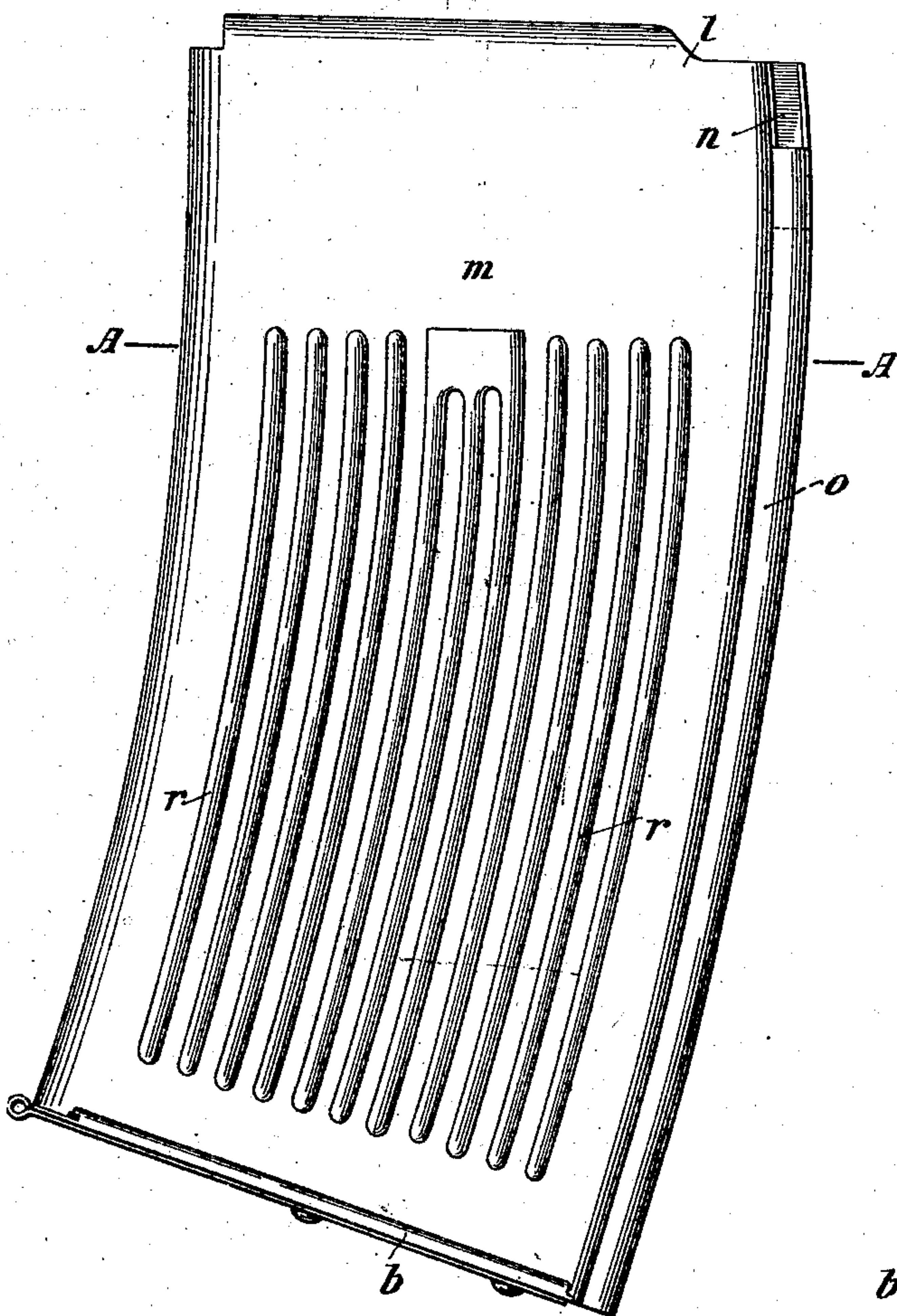


Fig. 2.

