

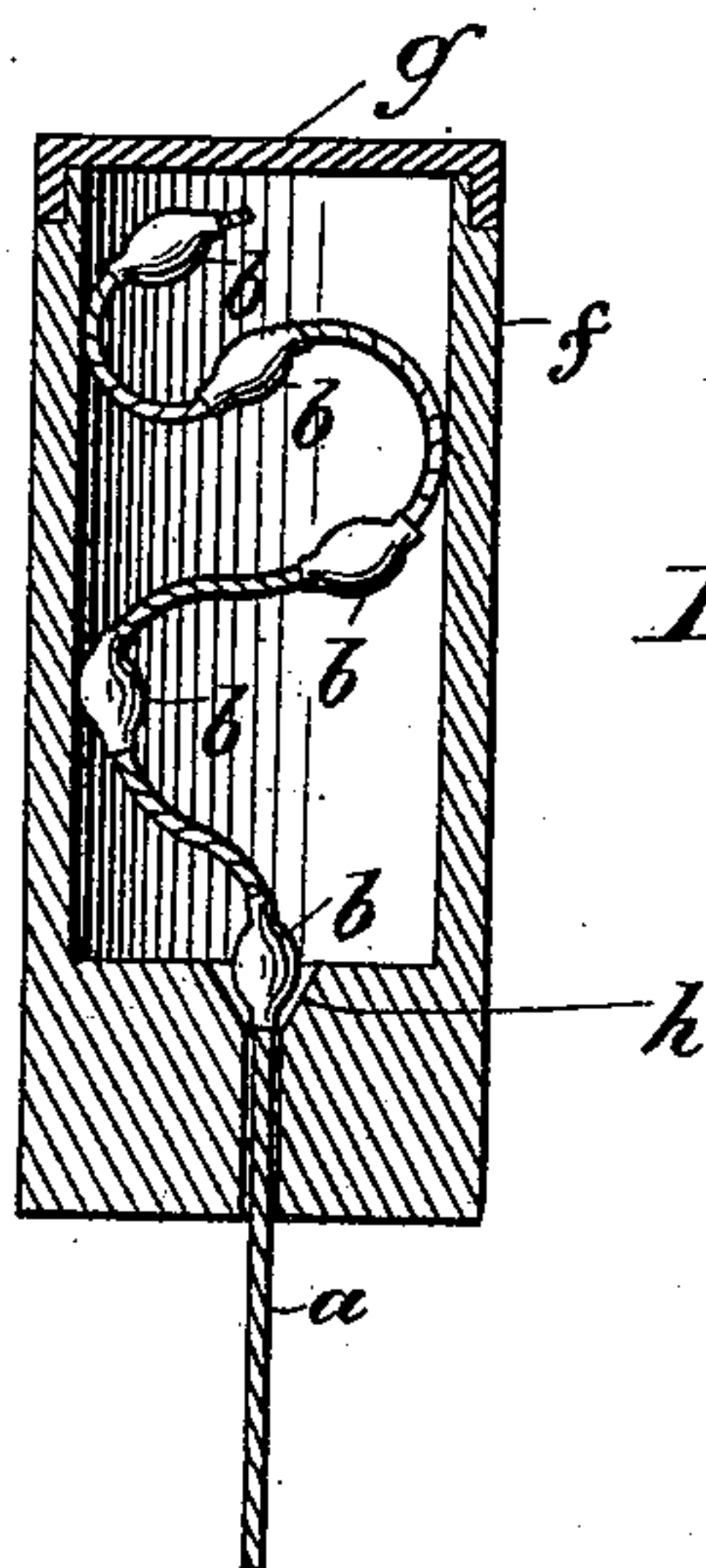
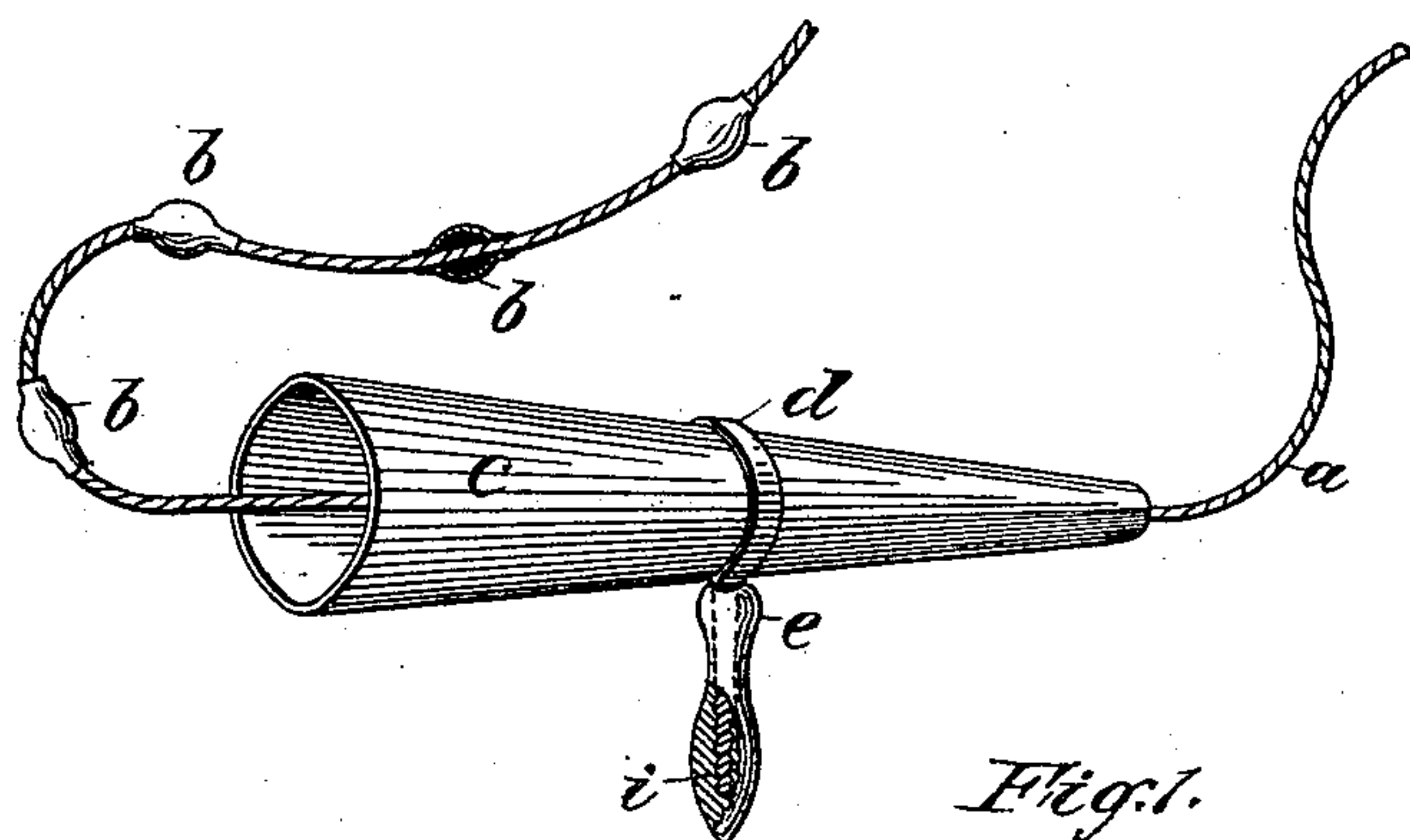
(No Model.)

