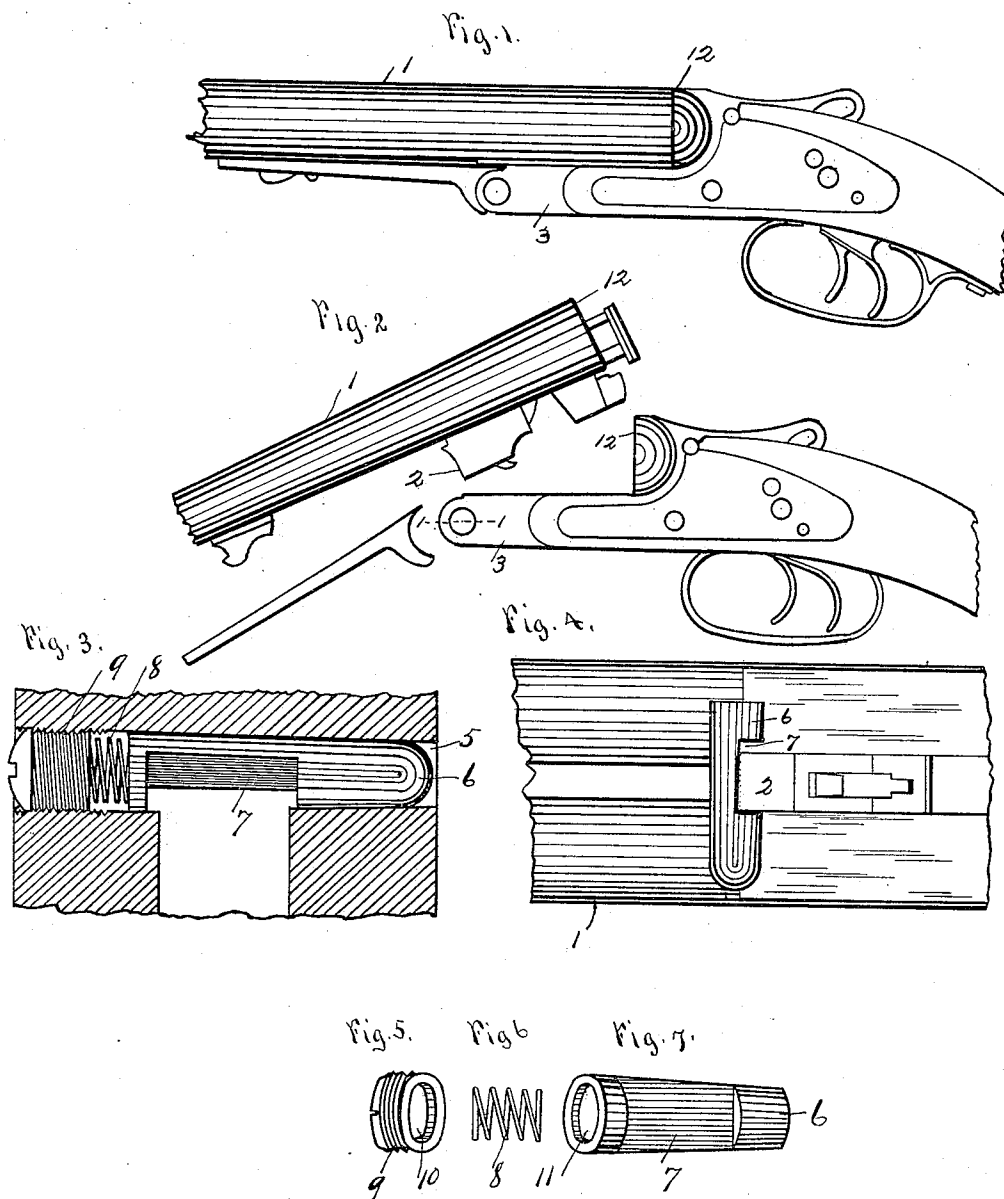


(No Model.)

