P. GEBAUER.

AUTOMATIC GUN.

APPLICATION FILED MAY 16, 1912.

1,114,463. Patented Oct. 20, 1914.

Fig. 1.

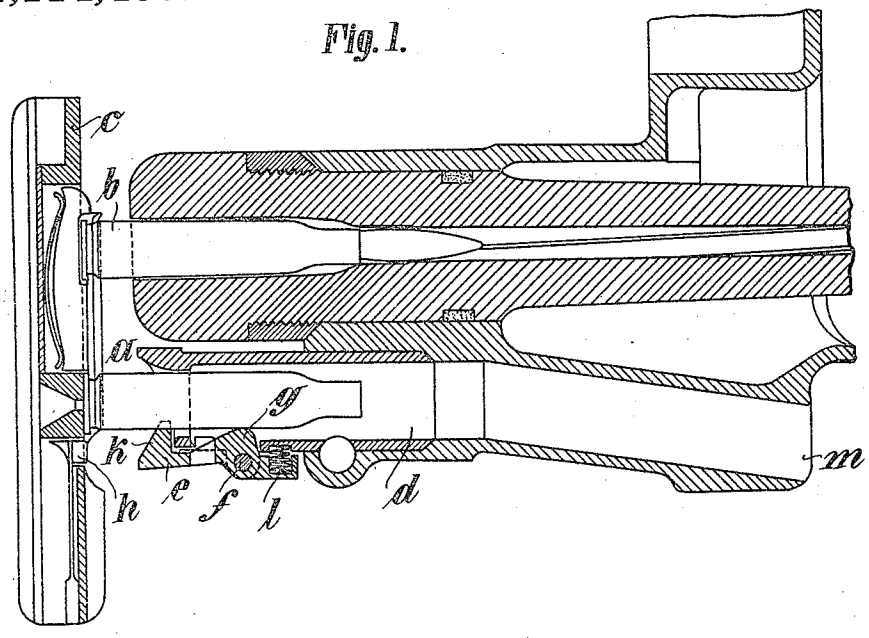
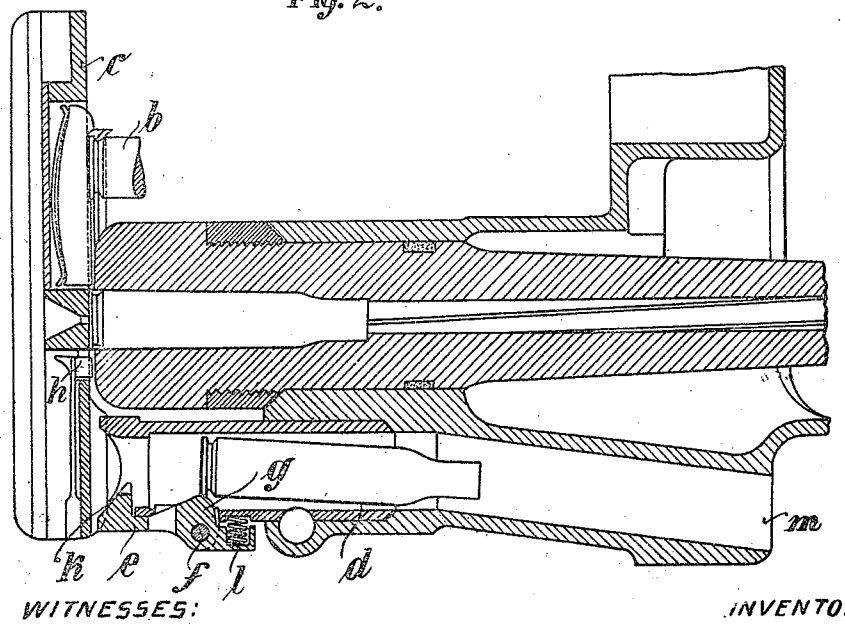


Fig. 2.



WITNESSES:

G. V. Rasmussen

Louis Alexander

INVENTOR

Paul Gebauer

BY

Bressee & Evans

ATTORNEYS

UNITED STATES PATENT OFFICE.

PAUL GEBAUER, OF BERLIN-WILMERSDORF, GERMANY, ASSIGNOR TO DEUTSCHE WAFFEN- UND MUNITIONSFABRIKEN, OF BERLIN, GERMANY.

AUTOMATIC GUN.

1,114,463. Specification of Letters Patent. Patented Oct. 20, 1914.

Application filed May 16, 1912. Serial No. 697,623.

