

JACOB LAIR & JACOB F. RAWZELL.

Improvement in Toy Guns.

No. 120,284.

Patented Oct. 24, 1871.

Fig. 1.

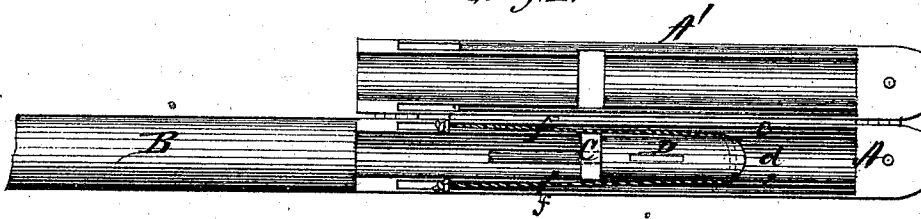


Fig. 2.

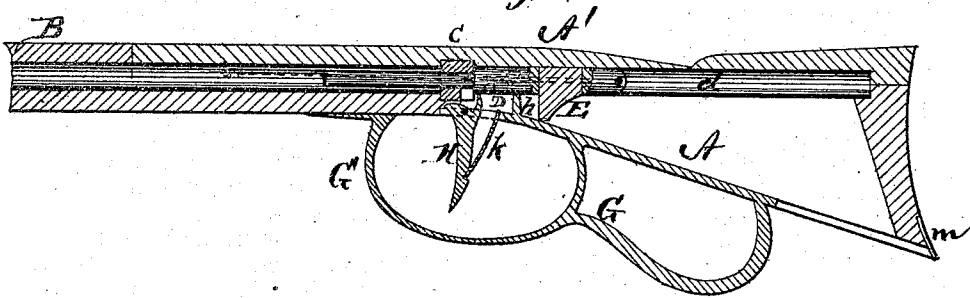


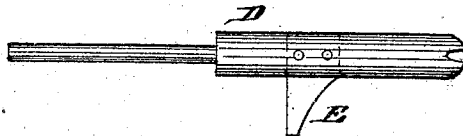
Fig. 3.



Fig. 4.



Fig. 5.



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# UNITED STATES PATENT OFFICE.

JACOB LAIR AND JACOB F. RAWZELL, OF INDIANAPOLIS, INDIANA.

## IMPROVEMENT IN TOY-GUNS.

Specification forming part of Letters Patent No. 120,284, dated October 24, 1871.

*To all whom it may concern:*

Be it known that we, JACOB LAIR and JACOB F. RAWZELL, of Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Toy-Guns; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

The nature of our invention consists in the construction and arrangement of a toy-gun or target arrow-gun, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, showing the inside of the stock. Fig. 2 is a longitudinal vertical section of the entire gun. Fig. 3 is a side view; and Fig. 4, a bottom view of a stop-block used in the gun. Fig. 5 is an enlarged side view of the driving-pin.

A represents the stock, and B the barrel of our gun, both made in one piece, except that the top, A', of the stock is separate and hinged, forming a lid for the same. The bore of the barrel B continues a suitable distance toward the rear in the stock to a stop-block, C, which has a round hole, *a*, corresponding with said bore. From this hole downward, on the rear side of the stop-block C, is a groove, *b*, as shown in Fig. 3. From the block C toward the rear is a wider groove, *d*, for the drive-pin D to move in, and from said groove a slot extends nearly the entire length of the stock. The drive-pin D has a projection, E, extending downward through the slot in the groove *d*, and the front end of the pin is made of smaller diameter, so as to pass through the hole *a* in the stop-block. *ff* represent rubber springs fastened by means of hook-nails *ii*, and passing around the rear end of the drive-pin in a groove cut in

the same. These springs move in grooves *ee*, cut in the stock A. The hinged lid A' has corresponding grooves for the drive-pin and springs. The guard is made in two parts, G and G'. The front part G' is stationary while the rear part G slides in a groove on the under side of the stock. This part has a projection, *h*, extending upward in front of the projection E of the drive-pin. H represents the trigger, provided with a spring, *k*, to throw it forward. When the sliding part G of the guard is drawn back the projection *h* thereof catches on the projection E, and draws the drive-pin D backward until the guard strikes the butt-plate *m*. Then the front end of the drive-pin drops down into the groove *b* on the stop-block C. The sliding part of the guard is now moved forward in position again, and by pulling the trigger H the front end of the drive-pin is raised until it comes directly opposite the hole *a*, when the rubber springs throw the drive-pin forward with tremendous force. On the under side of the drive-pin, in front of the projection E, is a groove, so as to give the projection *h* room to play.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The sliding-guard G provided with the projection *h*, and operating substantially as and for the purposes herein set forth.

2. The combination of the stop-block C, drive-pin D, springs *ff*, sliding-guard G, and trigger H, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing as our own we affix our signatures in the presence of two witnesses.

JACOB LAIR.

JACOB F. <sup>his</sup> RAWZELL.  
mark.

Witnesses:

JOHN A. RUEDE,  
AUGUST WITTHOF.

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