(No Model.)

W. W. RAND.

TOY MARBLE SHOOTER.

No. 472,608. Patented Apr. 12, 1892.

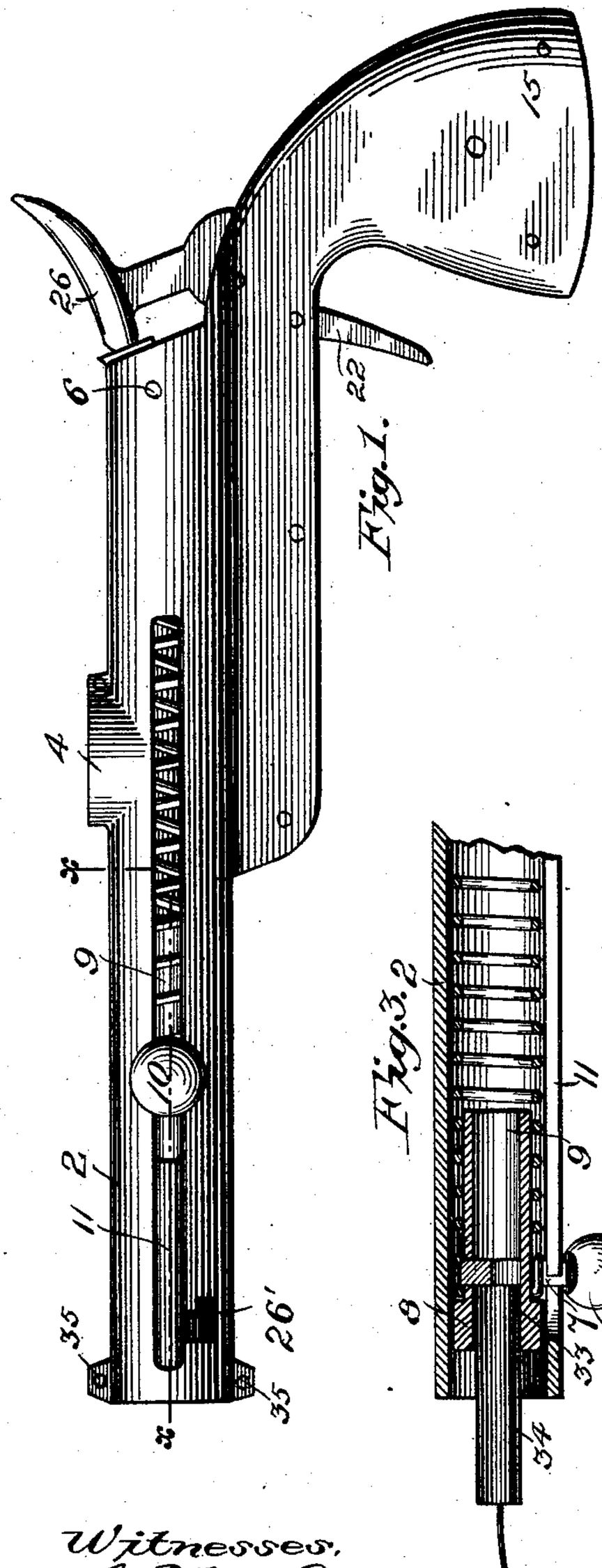

Fig. 1.

