Sept. 30, 1947. B. P. YOGAN 2,428,133

ILLUMINATED TOY

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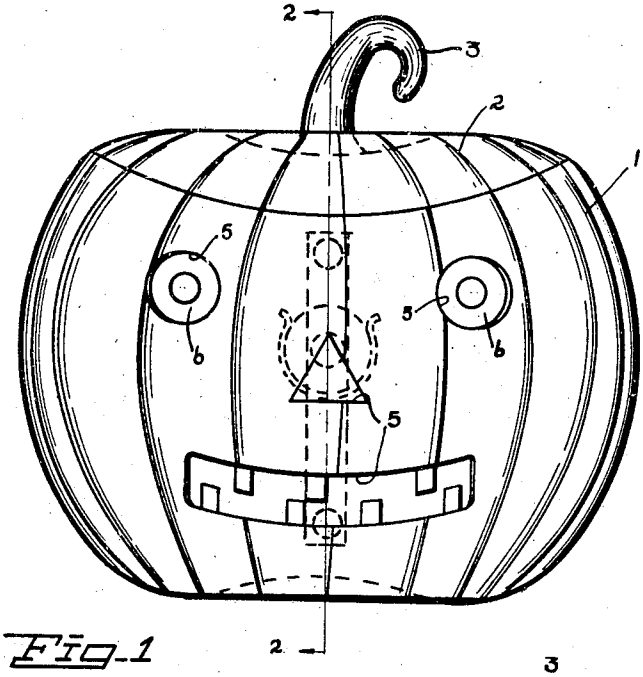


Fig. 1

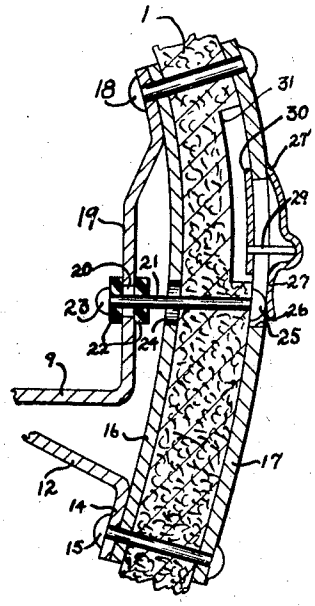


Fig. 4

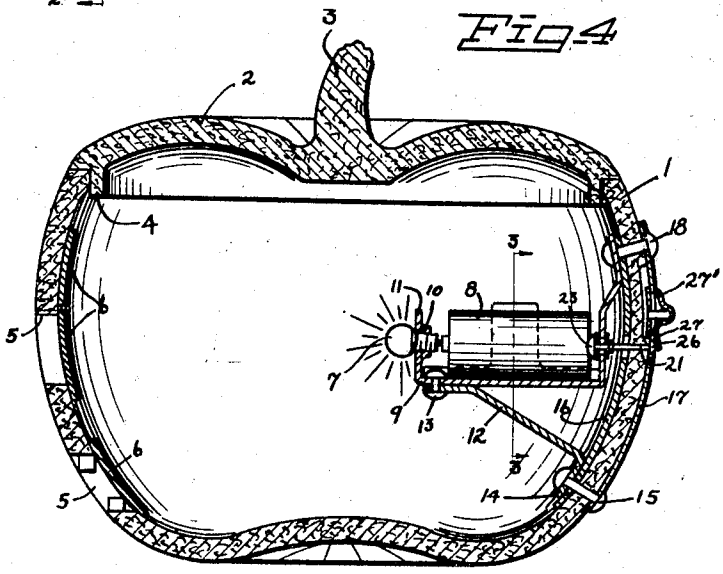


Fig. 2

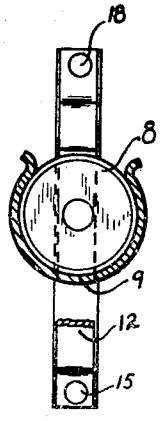


Fig. 3

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ILLUMINATED TOY

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5 Claims. (Cl. 240—16)

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This invention relates to an illuminated toy and while the inventon has been illustrated as a "jack-o'-lantern," it will be understood that it may have other shapes.

One object of the invention is to provide a toy of this character having a hollow body formed at its front with openings and provided internally with improved lighting means so located that when the device is in use light will pass through sheets of colored paper, or the like, covering the front openings and thus cause the device to be prominently displayed and of attractive appearance.

