

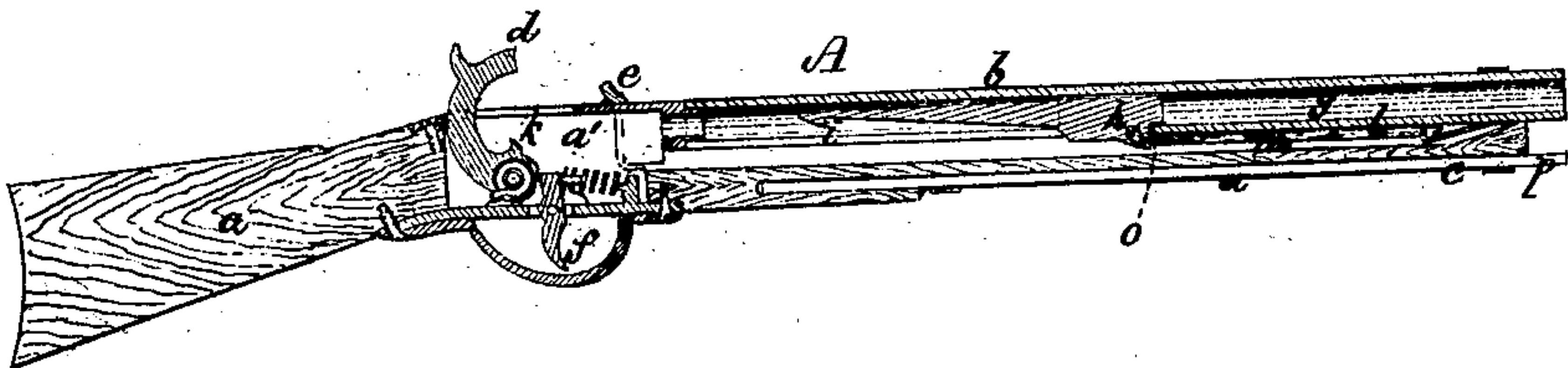
*J. Goodale,*

*Toy Gun.*

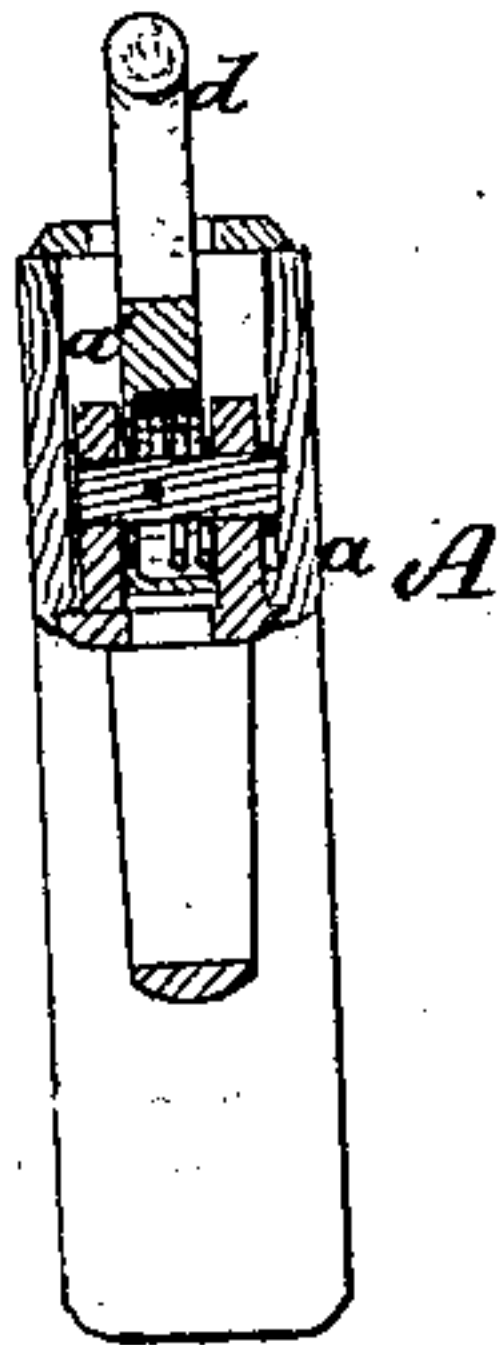
*No. 110228.*

*Patented Dec. 20. 1870.*

*Fig. 1.*



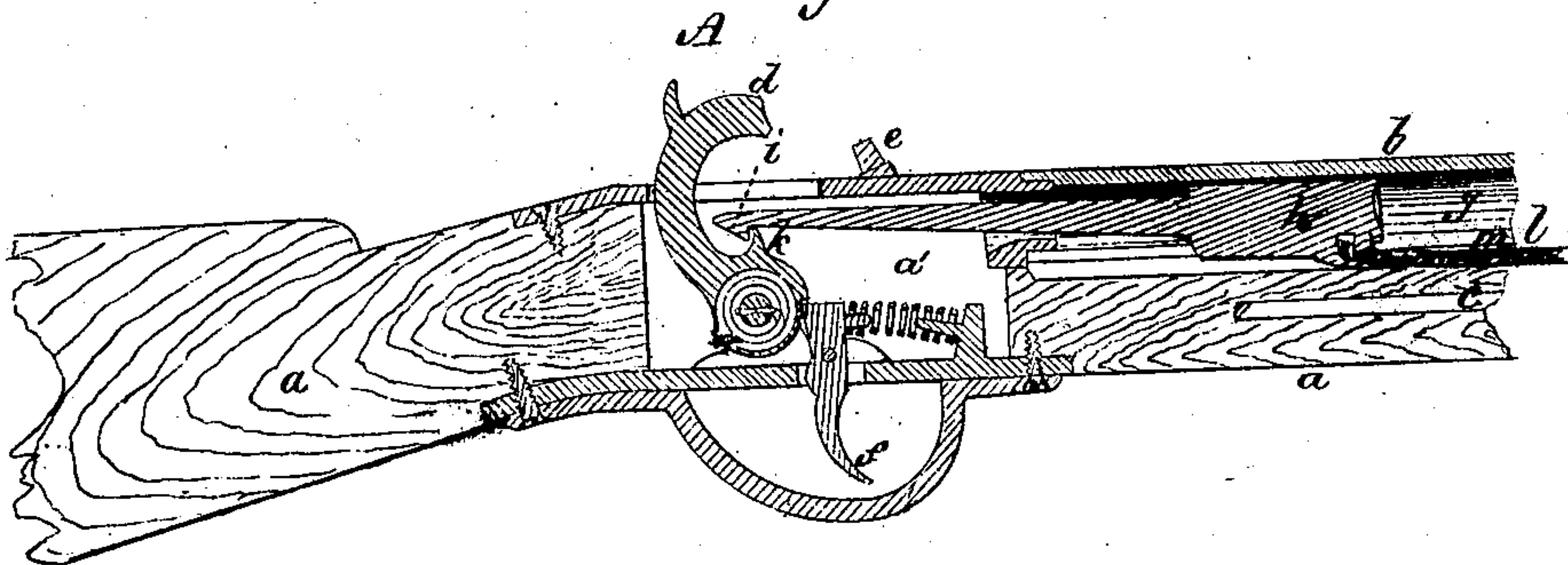
*Fig. 2.*



*Witnesses.*  
*E. Griffiths.*  
*Geo. A. Loring.*

*John Goodale*  
*by his Attorney*  
*Frederick Curtis.*

*Fig. 3.*



# United States Patent Office.

JOHN GOODALE, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 110,228, dated December 20, 1870; antedated December 9, 1870.

## IMPROVEMENT IN TOY GUNS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all to whom these presents shall come:*

Be it known that I, JOHN GOODALE, of Boston, in the county of Suffolk and State of Massachusetts, have made an invention of a novel and attractive Toy Gun; and do hereby declare the following to be a full, clear, and exact description thereof, due reference being had to the accompanying drawing making part of this specification, and in which—

Figure 1 is a longitudinal section.

Figure 2, a vertical and transverse section.

Figure 3, a partial longitudinal section of a toy gun embodying my invention.

The accompanying drawing represents at A a toy or miniature fire-arm, of which *a* is the stock, *b* the barrel, *c* the ramrod, *d* the hammer or cock, *e* the nipple, and *f* the trigger, such component parts being arranged in the ordinary manner of such articles.

In rear of the bore *g* of the barrel, and in open communication therewith, is a chamber, *a'*, of enlarged area, such chamber containing the hammer, trigger, and spring, which constitute the lock of the arm.

Sliding freely within the bore of the barrel is disposed a block or bar, *h*, the rear end of which is formed with a hook, *i*, to seize a hook upon a curved projection, *k*, making part of the forward edge of the hammer or cock *d*, and so disposed with respect to the pivot of the latter that, upon the fall of such hammer, the bar shall lose its hold thereupon, and be driven suddenly forward by the agency of a spring, *l*, which is situated within a bore or enclosure, *m*, created in the stock below the barrel, and which is secured at its rear end to the forward end of the said catch-bar, the forward end of the spring being in turn secured to the outer end of the barrel or its stock.