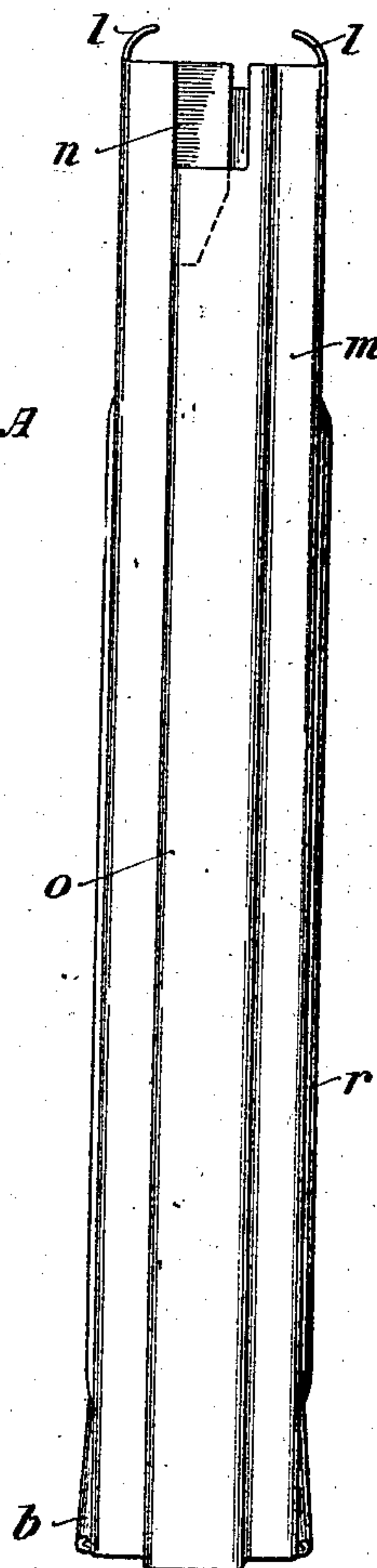


Fig. 3.