Another object of the invention is to provide an illuminated toy wherein the interior of its body is lighted by an electric bulb mounted through an opening at the front end of a cradle which carries a dry battery, the cradle being so mounted that it will be firmly supported in a horizontal position with the light bulb presented toward front openings of the body.

Another object of the invention is to provide an illuminated toy wherein the cradle carrying the battery has an arm at its rear end constituting part of a circuit for energizing the bulb when a switch is closed.

Another object of the invention is to provide a switch which is located externally of the body at the rear thereof where it may be easily closed or opened and will be hidden from view when the device is in use and resting upon a window sill or other suitable support.

Another object of the invention is to provide an illuminated toy which is simple in construction and so formed that a battery or bulb may be easily removed when replacement of the same is necessary.

The invention is illustrated in the accompanying drawings wherein:

Fig. 1 is a front view of the illuminated toy.

Fig. 2 is a sectional view taken along line 2—2 of Figure 1.

Fig. 3 is a fragmentary sectional view taken along line 3—3 of Figure 2.

Fig. 4 is an enlarged sectional view of the rear portion of Figure 2.

This jack-o'-lantern, or similar device, has a hollow body 1 which is formed of paper, pulp, or other suitable insulating materials, has been shown molded in the form of a pumpkin, but it will be understood that it may be any shape desired. The body is open at its top and its open top is normally closed by a cover 2 shaped to complete the pumpkin and provided with an upstanding handle 3 representing a stem for the

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pumpkin. The cover is formed of the same kind of material used for the body and about its marginal edge has a depending flange 4 which fits snugly into the open top of the body and holds the cover in place. Openings 5 are formed through the front of the body and since in the present illustration the body represents a pumpkin cut to form a jack-o'-lantern the openings are so cut and so located that they provide eyes, a nose, and a mouth. Sheets of thin colored paper or equivalent material 6 are glued against the inner surface of the front portion of the body in covering relation to the openings 5 and when the interior of the body is illuminated light will pass through the colored sheets and cause the eyes and nose and mouth to be prominently displayed when the toy lantern is placed upon a window sill, mantle, or the like.

In order to illuminate the interior of the body there has been provided a light bulb 7 and a battery 8. The battery is mounted in a cradle 9 formed from a strip of resilient metal and since the battery is gripped between clamping arms formed integral with and extending upwardly from opposite sides of the cradle it will be firmly held in place upon the cradle but may be easily withdrawn and a new battery substituted when necessary. The cradle extends radially of the rear portion of the body and the terminal at its front end engages the center terminal or contact of the bulb 7 which is screwed into a collar 10 surrounding an opening formed through an arm 11 formed by an upwardly bent front end portion of the strip from which the cradle is formed. A brace or supporting bracket 12 extends diagonally under the cradle and has its upper or forward end portion secured to the cradle by a rivet 13 and its rear end portion bent downwardly to form a foot 14 through which a rivet 15 passes. The rivet 15 passes through the rear portion of the wall of the body and also through lower ends of inner and outer strips 16 and 17 which extend vertically at the back of the body and at their upper ends are secured against the body by a rivet 18. The rear portion of the strip from which the cradle is formed is bent upwardly to form an arm 19 which has its upper end portion bent toward the strip 16 and secured against the same by the rivet 18. An opening 20 is formed through the rear arm back of the battery and through this opening passes a pin 21 which is held out of contact with the arm by insulating discs or washers 22 and has its front end formed with a head 23 engaged by the rear end of the battery. The head 23 is

rounded in order that the battery may be forced past the head and onto the saddle and since the saddle and the arms are formed of resilient metal a good contact will be established between the battery and the pin 21 and the center terminal of the light bulb 7. The pin 21 passes through the wall of the body and through openings 24 and 25 formed in the strips 16 and 17 and at its rear end is formed with a rounded head 26 located in the opening 25 and protruding slightly therefrom for engagement by a lip 27 at the lower end of a button 27'. The button is formed of metal and is shaped to form a hollow projection or pocket in which the outer end of a pin 28 is secured. This pin passes through the slot or opening 25 formed in the outer strip 17 and its inner end is brazed or otherwise secured to a retainer plate 30 which is seated in a recess 31 formed in the outer surface of the body under the plate or strip 17. When the bottom is pushed downwardly and its lip 26 bears against the outer end of the pin 21 a circuit will be closed through the battery and the bulb energized to illuminate the interior of the body and the lantern will be illuminated as long as the button remains in this position. When the button is shifted upwardly and its lip moved out of engagement with the pin the circuit will be broken and the bulb extinguished.

