

R. Y. MURPHY.  
Toy Guns.

No. 143,457.

Patented Oct. 7, 1873.

Fig. 1

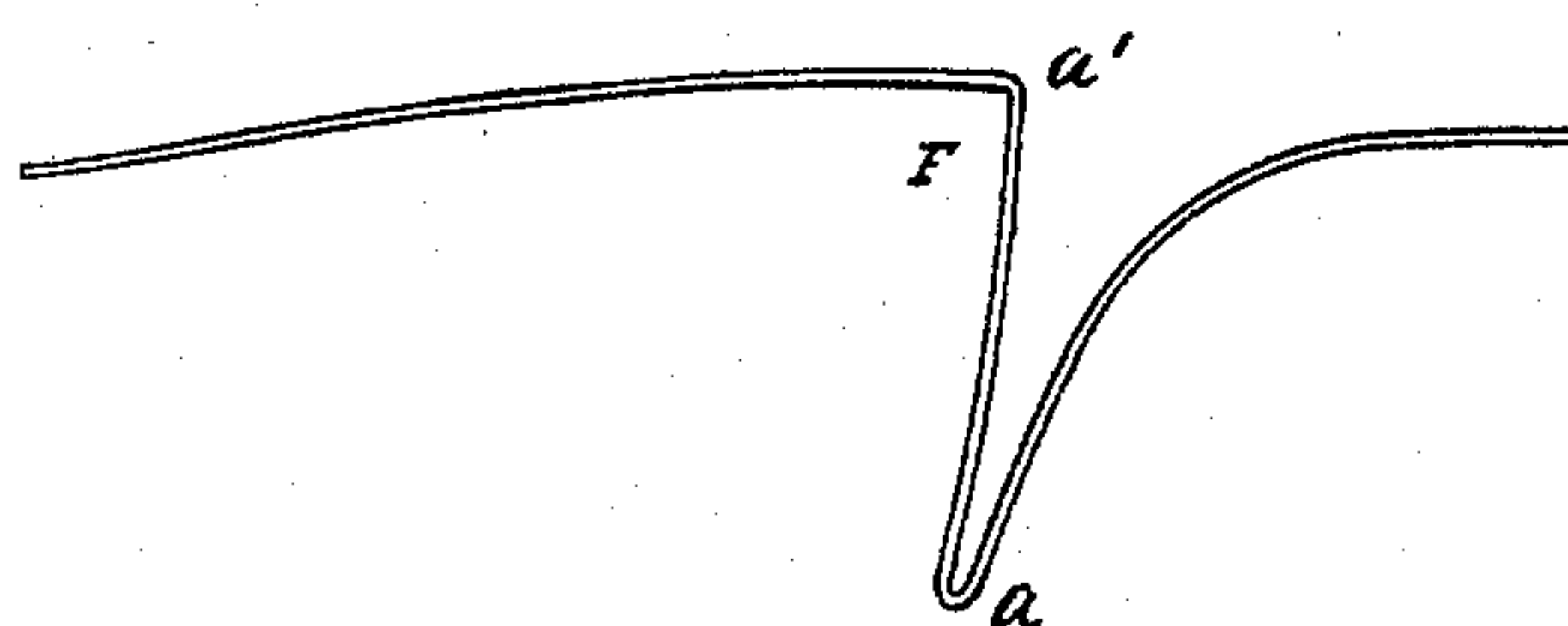


Fig. 2

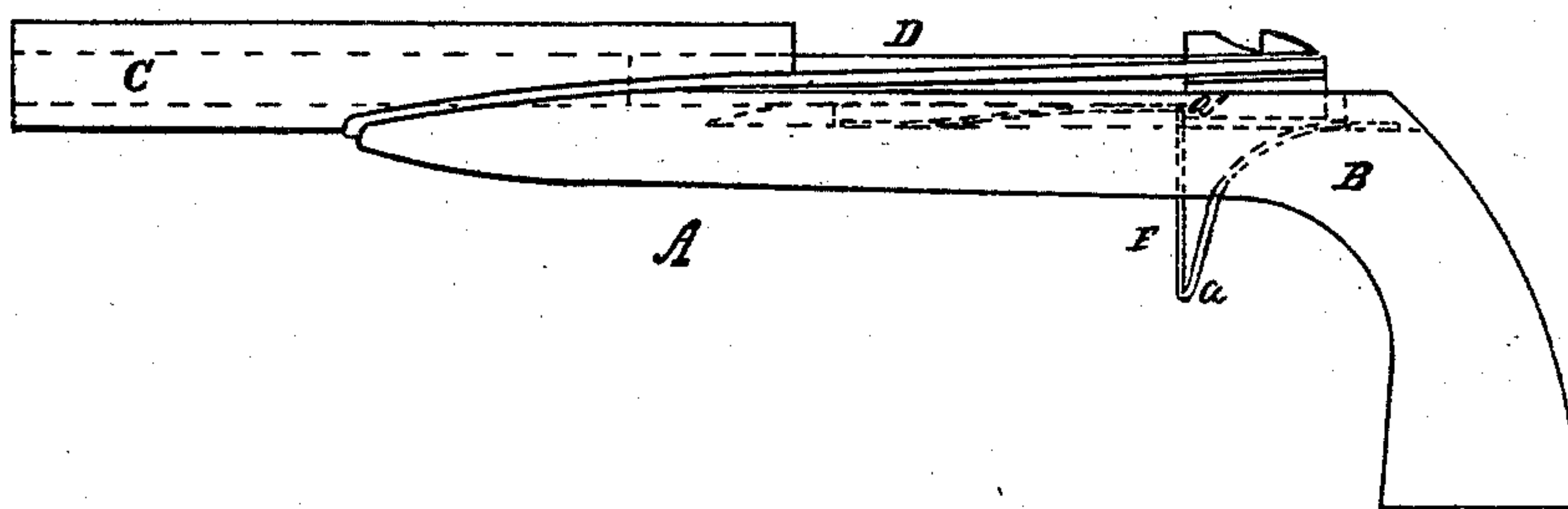
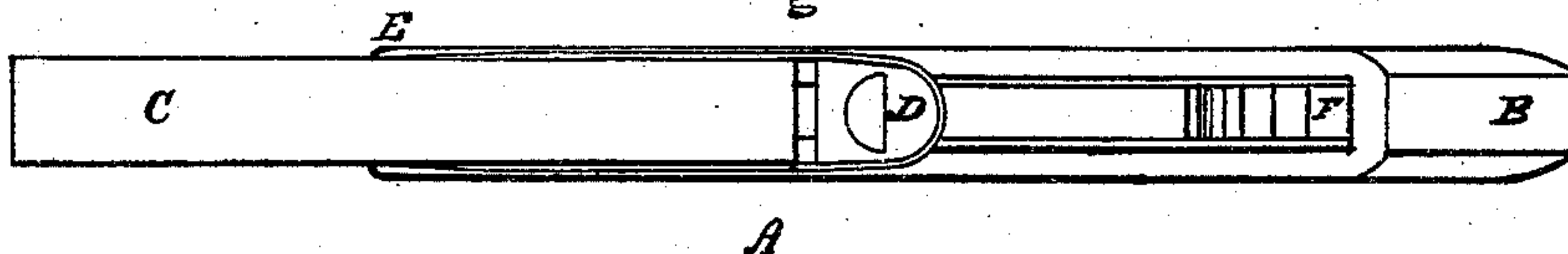


Fig. 3



WITNESSES.

F. F. Warner.  
N. C. Gidley

INVENTOR.

Robert Y. Murphy

# UNITED STATES PATENT OFFICE.

ROBERT Y. MURPHY, OF CHICAGO, ILLINOIS, ASSIGNOR TO ALFRED JAMES,  
OF SAME PLACE.

## IMPROVEMENT IN TOY-GUNS.

Specification forming part of Letters Patent No. **143,457**, dated October 7, 1873; application filed  
July 11, 1873.

*To all whom it may concern:*

Be it known that I, ROBERT Y. MURPHY, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Toy-Guns, of which improvements the following is a full, clear, and exact description, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing forming a part of this specification, and in which—

Figure 1 is a side elevation of my improvement; Fig. 2, a like view of the same when applied to a toy-gun; and Fig. 3, a top or plan view of the parts shown in Fig. 2.

Like letters of reference indicate like parts.

My invention relates to that class of toy-guns shown and described in Letters Patent No. 137,080, and issued to Alfred James, of Chicago, the 11th day of April, 1873. In that invention the improvement related partly to the lock and trigger device, which consisted of a snap-spring, constructed and arranged to engage a shoulder on the sliding bar, and of a pivoted trigger provided with a jaw which engaged the free end of the spring.

