

No. 891,407.

PATENTED JUNE 23, 1908.

H. COTTRELL.  
TOY FILM BURSTER.  
APPLICATION FILED JAN. 9, 1907.

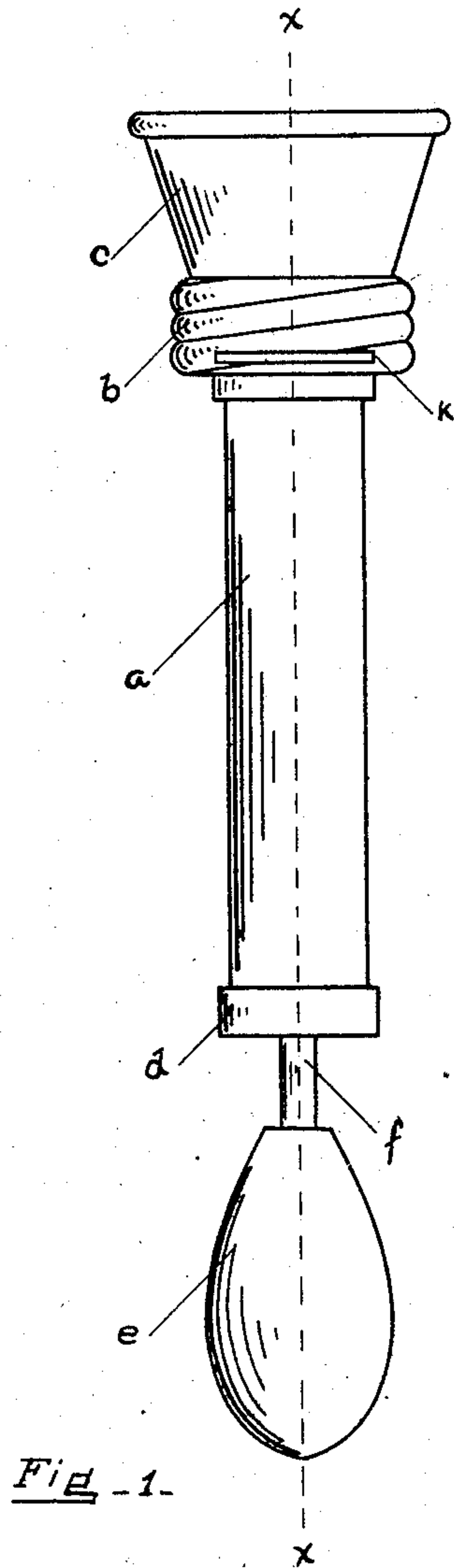


Fig. 1.

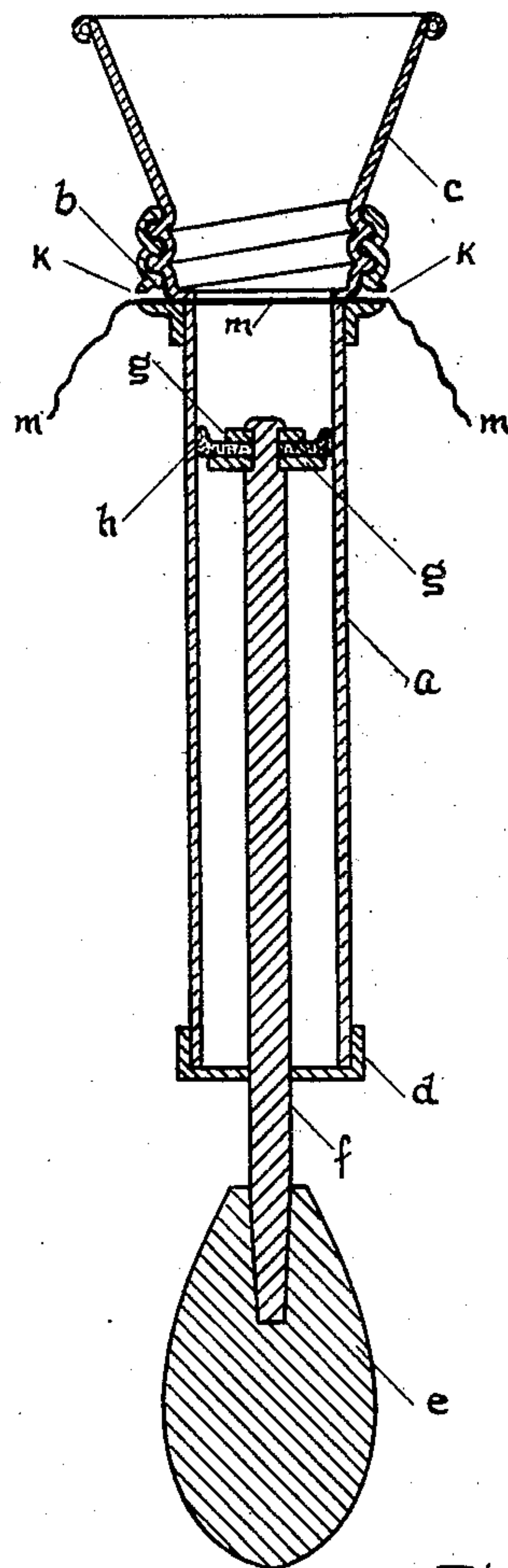


Fig. 2.

