

E. I. PYLE.
MECHANICAL TOY.

No. 476,895

Patented June 14, 1892.

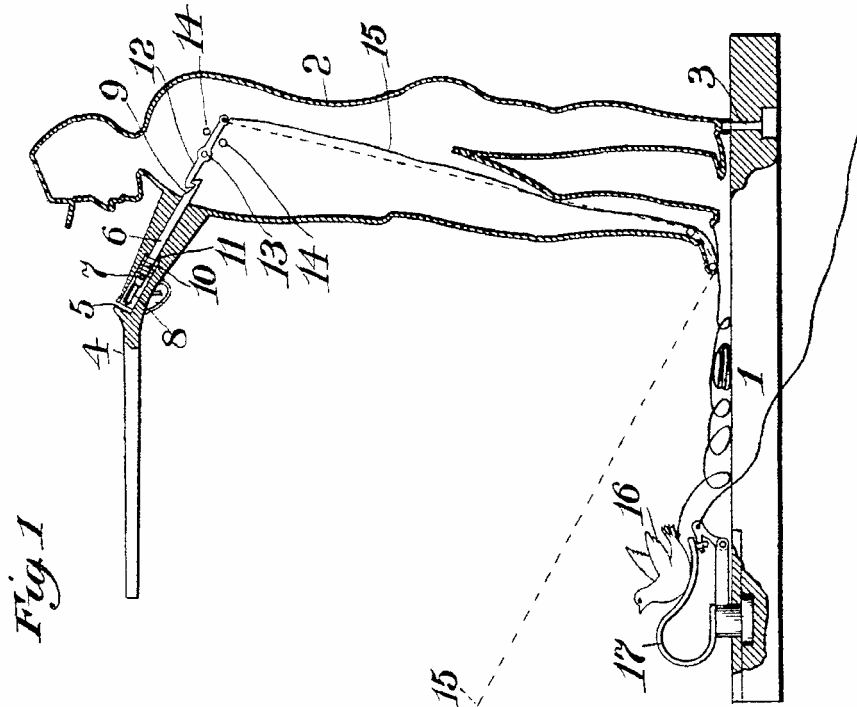


Fig. 1

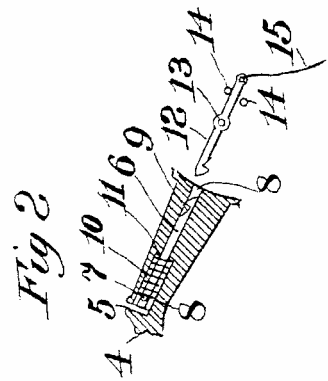


Fig. 2

WITNESSES:
S. Williamson.
R. C. Amble

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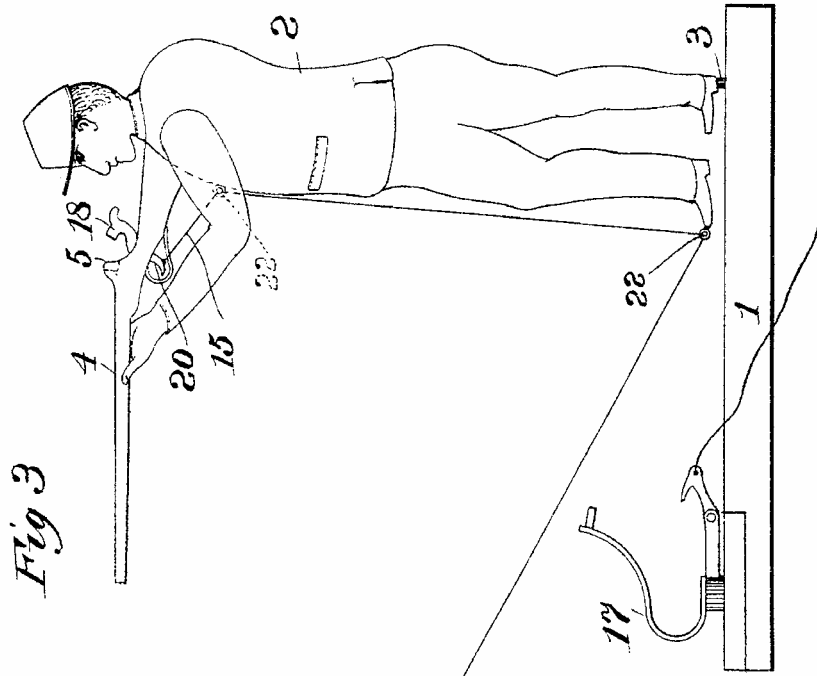


Fig 3

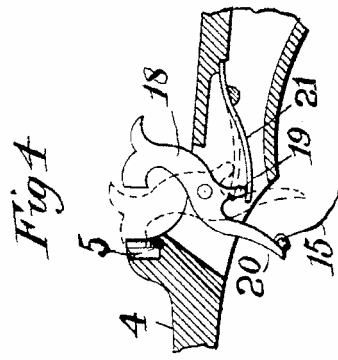


Fig 4

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UNITED STATES PATENT OFFICE.

EDWIN I. PYLE, OF BRIDGEPORT, CONNECTICUT,

MECHANICAL TOY.

