

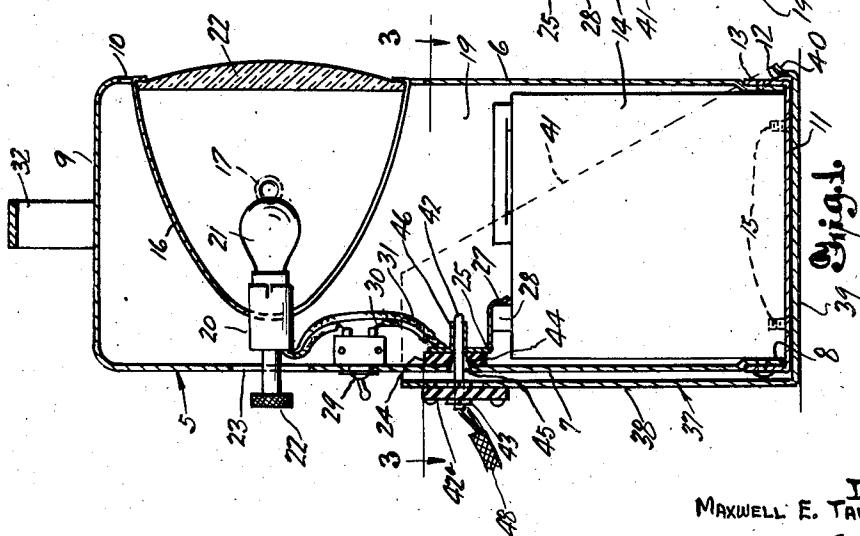
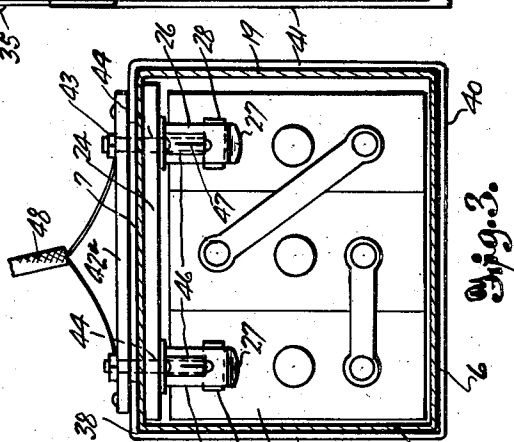
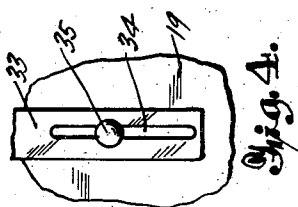
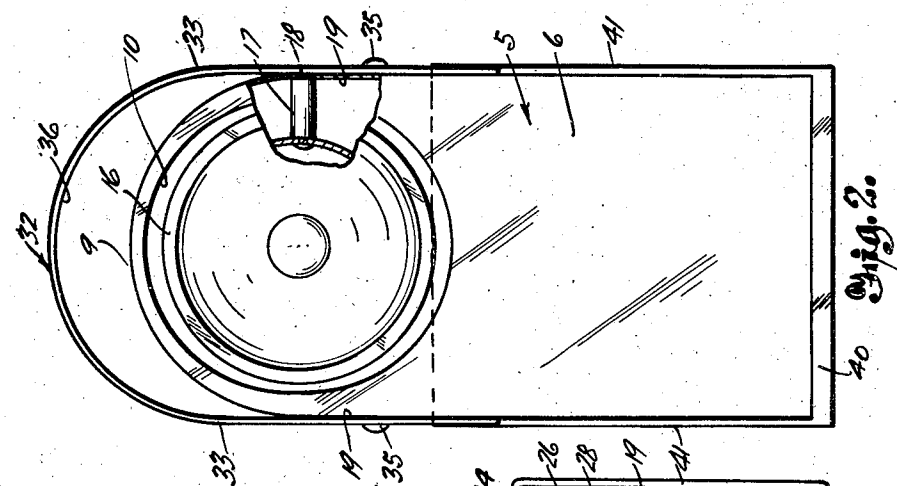
Feb. 25, 1941.

