

J. C. KREMER & A. H. FOX.  
FORE ARM LOCK FOR GUNS.  
APPLICATION FILED DEC. 23, 1910.

1,029,374.

Patented June 11, 1912.

Fig. 1.

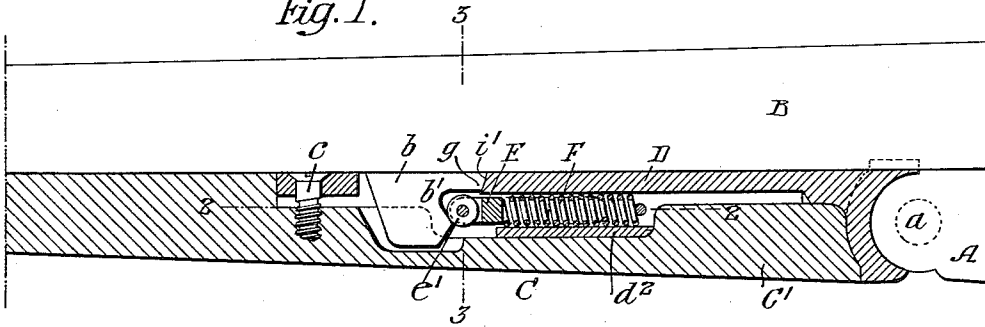


Fig. 2.

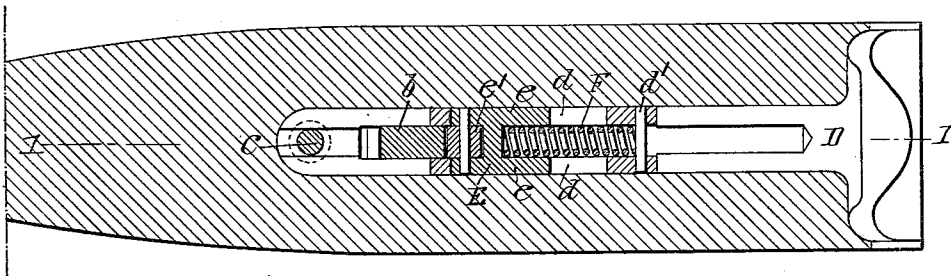


Fig. 6.

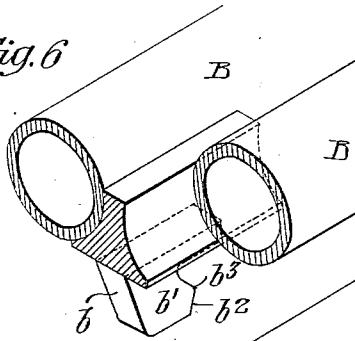


Fig. 4.

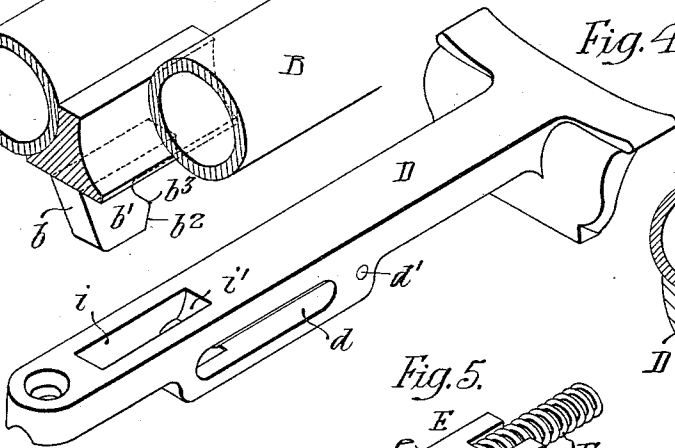


Fig. 3.

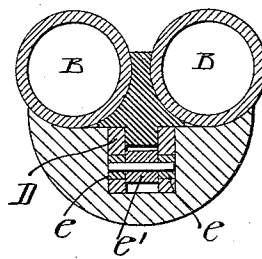
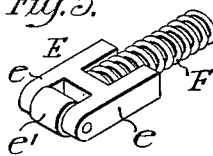


Fig. 5.



Witnesses.—

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# UNITED STATES PATENT OFFICE.

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## FORE-ARM LOCK FOR GUNS.

1,029,374.

Specification of Letters Patent.

Patented June 11, 1912.

Application filed December 23, 1910. Serial No. 598,921.

*To all whom it may concern:*

Be it known that we, JOHN C. KREMER and ANSLEY H. FOX, citizens of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Fore-Arm Locks for Guns, of which the following is a specification.

The object of our invention is to provide a simple and effective fastener for securing the fore arm of a gun, particularly of the class known as "break down breech loading guns".