To all whom it may concern:

Be it known that I, PAUL GEBAUER, a citizen of the German Empire, residing at Berlin-Wilmersdorf, in the Kingdom of Prussia, Germany, have invented certain new and useful Improvements in Automatic Guns; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in automatic guns, and more particularly to the mechanism for ejecting the empty cartridge case. In guns of this class the empty cartridge case remains within the ejecting tube or orifice, until another one is inserted, and pushes the first one out of the tube. When unloading the gun it may happen, that the first unfired cartridge located within the ejecting tube is fired.

The object of the improvements is to construct the ejecting mechanism in such a way, that this objection is removed. And with this object in view my invention consists in constructing the ejecting mechanism in such a way, that the cartridge or empty cartridge case to be ejected is safely ejected even when the fire arm is directed upward.

For the purpose of explaining the invention an example embodying the same has been shown in the accompanying drawing, in which the same letters of reference have been used in all the views to indicate corresponding parts.

In said drawings Figure 1, is a longitudinal section of the breech end of the barrel, the ejecting tube, and a part of the cartridge carrier, and Fig. 2, is a similar section showing the cartridges in different positions.

For the purpose of explaining the invention I have shown the same embodied in an automatic gun of the Maxim type. But I wish it to be understood, that my invention may also be embodied in guns of a different type, and that various changes may be made in the arrangement and construction of the parts shown in the figures.

Referring to the figures, the letters *a* and *b* indicate two successive cartridges or cartridge cases, *c* is the cartridge carrier, *d* the ejecting orifice or tube, and *h* the supporting spring which in the proper position of the cartridge carrier thrusts the cartridge within the ejecting tube forward. These parts are known in guns of the type indicated and need no detailed description.

Referring now to those parts to which my invention more particularly relates, I provide a pawl *e* of particular form, which is pivotally mounted at the bottom side of the ejecting tube *d* on a pin or shaft *f*, and is held in the position shown in Fig. 2 by a small spring *l*. As shown the said pawl is formed at its rear end with a nose *k* which is adapted to be pressed by the spring against the cartridge *a* at a point near the bottom of the latter. Above the pivot the pawl is formed with a projection *g*. When an empty cartridge case is being inserted the pawl *e* is depressed with its nose *k* against the action of the spring *l*. Now the cartridge case is supported by the pawl at two points, viz. on the nose *k* and the projection *g*. Thereby it is securely held in position. After being released by the cartridge carrier the cartridge case is pushed forward by the spring *h*, so as to slide beyond the nose *k* and, after the pawl has been rocked upward, beyond the projection *g* and out of the ejector tube. Even in an inclined position of the arm there is no possibility for a cartridge case to remain within the ejector tube or to fall back into the breech block casing of the gun.

I claim herein as my invention:

1. In an automatic gun, an ejector tube, means adapted to move a cartridge or cartridge case into the same, a pair of connected movable projections extending transversely into said tube for supporting said cartridge or cartridge case, means for moving said cartridge or cartridge case beyond the first projection and relatively to the second projection, and means for moving said first projection behind said cartridge or cartridge case and for actuating the second projection whereby said cartridge or cartridge case is impelled toward the exit end of said ejector tube.

2. In an automatic gun, an ejector tube, means adapted to move a cartridge or cartridge case into the same, a member pivotally mounted on said ejector tube, a nose on said member extending transversely into said tube and arranged to engage and be moved in one direction by said cartridge or cartridge case to swing said member on its pivot, a projection on said member at a distance from said nose extending into said tube and arranged to engage said cartridge

or cartridge casing and to be actuated in the arc of a circle toward the inlet end of said tube as the said member is swung, means for moving said cartridge or cartridge case beyond said nose and relatively to said projection and means for moving said member to snap said nose behind said cartridge or cartridge case and to actuate said projection in the arc of a circle toward the exit end of said tube whereby said cartridge or cartridge case is impelled and tilted downwardly toward said exit end of the ejector tube.

3. In an automatic gun, an ejector tube, means adapted to move a cartridge or cartridge case into the same, a member pivotally mounted on said ejector tube, a nose at the free end of said member extending transversely into said tube approximately at the inlet end thereof and arranged to engage and be moved in one direction by said cartridge or cartridge case to swing said member on its pivot, a projection on said member adjacent to its pivot extending into said tube and arranged to engage said cartridge or cartridge case and to be actuated in the arc of a circle toward the inlet end of said tube as the said member is swung, a spring for moving said cartridge or cartridge case beyond said nose and relatively to said projection and a spring for moving said member to snap said nose behind said cartridge or cartridge case and to actuate said projection in the arc of a circle toward the exit end of said ejector tube whereby said cartridge or cartridge case is impelled and tilted downwardly toward said exit end of the ejector tube.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

PAUL GEBAUER.

Witnesses:
WOLDEMAR HAUPT,
HENRY HASPER.