

W. BAKER.
EJECTING MECHANISM FOR DROP-DOWN SMALL ARMS.
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1,035,940.

Patented Aug. 20, 1912.

Fig. 1.

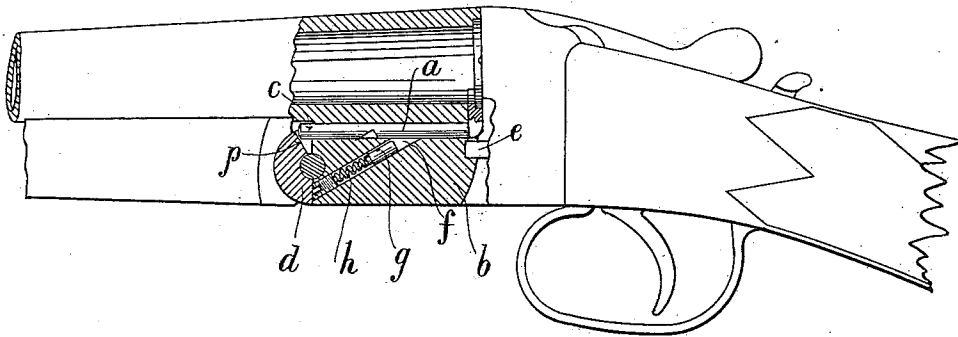


Fig. 2.

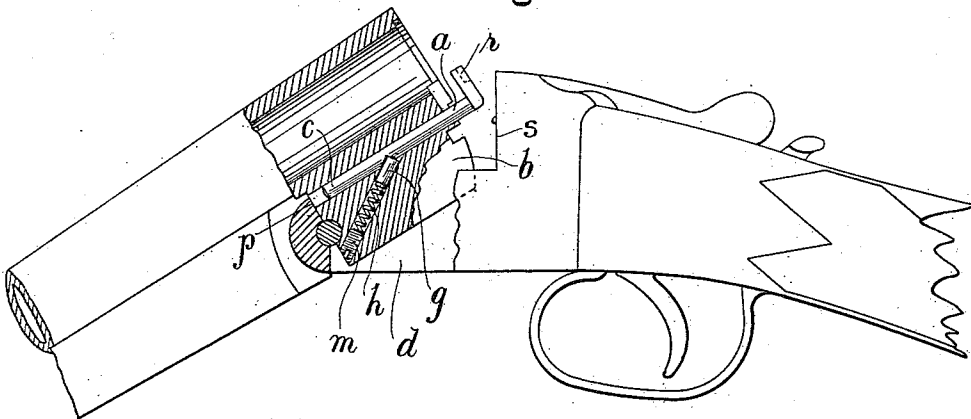


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM BAKER, OF BIRMINGHAM, ENGLAND.

EJECTING MECHANISM FOR DROP-DOWN SMALL-ARMS.

1,035,940.

Specification of Letters Patent.

Patented Aug. 20, 1912.

Application filed December 8, 1911. Serial No. 664,657.

To all whom it may concern:

Be it known that I, WILLIAM BAKER, subject of the King of Great Britain, residing at 87 Snow Hill, Birmingham, Warwickshire, England, have invented certain new and useful Improvements in Ejecting Mechanism for Drop-Down Small-Arms, of which the following is a specification.

This invention relates to ejecting mechanism for drop down small arms of the type in which an extractor, slidingly mounted adjacent the breech of the barrel, is pushed rearward during the opening movement of the gun until a part of the leg of the extractor comes under the influence of a spring pressed member which imparts a kick or ejecting movement to the same, and refers more particularly to the means by which the extractor is controlled and operated.

The invention consists of mechanism of the above type in which the leg portion of the extractor is provided with a notch adapted to be engaged on its rear side by a spring pressed movable member or kicker to eject the cartridge, and the front side of said notch forms a stop when engaged by the kicker to limit the rearward movement of the extractor.

The invention also comprises the particular form of mechanism hereinafter described by which such essential parts are constructed and arranged in a simple way.

Referring now to the accompanying drawings which illustrate the preferred construction:—Figure 1 is a sectional view showing the gun closed; Fig. 2 is a similar view with the gun open; and Fig. 3 is a detail view of the extractor.

The extractor *a* is slidingly carried in the lump *b* or similar part which is formed upon or carried immediately below the end of the barrel, and the forward or inner end *c* of said extractor is made to stand somewhat beyond the joint end of the lump *b* when the gun is closed, as shown in Fig. 1, and usually this end of such lump is adapted to hingewise engage with the body joint *d*, while its other end is made to engage with the locking bolt *e*. In this lump *b* or its equivalent an inclined hole *f* is drilled proceeding from the lower part at the forward end of the lump and inclined upward so as to strike into the horizontal hole in which slides the extractor *a*, and in such inclined hole *f* is placed a short plunger *g* behind which is arranged a spiral spring *h*

held therein by a short plug or screw *m*. In the leg of the extractor *a* a beveled recess *n* is made, with which the aforesaid plunger *g* may engage as shown in Fig. 2. The tooth-like portion or shoulder *o* of this recess occupies a position a little forward of the upward end of the inclined plunger *g* when the gun is closed, the plunger at this time being under pressure from the spring *h* and therefore having a tendency to shoot rearward.

When the gun is opened, some suitable portion, such as *p*, of the action body comes in resisting contact with the projecting end *c* of the extractor, and thus the latter is moved rearward a certain distance by which the tooth portion *o* of the recess *n* is brought opposite the spring pressed plunger *g*, which latter instantly engages therewith, and with sudden rapidity urges the extractor rearward to give the desired ejection. The point at which the plunger is allowed to operate may be at any time during the opening of the gun providing the barrel is in a position to permit the cartridge case to clear the body or stock of the gun. The movement of the extractor is soon arrested by reason of the fact that the plunger moves in a line obliquely crossing the horizontal line of the extractor, and consequently when the plunger has completely filled the recess *n* the beveled portion *q* of the recess coincides with and jams against the projected plunger *g*, thus preventing further movement of the extractor. When closing the gun however the extractor is forced in the reverse direction by the engagement of its end *r* with the part *s* of the gun. The plunger is thereby also forced forward until the recess *n* passes clear thereof, as shown in Fig. 1, ready for a repeat action. The end *r* of the extractor is of curved formation and provided with a recess adapted to receive the annular flange of the cartridge. The end of the barrel is also provided with a recess to receive the end *r* of the extractor, as clearly shown in Fig. 2.

The device described may of course be duplicated for a double barreled gun.

What I claim as my invention and desire to secure by Letters Patent is:—

Ejecting mechanism for drop down small arms, comprising an extractor having a leg slidingly mounted in a lump on the breech end of the barrel, an extension of said leg projecting through the front end of

said lump, a portion of the body of the gun
to engage the end of said extension and
force the extractor rearwardly when the
gun is opened, a spring pressed plunger ar-
5 ranged in an inclined hole in said lump, a
notch in said leg having its rear part
formed as a shoulder which is engaged by
the rear end of said plunger when the gun
is opened, and a front part to said notch
10 formed as a beveled face which engages said

plunger to limit the rearward movement of
the extractor.

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

WILLIAM BAKER.

Witnesses:

H. R. KERSLAKE,
J. B. HAYWARD.

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