WITNESSES:

Howard C. Cottrell.  
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# UNITED STATES PATENT OFFICE.

HERBERT COTTRELL, OF NEWARK, NEW JERSEY.

## TOY FILM-BURSTER.

No. 891,407.

Specification of Letters Patent.

Patented June 23, 1908.

Application filed January 9, 1907. Serial No. 351,411.

*To all whom it may concern:*

Be it known that I, HERBERT COTTRELL, a citizen of the United States, and a resident of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Toy Film-Burster, of which the following is a specification.

The object of my invention is to provide a toy in which a strip of paper or other film, may be bursted in successive perforations by means of compressed air to produce a loud explosive report, without any of the danger attending the use of ordinary toy fire-arms. I attain these objects by means of the device illustrated in the accompanying drawings, in which:—

Figure 1, is an external view of the toy complete. Fig. 2 is a sectional view on the line  $x-x$  Fig. 1.

Similar letters refer to similar parts in the several views.

My invention is preferably formed of metal; the cylinder  $a$  is fitted with a piston  $h$  upon rod  $f$  which may be operated by handle  $e$ , to compress air therein. Rod  $f$  is guided by means of cap  $d$  on the end of cylinder  $a$ . On the end of cylinder  $a$  opposite to cap  $d$ , is secured an enlarged tubular screw threaded socket  $b$ , which is preferably made of metal and has a screw thread "spun" or pressed therein; it is secured to cylinder  $a$  by means of a collar portion fitted upon the outside of said cylinder  $a$  and is soldered or otherwise attached thereto. Socket  $b$  is provided with open slots  $k$ , located on opposite sides of the socket, as shown in Fig. 2, for the purpose of passing a strip of paper or other film  $m$  through, and across the mouth of cylinder  $a$ . Said slots are of a predetermined size, being of a length less than the diameter of the socket within which they are formed, to limit the size of the strip or film being used and to guide it while being fed through the toy. A tubular flared mouth piece  $c$  has its lower portion formed with a screw corresponding to socket  $b$  and its edge is turned inwardly to adapt it to clamp film  $m$  between it and shoulder of socket  $b$ . The end of the cylinder  $a$  and the inturned edge of the mouth piece  $c$  form opposing seats which have a relative movement toward and from each other by means of the screw-threaded connection shown. Said seats are of less in-

ternal diameter than the length of the slots, the slots being arranged relatively to the seats in such manner as to permit the strip to extend entirely over the open end of the cylinder and provide edge portions which are normally clamped between the seats. The enlarged end of mouth piece  $c$  is turned over to give strength thereto so that it may be firmly grasped in the hand when screwing it down upon strip  $m$ .

When the film strip  $m$  is held clamped between socket  $b$  and mouth piece  $c$  the piston  $h$  may be operated to compress air in cylinder  $a$ , the pressure of air will burst the film  $m$ , and the explosive report produced will be amplified by the flaring mouth piece  $c$  to a slight extent, the strip or film  $m$  will be released, leaving the edge portions of the strip, which have been clamped, intact, so that the strip may be drawn through the slots  $k$  to provide a new portion of the strip in proper position for the bursting operation, whereupon the strip may again be clamped and bursted; thus a long strip may be used in successive burstings, to produce loud explosive reports, the slots providing for a proper positioning of the strip between the seats without the necessity of particularly adjusting or using care in the manipulation of or placing in position of the strip between the seats, so that the bursting operation may be continued with rapidity. Furthermore, the fact that the slots each have closed ends, prevents the accidental dropping or the loss of the strip while the toy is being carried about or when being positioned in the toy.

What I claim is:—

A toy of the character described comprising a tubular portion constituting a piston cylinder, a cap attached to one end of said tubular portion, a threaded annular member having a contracted lower portion, said contracted lower portion of said annular member secured to that end of the tubular portion opposite the end provided with a cap, the body portion of said annular member being of greater diameter than said tubular portion, the said body portion of said annular member provided with a pair of elongated slots arranged opposite each other, said slots positioned in close proximity to said contracted part of the annular member and constituting seats, and a mouth-piece embodying a flaring portion



and a cylindrical screw-threaded portion, said  
cylindrical screw-threaded portion adapted  
to extend in said annular member and engage  
with the screw threads thereof, the inner  
5 edge of said mouth piece adapted to clamp  
a strip of material to said seat.

In testimony whereof, I have signed my

name to this specification in the presence of  
two subscribing witnesses.

HERBERT COTTRELL.

Witnesses:

HOWARD C. COTTRELL,  
JENNIE M. CROOKE.