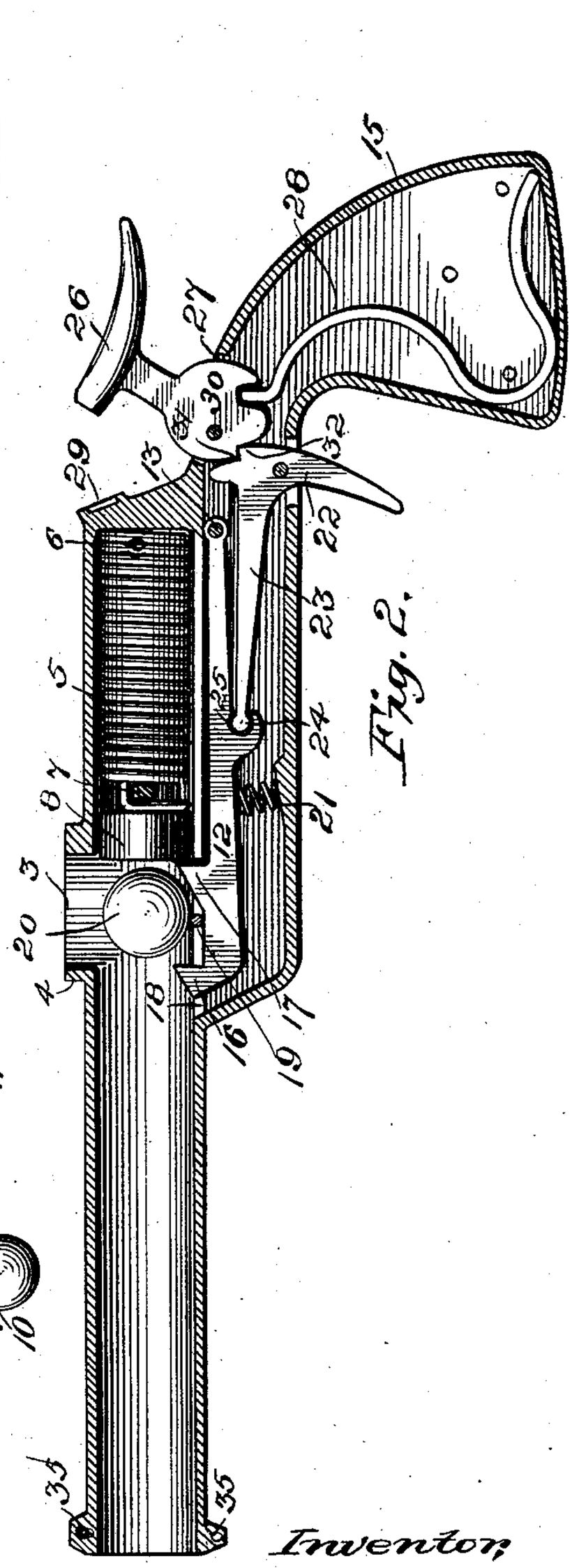

Fig. 2.

Fig. 3.

Witnesses,
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UNITED STATES PATENT OFFICE.

WILLIAM W. RAND, OF MINNEAPOLIS, MINNESOTA.

TOY MARBLE-SHOOTER.

SPECIFICATION forming part of Letters Patent No. 472,608, dated April 12, 1892.

Application filed October 29, 1891. Serial No. 410,151. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. RAND, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain Improvements in Toy Marble-Shooters, of which the following is a specification.

My invention relates to a toy marble-shooter made in the form of a pistol and provided with a suitable spring device by means of which a marble, torpedo, or other projectile may be thrown from the barrel of the pistol with considerable force.

The object of the invention is to provide a device of the class described which will be of a very simple, cheap, and durable construction, and may therefore be sold for a very few cents.

To this end my invention consists in the construction and combinations hereinafter described, and particularly pointed out in the claims.

My invention will be more readily understood by reference to the accompanying drawings, in which—

Figure 1 is a general view showing a toy pistol or marble shooter embodying my invention. Fig. 2 is a longitudinal sectional view thereof. Fig. 3 is a sectional view on the line *x x* of Fig. 1.