The bar or ejector, as it may be properly termed, brings up (when in its extreme forward position) against a stop, *o*, formed in the lower part of the barrel.

A ramrod is represented in the drawing at *c* as deposited within the lower part of the stock in the manner usual with fire-arms.

With this ramrod a child may push back the ejector until it strikes the hammer, when the continuation of the movement will "cock" such hammer, and at the same time cause the hook of the ejector to seize the projection *k* before mentioned, or the hammer may, if desirable, be cocked previous to pushing back the ejector.

As the spring is distended by the last-described movement of the ejector, the release of the said spring by the fall of the hammer (induced by a pull upon the trigger) will drive the ejector suddenly forward against the stop, and, as a necessary consequence, eject from the barrel with considerable force a marble or other missile which may have been introduced into such barrel and against the ejector.

The fall of the hammer explodes a percussion-cap which has previously been deposited upon the nipple *e*, and thus to the flight of the missile adds the report of such an explosion.

In place of the ramrod, as a means of driving back or "setting" the ejector, I have contemplated attaching to the side of such ejector a knob, which shall pass through a slot in the side of the barrel, or through both the barrel and the stock, and by means of which such movement of the ejector may readily be effected.

### *Claim.*

The combination, in a toy gun, of the hammer *d* and projection or catch *k*, with the ejector *h*, provided at its rear end with a hook, which, when the ejector is pushed back, catches over the projection *k*, and, when the hammer falls, is disengaged from the said projection so as to permit the ejector to move forward independently of the hammer, as shown and set forth.

This specification of my improved toy gun signed by me this 4th day of May, 1870.

JOHN GOODALE.

Witnesses:

FRED. CURTIS,  
E. GRIFFITH.