No. 859,477. PATENTED JULY 9, 1907.

A. J. AUBREY.

FIREARM.

APPLICATION FILED DEC. 8, 1904. RENEWED JAN. 15, 1907.

Fig. 1.

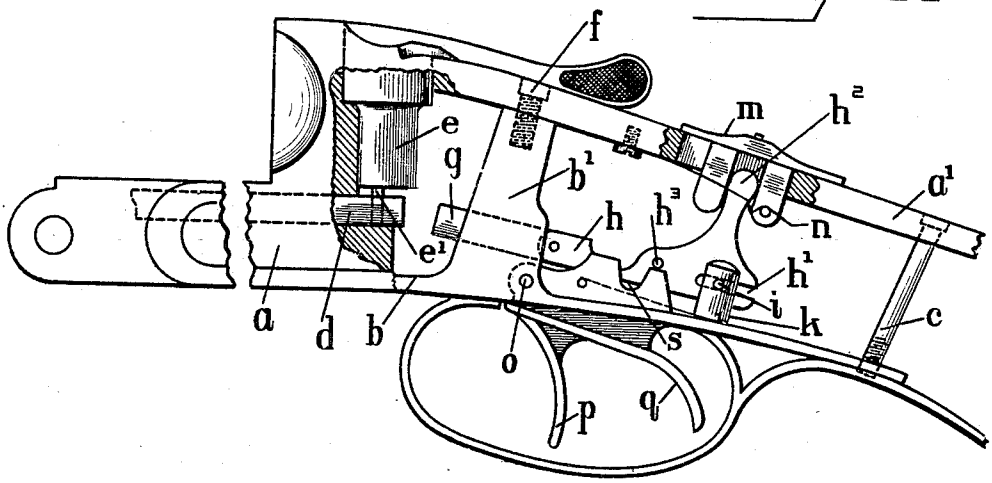
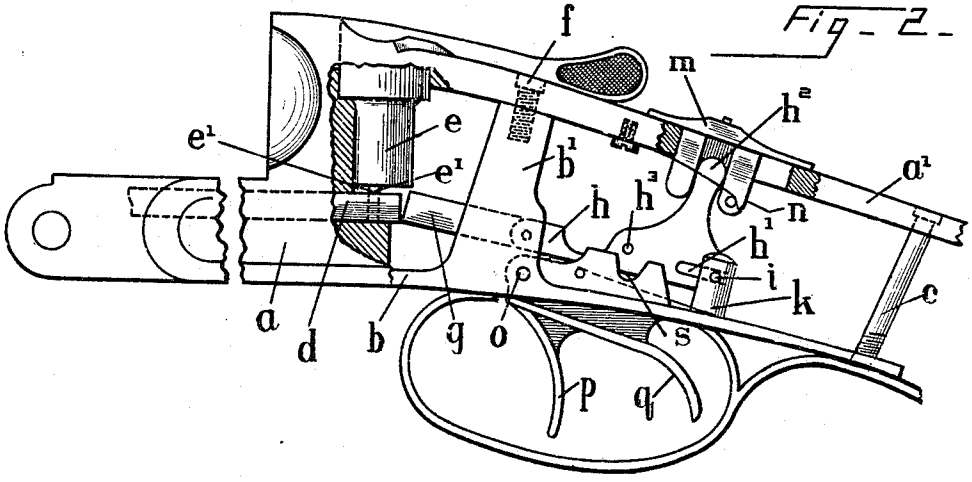


Fig. 2.



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FIREARM.

No. 859,477. Specification of Letters Patent. Patented July 9, 1907.

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To all whom it may concern:

Be it known that I, ALBERT J. AUBREY, a citizen of the United States, residing at Hopkinton, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Firearms, of which the following is a specification, reference being had to the accompanying drawings.

This invention is in fire-arms and relates particularly to so-called break-down guns, and my immediate purpose is to improve the safety devices forming part of the operative mechanism of the arm.

In the accompanying drawing, Figures 1 and 2 are side elevations of the breech frame of a break-down gun, having my present improvements properly mounted therein. In Fig. 1 the safety mechanism is so adjusted that the triggers are held out of engagement with the sears, while in Fig. 2 the said safety mechanism is released and the triggers are left free to engage and lift the sears.

Referring to these drawings, the letter *a* indicates the said breech frame, and *b* denotes the lower tang, the said tang being removably connected to the lower portion of the said frame. The rear or free end portion of tang *b* is connected to the rear end portion of the upper or fixed tang a^1 by a screw *c*. Mounted to slide longitudinally in frame *a* is a barrel-locking bolt *d* that is moved rearward by an eccentric pin or stud c^1, set in the lower end of the top snap bolt *e*. When the top snap lever is swung to one side the eccentric pin draws the bolt *d* rearward, and thus releases the barrels.

