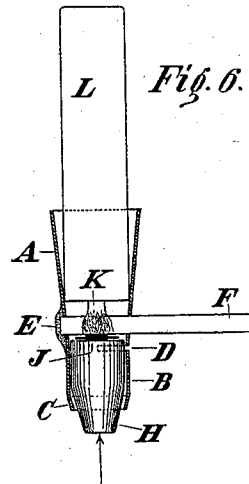
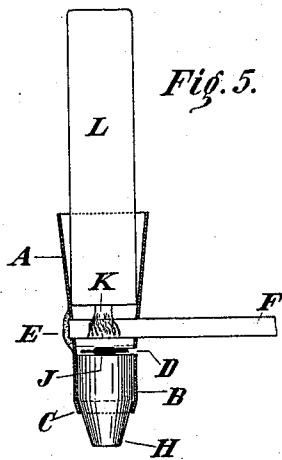
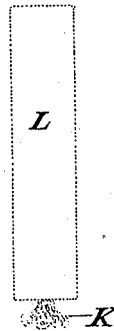
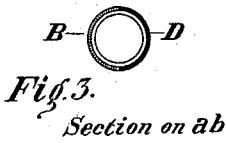
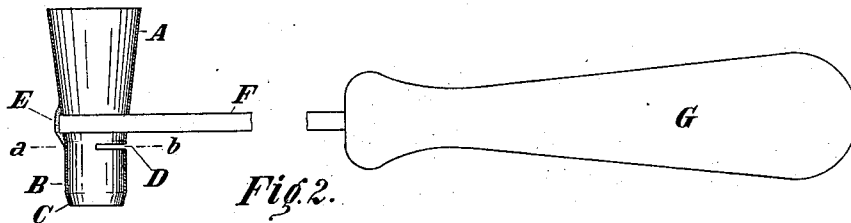
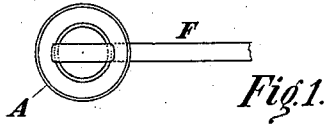


(No Model.)

S. COHN.
EXPLOSIVE TOY.

No. 598,909.

Patented Feb. 15, 1898.



Witnesses:
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UNITED STATES PATENT OFFICE.

SAM COHN, OF CHICAGO, ILLINOIS, ASSIGNOR TO JOHANNA SAPHIR, OF
SAME PLACE.

EXPLOSIVE TOY.

SPECIFICATION forming part of Letters Patent No. 598,909, dated February 15, 1898.

Application filed June 17, 1897. Serial No. 641,098. (No model.)

To all whom it may concern:

Be it known that I, SAM COHN, a subject of the Emperor of Germany, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Explosive Toys, of which the following is a full, clear, and exact specification.

My invention relates generally to toys for exploding percussion-caps and other explosives suitable for the expulsion of a missile or projectile; but it has more especial reference to that particular class in which the explosion of a cap, such as a paper percussion-cap, is utilized for ejecting a missile or projectile inserted therewith into a barrel or head.

My invention has for its primary object to provide a simple and inexpensive toy for the purpose described which shall reduce to the minimum the liability of danger resulting from its use and shall afford a novel and high degree of amusement.

With these ends in view my invention consists in certain features of novelty in the construction, combination, and arrangement of parts by which the said objects and certain other objects hereinafter appearing are attained, all as fully described with reference to the accompanying drawings and more particularly pointed out in the claims.

In the said drawings, Figure 1 is a plan view of my improved toy, looking down into the barrel or hollow head, the handle being broken away. Fig. 2 is a vertical sectional view taken on the line *a b*, Fig. 2, looking downwardly. Fig. 4 is a detail side elevation of the plunger hereinafter described. Fig. 4^a is a bottom end view thereof. Fig. 5 is a view similar to Fig. 2, showing the percussion-cap and a fire-cracker as an example of a projectile in place; and Fig. 6 is a similar view illustrating the effect of impact against the lower end of the plunger.