D. BALDWIN.

DETONATING TOY.

No. 395,867.

Patented Jan. 8, 1889.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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DETONATING TOY.

SPECIFICATION forming part of Letters Patent No. 395,867, dated January 8, 1889.

Application filed February 28, 1888. Serial No. 265,561. (No model.)

To all whom it may concern:

Be it known that I, DAVID BALDWIN, a citizen of the United States, residing at the city of New York, in the county and State of New York, have invented certain new and useful Improvements in Toys for Producing Loud Explosions, of which the following is a full, clear, and exact specification, reference being had to the drawings accompanying the same and forming a part thereof.

My invention has relation to devices for the production of sudden and loud reports; and the object of my improvement is to provide a simple, inexpensive, and easily-manipulated toy particularly designed for children's use, which may be made to produce a succession of sharp and violent reports; and this I accomplish by providing a cord or string with a series of beads composed of an explosive material, combined with a case for holding and effecting the explosion of the beads, all as will be fully hereinafter set forth.

By reason of the peculiar character of the toy I have styled it the "mitrailleuse."

In the accompanying drawings, which clearly illustrate the novel features of my invention, Figure 1 is a side elevation of one of these detonating toys shown with the explosive string arranged ready for firing, and Fig. 2 is a sectional view of a modified form of safety and exploding case with the bead ready to be exploded.

Let *a* represent a piece of strong cord or twine provided at uniform intervals throughout its length with beads *b b*, &c., composed of a small mass of detonating-powder, secured on the string by means of a paper wrapper, the fulminating compound being generally the same as that employed in paper caps.

c is a tube, which tapers to one end, and which is made of tin, having at the smaller end an aperture of less size than the beads *b*, through which the string is drawn, and which causes the explosion of the bead when it is struck against it. As the string is pulled through the tube, one after another of the beads will be exploded, producing a succes-

sion of sharp and sudden reports, while the surrounding case serves as a protection to the operator. A band, *d*, is made to encircle the tube *c*, and is provided with a long shank, *i*, made tapering and having a screw-threaded extremity, on which is screwed a handle portion, *e*, by which the device is held when being used.

When desired, and in case of the use of the toy by very young children, the handle *e* is removed and the device screwed to a table.

Fig. 3 shows a cylindrical case, *f*, provided with a tight-fitting cover, *g*. The bottom of the box is made of considerable thickness, as represented, to give it the requisite strength, and is provided with a tapering aperture, *h*, through which the string is drawn, the aperture being small enough to cause the explosion of the beads as the string is pulled through it. The hollow portion of the box is used to contain two or more strings, as desired.

This simple form of detonating toy is applicable to several other purposes besides that just mentioned—as, for instance, it may be screwed to the door-frame with the end of the string attached to the door itself, so that on opening the door the string is pulled through the tube, causing the explosion of one of the beads, and thus serving as a simple burglar-alarm.

What I claim as new, and desire to secure by Letters Patent, is—

1. A toy for producing loud explosions, consisting of a string coated at intervals with an explosive compound, with a cone-shaped tube for holding and causing the explosion of the same, as set forth.

2. The combination, in a detonating toy, of a string having a series of beads of explosive material, the said beads being covered with paper, with a tapering tube for causing the explosion of said beads, as set forth.

DAVID BALDWIN.

Witnesses:

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