

S. WEISS.
TOY OR FILM BURSTER.
APPLICATION FILED OCT. 28, 1911.

1,056,761.

Patented Mar. 18, 1913.

2 SHEETS-SHEET 1.

Fig. 1

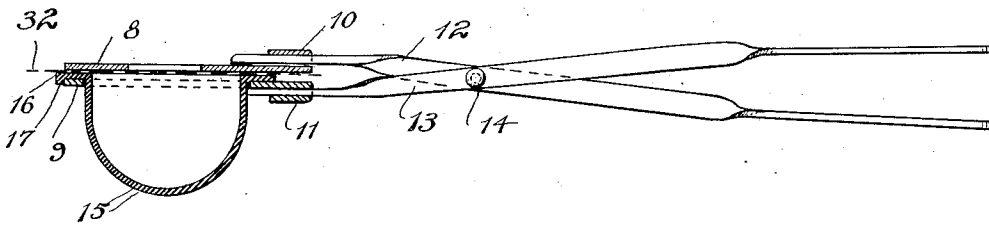


Fig. 2

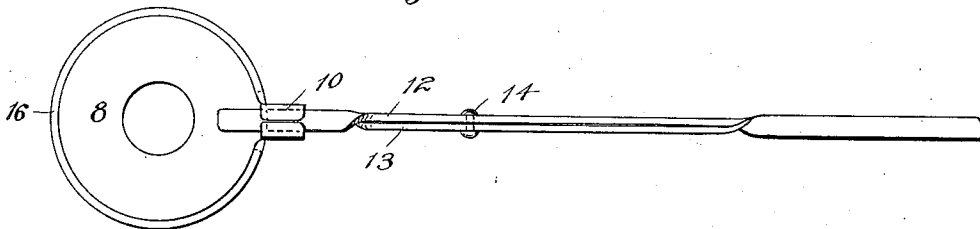


Fig. 3.

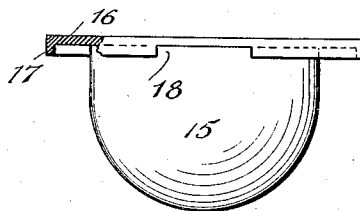
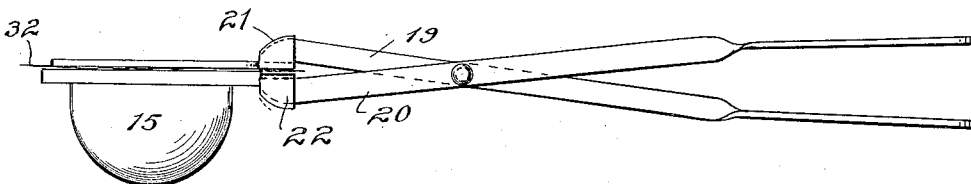


Fig. 4



Witnesses:

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2 SHEETS—SHEET 2.

Fig. 5

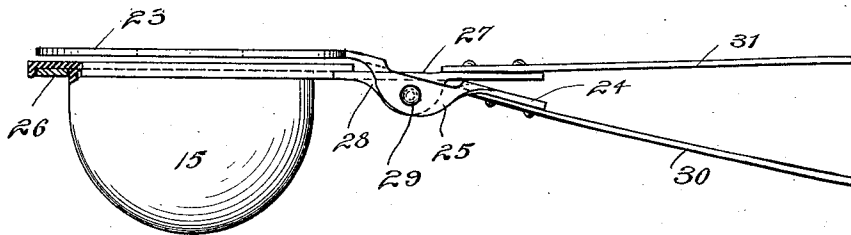


Fig. 6

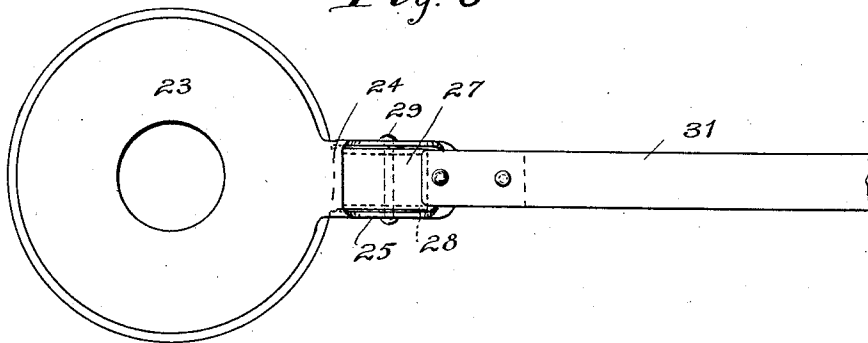
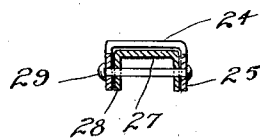


Fig. 7



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UNITED STATES PATENT OFFICE.

SAMUEL WEISS, OF CHICAGO, ILLINOIS.

TOY OR FILM-BURSTER.

1,056,761.

Specification of Letters Patent.

Patented Mar. 18, 1913.

Application filed October 28, 1911. Serial No. 657,303.

To all whom it may concern:

Be it known that I, SAMUEL WEISS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Toys or Film-Bursters, of which the following is a specification.

This invention relates to toys or devices by means of which a piece of paper or other suitable fabric may be ruptured, by means of compressing air in a suitable hollow body over which the paper is placed. The rupturing of the fabric permits the escape of the compressed air and causes a loud noise resembling an explosion. Such devices are particularly adapted for amusement purposes to take the place of explosive devices, such as fire crackers, torpedoes, or the like. Among the objects of the present invention are, to improve and cheapen the construction of such devices, to provide a novel form of collapsible hollow body which will retain its position between the clamping rings, to strengthen the handles and to provide such other novel features and improvements as will appear hereinafter.

