F. K. DELZELL.

COMBINATION DINNER PAIL.

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1,227,893.

Patented May 29, 1917.

Fig. 1.

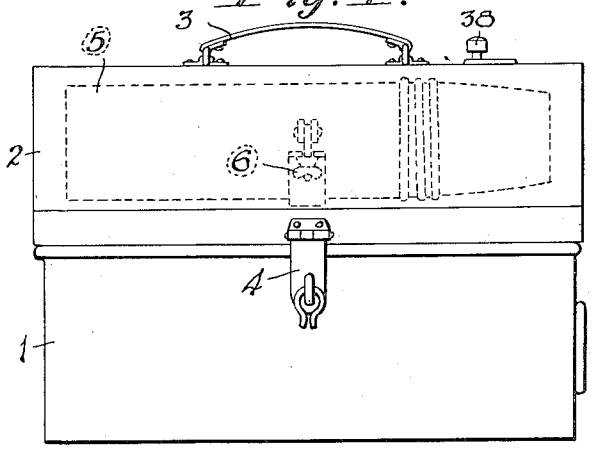


Fig. 2.

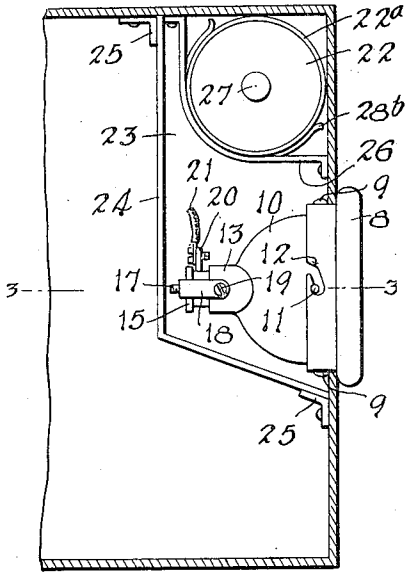


Fig. 3.

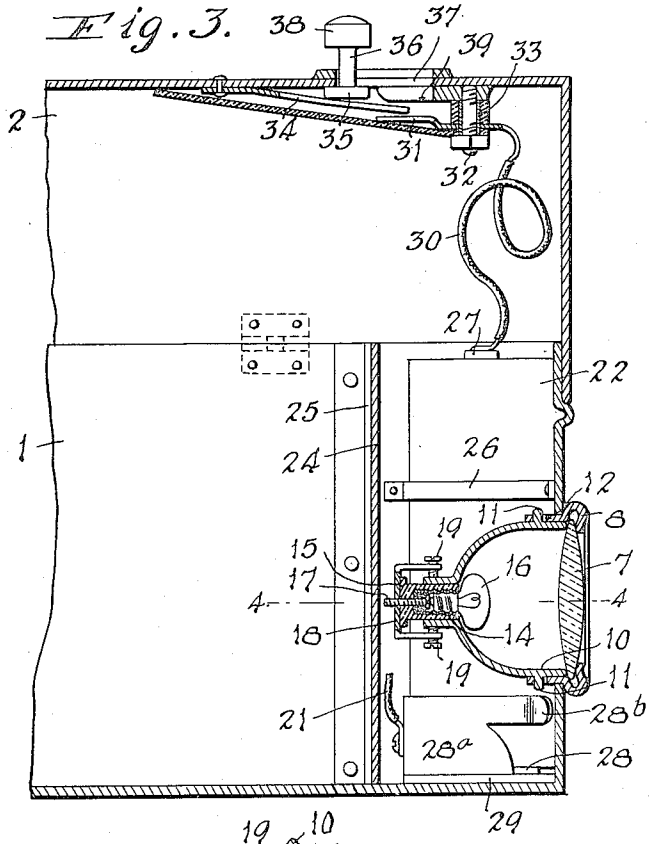


Fig. 4.

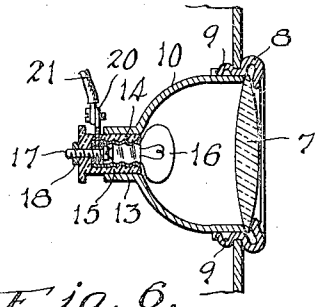


Fig. 6.

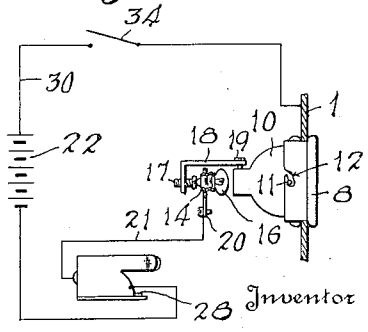
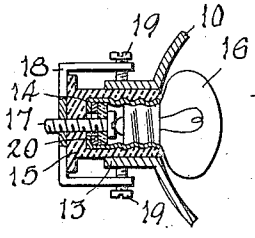


Fig. 5.



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COMBINATION DINNER-PAIL.

1,227,893. Specification of Letters Patent. Patented May 29, 1917.

Application filed January 9, 1917. Serial No. 141,469.

To all whom it may concern:

Be it known that I, FRANK K. DELZELL, a citizen of the United States, residing at Damascus, in the county of Mahoning, State of Ohio, have invented a new and useful Combination Dinner-Pail; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to an electric flash light attachment for dinner pails and like receptacles, and has for its object to provide a device of this character which embodies novel features of construction whereby it can be readily incorporated into a dinner pail or like receptacle, thereby enabling the same to be used as a flash light for signaling purposes or in dark places.

Further objects of the invention are to provide a device of this character which is simple and inexpensive in its construction, which can be applied to a dinner pail or like receptacle without interfering with the use thereof in the customary manner, which can be easily operated by the hand carrying the receptacle, and which can be removed at any time when it may be desired to dispense with the attachment.