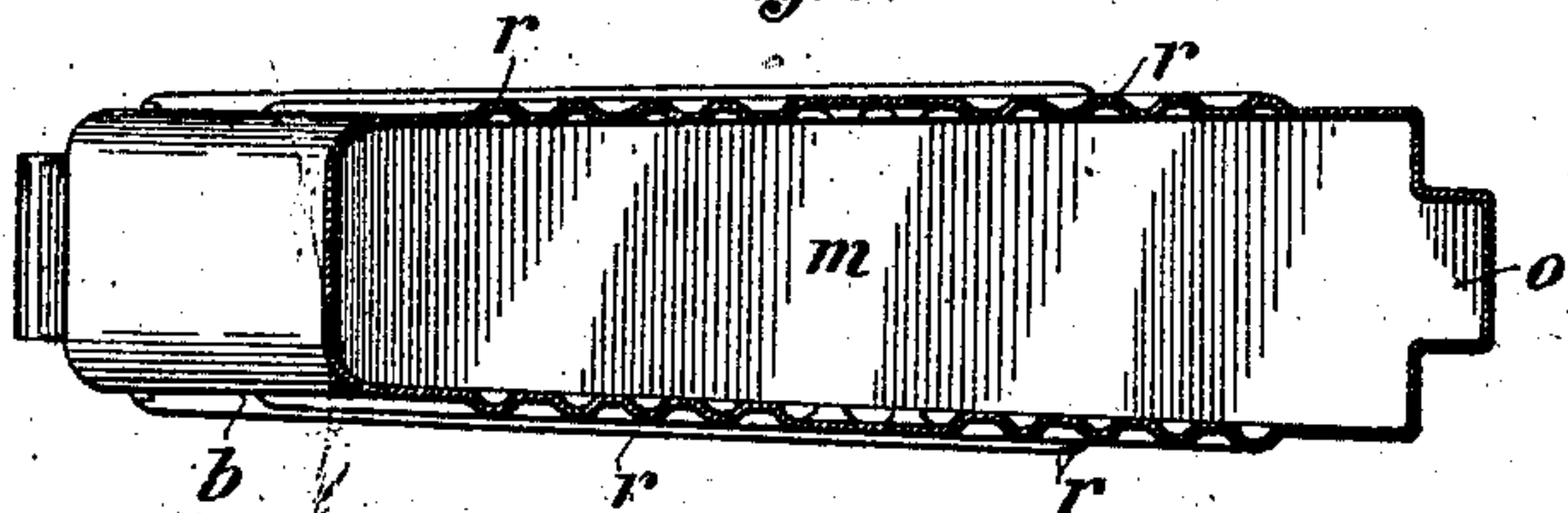
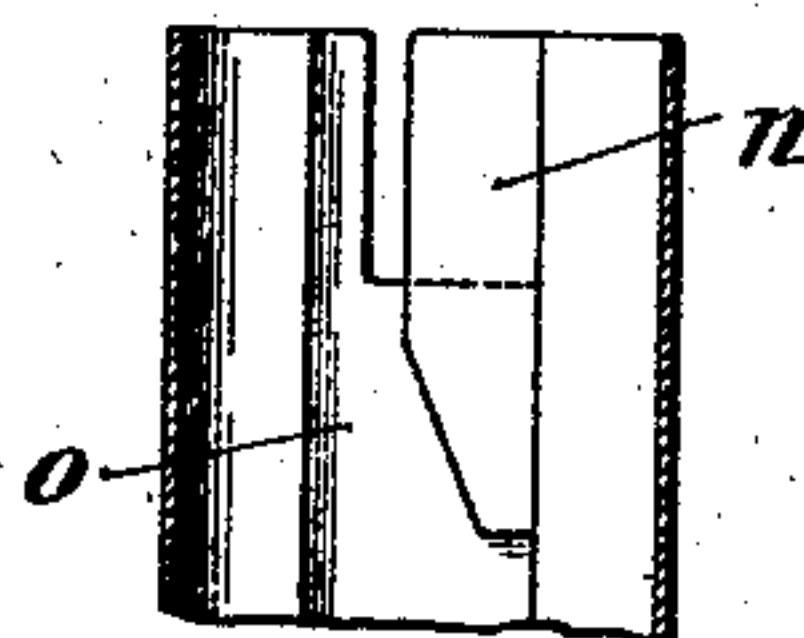