As shown in the drawings, 2 represents the barrel of the pistol, made in any convenient size to accommodate the ordinary size of marbles and provided in the top with an opening 3, surrounded by the raised ledge 4 and through which a marble or other projectile may be inserted in the barrel and into the position shown in Fig. 2. Arranged in the rear end of the barrel is the spiral spring 5 the rear end of which engages the pin 6 and the forward end the pin 7 on the plunger 8, which is provided with the smaller end or shank 9, embraced by the forward end of the spiral spring. This pin is provided with the knob 10 and extends through the longitudinal slot 11, arranged in the pistol-barrel 2. The spring-catch 12 is pivoted by the pin 13 within the hollow stock portion of the pistol, the hollow of which communicates with that of the handle 15. This catch is provided with the projections 16 and 17, beveled upon their forward edges and adapted to project through the slot 18, provided in the bottom of the barrel. This slot may extend the length of the stock, the two parts or halves of which the pistol is composed being secured together at this point by the rivet 19. The latch 17 has the straight rear face adapted to engage the forward end of the plunger when it is pulled back in the Fig. 2 position, while the projectile 20 is prevented from rolling out of the barrel by the projection 17. The spring 21, arranged beneath the catch 12, holds the projections normally within the barrel. These may be withdrawn by means of the bell-crank trigger having the depending trigger part 22 and the lever 23, having the circular end 24, held in a similar-shaped slot 25, provided in the catch 12. A hammer 26, arranged in the slot 27 at the base of the barrel, is operated by the spring 28, arranged within the handle, and is adapted to strike into the cap-cavity 29, provided on the barrel-base. The hammer has the cam portion 30, provided with the notch for the upper end of the spring 28 and with the shoulder 31 to engage the shoulder 32 on the trigger 22. When the hammer is down, the forward edge of the cam stands out of engagement with the upper end of the trigger 22. It may therefore be operated without cocking the hammer, while when the hammer is pulled back a single movement of the trigger releases the hammer and the plunger 8 to at once explode a cap and project the marble. The plunger is provided with the cavity or recess 33, adapted to receive a fire-cracker 34, and when so used the plunger is drawn forward in the barrel and the pin or lug 7 secured in the locking-notch 26′, provided at the forward end of the slot 11.

The pistol is ordinarily made up of two complete halves joined together by small pins or rivets passing through and having their ends riveted in the two parts. In this way the cavities and slots are readily formed. The ends of the barrel parts are secured together by the lugs 35 and small rivets passing through them, and the upper one serves as a sight.

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

1. The combination, in a device of the class described, of the barrel provided with the

opening 3 and with the longitudinal slot 11, a plunger arranged in said barrel and having a stud projecting through said slot, a coiled spring arranged behind said plunger, a handle for said barrel, a trigger, and a double catch arranged to be operated thereby, one catch adapted to retain the plunger against the tension of the spring and the other a marble or other projectile dropped into said barrel through the opening therein, substantially as described.

2. The combination, in a toy pistol, of a barrel, a stock, and a handle, all formed integrally and hollow, with a plunger arranged in said barrel, a spring arranged behind said plunger in the closed end of the barrel, a stud provided on said plunger and adapted to extend through a longitudinal slot in the barrel, a double catch 12, having projections 16 and 17 arranged to project into the barrel through the slot 18, provided therein, a trigger for operating said catch, and a hammer to be operated at the instant of the movement thereof, substantially as described.

3. The combination, in a toy pistol, of the barrel 2, provided with the opening 3 and a longitudinal slot 11, with a stock and handle therefor, a plunger 8, having the shank 9, the coiled spring arranged back of said plunger and embracing the shank, the catch 12, arranged to operate through the slot 18, provided in the barrel, a spring 21 for said catch, projections 16 and 17 thereon, the bell-crank trigger, the hammer provided with the shoulder 31 to engage a shoulder 32 on said trigger, a spring 28 for operating said hammer, and a cap-cavity on the end or base of the barrel, substantially as described.

4. The combination, in a toy pistol, of the two halves making up the hollow barrel, stock, and handle, the slot 11, provided in the barrel and having the locking-notch 26′, and the spring-plunger arranged in the barrel and provided with the stud and knob, said stud adapted to be retained in said notch 26′, and said plunger provided with a recess to receive a fire-cracker, substantially as described.

5. The combination, in a toy pistol, with the barrel having the opening 3, of the spring-plunger arranged therein, the hollow stock and handle, the catch 12, provided with the projections 16 and 17, having the inclined forward sides, a spring 21, arranged beneath the catch, and a trigger 22, having the arm 23, provided with the round end or head 24, and said catch provided with a circular journal 25 for said head, substantially as described.

In testimony whereof I have hereunto set my hand this 22d day of October, 1891.

WILLIAM W. RAND.

In presence of—
F. S. LYON,
C. G. HAWLEY.