With these and other objects in view, the invention consists in certain novel combinations and arrangements of the parts as will more fully appear as the description proceeds, the novel features thereof being pointed out in the appended claims.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings, in which:—

Figure 1 is a side elevation of a dinner pail provided with a flashlight attachment constructed in accordance with the invention.

Fig. 2 is an enlarged horizontal sectional view through the end of the dinner pail to which the attachment is applied.

Fig. 3 is a vertical sectional view on the line 3—3 of Fig. 2.

Fig. 4 is a horizontal sectional view through the reflector, on the line 4—4 of Fig. 3.

Fig. 5 is an enlarged horizontal sectional view through the base of the reflector and the socket.

Fig. 6 is a wiring diagram, showing the electric circuit for the flashlight.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

For the purpose of illustration the invention is shown as applied to a dinner pail or lunch box which includes a body portion 1 and a cover 2, said cover being provided with the usual handle 3 and latch 4. A thermo bottle 5 is indicated by dotted lines as clamped in position within the cover, by means of a suitable band or strap 6. One end of the body portion 1 is provided with an opening within which the flash light is fitted. In the present instance the lens 7 is shown as engaged by a flange retaining ring 8 which is applied to the opening of the box from the exterior thereof, said ring having spring tongues 9 stamped therefrom and arranged to snap around the edges of the opening to retain the ring in position. The mouth of the reflector 10 is slipped within the retaining ring 8 from the interior of the box, said reflector being provided with pins 11 which are arranged for engagement with bayonet slots 12 in the ring to lock the reflector in operative position. The base of the reflector 10 is formed with a rearwardly projecting sleeve 13 within which the lamp socket 14 is fitted, said lamp socket being surrounded by a layer of insulation 15 so that the side walls thereof are prevented from coming into contact with the reflector. A conventional incandescent bulb 16 is screwed into the socket 14 in the usual manner, the center contact at the base thereof engaging a center contact screw 17 which projects rearwardly from the socket 14 and is insulated from the side walls of the socket. The rear end of this screw 17 engages the cross bar of a U-shaped retaining bracket 18, said bracket straddling the sleeve 13 of the reflector and the arms thereof carrying clamping screws 19 which are adapted to engage the said sleeve, thereby performing the double function of locking the socket in position upon the reflector, and also of grounding the center contact of the incandescent light bulb 16,

The shell of the socket 14 engages a lateral arm 20 which is insulated from the screw 17 and reflector 10, and which is connected to one of the wires 21 of the circuit.

The flashlight and battery 22 are arranged within a compartment 23 which is set off at one end of the box 1 by means of a substantially L-shaped partition 24, the ends of the partition being engaged by suitable flanges 25 at one end and one side of the box, respectively. This partition is slidable in a vertical direction and can be bodily lifted out of position when it is desired to obtain access to the flashlight or battery. The battery 22 is held in position in one corner of the box by means of a retaining strap 26, the sides of the battery being surrounded in the usual manner by an insulating layer 22^a, and the battery being provided at the top with a central contact member 27, while the base thereof rests upon a contact plate 28 which is supported upon a layer 29 of insulating material and thereby held out of contact with the box. This contact plate 28 has a positioning flange 28^a at one edge thereof for engagement with the side of the battery 22, and this flange is preferably formed with spring arms 28^b which will grip the battery to hold the device in proper position. The before mentioned wire 21 of the circuit leads from this contact plate 28 to the connecting arm 20 of the base within which the incandescent bulb 16 is screwed.

A second wire 30 leads from the upper contact 27 of the battery to a switch plate 31 which is secured to the cover 2 by a bolt 32, but is insulated therefrom, as indicated at 33. A flexible switch blade 34 is secured to the cover 2 in coöperative relation to the plate 31, normally springing upwardly out of engagement therewith by reason of its inherent resiliency. A plunger 35 is provided for springing the resilient contact arm 34 into engagement with the contact plate 31 to close the circuit and flash the light. This plunger is carried by a stem 36 which passes upwardly through a slot 37 in the top of the cover 2 and has a finger piece 38 at the upper end thereof. By pressing downwardly upon the finger piece the switch can be closed to flash the light, and when it is desired to lock the switch in a closed position it is merely necessary to push forwardly upon the finger piece 28 and slide the plunger 35 under the cam 39. It will be noted that this finger piece 38 is arranged adjacent one end of the handle 3, so that the switch can be easily manipulated by one of the fingers of the hand by which the handle 3 is gripped.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent, is:—

1. The combination with a box having an opening in one end thereof, of a reflector applied to the opening and having a sleeve projecting from the base thereof, a socket slipped removably within the sleeve and insulated therefrom, an insulated center contact screw projecting from the base of the socket, a U-shaped retaining bracket having the base thereof engaged by the contact screw, clamping screws carried by the arms of the retaining bracket and engaging the sides of the sleeve to secure the socket in position and ground the center contact screw, and a switch controlled circuit having one terminal thereof grounded while the other terminal is connected to the shell of the socket.

2. The combination with a box having an opening in one end thereof, a lens, a flanged lens retaining ring fitted within the opening from the outside of the box and provided with spring tongues adapted to snap around the edges of the opening, a reflector fitted within the retaining ring from the interior of the box, an electric light at the base of the reflector, and a switch controlled circuit for the electric light.

3. The combination of a box having an opening in one end thereof, of a reflector applied to the opening, an electric light mounted upon the reflector, a battery in one corner of the box, an L-shaped partition arranged in the corner of the box to provide a space receiving the reflector and battery, flanges at the end and side of the box for slidably engaging the ends of the partition, a switch arranged upon the cover of the box, and an electric circuit including the switch, battery, and electric light.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANK K. DELZELL.

Witnesses:
J. H. Sherry,
W. E. Sutton.