In carrying out my invention I employ a barrel or hollow head in which is arranged an independently-movable plunger and a cross-bar or impact-bar, one end of the barrel opposite that in which the plunger is located being for the reception of the missile or projectile of any suitable or desired character,

so that an explosive placed between the end of the plunger and the impact-bar will be exploded when the plunger is forced against the impact-bar, and the imprisoned gases thus generated will eject the missile or projectile. As a simple means of accomplishing this I employ a barrel or hollow head, preferably having one end made conical, as shown at A, while its other end is substantially cylindrical, as shown at B. Projecting across and secured in this barrel is the said impact-bar, which may be formed on and constitute a part of the stem F of a handle G, by which the device may be used like a hammer or mallet for causing the plunger H, arranged below the impact-bar F and within the cylindrical portion B of the barrel, to strike against the impact-bar and explode the cap or other explosive J, placed between the end of the plunger and such bar. The opposite end of the barrel is conical, so that the projectile L, here shown as a fire-cracker, may be readily inserted air-tight in the barrel, with its fuse K projecting down toward the cap J in a position to receive the flame from such cap when the explosion takes place, thus at once expelling the projectile and igniting its fuse.

The plunger H may be held in the barrel or head with capability of limited endwise movement in any suitable manner; but I preferably accomplish this by making one end of the plunger slightly conical and compressing the end of the barrel around this reduced portion, so that the plunger will be prevented from slipping out at one end by the cross-bar T and at the other end by the contracted portion C of the barrel, leaving the extreme end of the plunger projecting sufficiently to be struck against the ground or other surface when it is desired to explode the cap.

The cap or explosive may be inserted through the conical mouth A of the barrel, if desired, and forced down past the cross-bar F against the plunger H; but this may be accomplished with greater convenience and accuracy by providing the side of the barrel at a point between the cross-bar F and the plunger H with a slot D of sufficient width to admit the cap J. When the plunger H makes its relative upward movement in exploding

the cap J, this slot D is closed by the larger portion of the plunger and the gases caused by the explosion thus compelled to insert their entire influence against the projectile and prevent it from escaping through the slot.

The inner end of the cross-bar F may be secured in place in any suitable manner, such as by a drop of solder E.

It will of course be understood that the fire-cracker L shown in the drawings is only an example of missile or projectile and that a ball, shuttle-cock, or any other missile may be used. It will also be understood that the device will afford amusement without the missile and by the explosion of the cap or other explosive alone.

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

1. A toy for the purpose described having in combination a hollow head or barrel, an impact-bar located therein, means for exploding an explosive against said impact-bar located in one end of said barrel and a projectile arranged in the opposite end thereof, substantially as set forth.

2. A toy for the purpose described having in combination a hammer-shaped head and handle, said head being hollow and containing an impact-bar, means located in one end of said head and projecting therefrom whereby the impact of the head against the ground or other surface will force said means toward said impact-bar, a missile or projectile located in the opposite end of said head, substantially as set forth.

3. A toy for the purpose described having in combination a hollow head, a loose plunger arranged in and projecting from one end of said head, an impact-bar located in said head and adapted to receive the impact of said plunger and a missile located in the opposite end of said head, substantially as set forth.

4. A toy for the purpose described having in combination a hollow head, a handle projecting transversely from said head and extending thereinto and constituting an impact-bar, a loose plunger arranged on one side of

said bar and projecting from one end of said head for exploding an explosive against said bar, the opposite end of said head being adapted for the reception of a missile or projectile, substantially as set forth.

5. A toy for the purpose described having in combination a hollow head, an impact-bar arranged in said head, a plunger located in one end of said head and adapted to expel an explosive against said bar, said head being slotted at a point between said bar and plunger for the reception of the explosive, substantially as set forth.

6. A toy for the purpose described having in combination a head provided with a conical interior at one end, an impact-bar arranged in said head and means for exploding an explosive against said impact-bar, the end of said head opposite said conical end being substantially closed, substantially as set forth.

7. A toy for the purpose described having in combination a hollow head provided at one end with a conical interior for the reception of a missile or projectile, the other end of said head being provided with means for exploding an explosive and said means having a portion projecting therefrom, and a handle projecting transversely from said head whereby the device may be utilized as a hammer or mallet, substantially as set forth.

8. A toy for the purpose described having in combination a hollow head having a conical interior at one end and a cylindrical interior at the other end, an impact-bar projecting across the interior of said head, a plunger having a cylindrical portion fitted in the cylindrical end of said head and also a reduced end projecting from said head, the end of said head being contracted around said reduced end and said head at a point between said bar and plunger being provided with a slot, substantially as set forth.

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