

(No Model.)

W. W. ARMINGTON.

TOY SPRING GUN.

No. 316,862.

Patented Apr. 28, 1885.

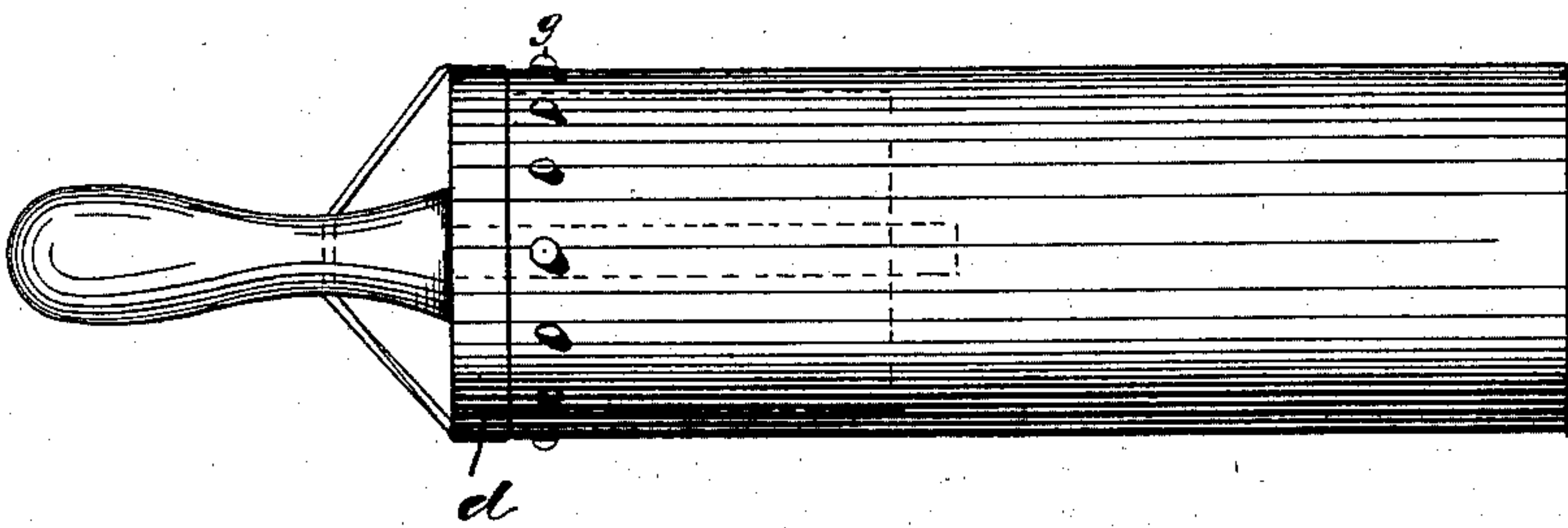


Fig. 1.