Mounted upon the lower tang *b*, or formed as an integral part thereof, is a post b^1 that is secured to the top tang by a screw *f*.

g denotes a round rod arranged to slide in the post b^1, the front end of rod *g* being adapted to engage the rear end of the locking bolt, as is best seen in Fig. 2 of the drawing. Hinged to the rear end of rod *g* is a plate *h* whose rear end portion is slotted as at h^1, to straddle a rivet *i* that extends through a post *k*, fixedly mounted upon the lower tang *b*; the arrangements of parts being such that the plate *h* may slide a limited distance in the post *k*, and is at the same time held in an upright position by the said post. The rear portion of plate *h* is also formed with an upward extension h^2, that lies in an opening in a sliding thumb piece *m*, mounted upon the upper tang a^1, and it will now be understood that, when the said thumb piece is slid forward or backward upon the upper tang, the plate *h* and the connected rod *g* will be correspondingly moved. A spring *n*, secured to the under side of tang a^1, bears upon trunnions extending laterally from the thumb piece *m* with sufficient frictional force to prevent the accidental displacement of the thumb piece and connected safety device.

The triggers of the arm are pivoted at *o*, and are indicated by the letters *p* and *q*, each of said triggers being provided at its upper portion with a fin or blade that is notched as at *s*, and the said notch is so located in each of said triggers that when the safety plate *h* is moved forward, as in Fig. 2, a trunnion h^3 in the plate *h* is coincident with the said notch, and the triggers may then be raised to lift the sears out of engagement with the hammers. When, however, the safety device is forced rearward, the trunnion h^3 then lie immediately over the rear end portion of the trigger blade, as seen in Fig. 1, and it will be obvious that the triggers will then be held out of engagement with the sears.

The setting of the safety device is accomplished automatically by the withdrawal of bolt *d*, to unlock the barrels; that is to say, when the bolt *d* is drawn rearward by the top snap, as I have already explained, the rear end of said bolt engages the front end of the rod *g*, and thus forces the said rod and the connected plate *h*, rearward, and thus sets the safety device.

I am aware that it is not broadly new to provide longitudinally movable safety bolts that are operated by the sliding movement of the barrel-locking bolt.

By the employment of the joint between the parts *g* and *h* at the rear of the post b^1, any springing of the thin lower tang by the screwing home of the screw *c* will not affect the ease of operation of the parts *g* and *h*, which will automatically adjust themselves to any disalinement of their bearings.

My described safety device is of very simple construction, and has the desirable advantage of being readily applied to break-down guns of ordinary construction and without requiring expensive changes in such guns.

Having thus described my invention, I claim:—

1. In a break-down gun, in combination with the triggers, a slidable barrel-locking bolt, a fixed guide post b^1, a rod located in the path of said bolt and adapted to slide in a right line only in said post, a plate hinged to said rod at the rear of said post, and trunnions mounted in said plate, in the path of said triggers and a screw connecting the upper and lower tang in front of said plate, substantially as specified.

2. In a break-down gun, the combination with the triggers, of a slidable barrel-locking bolt, a fixed guide-post, a rod located in the path of said bolt and adapted to slide in a right line only in said post, a sliding plate hinged to said rod to the rear of said post and mounted to move in right line, and a trunnion on said plate in the path of the triggers, and a screw connecting the upper and lower tang in front of said plate.

3. In a break-down gun, the combination with the triggers, of a slidable barrel-locking bolt, a fixed guide-post, a rod located in the path of said bolt and adapted to slide in a right line only in said post, a sliding plate hinged to said rod to the rear of said post and mounted to move in right line, a trunnion on said plate in the path of the

triggers, a screw connecting the upper and lower tang in front of said plate, and means for guiding the rear end of said plate and holding it against vertical displacement.

4. In a break-down gun, the combination with the triggers, of a slidable barrel-locking bolt, a fixed guide-post, a rod located in the path of said bolt and adapted to slide in a right line only in said post, a sliding plate hinged to said rod to the rear of said post and mounted to move in right line, a trunnion on said plate in the path of the triggers, and a screw connecting the upper and lower tang in front of said plate, the rear end of said plate being slotted, and a post carrying a pin engaged in said slot.

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

ALBERT J. AUBREY.

Witnesses:
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MAY F. RITCHIE.