A. D. BLANCHARD.
HINGE PIN FOR BREAKDOWN GUNS.

No. 572,520.

Patented Dec. 8, 1896.



Witnesses
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UNITED STATES PATENT OFFICE.

ALBERT D. BLANCHARD, OF WICHITA, KANSAS.

HINGE-PIN FOR BREAKDOWN GUNS.

SPECIFICATION forming part of Letters Patent No. 572,520, dated December 8, 1896.

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To all whom it may concern:

Be it known that I, ALBERT D. BLANCHARD, a citizen of the United States of America, residing at Wichita, in the county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in Breech-Loading Guns, of which the following is a specification, reference being had therein to the accompanying drawings, and the figures of reference thereon, forming a part of this specification, in which—

Figure 1 is a side view of a portion of a breech-loading gun. Fig. 2 is a side view of the same, showing the barrel and stock-frame. Fig. 3 is a sectional view of a portion of a gun-frame, showing my improved means for automatically taking up the wear in the hinge-joint of a gun. Fig. 4 is a bottom plan of the barrel, showing the conical-shaped oscillating pin pressing against the barrel-lug. Fig. 5 is a perspective view of a screw-cap. Fig. 6 is a side view of a spiral spring. Fig. 7 represents a perspective view of an oscillating conical-shaped pin for automatically taking up the slack caused from wear in the hinge-joint of a gun.

This invention relates to certain improvements in breech-loading guns; and it consists of an oscillating conical-shaped automatically-adjustable pin.

Referring to the drawings, 1 represents a gun-barrel.

2 is a barrel-lug having a flat surface for the pin 6 to press against.

3 represents the portion of a gun-frame holding the barrel-lug 2.

5 represents a hole slightly conical-shaped through the outer end of said frame 3 and is for the purpose of receiving the pin 6, which is also made conical. 7 represents a flat surface on one side of said pin, adapted to press against the lug 2, as shown in Fig. 4. Said flat surface is somewhat longer than the width of the lug 2.

8 represents a spiral spring which will at all times keep the conical-shaped pin tight in said conical-shaped hole 5.

9 represents a screw-cap with the inner end cupped to admit one end of the spring 8. Said screw-cap is adapted to screw into one side of the frame 3, so as to keep the desired tension on the spring 8 at all times.

11 represents the larger end of the pin 6, cupped out for receiving the other end of the spring 8.

12 represents the joining-place of the base and the end of the barrel.

The bolt 6 automatically keeps the joint 12 tight in the following manner: When the gun is put together, the flat surface 7 of the pin 6 presses against the flat surface of the lug 2, which holds the breech-base and barrel end tight together. As the gun is broken or opened the pin oscillates in said hole 5. As fast as said hole 5 or said pin 6 becomes worn the said spring 8 will force said conical-shaped pin 6 toward the smaller end of the conical-shaped hole 5, which will at all times keep the flat surface 7 of said pin 6 snug against said lug 2. Should the spring 8 lose some of its tension, said tension can be increased through the medium of the screw 9.

Having thus described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is as follows:

1. In a breech-loading gun, in combination with the barrel and stock-frame, an oscillating conical-shaped hinge-pin, the barrel-lug, and a spiral spring for holding said pin to automatically keep the breech-base and barrel of said gun tight together.

2. In a breech-loading gun a conically-shaped pin provided with a flat surface on one side the stock-frame having a conical-shaped hole adapted to receive said conical pin said pin adapted to oscillate in said hole, and a barrel-lug having a flat surface, against which said flat surface of said pin presses.

3. In the herein-described breech-loading gun, having a conical-shaped pin provided with a flat surface the stock-frame having a conical-shaped hole adapted to receive said pin, a barrel-lug having a flat surface against which the flat surface of said pin presses, and a spring for automatically keeping said conical-shaped pin tight in said conical-shaped hole for the purpose specified.

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Witnesses:

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