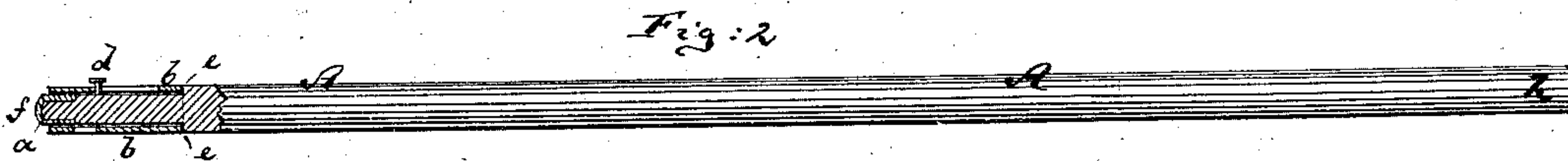
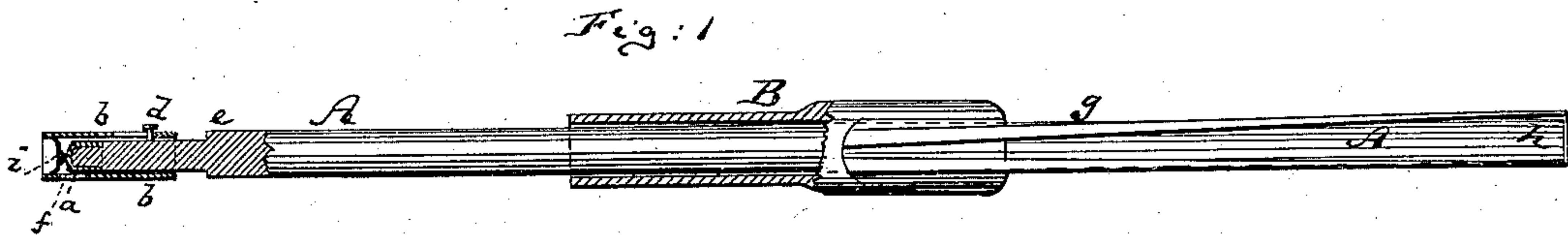


W. G. FISCHER.  
TOY CAP EXPLODER.

No. 190,481.

Patented May 8, 1877.



Witnesses:  
John C. Tunbridge  
A. V. Briesen

Inventor:  
Wm. G. Fischer  
by his attorney  
A. V. Briesen

# UNITED STATES PATENT OFFICE

WILLIAM G. FISCHER, OF BROOKLYN, NEW YORK.

## IMPROVEMENT IN TOY CAP-EXPLODERS.

Specification forming part of Letters Patent No. **190,481**, dated May 8, 1877; application filed April 16, 1877.

*To all whom it may concern:*

Be it known that I, WILLIAM G. FISCHER, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Toy Cap-Exploder, of which the following is a specification:

Figure 1 is a side view, partly in section, of my improved toy cap-exploder, showing it charged. Fig. 2 is a similar view, showing it discharged.

Similar letters of reference indicate corresponding parts in both figures.

This invention relates to a cheap and durable toy for children, which will explode paper or other small caps filled with an explosive substance.

The invention consists in the use of a rod or arrow that is embraced at one end by a sliding sleeve, and serves to hold and retain the explosive cap by friction directly against an anvil, which is sunk into or fastened to the end of the rod. When the rod is propelled against a wall or other article offering sufficient resistance, the sleeve will be caused to slide backward on the rod and permit the cap to be exploded.

In the accompanying drawing, the letter A represents an arrow or rod of wood, metal, or other material, and of suitable size and shape. At one end, *a*, the arrow A is embraced by a hollow metallic sleeve, *b*, that can slide lengthwise thereon, so as either to project over the end of the arrow-rod, as in Fig. 1, or be drawn back over the body thereof, as in Fig. 2. The sleeve *b* may be provided with a longitudinal slot or slots, through which the head of a pin, *d*, driven into the arrow A, passes for guiding said sleeve and holding it on the rod. The arrow A may also be provided with a shoulder, *e*, as shown, for the inner end of the sleeve *b* to rest against. If

the arrow A is made of wood or other soft material, its end *a* should be covered with a metallic or other hard tip or head, *f*. I prefer to slot the sleeve *b* at its sides, near its outer end, in order to be able to inspect the position of a cap placed therein. The arrow A may be propelled forward by a suitable bow, or by a toy pistol, B, having a rubber band, *g*, which is laid over the end *h* of the arrow; but the arrow may be propelled in other suitable manner.

In use, a flat explosive cap, *i*, is placed against the end of the arrow, and the sleeve *b* is drawn forward to project over such end and hold the cap in place by friction, as shown in Fig. 1 of the drawing. The instrument is now held with the end on which the cap rests opposite to a table, wall, or other article, and is then propelled forward. The sleeve *b* will now, by the contact with the wall against which it is propelled, be forced backward on the arrow, the cap *i* exposed, and exploded between the head *f* and the wall.

The invention is also applicable to a cane or equivalent device.

I claim as my invention—

1. The combination of the rod A with the sliding sleeve *b*, which is open at both ends, and serves to hold the cap by friction until explosion takes place, and then recede to release and expose the cap to contact with the object against which the instrument is propelled, substantially as specified.

2. In a toy cap-exploder, the combination of the rod A, having the pin *d*, with the slotted sliding sleeve *b*, which embraces one end of said rod, substantially as specified.

WM. G. FISCHER.

Witnesses:

F. V. BRIESEN,  
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