The object of this invention is to improve the construction and operation of the lock and trigger; and to that end it consists in making them in one and the same piece of spring metal, constructed and arranged substantially as hereinafter described.

In the drawing, A represents a toy-gun of the class hereinbefore referred to. B is the stock or handle, and C is the barrel. D is the

sliding rod, and E is a rubber cord by means of which it is drawn forward. F is my improved lock and trigger. The part F is made in one and the same piece of spring metal, and is bent in the form shown. The part *a* projects through the stock and serves as a trigger, and the part *a'* serves as a catch or lock, and engages a shoulder on the bar D. The spring F is arranged in the stock and below the bar D, in the manner represented in Figs. 2 and 3, each end of the spring being supported by the stock, and the central part rising slightly above it.

When the bar D is drawn back it rides over the spring until a shoulder on the bar passes the part *a'*. The latter is then released and springs upward and engages the shoulder on the bar D, thus preventing the bar from being moved forward until it is released. In order to release the bar D the part *a* is drawn back, and the part *a'* is thereby drawn from its engagement with the bar, and the latter is then forced suddenly forward by the action of the cord E, thus discharging the contents of the gun. This operation is repeated as often as the gun is reloaded and discharged.

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

In combination with the bar D of a toy-gun, the spring F, when constructed and arranged to operate in the manner described and shown.

ROBERT Y. MURPHY.

Witnesses:

F. F. WARNER,  
N. C. GRIDLEY.