Fig. 4.



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2 SHEETS—SHEET 2.

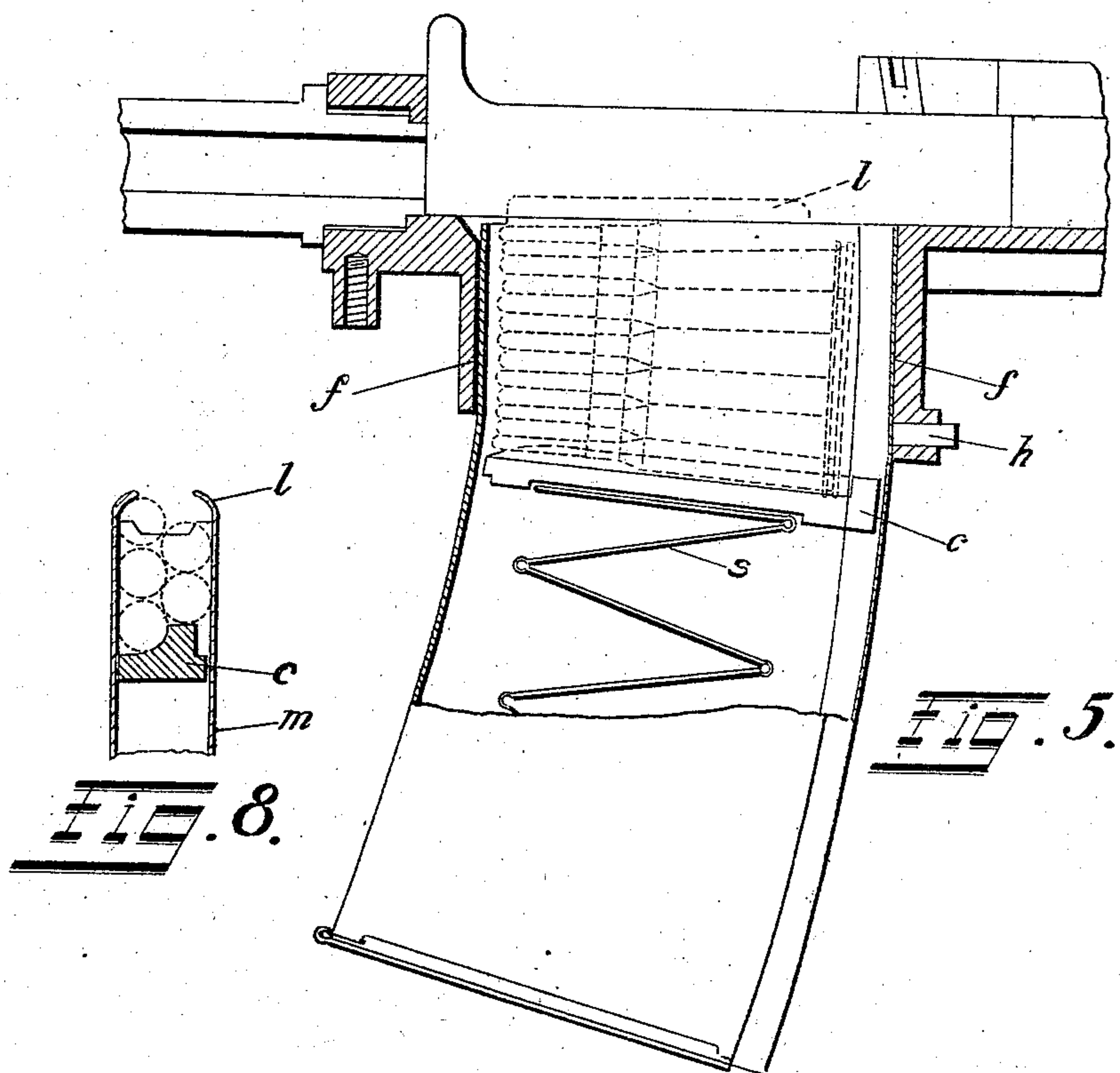


Fig. 8.

Fig. 5.

