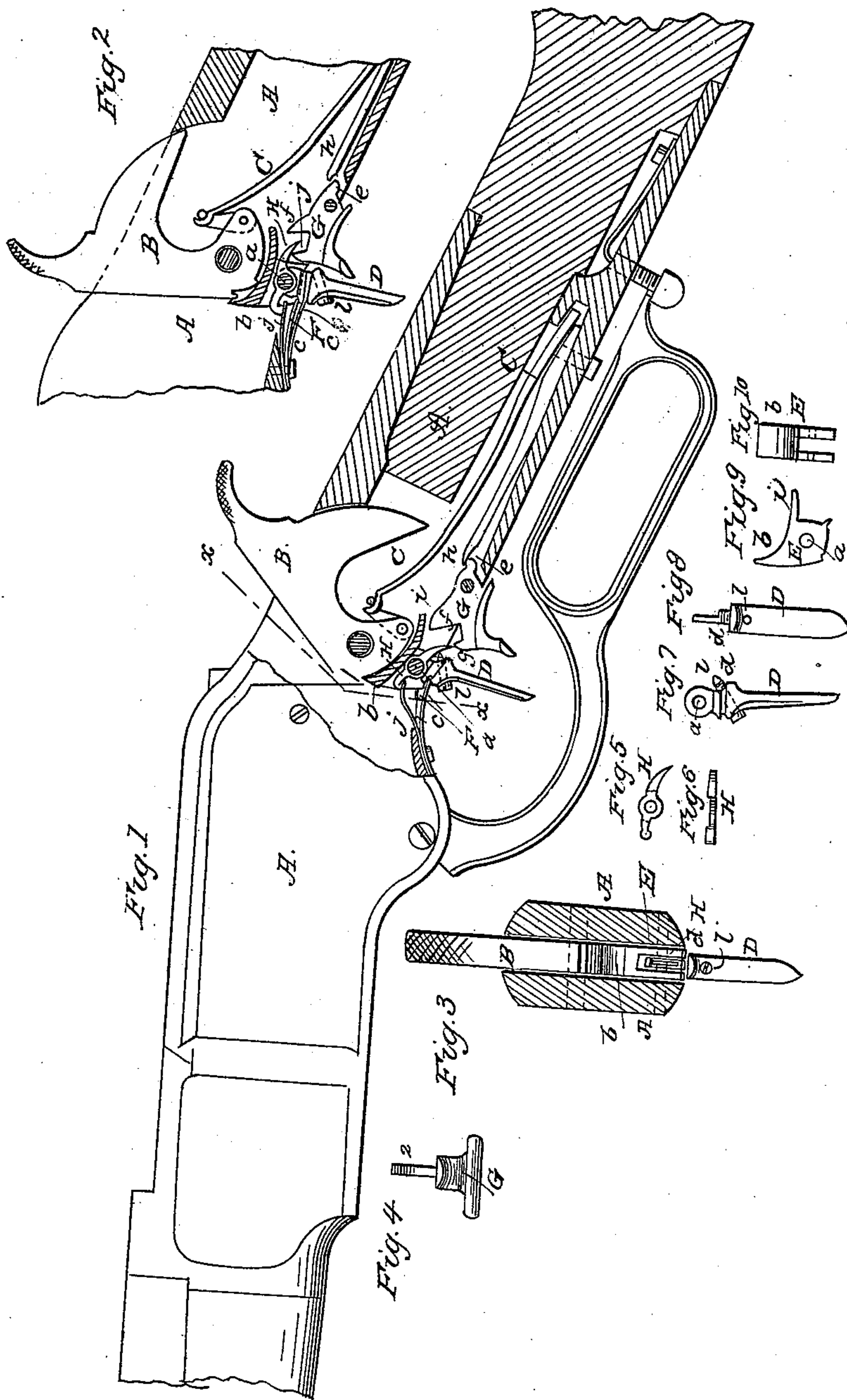


J. DEUTZ.

Gun Lock.

No. 106,337.

Patented Aug. 16, 1870.



Witnesses  
Aug. Kida  
L. S. Mabell

Inventor  
J. Deutz  
PER Mum. & Co.