In the accompanying drawings illustrating my invention, Figure 1 is a side view, partly in section, of a toy or film burster embodying this invention. Fig. 2 is a top plan view of the same. Fig. 3 is an enlarged detail of the ball or collapsible body. Fig. 4 is a side elevation of a slightly modified form of construction. Fig. 5 is a side elevation partly in section showing a still further modification. Fig. 6 is a plan view of the form of device shown in Fig. 5. Fig. 7 is a cross sectional view through the hinge.

In order to reduce the cost of production as much as possible, and at the same time to produce a strong and efficient device, I make the upper and lower rings 8 and 9, as indicated in Figs. 1 and 2, by stamping the same out of suitable material, such for instance as sheet steel and provide these rings at one side with projections 10 and 11, which may be folded or pressed up, to engage with the inner ends of the handles 12 and 13. These handles are preferably made of strips of spring steel of greater thickness and strength than the material used in the rings. The inner ends of the handles lie flat against the surfaces of the rings, and preferably extend inwardly some distance beyond the clips or clamping portions 10

and 11, thereby strengthening the joint and stiffening the ring members. The handles are each given a one quarter turn at a short distance from the rings so that they will lie flat against each other and are provided with a rivet 14 which holds them together, and forms a pivot or joint so that they will operate similar to a pair of shears. These handle members are also given another quarter turn adjacent to the outer ends, so that their flat surfaces will be opposed to each other in order to form a convenient hand hold.

The ball or hollow body 15 fits within the ring 9 and is provided with an outwardly extending flange 16, resting upon the upper surface of the ring 9. This flange 16 is provided with a downwardly extending rim or projection 17 which engages with the outer edge of the ring 9 and serves to prevent the flange 16 from being drawn inwardly when the device is used. The rim or projection 17 may be cut away for a short distance as indicated at 18, where the handles project, but this is not objectionable, as the upper flange 16 is usually pinched or pressed tightest at this point.

The arrangement of the outwardly extending flange with the downwardly projecting annular rim or bead 17 is an exceedingly desirable feature as, without this projection, the upper portion of the ball or collapsible body is apt to be drawn in when the device is used, and frequently the body will become partially or wholly disengaged from the ring.

With the form of device shown in Fig. 4, the handles 19 and 20 are not given a quarter turn adjacent to the rings, but stand with their width perpendicular to the rings, which, however, requires longer clips 21 and 22 on the sides of the rings for engagement therewith.

In the further modification shown in Figs. 5 to 7, the upper ring 23 is provided with a projection 24, which is cut away centrally, and has downwardly turned ears 25 to form one of the hinge members. The lower ring 26 is provided with a somewhat similar projection 27, having downwardly turned ears 28 which fit within the ears 25 so that when the pintle 29 is inserted a suitable hinge will be formed. Handles 30 and 31 are riveted to the projections 24 and 27, thereby completing the frame portion of the device. The same rubber ball or collapsible

member 15 is used as in the above described forms.

It will be noted that with my improved form of construction, the annular clamping rings of the device may be readily stamped out of sheet metal with comparatively little waste, while the handles may be made of stronger stock material and readily secured to the rings in a substantial and economical manner.

The operation of the device will be readily understood. The toy is used by placing a piece of paper or other suitable fabric, such as indicated at 32, upon the upper surface of the flange of the collapsible body 15 and then pressing the upper ring tightly against the same, which makes a substantially air tight joint between the paper and the ball or body. The body is then struck against some comparatively unyielding object which causes it to collapse and compress the air therein. The compressed air ruptures the paper by bursting it out through the relatively small hole in the upper ring, thereby producing a loud report. The device is intended principally for the use of children, and the projecting ring of rubber around the head thereof, serves as a safeguard against injury on account of being struck by the edges of the metal rings.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. In a toy or film burster, the combination of a pair of clamping rings formed from sheet metal with integrally formed engaging projections, with handles secured to said projections.

2. In a device of the character set forth, the combination with the metallic clamping rings having integrally formed projections for engagement with the handles, with handles having their ends secured in said projections and arranged so that they will cross each other a short distance from the rings, and a pivot through said handles at the point of crossing.

3. In a device of the character set forth, the combination of a pair of clamping rings formed from sheet metal with integrally formed projections having clips for securing the handles, with handles formed of flat bars, the inner ends of said handles lying flat against the rings and engaging with said clips, said handles being then given a quarter turn so that the flat sides will be presented to each other and then given another quarter turn to form hand holds, and a pivot through said handles where they cross each other.

4. In a toy or film burster, the combination of a flat ring having a projection for engagement with the handle, a handle engaging with said projection, a second ring also having a projection for engagement with a handle, a handle engaging with said projection, said handles being crossed adjacent to the rings, a pivot through said handles, a collapsible body engaging with one of said rings, said body having an outwardly projecting flange resting on the surface of the ring and projecting beyond the same, said projecting portion being provided with a downwardly extending bead engaging with the outer edge of the ring.

5. In a toy or film burster, the combination of an annular ring, a collapsible body fitting in said ring, said body having an outwardly projecting flange resting on the surface of the ring and terminating with a downwardly projecting flange engaging with the outer edge of the ring, a second ring adapted to co-act with said first named ring for clamping a piece of paper over the hollow body, said rings being provided with integrally formed clips, handles engaging with said clips and crossing at a short distance from the rings, and a pivot through said handles.

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Witnesses:

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