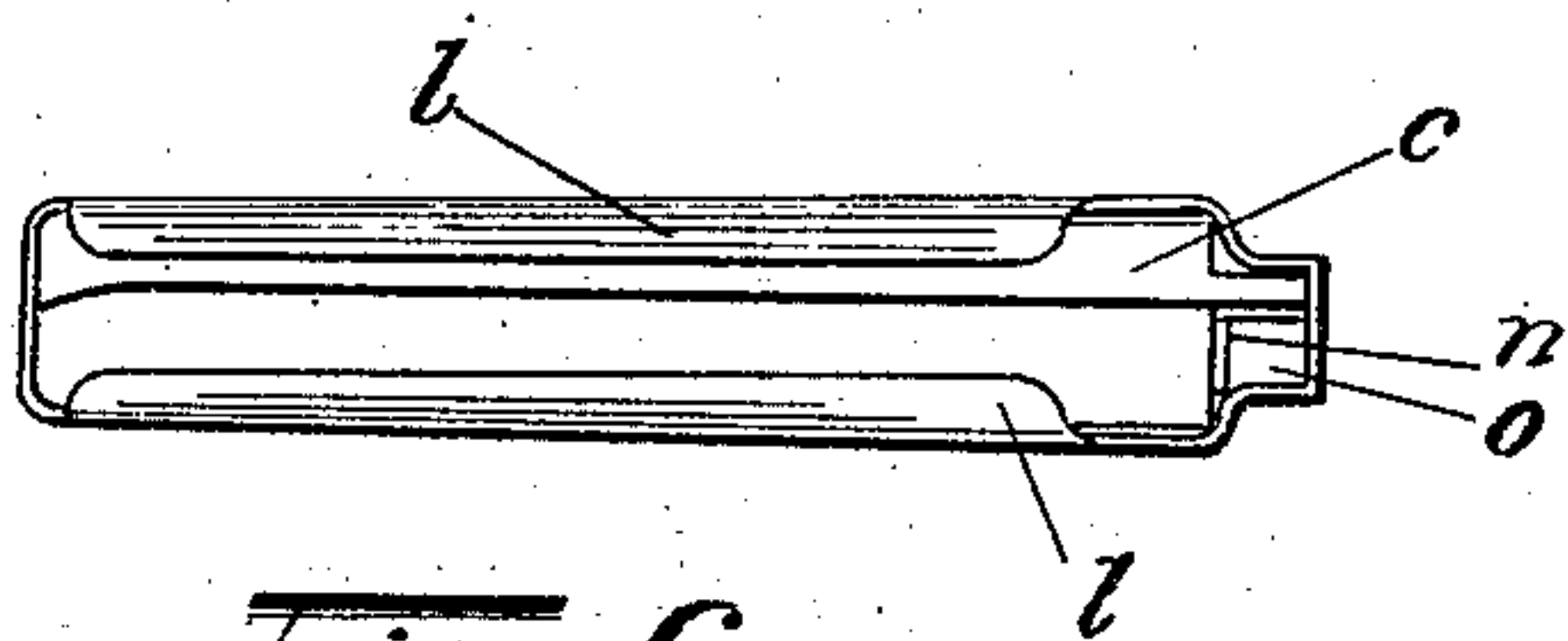


Fig. 6.

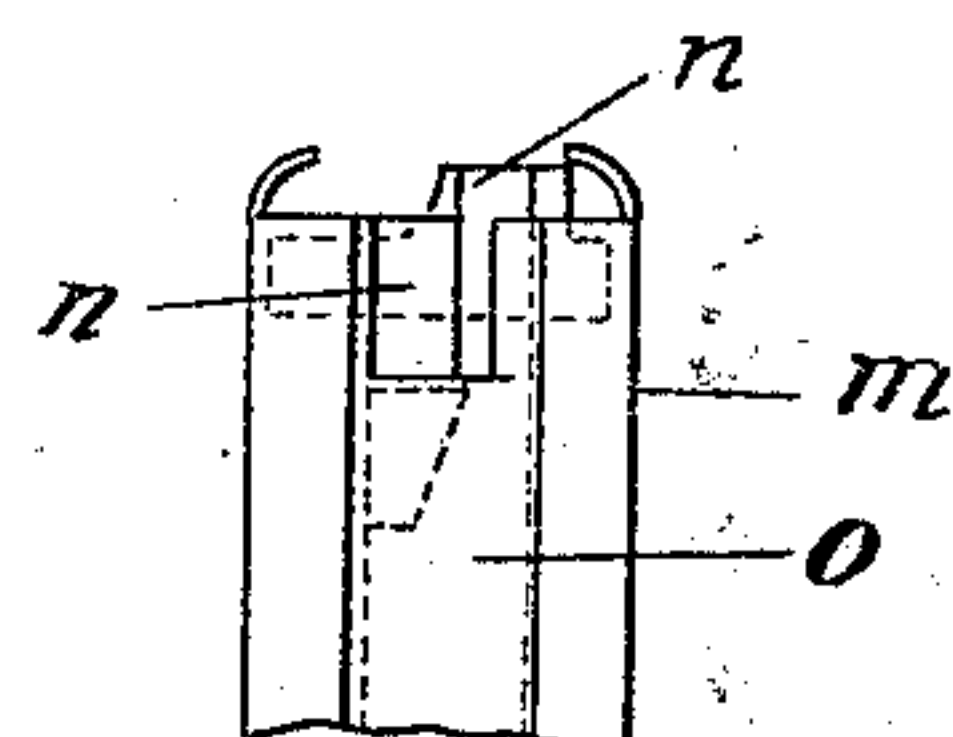


Fig. 7.

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UNITED STATES PATENT OFFICE.

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CARTRIDGE-MAGAZINE.

999,387.

Specification of Letters Patent.

Patented Aug. 1, 1911.

Application filed December 4, 1909. Serial No. 531,419.

To all whom it may concern:

Be it known that I, PAUL MAUSER, subject of the German Emperor, and residing in Oberndorf-on-the-Neckar, in the German Empire, have invented certain new and useful Improvements in Cartridge-Magazines, of which the following is a specification.