Having thus described the invention, what is claimed is:

1. A device of the character described comprising a hollow body formed of insulating material and being open at its top and having openings formed through its front, a removable cover for said body, inner and outer metal strips disposed vertically at the back of the body, a cradle in the rear portion of said body extending radially from its wall and formed from a metal strip having front and rear portions bent to form upwardly projecting front and rear arms for the cradle, the front arm being formed with an opening for receiving a light bulb and the rear arm having its upper end portion secured against the inner strip by a rivet passing through the wall of the body and through the said inner and outer strips, there being an opening in the lower portion of the rear arm, clamping arms extending upwardly from opposite sides of the cradle for holding a battery upon the cradle, a bracket under the cradle having its upper end secured to the cradle and its lower end secured against the lower portion of the inner strip by a rivet passing through the wall of the body and through the inner and outer strips, a metal pin passing through the opening in the lower portion of the rear arm and insulated from the said arm and through the rear portion of the body and through aligned openings formed in the inner and outer strips, said pin having a rounded head at its front end for engaging a battery and a rounded head at its rear end projecting slightly from the opening in the outer strip, a button against the outer surface of the outer strip having a lip at its lower end for engaging the outer head of the pin when the button is shifted downwardly to an operative position, a retainer plate under the outer strip shiftable vertically in a recess formed in the body, and a pin connecting the retainer plate with the button and passing through the opening in the outer strip.

2. A device of the character described comprising a hollow body of insulating material, a cradle in the body extending from the rear portion of its walls radially of the body and having upwardly projecting front and rear arms and clamping arms at opposite sides, the front arm being formed with a socket for receiving the base of a light bulb, a bracket under the cradle having its upper end secured to the cradle, inner and outer strips, fasteners securing said strips against inner and outer surfaces of the body and securing the rear arm and the lower end of the bracket against the inner strip, a contact pin passing through the inner and outer strips and through the lower portion of the rear arm in insulated relation to the said arm and strips and having a head at its front end for engaging a battery carried by the cradle, a button disposed against the outer surface of the outer strip, a retainer plate under the outer strip slidable in a recess formed in the body, and pin connecting the retainer plate and the button and passing through an opening in the outer strip and mounting the button for movement along the outer strip into and out of position to engage the outer end of the contact pin and close a circuit through the battery and the bulb.

3. A device of the character described comprising a hollow body having a front opening closed by light-penetrable material, inner and outer strips disposed vertically against inner and outer surfaces of a rear wall portion of the body, a cradle in the rear portion of the body having upwardly extending front and rear arms and clamping arms at its sides for holding a battery upon the cradle, a light bulb detachably carried by the front arm, a supporting bracket for the cradle, fasteners for the bracket and the rear arm passing through the body and the inner and outer strips, a pin for engaging the rear end of a battery passing through the rear bracket in insulated relation thereto and through the body and the said strips, a button disposed against the outer strip, a retainer plate under the outer strip slidable vertically in a recess formed in the body, and a pin connecting the retainer plate and the button passing through a slot formed longitudinally in the outer strip and mounting the button for movement into and out of position to engage the outer end of the pin and close a circuit through the battery to energize the light bulb.

4. A device of the character described comprising a hollow body, a cradle in said body extending from a rear wall portion of the body and having upwardly extending arms at its front and rear ends, a light bulb carried by the front arm, means for holding a battery upon the cradle with its front terminal engaged with the bulb, a stem passing through the rear arm in insulated relation thereto and through the rear wall portion, said stem having a rounded head at its front end engaging the rear end of the battery and a head at its rear end, a metal strip against the outer surface of the said wall portion formed with a vertically extending opening, a metal fastener for the strip and the rear arm passing through the said wall portion, a button against the metal strip, a retainer plate under the metal strip, and a pin passing through the slot in the metal strip and connecting the button with the retainer plate and mounting the button for vertical movement into and out of position to engage the outer end of the stem and close a circuit through the battery and the bulb.

5. A device of the character described comprising a hollow body, a cradle in said body extending from a rear wall portion of the body and having upwardly extending arms at its front and

rear ends, a light bulb carried by the front arm, means for holding a battery upon the cradle with its front terminal engaged with the bulb, a stem passing through the rear arm in insulated relation thereto and through the rear wall portion, said stem having its inner end engaging the rear end of the battery and its outer end exposed, a metal strip against the outer surface of the said rear wall portion, a metal fastener for the metal strip and the rear arm of the cradle passing through the said wall portion, and a button shiftable vertically along the metal strip into and out of position to engage the stem and close a circuit through the battery.

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