

No. 792,006.

PATENTED JUNE 13, 1905.

C. L. & E. M. DAWES.

BOOMERANG GUN.

APPLICATION FILED FEB. 5, 1904.

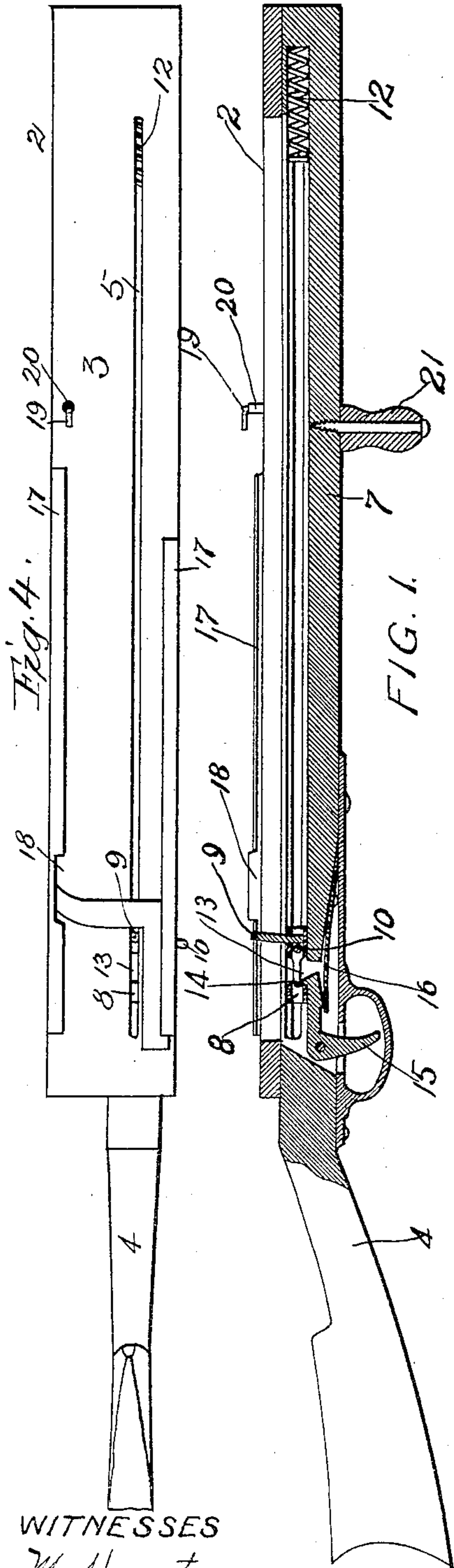


FIG. 1.

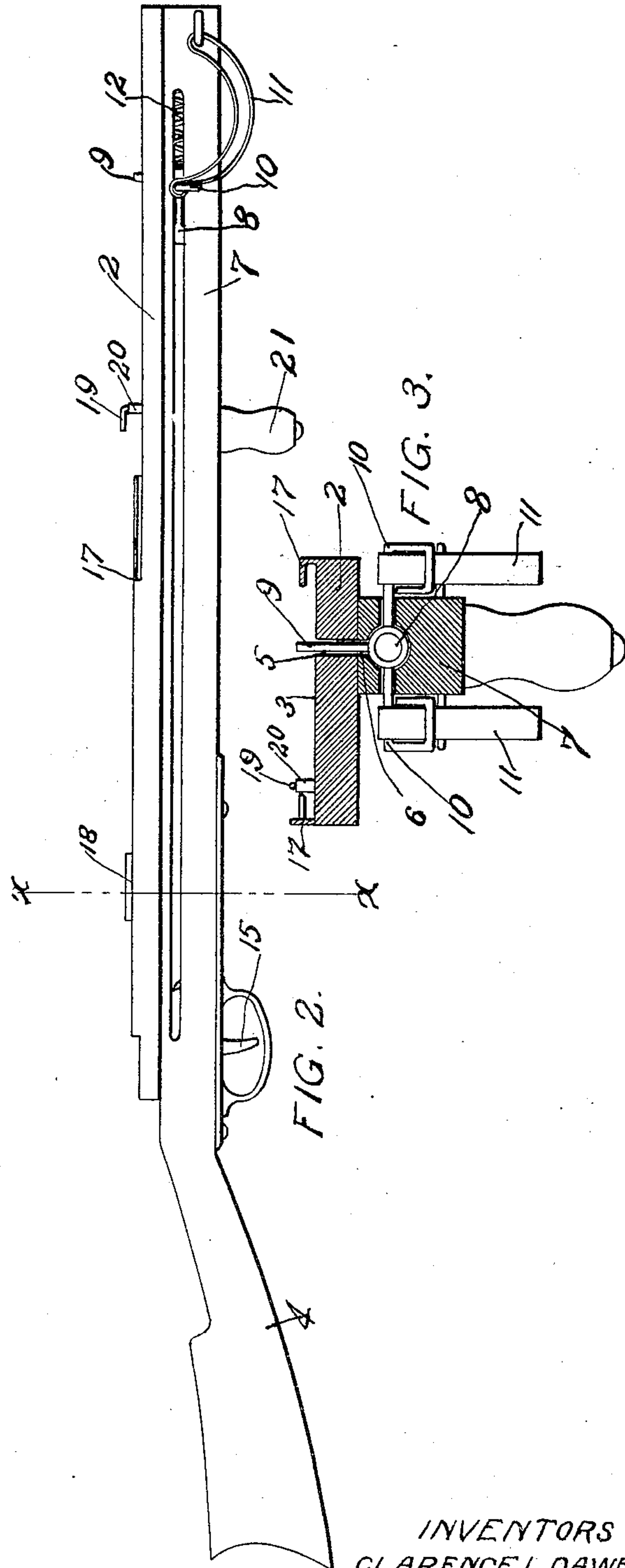


FIG. 2.