The present invention relates to improvements in cartridge magazines which are attachable and removable from or rigidly connected to the receiver of self loading firearms and adapted for a relatively large number of cartridges.

The object of my invention is to provide a cartridge magazine to replace the ordinary magazines which have hitherto been comparatively expensive to manufacture and complicated as they cannot be drawn but must usually be fashioned by a series of bending operations out of a U-shaped bent piece of metal, the edges of the latter being united at the back by a soldering seam.

The present device is composed of a single, and consequently stronger, seamless hollow-shaped part which owing to its method of manufacture constitutes a homogeneous article and in addition to its strength, simplicity and general advantages is much cheaper to manufacture.

With these objects in view and further objects which will appear as the nature of the invention is more fully set forth I will now proceed to describe my invention, reference being had to the appended drawings in which:

Figure 1, is a side elevation of the magazine. Fig. 2, is a rear end elevation of the magazine. Fig. 3, is a horizontal cross section on the line A—A in Fig. 1. Fig. 4, is a detail of the upper right hand corner of Fig. 1. Fig. 5, is a sectional view of the magazine attached to the breech of a firearm. Fig. 6, shows a plan view of the magazine. Fig. 7, is a detail showing the cartridge carrier in its uppermost position. Fig. 8, is a vertical sectional view of the upper part of the cartridge magazine.

Similar reference characters refer to corresponding parts throughout the various views.

m is the casing of the magazine which has inwardly projecting lips *l* formed on the upper part thereof to direct the outgoing cartridges to the breech of the firearm.

The casing has a laterally sliding bottom *b* which is held in closed position by its

own elasticity; the ribs *r* on the side walls of the casing are for the purpose of reinforcement. One edge of the casing is provided with a groove *o* for guiding the cartridge lifter *c* and has at its upper end an inner flank *n* by means of which the cartridge lifter is kept adjusted in its upper position. This flank *n* which in the present case, consists of a separately inserted piece, may be formed by inwardly pressing or bulging the casing at the location shown.

The spring *s* is arranged to push on the carrier and keep the cartridge in position to enter and load the firearm when the breech is ready for it.

h is a clamping piece for holding the casing in place.

The curvature of the casing is made to assist in holding the cartridges which are formed conically and taper toward the front.

The action of the apparatus is as follows: The casing *m* is first attached to the gun by pushing it into the breech opening *f*, and then clamped by the piece *h* in position. The bottom cover *b* is then pulled out and the carrier *c* and spring *s* removed to permit the insertion of the cartridges. When the firearm is loaded and fired the recoil of the breech leaves an opening over the casing, the spring *s* through the carrier, forces a cartridge up into the barrel automatically, the lips *l* and flange *n* assisting to promote proper action; as each cartridge is used the carrier ascends until the casing is completely emptied. In this drawing the casing is arranged for a double column of cartridges, the cartridges feeding alternately from both columns as can be easily seen in Fig. 8. The empty magazine is then filled again in the usual way.

In the method of constructing my device I prefer to use the Huber process, described in British Patents Nos. 3,135 of 1896 and 13,735 of 1899, which has special advantages for the manufacture of this type of cartridge magazine.

Having thus described my invention I claim:

1. A middle stock magazine formed of pressed metal and designed for relatively large number of cartridges and consisting of an integral one-piece fan-shaped seamless hollow body open at both ends and provided with flat side walls having stiffening corrugations or ribs, the back edge wall having

a longitudinal recess or channel to form a guide for a cartridge lifter, the width of the channel being less than the width of said body, the upper side walls of the body
5 having inwardly bent projections to direct the discharge of cartridges, and a closure for the lower open end of said body.

2. A middle stock magazine formed of pressed metal and designed for relatively
10 large number of cartridges and consisting of an integral one-piece fan-shaped seamless hollow body open at both ends and provided with flat side walls having stiffening corrugations or ribs, the back edge

wall having a longitudinal recess or channel 15 to form a guide for a cartridge lifter, the upper side walls of the body having inwardly bent projections to direct the discharge of cartridges, and a closure for the lower open end of said body. 20

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PAUL MAUSER.

Witnesses:

ERNEST ENTENMANN,
PAULINE KLAIBER.