# UNITED STATES PATENT OFFICE.

JOSEPH DEUTZ, OF SAN ANTONIO, TEXAS.

## IMPROVEMENT IN GUN-LOCKS.

Specification forming part of Letters Patent No. 106,337, dated August 16, 1870.

*To all whom it may concern:*

Be it known that I, JOSEPH DEUTZ, of San Antonio, in the county of Bexar and State of Texas, have invented a new and Improved Hair-Trigger Attachment to Fire-Arms; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 represents a side view, partly in section, of my improved hair-trigger attachment. Fig. 2 is a side view of the same, showing the parts in a different position. Fig. 3 is a transverse section of the same, taken on the plane of the line *x x*, Fig. 1. Fig. 4 is a detail side view of the tripping device. Fig. 5 is a detail side view of the hair-trigger catch. Fig. 6 is an edge view of the same. Fig. 7 is a side view of the main trigger. Fig. 8 is a face view of the same. Fig. 9 is a side view of the trigger-holder. Fig. 10 is an end view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new hair-trigger attachment which is applicable to fire-arms of all kinds, and of such simple construction that it will be reliable and durable.

The invention consists in a novel application of hair-trigger catch to the main trigger, which operates together with a holder and separate springs, as hereinafter more fully described.

A in the drawing represents the stock of a fire-arm of suitable construction. B is the hammer, and C the hammer-spring.

The main trigger D is, by a pin, *a*, pivoted to the stock, the same pin *a* serving also as a pivot for a slotted holder or hammer-catch, E, which straddles the upper end of the trigger, as shown in Fig. 3.

The upper edge of the holder E is concave to fit the lower edge of the hammer. The forward ear *b* of the holder serves as a catch for the notches of the hammer.

F is a spring, which holds the front end of

the holder up against the hammer. A spring, *e*, holds the trigger forward.

F and *e* may be made in one piece, if desired, by cutting one spring.

When the hammer is cocked, it is so held by the holder E. By touching the trigger D a shoulder, *d*, at the back of the same strikes the holder and throws it out of the notch, so as to liberate the hammer.

G is the tripping device, pivoted to the stock behind the main trigger. It has three projecting ears, *e*, *f*, and *g*. The ear *e*, in rear, is under a spring, *h*. The upper front ear, *f*, is under an arm, *i*, of the holder E, and the lower front ear, *g*, in position for the catch H. This catch H is, by the pin *a*, pivoted to the main trigger D. Its front arm is held up by a spring, *j*.

The rear arm of the catch H is to act upon the ear *g* of the hair-trigger. When the latter is not used, the rear arm of the catch H will be between the ears *f* and *g*, resting, in fact, on the lower ear, *g*. The main trigger is then used, as aforesaid, without any effect upon the hair-trigger. When the latter is to be used, it is, previous to the cocking of the piece, drawn down. Its arm *f* will then push the rear arm of H down against the point of a screw, *l*, projecting from the main trigger. During this motion of the tripping device G, the lower ear, *g*, of the same is carried past the catch H, and is then, by the spring *h*, thrown against the end of the same.

In Fig. 1 all the parts are shown in proper position for firing with the aid of the hair-trigger. The catch H holds the tripping device down. As soon as, by the least motion of the main trigger, which is in contact with the catch by the pin *l*, the catch H is moved past the point *g* of the hair-trigger, the latter will be instantly thrown up by the spring *h*, and will, with the arm *f*, strike the holder E, so as to swing the same clear of the hammer-notches.

After firing, the parts are in the position shown in Fig. 2. The rear end of the catch rests again on the ear *g*, being kept thereon by the spring *j*. A downward motion of the



tripping device will again set the parts for immediate action.

By means of the screw *l*, the position of the catch can be regulated so that the same will be released with greater or less exertion.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

1. The catch *H*, pivoted to the trigger *D*, and held in position by a spring, *j*, substantially as herein shown and described.

2. The holder *E*, catch *H*, and trigger *D*, combined with the tripping device *G* and spring *h*, substantially as herein shown and described.

JOSEPH DEUTZ.

Witnesses:

R. C. NORTON,  
A. SCHEIDEMANTEL.