J. DUFFEK.

BREECH LOCK FOR FIREARMS.

APPLICATION FILED JULY 13, 1915.

1,163,516.

Patented Dec. 7, 1915.

Fig. 1.

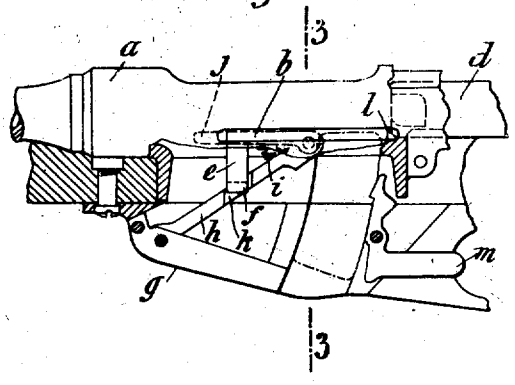


Fig. 2.

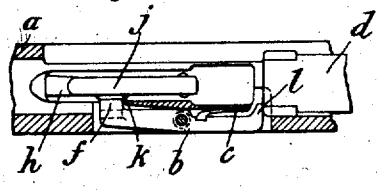
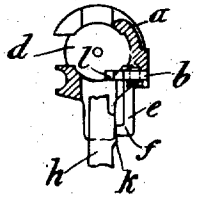


Fig. 3.



Witnesses:

W. E. McNabb.

Inventor

Josef Duffek

by Pinkney L. Norris

Attorney

UNITED STATES PATENT OFFICE.

JOSEF DUFFEK, OF STEYR, AUSTRIA-HUNGARY, ASSIGNOR TO THE FIRM OF OESTERREICHISCHE WAFFENFABRIKS-GESELLSCHAFT, OF STEYR, AUSTRIA-HUNGARY.

BREECH-LOCK FOR FIREARMS.

1,163,516. Specification of Letters Patent. Patented Dec. 7, 1915.

Application filed July 13, 1915. Serial No. 39,672.

To all whom it may concern:

Be it known that I, JOSEF DUFFEK, director of a company, a subject of the Emperor of Austria-Hungary, residing at Steyr, Upper Austria, in the Empire of Austria-Hungary, have invented certain new and useful Improvements in Breech-Locks for Firearms, of which the following is a specification.

The invention relates to a locking device for the movable breech bolt of automatic fire-arms with magazine chamber in the case of which a two-armed locking lever is arranged in the casing, which lever ordinarily, that is, when the magazine is charged, is forced out of the path of the movable breech part by means of a spring. When the magazine is empty, a depending arm fixed to the front arm of the locking lever is adapted to abut by means of its projection against a beveled-off projection of the feeding lever, whereby the front arm of the locking lever is rocked outward and the rear arm is rocked inward as soon as its spring is tensioned, whereby a catch fixed to the rear end of the last-mentioned arm is caused to move within the path of the movable breech bolt, thus maintaining this latter in its open position when the magazine is empty or the last cartridge has been fired off.

The accompanying drawings illustrate by way of example a locking device of the type described applied to an automatic fire-arm having a magazine chamber.

Figure 1 is a lateral view partly in section thereof. Fig. 2 is a longitudinal horizontal section, and Fig. 3 is a section according to the line 3—3 in Fig. 1, the walls of the magazine being removed.

Referring to these drawings: A two-armed locking lever *b* is pivoted in the casing *a*, the spring *c* of this lever ordinarily tending to force its rearward arm outward clear of the path of the movable breech bolt *d*. The front arm of the locking lever *b* is provided with a depending arm *e* having a projection *f* which is caused to abut against the beveled-off projection *k* of the feeding lever *h*.

The magazine chamber consists of the wall portions *g* and furthermore comprises the feeding lever *h*, the supporting spring *i*, the feeding member *j* and the magazine holder *m*.

When the magazine is empty, the feeding lever *h* is forced upward by its spring (not shown in the drawings), whereby its projection *k* comes to abut against the projection *f* of the depending arm *e* of the locking lever, thereby forcing its front arm outward. At the same time, the rear arm of the lever is rocked inward, causing a catch *l* fixed to the rear arm of the locking lever to move within the path of the movable breech bolt *i. e.* in front of the same and thus securing this latter in its open position.

Claims:

1. A locking device for automatic fire-arms having a magazine chamber and a movable breech bolt, said device comprising a two-armed rocking lever disposed in the chamber and formed on one end thereof with a catch, means for moving and normally holding said catch out of the path of said movable breech bolt, an arm extending from said lever, and a feeding lever adapted when the magazine is emptied to engage said arm, whereby the rocking lever is operated and said catch moved into the path of the movable breech bolt.

2. A locking device for automatic fire-arms having a magazine chamber and a movable breech bolt, said device comprising an intermediately pivoted rocking lever disposed in the chamber, a locking member formed on one end of said lever and adapted to hold the breech bolt open when the magazine is emptied, spring means exerting tension on said lever to rock the same and move the locking member out of operative position, said spring means normally holding the locking member in said inoperative position, an arm extending from said lever, a cartridge-feeding member for the magazine, and a wedge member carried by said

feeding member and adapted to engage said arm when the magazine is emptied, whereby the lever is rocked to move said locking member in engagement with said movable breech bolt and against the tension of said spring means.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOSEF DUFFEK.

Witnesses:
ARTHUR LINDENSTEAD,
AUGUST FUGGER.