In the accompanying drawing:—Figure 1, is a side view of sufficient of a gun, with the fore arm in section, on the line 1—1, Fig. 2, to illustrate our invention; Fig. 2, is a sectional plan view on the line 2—2, Fig. 1; Fig. 3, is a transverse sectional view on the line 3—3, Fig. 1; Fig. 4, is a perspective view of the fore arm iron; Fig. 5 is a detached, perspective view of the sliding latch bolt, and Fig. 6, is a sectional perspective view of the barrels of the gun illustrating the lug which is engaged by the bolt.

A is the breech frame.

B—B are the barrels of a double barreled shot gun, in the present instance hinged at *a* to the breech frame.

C is the fore arm consisting of the fore arm iron D and the wooden body section C', which is secured to the iron in any suitable manner, in the present instance by a screw *c*. The fore arm iron is shaped to accurately fit the hinged portion of the breech frame, as well as the under side of the barrel section of the gun. The iron D is recessed at *i* for the passage of the lug *b* and the wooden section *c'* is recessed to receive the lug *b* and the depending portions of the iron D. The lug *b* is notched at *b'* to receive the latch bolt E, which is carried by the fore arm iron D. The latch bolt E is made in the form of an H, Fig. 5, having side portions *e—e*, which travel in guideways *d*, depending from the fore arm iron D. The guides *d* are closed at each end, as illustrated in Fig. 4, so as to make the part substantial and to provide a rigid support for the latch bolt E.

Mounted on a pin carried by the forward end of the latch bolt E is a roller *e'* and mounted between the cross member of the latch bolt and a transverse pin *d'* on the fore arm iron D is a spring F, which tends to force the latch bolt forward, but which

will yield under pressure. The spring is confined laterally by the depending portions *d* forming the guideway and vertically by the top of the iron D and the web *d'* extending from one depending portion *d* to the other. The notched face of the lug *b* is beveled at *b'* so as to cause the latch bolt to be pushed back as the fore arm is being placed in position and as soon as the roller passes the projecting portion *b'* of the lug, it moves forward into the notch *b'*, retaining the fore arm in position. The inclined wall of the notch causes the fore arm to hug the barrel closely so as to prevent rattling. Furthermore, as the latch is between the hinge *a* and the lug *b*, the fore arm iron is pressed hard against the pivot portion of the breech frame, taking up any slack due to the wear of the parts so that the arm is always tightly attached to the gun when in position. We also provide a neat fit between the face *i'* of the fore arm iron and the portion *g* of the lug; the parts being preferably curved as shown, so as to make an accurate fit at this point.

Thus it will be seen by the above construction that a very simple and effective fastening is provided for securing the fore arm to the gun and that the wear will be taken up, preventing rattling, which is a common occurrence in guns after being used for any great length of time.

In applying the fore arm to the gun, all that is necessary is to first place the butt end of the fore arm against the front end of the breech frame, turning it on the breech frame as a pivot and when the latch reaches the bevel portion of the lug, the spring will be compressed and as soon as the roller passes the projecting portion or high point on the lug, it will spring back of the said portion and thus retain the fore arm in position. The fore arm can be readily removed by simply pulling on the outer end of the fore arm, using the end of the breech frame as a pivot and the inclined surface of the notch in the lug will allow the roller to be pressed back against the pressure of the spring when force is applied and as soon as the roller passes the projecting portion *b'*, or high point of the lug, the fore arm is free.

We claim:

1. The combination in a gun, of a breech piece, a barrel section pivoted thereto hav-

ing a depending lug, the lug having a notched face, a fore arm consisting of a fore arm iron and a wooden section secured thereto, said fore arm iron being slotted at  
5 each side to form guides, a rectangular latch bolt extending into the slots and adapted to the guides, a loosely mounted roller carried by the outer end of the latch bolt, and a spring mounted in the fore arm iron and  
10 bearing against the rear of the latch bolt.

2. The combination in a gun, of a breech frame, a barrel section pivoted thereto, said barrel section having a depending lug, with a notched face, a fore arm consisting of a  
15 body section and an iron secured thereto and shaped to fit the end of the breech section, said iron having a depending portion,

with longitudinal slots therein, a latch bolt in the form of an H, a loosely mounted roller carried by the latch bolt, and a spring  
20 mounted between the cross member of the latch bolt and a pin on the fore arm iron, the said roller engaging the notched face of the barrel lug when the fore arm is in  
25 position.

In testimony whereof, we have signed our names to this specification, in the presence of two subscribing witnesses.

JOHN C. KREMER.  
ANSLEY H. FOX.

Witnesses:

E. S. BAER,  
O. ROBINSON.

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