

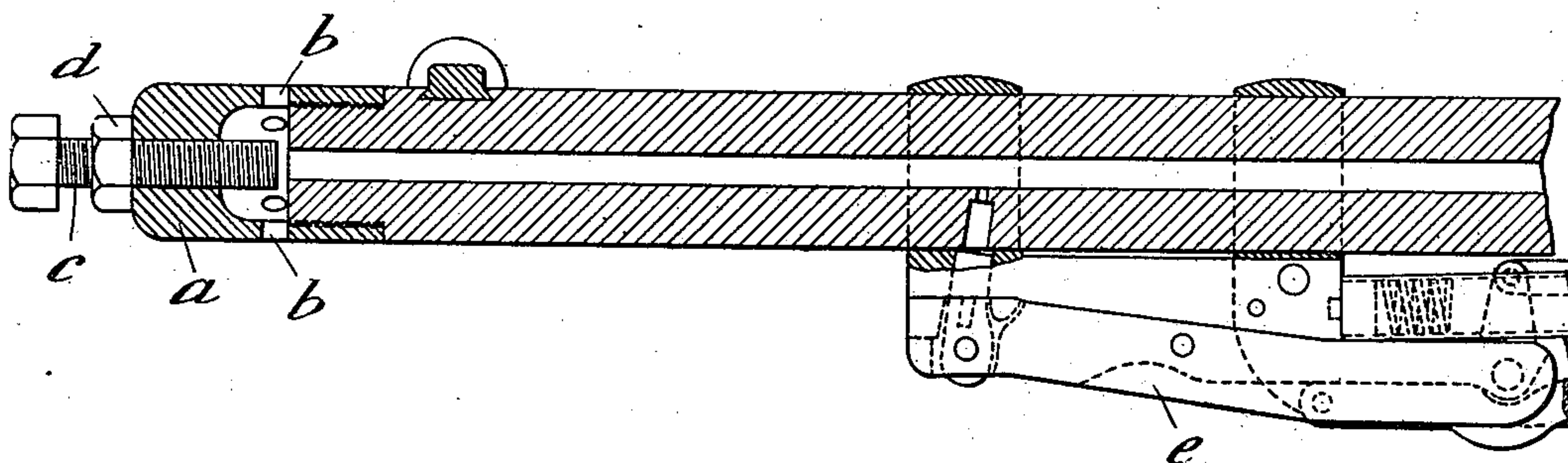
No. 680,327.

Patented Aug. 13, 1901.

W. G. HAY.  
COLT GUN.

(Application filed Oct. 24, 1900.)

(No Model.)



WITNESSES

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# UNITED STATES PATENT OFFICE.

WILLIAM G. HAY, OF LIVERPOOL, ENGLAND.

## COLT GUN.

SPECIFICATION forming part of Letters Patent No. 680,327, dated August 13, 1901.

Application filed October 24, 1900. Serial No. 34,148. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM GEORGE HAY, a citizen of England, residing at 201 Northill street, Liverpool, in the county of Lancaster, England, have invented certain new and useful Improvements in Colt Guns or other Guns in which the Lock Mechanism is Worked by Lateral Escape of Gas, (for which I have applied for a patent in Great Britain, dated July 10, 1900, No. 12,426,) of which the following is a specification.

My invention relates to means of adapting for blank firing a Colt gun or other gun the lock mechanism of which is worked by lateral escape of gas. This is effected as will be described with reference to the accompanying drawing, in which the figure is a longitudinal section showing the front portion of a Colt gun, showing in elevation the operating-lever, which is worked by lateral escape of gas.

On the muzzle of the gun is screwed a sleeve *a*, having several lateral holes *b*, and is screw-threaded to receive a flat-ended setting-screw *c*, provided with a lock-nut *d*. This screw is adjusted with its end so close to the muzzle as to throttle the outlet there sufficiently to cause within the barrel in blank firing the pressure of powder-gas necessary to work the lock-operating lever *e* in the same manner as when a bullet passes along the bore. The degree of throttling for this purpose can be ascertained by trial, and the screw *c* being once adjusted is prevented from shifting by the lock-nut *d*. In order to suit the cartridge for blank fire to the lock mechanism, it may be

provided with a hollow plug of the same size and shape as the bullet, but made of wood or other material that can be readily broken up. This on meeting the end of the screw *c* becomes burst up into minute fragments, which escape with the powder-gas through the holes *b*.

The arrangement described can obviously be applied to guns which instead of having a lever, such as *e*, acted on by the pressure of gas within the bore, have a piston or plunger so acted on, and for these guns blank-fire cartridges with wooden plugs, as above described, can obviously be employed.

Having thus described the nature of this invention and the best means I know for carrying the same into practical effect, I claim—

1. The combination with a gun having lock mechanism arranged to be operated by lateral escape of gas, of a cap secured to the muzzle and having a gas-passage through it and means for regulating the escape of gas through said passage; substantially as described.

2. In combination with a Colt or other gun having its lock mechanism worked by lateral escape of gas, a sleeve screwed on the muzzle with lateral passage and an adjustable throttling-screw for causing sufficient gas-pressure in the bore to work the lock mechanism in blank firing, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

W. G. HAY.

Witnesses:

GERALD L. SMITH,  
EDWARD GARDNER.