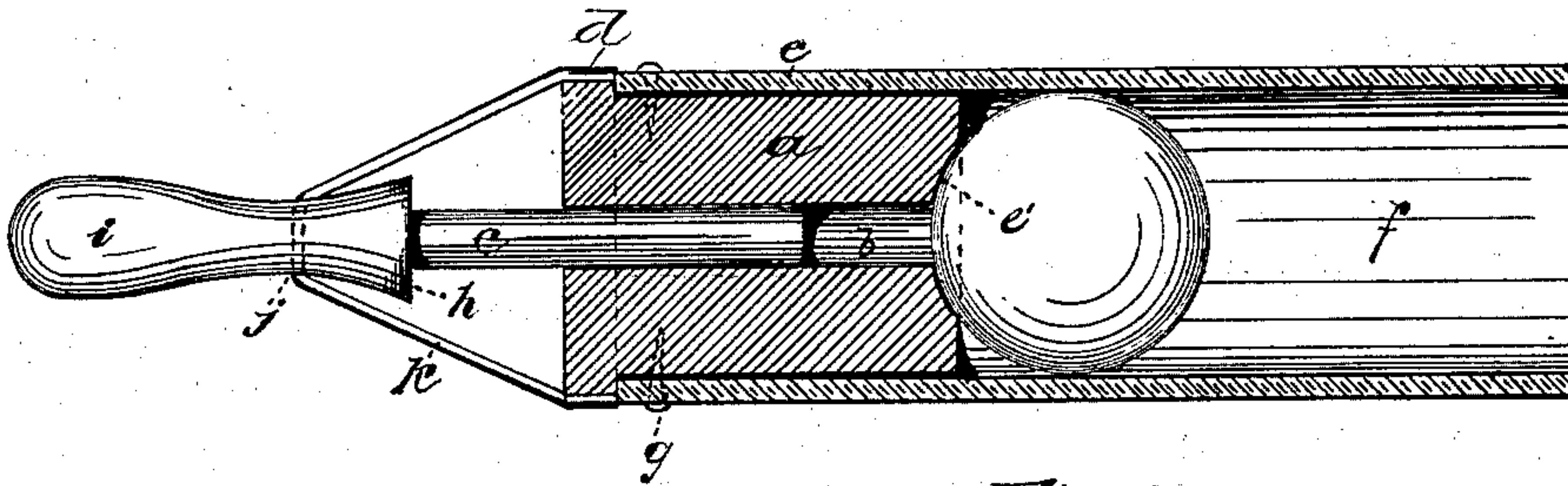


Fig. 2.

Attest:

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UNITED STATES PATENT OFFICE.

WILLIAM W. ARMINGTON, OF PROVIDENCE, RHODE ISLAND.

TOY SPRING-GUN.

SPECIFICATION forming part of Letters Patent No. 316,862, dated April 28, 1885.

Application filed August 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. ARMINGTON, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Toy Shooters or Guns; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to provide a toy adapted to throw the large wooden balls now commonly found in the possession of children; and it consists in the arrangements and combinations of parts, substantially as will be hereinafter set forth, and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the figures, Figure 1 is a side elevation of the improved device, and Fig. 2 is a longitudinal section of the same.

In said drawings, *a* is a cylindrical wooden body, having a central longitudinal channel or bore, *b*, to receive a plunger, *c*, a peripheral shoulder or ridge, *d*, to receive and protect the inner edge of a pasteboard barrel, *e*, and an end recess, *e'*, to center the ball with respect to the bore *b*, and the plunger therein, so that a perfect blow may be struck by said plunger. Around said body is secured a tubular barrel, *e*, molded out of suitable paper-pulp or formed out of pasteboard, the edges of which overlap considerably, or otherwise formed out of paper to give a large chamber for the reception of the wooden ball without materially increasing the weight of the device, and one that will not warp or split. The barrel projects considerably beyond the recessed end of the body, and forms a ball chamber, *f*, through which the ball is forced when struck by the plunger and given direction in its course. The inner edge of the barrel is brought close to the shoulder *d*, and is thereby protected and secured by a series

of tacks or like fasteners, *g g*, disposed around the body at appropriate distances apart.

Within the bore is arranged the plunger *c*, provided with a stop, *h*, which limits the inward movement thereof, and a handle, *i*, adapted to be employed in drawing the plunger preliminary to a discharge of the ball. Said handle is perforated, as at *j*, to receive an elastic cord, *k*, the ends of which are secured to the barrel or body. By drawing the handle outward the said elastic cord is stretched, so that when the hand is removed from the said handle the plunger is caused to react and strike the ball with force.

Having thus described the invention, what I claim as new is—

1. In combination in a toy shooting device, the cylindrical and bored-out body provided with the ridge *d*, a tubular barrel, one end of which engages with and is protected by said ridge, and a spring-actuated plunger, all said parts being arranged and operating substantially as and for the purposes set forth.

2. In a toy shooter or catapult, the combination of the body *a*, having the bore *b*, ridge *d*, and end centering-recess, *e'*, a tubular barrel secured on said body, and a spring-actuated plunger, said parts being arranged and combined substantially as and for the purposes set forth.

3. In a ball-shooter, the body *a*, having the bore *b* therein, and a barrel, *e*, secured therearound, in combination with a spring-actuated plunger, substantially as set forth.

4. In combination, the cylindrical body *a*, having the bore *b*, and a pasteboard barrel tacked therearound and projecting beyond the end of said body, and the plunger *c*, attached to said body by the elastic cord, all substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 2d day of August, 1884.

WILLIAM W. ARMINGTON.

Witnesses:

CHARLES H. PELL,
F. F. CAMPBELL.