

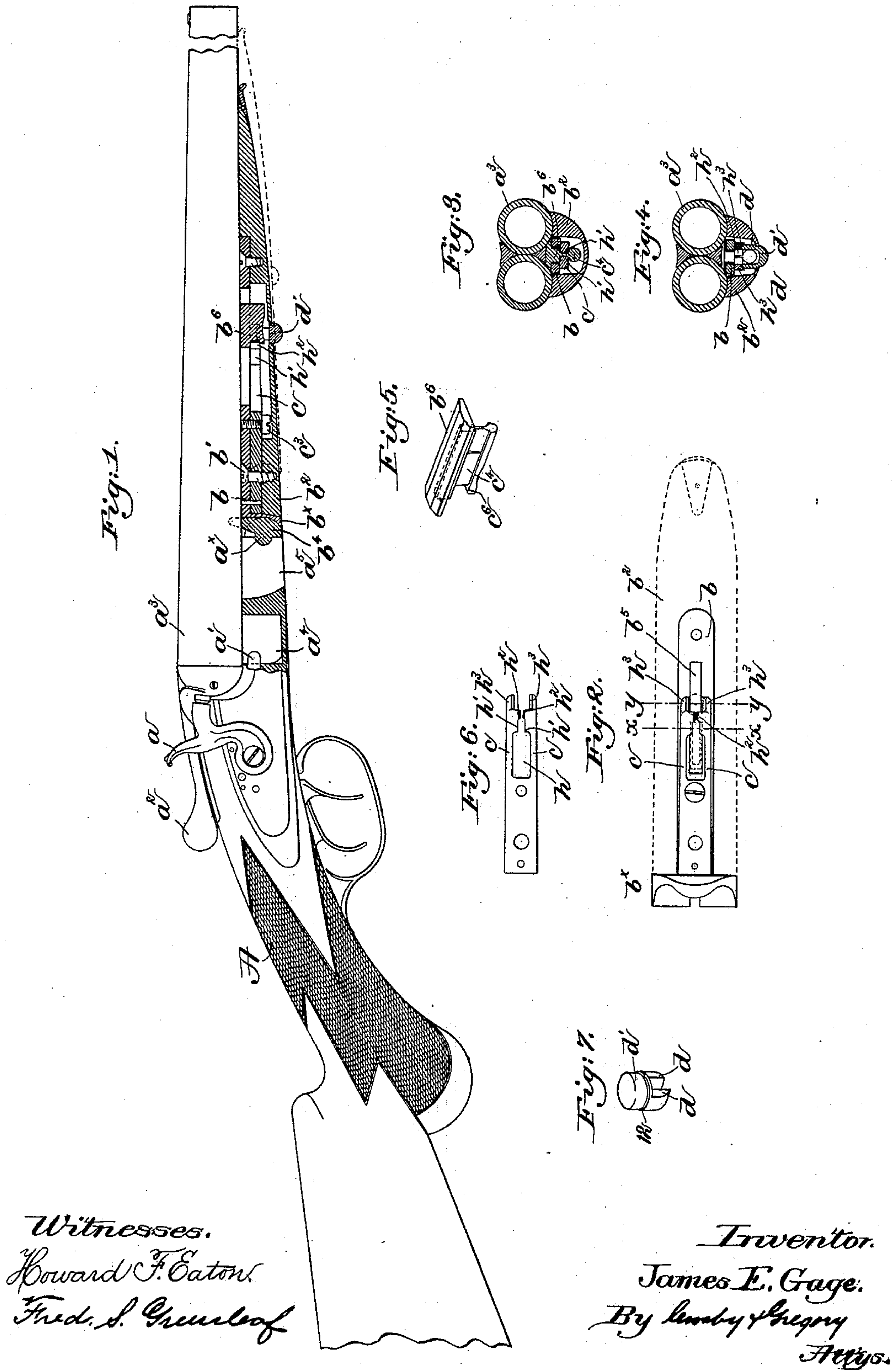
(No Model.)

J. E. GAGE.

MEANS FOR ATTACHING FORE END STOCKS TO GUN BARRELS.

No. 409,188.

Patented Aug. 20, 1889.





# UNITED STATES PATENT OFFICE.

JAMES E. GAGE, OF CONCORD, NEW HAMPSHIRE.

## MEANS FOR ATTACHING FORE-END STOCKS TO GUN-BARRELS.

SPECIFICATION forming part of Letters Patent No. 409,188, dated August 20, 1889.

Application filed November 24, 1888. Serial No. 291,790. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES E. GAGE, of Concord, county of Merrimac, State of New Hampshire, have invented an Improvement in Breech-Loading Guns, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention has for its object to improve that class of breech-loading guns in which the barrel of the gun is retained in position on the stock by means of a hand-piece applied to the under side of the barrel. In this class of guns, so far as I am aware, the barrel cannot be detached from the stock to pack or clean the gun except after the removal of the hand-piece from the barrel. The detaching of the hand-piece prior to removing the barrel from the stock and the application of the hand-piece to the barrel when the gun is to be assembled, besides being inconvenient, frequently cause the loss of valuable time, and frequently the hand-piece is dropped and sometimes lost. To obviate this trouble, I have so constructed the hand-piece that it may be permanently attached to the barrel, and so that the hand-piece needs only to be slid longitudinally when it is desired to remove the barrel from the stock, or vice versa.

