(No Model.)

J. F. A. MUMM.

Toy Cap Exploder.

No. 239,335. Patented March 29, 1881.

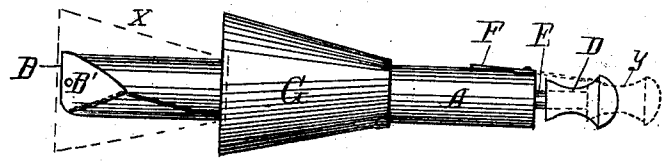


Fig. 1.

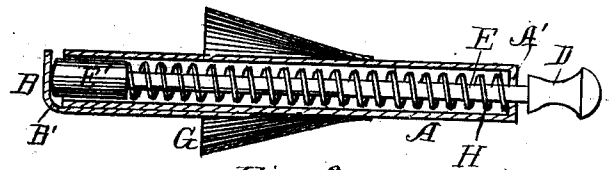


Fig. 2.

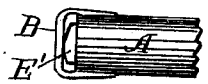


Fig. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN F. A. MUMM, OF DAYTON, KENTUCKY.

TOY CAP-EXPLODER.

SPECIFICATION forming part of Letters Patent No. 239,335, dated March 29, 1881.

Application filed September 20, 1880. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. A. MUMM, of Dayton, in the county of Campbell and State of Kentucky, have invented a new and useful Improvement in Toy Cap-Exploders, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side elevation. Fig. 2 is a vertical longitudinal sectional view, and Fig. 3 is a top view of portion of the exploder.

It is the design in this invention to provide a toy cap-exploder so constructed that the child, in using the same, will not be in danger from the explosion of the cap used; and to this end it consists in a tube of suitable length having at one end a head and at the opposite end a seat removed a short distance from the end of the tube. A plunger having a handle at one end and a head on the other is secured on the rod, forming the plunger, one end of which spring rests against the head of the tube and the opposite end against the head of the plunger, the spring thereby retaining the plunger-head against the seat on the end of the tube. A frusto-conical tube is then placed over the tube loosely, so that it will slide thereon, the enlarged end being adapted to cover the end of the tube in which the plunger and seat are located, so that when the cap is placed in the seat and the plunger allowed to explode the cap the small particles resulting from the explosion will be caught by the frusto-conical tube, and thereby preventing injury to the hand or face, as will be hereinafter more fully set forth.

In the accompanying drawings, A represents the tube, made of any suitable metal, either cast or of sheet metal, having a head, A′, at one end. The opposite end is provided with a seat, B, removed a short distance from the end of the tube A, to allow sufficient space for the insertion of an ordinary fulminate-cap. The ends of the piece B are bent around on the tube and secured thereto in any desired manner. A series of small holes, B′, are made through the seat, to allow the escape of the explosive gases from the cap.

D represents the knob on the outer end of the wire plunger E. This plunger is provided at the opposite end with a head, E′, of suitable size to fit the interior of the tube A, and a coiled spring, H, interposed between the head A′ of the tube and the plunger-head E′, the tension of which retains the head E against the seat B.

F is a latch, hinged to the end of the tube containing the handle D, so arranged that when it is turned toward the handle D the end will rest against the knob D and retain it, as shown by the dotted lines *y*.

G is a frusto-conical tube adapted to fit over the tube A so that it will slide thereon. The large end of the tube or shield G projects toward the end containing the seat B, and when the cap is to be exploded the shield G is moved forward until it covers the end of tube A, as shown by dotted lines *x*. In this position the particles caused by the explosion are prevented from burning the hands or the face.

What I claim as new is—

The combination of a tube, A, having a head at one end and a seat, B, at the opposite end, provided with a wire plunger, E, within said tube, having a knob, D, on the outer end, and on the opposite end a head, E′, a spring, H, being interposed between the head E′ of the plunger and head A′ of the tube, with the movable frusto-conical shield G and the retaining-latch F, as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand, this 14th day of September, A. D. 1880, in the presence of two witnesses.

JOHN F. A. MUMM.

Witnesses:
J. S. ZERBE,
S. STROBHART.