(No Model.)

# E. P. EASTWICK, Jr.

## TOY MORTAR.

No. 455,184. Patented June 30, 1891.

*Fig. 1.*

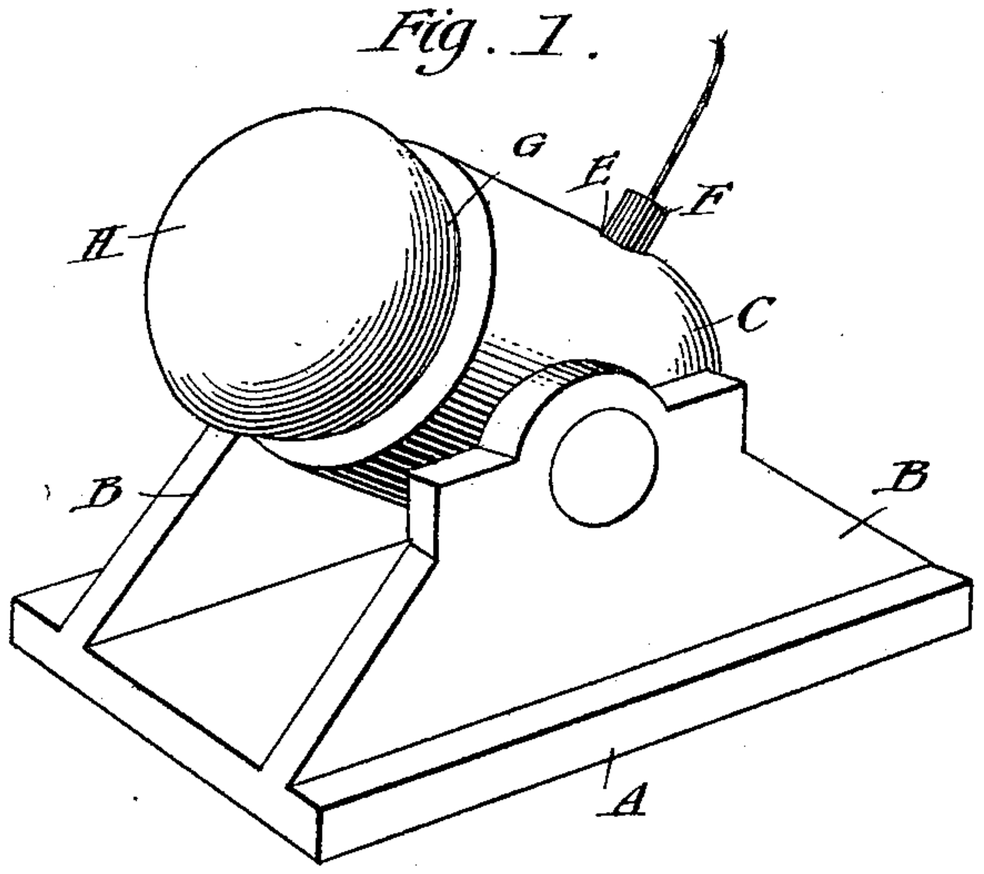
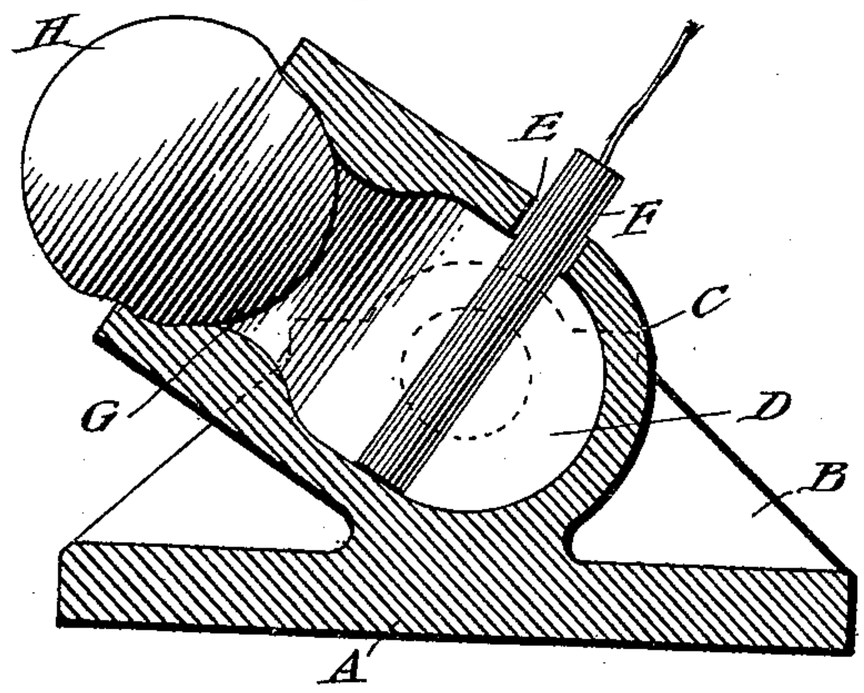



*Fig. 2.*

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# UNITED STATES PATENT OFFICE.

EDWARD P. EASTWICK, JR., OF NEW YORK, N. Y.

## TOY MORTAR.

SPECIFICATION forming part of Letters Patent No. 455,184, dated June 30, 1891.

Application filed August 15, 1890. Serial No. 362,047. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD P. EASTWICK, Jr., of the city, county, and State of New York, have invented a new and Improved Toy Mortar, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved toy mortar which is very simple and durable in construction, cheap to manufacture, and designed to fire a ball by the explosion of an ordinary fire-cracker.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both figures.

Figure 1 is a perspective view of the improvement, and Fig. 2 is a sectional side elevation of the same.

The improved toy ordnance is preferably made in the form of a mortar cast in one piece, formed with a base A, sides B, and a barrel C between the sides B and on top of the base A, as is plainly shown in the drawings. The barrel C is provided with a bore or firing-chamber D, from which extends a top opening E, through which a fire-cracker F is introduced into the bore D, part of the fire-cracker extending to the outside, with the fuse attached and the fire-cracker almost completely filling the opening E. Within the bore in rear of the muzzle is formed an annular rounding shoulder or swell G, which not only contracts the bore, but forms a flaring or cup-shaped ball-receiving socket or seat. The rubber ball H is firmly pressed into this socket or seat, part of it entering the contracted portion of the bore within the annular shoulder or swell. This shoulder prevents the ball from falling into the rear end of the bore and there getting stuck, and it concentrates the force of the explosion. When the ball is in place, an ordinary fire-cracker F is passed through the opening E, as is plainly shown in Fig. 2, and then the fuse of the fire-cracker is ignited, so that the cracker is exploded at or near the middle in the usual manner, the middle being contained within the bore D, so that the gases formed by the explosion forcibly expel the ball H, which is thus thrown a considerable distance.

It will be seen that a mortar constructed in this manner will afford considerable amusement to children, and at the same time it can be readily charged without the dangers common to toy fire-arms charged with cartridges.

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

A toy mortar having an annular rounding shoulder or swell G within its bore in rear of the muzzle, thus forming a cup-shaped or flaring seat or socket for the ball, and a fire-cracker opening E, leading through the upper side of the barrel at the breech, substantially as set forth.

EDW. P. EASTWICK, JR.

Witnesses:
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