

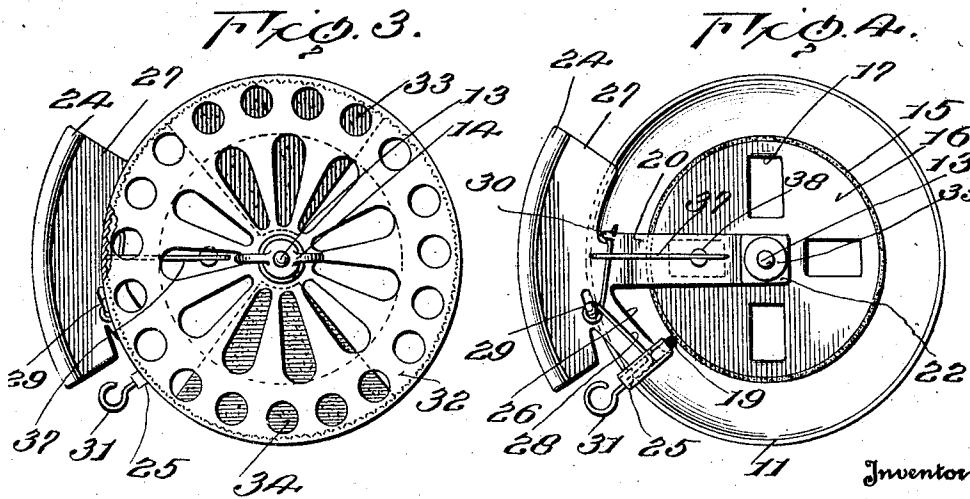
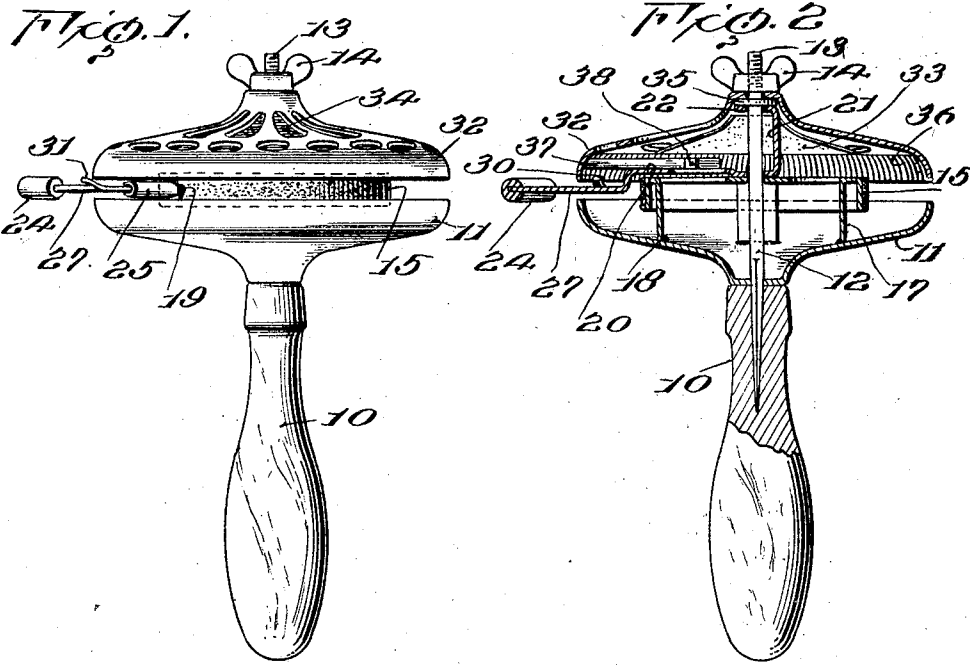
Mar. 3, 1925.

1,528,238

L. V. ARONSON

WHIRLING SPARKLER

Filed April 24, 1923



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UNITED STATES PATENT OFFICE.

LOUIS V. ARONSON, OF NEWARK, NEW JERSEY.

WHIRLING SPARKLER.

Application filed April 24, 1923. Serial No. 634,318.

To all whom it may concern:

Be it known that I, LOUIS V. ARONSON, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Whirling Sparklers, of which the following is a specification.

The invention relates to toys, and has as an object the provision of a toy adapted to produce a shower of sparks, with means to cause said sparks to show lights of a variety of colors. A further object of the invention is the provision of a toy, such as above described, provided with additional means to produce sound.

An illustrative embodiment of the invention is shown in the accompanying drawings, in which—

Fig. 1 is a side elevation.

Fig. 2 is a vertical central section, partly in elevation.

Fig. 3 is a plan view, partly broken away, and

Fig. 4 is a plan view with the upper half of the casing removed.