FIG. 3.

WITNESSES

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UNITED STATES PATENT OFFICE.

CLARENCE L. DAWES AND EDWIN M. DAWES, OF MINNEAPOLIS,
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BOOMERANG-GUN.

SPECIFICATION forming part of Letters Patent No. 792,006, dated June 13, 1905.

Application filed February 5, 1904. Serial No. 192,135.

To all whom it may concern:

Be it known that we, CLARENCE L. DAWES and EDWIN M. DAWES, of Minneapolis, Hennepin county, Minnesota, have invented certain new and useful Improvements in Boomerang-Guns, of which the following is a specification.

Our invention relates to a toy gun designed to furnish amusing and instructive outdoor and indoor sport; and the object of our invention is to provide an apparatus or device for propelling or discharging a projectile having the boomerang characteristics of returning approximately to the starting-point.

The invention consists generally in various constructions and combinations, all as hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a longitudinal section of a projectile-discharging device embodying our invention. Fig. 2 is a side elevation of the same. Fig. 3 is a transverse section on the line *x x* of Fig. 2. Fig. 4 is a plan view.

In the drawings, 2 represents a plate forming the upper portion of the gun-barrel, having, preferably, a flat upper surface 3 and a stock 4 at one end. A longitudinal slot 5 is provided in said plate, preferably at one side of the center thereof, coinciding with a similar slot 6 in a bar 7 beneath. A plunger 8 is mounted in said bar and adapted to slide longitudinally thereof and is provided with a vertical striker 9, that travels within the slots 5 and 6, with its upper end projecting above the surface 3. The plunger, as shown in Fig. 1, is provided with a transversely-arranged pin 10, projecting upon each side of the bar 7 and connected to elastic straps 11, that are secured to the front end of the bar 7. These straps are extended and put under tension when the plunger is drawn back to propel it when released and discharge the projectile. A cushion-stop 12 is provided in said bar to engage the plunger when near the limit of its stroke and take up the shock resulting from the sudden stopping of the same. A notch

13 is provided in the under side of the plunger adapted to receive a lug 14, provided on a trigger 15, that is normally held in its locked position by a spring 16.

We prefer to provide guides 17 upon each side of the plate 2, one of which is formed with a notch 18 to allow the projectile to be inserted between the guides in front of the striker. Upon plates 2, preferably near the front end of one of the guides, we provide a fixed pin 19, having an antifriction-roller 20, the head of said pin being slightly turned one side to prevent the roller from accidentally slipping off the same.

A suitable handle 21 is provided on the bar 7 in position to be grasped by the person using the gun preparatory to discharging it.

In using the device the plunger is first drawn back until it is automatically engaged and locked by the trigger. The projectile is then laid upon the plate 3 between the guides 17 in front of the striker, which preferably engages the projectile in the angle formed by the intersection of its arms. The gun is then held in a horizontal or upwardly-inclined position, if desired, and the trigger pressed, releasing the plunger. The projectile will be driven forward in a straight line until one end engages and is stopped abruptly by the fixed pin. The plunger will continue to exert a propelling force upon the projectile, and one end being held back by the fixed stop a rotary movement will be imparted, which when the resistance of the air has overcome the advancing force will cause a reverse movement of the projectile that will return it approximately to the starting-point.

We have been able with this device to discharge projectiles fully one hundred feet into the air in a horizontal direction and cause them to return to or within a few feet of the person holding the gun or, if desired, to a point considerably in the rear of where the person was standing.

We do not wish in this application to confine ourselves to any particular form of support for the projectile or the manner of arranging the plunger device therein, the essen-

tial features of our invention consisting of the means for imparting a combined rotary and forward movement to a suitable projectile.

We claim as our invention—

5 1. In a boomerang-gun, the combination, with a stock, of a mechanism for propelling a projectile forward, and a stop-pin located at one side of the axis of the path of move-
10 ment of the projectile for engaging it and imparting a gyrating rotary movement thereto, substantially as described.

2. In a boomerang-gun, the combination, with a suitable stock, of means for propelling a projectile forward, a fixed pin located at one
15 side of the axis of the path of movement of said projectile, and said pin being provided with an antifriction-roller, for the purpose specified.

3. In a boomerang-gun, the combination,
20 with a stock, of a striker operating thereon

to discharge a projectile forward, and a pin eccentrically mounted on said stock to engage and impart a gyrating rotary movement to the projectile discharged by said striker.

4. In a boomerang-gun, the combination, 25 with a stock provided with a flat surface and guides overhanging the same, of a striker operating upon said surface to discharge a projectile forward, and a fixed pin located on said stock at one side of the axis of the path of 30 movement of said projectile, substantially as described.

In witness whereof we have hereunto set our hands this 1st day of February, 1904.

CLARENCE L. DAWES.
EDWIN M. DAWES.

In presence of—

JULIA POPE DAWES,
M. HAGERTY.