My invention consists in the combination, with a barrel and stock and a shoe attached to the barrel, of a sliding hand-piece and a locking device consisting of spring-arms attached to the said hand-piece to engage the said shoe to retain the said hand-piece upon the barrel when the barrel is removed from the stock, and the releasing device to act on the said spring-arms, substantially as will be described.

Figure 1 in elevation and section shows a sufficient portion of a double-barrel gun to enable my invention to be understood. Fig. 2 is an under side view of the hand-piece and the metallic bar attached thereto, the hand-piece being shown in dotted lines; Fig. 3, a transverse section of the entire gun, the section being on line  $xx$ , Fig. 2, the barrel being in firing position; Fig. 4, a similar transverse section on the line  $yy$ . Fig. 5 shows separately the guide projection or shoe attached to the under side of the barrel and co-operating

with the spring-jaws, to be described, attached to the metal bar secured to the sliding hand-piece. Fig. 6 shows the locking device by itself. Fig. 7 shows the push-button detached.

The stock A, provided with a gun-lock, and the barrel  $a^3$ , having the lugs  $a^4 a^5$ , each provided with a recess, the recess in the lug  $a^4$  to be engaged by a dog  $a'$ , actuated by the lever  $a^2$  on the breech-block, while the recess of the lug  $a^5$  engages a round pin  $a^x$  of the breech-block, are and may be all as usual in breech-loading guns.

My invention is shown as embodied in a double-barreled gun.

The hand-piece  $b^2$  has connected to it, as by screw  $b'$ , a slotted metallic bar  $b$ , having at its end next the breech a concaved head  $b^x$ , which, when the barrel is in firing position, engages the convexed end  $b^4$  of the breech. The under side of the barrel a short distance in advance of the lug  $a^5$  has fixed to it a guide-block  $b^6$ , having a web or shoe  $c^4$ , provided with a heel  $c^6$ , the edge of the said web farthest from the breech being beveled or made thin to easily enter between and spread apart the spring-arms  $c$  of the locking device secured by the screw  $c^3$  to the metallic bar  $b$ . The inner sides of the spring-arms of the locking device are so shaped as to leave a space  $h$ , shoulders  $h' h'$ , with a narrower space between, two locking projections  $h^2 h^2$ , and beveled fingers  $h^3 h^3$ .

The hand-piece is applied to the barrel when the barrel is detached from the stock, the portion  $b^5$  of the slot in the metallic bar  $b$  being then slipped down over the shoe  $c^4$ , leaving the heel  $c^6$  of the shoe just in front of the projections  $h^2$ .

The hand-piece having been so placed in position, is moved slightly forward until the projections  $h^2$  come above the heel  $c^6$ , which prevents the hand-piece from dropping off the shoe.

The hand-piece, as shown, has a push-button  $d'$ . (See Figs. 4 and 7.) This push-button has a shoulder 12 to prevent it from dropping through the hole in the hand-piece, in which hole it is fitted loosely, and the said button has two beveled prongs  $d d$ , which, when the button is pushed in toward the barrel, act upon the beveled inner faces of the fingers  $h^3$ , thus spreading the spring-arms of



the locking device, and then the hand-piece is further moved toward the outer end of the barrel until the shoe referred to passes into the large space  $h$  between the spring-arms of the locking device and strikes the end of the slot in the metallic bar  $b$  nearest the breech. In this condition the hand-piece is securely locked to the barrel, and the barrel may be applied to the stock in usual manner and be secured to the stock by sliding the hand-piece toward the breech far enough to cause the concaved head  $b^x$  to meet the convexed face  $b^4$ . In this position of the hand-piece the heel  $c^6$  of the shoe overlaps the locking projections  $h^2$ . To detach the barrel from the stock, the operator will press upon the push-button, spread apart the spring-arms of the locking device, and push the hand-piece toward the outer end of the barrel until the beveled end of the shoe stands in the narrow space of the jaws. In this condition the hand-piece is left securely held upon the barrel.

If it be desired to remove the hand-piece from the barrel after removing the barrel from the stock, the hand-piece will be moved longitudinally backward as far as possible toward the rear end of the barrels, or until the projections  $h^2$  pass the heel  $c^6$  of the shoe, the hand-piece at such time being free to be removed.

I claim—

1. In a breech-loading gun comprising a barrel and a stock, the combination, with a shoe  $b^6$ , secured to the barrel, of a sliding hand-piece provided with a locking device consisting of spring-arms permanently attached to the hand-piece to engage the said shoe and secure the hand-piece to the barrel, and a releasing device, substantially as described, to operate upon the spring-arms and disengage them from the said shoe, substantially as and for the purpose specified.

2. In a breech-loading gun comprising a barrel and a stock, the combination, with a shoe  $b^6$ , of a hand-piece provided with a locking device consisting of spring-arms to engage the said shoe and lock the hand-piece to the barrel, and a releasing device consisting of the thumb-piece  $d'$ , provided with the beveled arms  $d$ , to engage the spring-arms, substantially as and for the purpose specified.

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

JAMES E. GAGE.

Witnesses:

J. H. ALBIN,  
JAMES H. MORRIS.