

R. D. TOWNSEND.

TOY GUNS.

No. 183,082.

Patented Oct. 10, 1876.

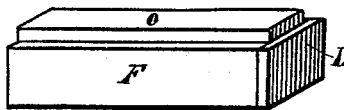


Fig 5.

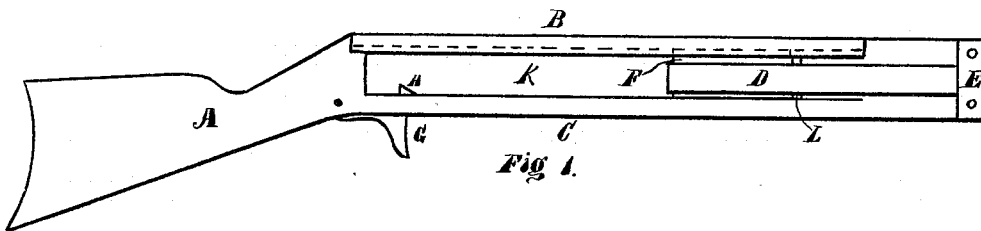


Fig 1.

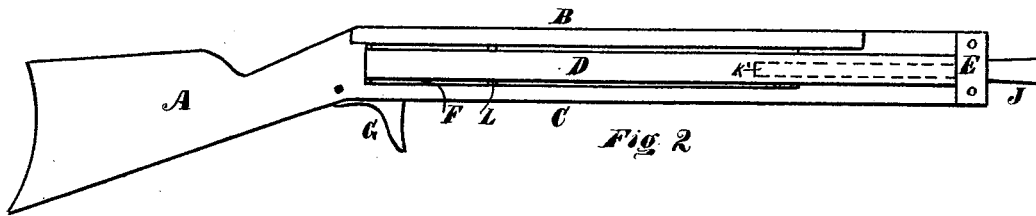


Fig 2.

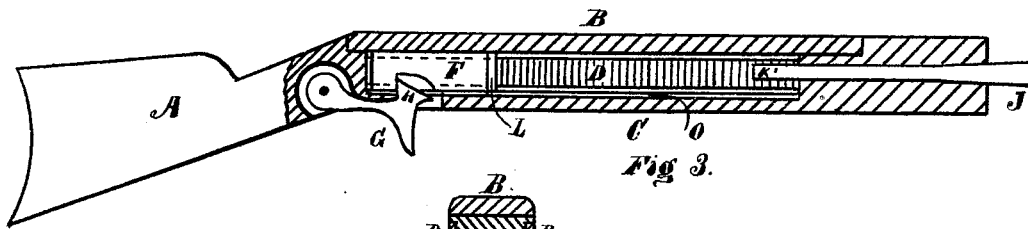


Fig 3.

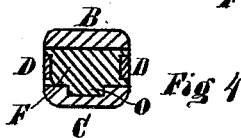


Fig 4.

Witnesses
E. O. Whitney
W. J. Austin

Inventor
Robert D. Townsend
Per E. O. Whitney
his Atty

UNITED STATES PATENT OFFICE.

ROBERT D. TOWNSEND, OF INDIANAPOLIS, INDIANA.

IMPROVEMENT IN TOY GUNS.

Specification forming part of Letters Patent No. **183,082**, dated October 10, 1876; application filed March 27, 1876.

To all whom it may concern:

Be it known that I, ROBERT D. TOWNSEND, of Indianapolis, county of Marion, State of Indiana, have invented a new and useful Toy Gun or Pistol, of which the following is a description, reference being had to the accompanying drawings.

My invention consists of forming the barrel of the gun with a shuttle-race, in which is operated a shuttle provided with a rubber bumper on the striking end, actuated by a band of rubber which is passed around the rear end of the shuttle, and is secured to the front end of the gun on each side by clamps, &c. The shuttle is held in position by means of a feather on one side, that slides in a groove formed either in the top or bottom of the race. The whole device, when completed, is to give impetus to the arrow, which is inserted in a hole in the end of the barrel, and the tapered head of the arrow is so formed as to allow the arrow to stick at the end of the hole, so that it will not drop out. The end of the arrow projects in the shuttle-race about one inch. When the shuttle is drawn back and the trigger set, the rubber springs on each side will stretch with sufficient strain, so that when the trigger is pulled the shuttle will be thrown against the arrow with considerable force, causing the arrow to leave the hole in the end of the gun with great velocity.

In the drawings, Figure 1 represents a side view of the gun with the shuttle at the front end of the race, as it would appear after being fired off. Fig. 2 represents a side view of the gun with the shuttle drawn back ready to fire. Fig. 3 is a sectional view of the gun, showing the arrangement of the shuttle, trigger, and arrow. Fig. 4 represents the shuttle, on one end of which is attached the rubber bumper.

A represents the stock, which is cut from any kind of wood, or made from metal. The barrel part has a long slot or shuttle-race, K, formed therein, either by mortising it out or

cutting it out of the barrel C and placing a cap, B, thereon. The cap B, or the lower part C of the barrel on the inside of the race, is formed with a groove running the whole length, in which the feather, rib, or tenon O of the shuttle F operates to hold the shuttle in its proper position, and to give a direct blow to the arrow, and to prevent the shuttle from falling out. On the front end of the shuttle is secured a rubber bumper, L, so as to relieve the jar of the shuttle as it strikes the arrow or front end of the race. On one side of the front end of the gun is attached the ends of the rubber band-springs D by means of the clamps E, after the spring has been passed around the end of the shuttle F. The front end of the gun is provided with a hole, in which is inserted the arrow J, the tapered end of which engages with the edges of the hole and prevents the arrow from dropping out. The end of the arrow K' projects far enough inside of the race K to allow the shuttle to hit it a violent blow, which causes it to leave the gun with great force. The trigger G may be of any desired style, and may be provided with a spring to hold it up in the position to allow the catch H to engage with the catch formed in the shuttle F.

I am aware of the patent granted to W. Wiedemann and Lindsey, January 19, 1875, and such an invention I do not claim; but

What I do claim as new, and wish to secure by Letters Patent, is—

In a toy gun, the stock A, barrel C, the grooved cap B, the shuttle F, having the feather or rib O, and an elastic bumper, L, and the rubber spring D, all constructed and arranged to operate substantially as shown, for the purposes specified.

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

ROBERT D. TOWNSEND.

Witnesses:

E. O. FRINK,
E. C. WHITNEY.