SPECIFICATION forming part of Letters Patent No. 476,895, dated June 14, 1892.

Application filed August 31, 1891. Serial No. 404,253. (No model.)

To all whom it may concern:

Be it known that I, EDWIN I. PYLE, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Mechanical Toys; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in mechanical toys; but especially does it refer to a toy marksman, and has for its object to produce a very amusing and economical device of this description.

In the accompanying drawings, Figure 1 is a sectional elevation of my improvement; Fig. 2, a detail broken section showing the relative positions of the sear and firing-pin when the latter is projected; Fig. 3, an elevation showing my invention applied in a slightly-modified manner, and Fig. 4 a detail broken section showing the firing mechanism utilized in the construction shown at Fig. 3.

Similar numbers of reference denote like parts in the several figures of the drawings.

1 is any suitable base, and 2 the figure of a man swiveled thereto by means of a pin 3, passing from one of the legs of the figure within said base. The figure is hollow, being cast in sections riveted together.

4 represents a gun cast with the figure or secured in position thereto, the stock of said gun being hollow and leading within said figure, as shown at Fig. 1.

5 is any suitable pan formed in the gun as a receptacle for an ordinary paper fulminate-cap.

6 is a firing-pin capable of free lengthwise movement within the hollow stock of the gun and having a cross-pin 7, which projects outwardly through an elongated slot 8 in the stock, said pin having notch 9 at the rear end.

10 is a coil-spring around the pin 6 and confined by the cross-pin 7 and a shoulder 11, formed in the stock of the gun.

12 is the sear pivoted at 13 within the figure 2 and adapted to engage with the notched firing-pin, as will be presently explained. The weight of the forward part of the sear from the point 13 is greater than that of the rear

part from said point, so that when the firing-pin is retracted by drawing back the cross-pin 7 the rear end of said firing-pin will strike against the nose of the sear and raise it, where- by the latter will drop within the notch 9. A pin 14 extends through the figure 2 over the rear end of the sear, and thereby limits the drop of the front end of the latter.

15 is a cord attached to the rear end of the sear and passing down through the figure out at the toe of one foot, the free end of the cord being secured to a metallic figure 16, representing a pigeon.

17 is any suitable catapult swiveled within the base 1 and by means of which the pigeon is thrown into the air. The construction of the catapult is immaterial, and I will not describe the same.

The operation of my improvement is as follows: The firing-pin is cocked, as hereinbefore set forth, and an ordinary paper fulminate-cap placed within the pan 5. The pigeon is now thrown in the air in any direction. When the pigeon reaches the limit prescribed by the cord, the sudden jerk caused thereby will simultaneously swing the figure so that the gun will point at the pigeon and release the firing-pin, thereby exploding the fulminate. The explosion and the gravity fall of the pigeon occur at about the same time, so that, to all appearances, the marksman has shot the pigeon. The figure is swiveled merely to add to the amusement afforded by the toy, since the pull on the cord will automatically swing the gun so that it will point at the pigeon. The figure may therefore be secured firmly to the base, and in this instance the pigeon would be thrown in a line with the gun.

I do not wish to be limited to any particular construction of firing mechanism, since the gist of my invention rests in the broad idea of operating the firing mechanism by the flight of the pigeon, and I have illustrated at Figs. 3 and 4 my invention applied in connection with a firing mechanism differing from that shown at Figs. 1 and 2. This firing mechanism (shown at Fig. 3) is precisely the same as that used in the ordinary toy pistol, and consists of a pivoted hammer 18, having a sear-toe 19 and trigger 20 integral therewith. 21 is a flat spring, which exerts a constant upward pressure against said toe. When the

hammer is drawn back, the toe will be carried in front of the vertical plane of the pivot and will be held in this position by the spring; but when the trigger is pulled the toe will be
 5 drawn back to the rear of said plane and the spring will then act to suddenly drive the hammer against the fulminate-cap. In utilizing this construction the cord is attached to the
 10 trigger and thence passed backward through eyes 22, which project from the figure, as shown at Fig. 3.

The construction which I have just described is very simple, and the cord may be readily repaired or renewed at any time.

15 I claim—

1. A toy marksman comprising a figure holding a gun in position for shooting, a cord operatively attached to suitable firing mechanism, and a suitable object, as a toy pigeon,
 20 secured to the free end of the cord, whereby when said object is thrown in the air said mechanism will be operated simultaneously with the dropping of said object, substantially as set forth.

2. In a toy marksman comprising a figure 25 holding a gun in position for shooting and suitable firing mechanism for said gun, the combination of a cord whose ends are respectively secured to said mechanism and to a suitable object, as a toy pigeon, a swivel connection between said figure and a base, and means
 30 for throwing said object to the limit prescribed by the cord, substantially as set forth.

3. In a mechanical toy marksman, the combination, with a gun provided with suitable
 35 firing mechanism and supported by the figure of a marksman, and an object, as a toy pigeon, of devices for throwing said object into the air, and appliances for operating said mechanism simultaneously with the flight of said
 40 object, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

EDWIN I. PYLE.

Witnesses:

S. S. WILLIAMSON,
 F. W. SMITH, Jr.