As shown, the device comprises a handle 10, and a shell 11 rigidly secured to the handle. To act as an axis upon which the movable parts of the device operate, a pin 12 is shown as driven into the handle 10 and as being threaded at 13 to retain the parts by means of a wing nut 14.

To hold a hand of abradant material 15, there is shown a plate 16, supported from the shell 11 by means of tongues 17 struck out from the material of the plate and secured to the shell 11, as at 18, in any convenient manner, as by soldering, brazing, or riveting.

To carry a piece of pyrophoric material 19, there is shown a revolving element comprising a strap 20 journaled upon the pin 12 and having a portion 21 bent at an angle to the strap 20, and again bent to provide a portion 22, also journaled upon the pin 12. By the provision of the portion 21, 22, the revolving element is caused to remain in a plane perpendicular to the pin 12.

To provide momentum for the strap or plate 20 there is shown a segment 23 having a weight 24 applied to its edge. The pyrophoric element 19 is shown as mounted in a socket 25 formed from the material of an integral with the plate 20 and segment 27. When the socket 25 is formed the end

of the material is left spaced from the main portion of the arm 26 to provide a slot for reception of the end of a spring 28, mounted upon a tongue 29 struck up from the segment 27 and anchored behind a second tongue 30, also shown as struck up from the material of the plate 20 and segment 27.

For ready renewal of the pyrophoric element 19 the spring 28 is shown as protruding from the socket 25 and formed into a loop 31, which may be grasped to remove the spring 28 from the slot in which it works, when a new piece of pyrophoric element may be introduced.

To cover the working parts, there is shown a second shell member 32 which may be a duplicate in form of the shell 11, or may be of other forms, as will be referred to hereinafter.

As shown, the shell 32 is provided with a series of perforations, some of which are covered with a translucent material 33, of one color, and others with a piece of translucent material, 34, of a different color. Other of the perforations are left open so that the sparks showing therethrough may appear white. It is preferred that the materials 33, 34, shall be colored red and blue, so that the national colors may be displayed.

To support the shell 32, there is shown a disk 35 rigidly secured to the pin 12, against which the shell 32 is pressed by means of the wing nut 14. It is obvious that the pin 12 may be headed over to secure the shell 32 in place if its removal is not desired for any purpose.

To produce sound the stationary shell 32 may be provided upon its interior with teeth 36, and a spring tongue 37 may be mounted in a pen 38 carried by the plate 20, which spring by impact against the teeth 37 may form a rattle.

It is obvious that the shell 32 may be formed in any shape desired, and that the openings may be arranged in any desired manner, as for instance, to simulate the eyes or other features of an animal, such as disclosed in my Patent No. 1,422,075 granted July 11, 1922.

Minor changes may be made in the physical embodiment of the invention without departing from its spirit.

I claim:

1. A handle, a stationary shell mounted on said handle, a band of abradant material

carried by said handle and partially enclosed by said shell, a pyrophoric element carried by said handle, one of said last-named elements being revoluble whereby sparks will be produced, a shell mounted upon said handle in front of said spark producing elements, said shell having perforations, a covering of colored translucent material for some of said perforations.

2. A handle, a band of abradant material carried by said handle, a pyrophoric element carried by said handle in contact with said band, one of said last named elements being revoluble, a weight secured to said revoluble element to provide momentum, said mechanism adapted to produce sparks when said revoluble element is actuated, a shell rigidly mounted upon said handle in front of said spark producing mechanism, said shell having perforations, a covering of colored translucent material for some of said perforations, a series of dentations, and a spring element, one carried by said shell and the other by said revoluble element whereby colored sparks and a sound will be produced simultaneously.

3. A handle, a pin projecting therefrom, a plate rigidly carried by said handle having a ring of abradant material upon its margin, a plate revolubly mounted upon said pin, a socket upon said plate, a pyrophoric element mounted in said socket so as to be

moved in contact with said abradant material, means carried by the plate to exert pressure upon said pyrophoric element, a shell fixed upon said pin covering said spark producing mechanism, said shell having perforations, a covering of colored translucent material for some of said perforations.

4. A handle, a rod rigidly carried by said handle, a pair of shells rigidly mounted on said rod in spaced relation, a band of abradant material carried by one of said shells, a plate revolubly mounted upon said rod projecting through the space between said shells, a weight upon said plate, a pyrophoric element carried by said plate in contact with said abradant material, one of said shells having a series of perforations, a covering of translucent material for some of said perforations.

5. A toy comprising in combination, a handle, opposed shells providing a space therebetween and mounted on said handle one thereof having a series of openings, a covering of colored translucent material for some of said openings, a momentum member revolubly mounted on said handle between said shells and revolving in said space and illuminating means enclosed between said shells and actuated by said revoluble member to illuminate said openings.

LOUIS V. ARONSON.