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2,233,377

FLASHLIGHT AND TROUBLE LIGHT

Filed Sept. 13, 1937



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2,233,377

FLASHLIGHT AND TROUBLE LIGHT

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Application September 13, 1937, Serial No. 163,536

1 Claim. (Cl. 240—10.63)

My invention relates to improvements in flashlights and trouble lights.

The main object of the invention is to provide a light or lamp of this kind which is energized by storage or wet cell battery and which includes means by which the battery may be kept charged at all times.

Another object is to provide a light in simple and durable form including a casing carrying a storage battery and a lamp, the latter being supported in an adjustable or tiltable reflector, and there being a receptacle adapted for mounting on any convenient part of an automobile to receive the lamp casing and to form a connection with a storage battery leading to the generator of the automobile so that the battery may be charged when the lamp is not in use.

With these and other objects in view the invention resides in the novel construction and arrangement of parts as hereinafter fully set forth and claimed, reference being had to the accompanying drawing as showing a preferred embodiment of my invention for purposes of exemplification.

In the drawing:

Figure 1 is a vertical cross section through the entire assembly of the light and its receptacle.

Figure 2 is a frontal elevation.

Figure 3 is a horizontal cross section along the line 3—3 in Figure 1.

Figure 4 is a fragmental detail view of the mounting for the handle.

In carrying out my invention I provide a casing or housing designated generally at 5 formed up of sheet metal into a rectangular shaped element including the front wall 6, rear wall 7, open bottom 8, inclosed rounded top 9, and a large opening 10 is formed in the upper portion of the front wall 6 of oval shape with its larger axis disposed vertically. A removable bottom 11 is provided and same has the upturned marginal flanges 12 adapted to slip over the lower end 8 of the casing 5 where they are secured by screws 13. A small storage battery indicated generally at 14 is secured as by means of screws 15 to this bottom 11 and fits up into the casing 5 terminating some distance below the opening 10.

A parabolical lamp reflector 16 is provided and same has the axially aligned laterally extended pivot pins 17 which are journaled at 18 in the sides 19 of the casing 5 so that the reflector is tiltably supported in the casing 5 with its enlarged outer end set in the opening 10, which opening 10 permits limited vertical movement of

the reflector as will be readily evident. A conventional lamp socket 20 is mounted in the inner extremity of the reflector 16 and the usual bulb or lamp 21 is seated therein while the outer larger end of the reflector is covered in usual manner by the lens 22. The socket 20 has a conventional focusing adjustment 22 which extends through an opening 23 in the rear wall 7 of the casing 5.

A mounting base or strip 24 of insulation is mounted horizontally across the inner side of the rear wall 7 above the level of the battery 14 and at spaced points thereon contact strips 25 and 26 are mounted, these strips having the forwardly projecting tongues 27 which are adapted to electrically engage the positive and negative terminal posts 28 of the battery. A conventional toggle switch 29 is mounted in the rear wall 7 of the casing 5 and wires 30 and 31 lead from the contact strips 25 and 26 to the lamp socket 20, one passing through or being connected to the toggle switch 29 so that by closing this switch connection will be made from the battery to the lamp to illuminate the same.

An inverted U-shaped handle 32 is provided and the legs 33 thereof are set astraddle the sides 19 of the casing 5. These legs 33 have the longitudinally extended elongated slots 34 through which studs 35 are passed into and secured to the sides 19 in such manner that the handle may be pushed down flush with the top of the casing when not in use or may be pulled upwardly to expose the hight 36 when in use.

For charging the battery I provide a receptacle designated generally at 37 made up of sheet metal with the upstanding back 38, bottom 39, relatively short frontal lip 40 and the tapered sides 41 all of such shape and proportion that the lower portion of the casing 5 may be set nicely therein as shown in Figure 1. This receptacle may be mounted on the running board or any other desired part of an automobile. A strip 42a of insulation is mounted horizontally across the upper portion of the back 38 and carries contact pins 42 held in place by nuts 43 so that the pins project forwardly from the back as shown. The aforesaid insulating base 24 has apertures 44 which register with apertures 45 formed in the casing back 7 and these apertures are spaced in a horizontal plane at such distance that the pins 42 will fit therethrough when the lamp is set in the receptacle. The contact strips 25 and 26 have tubular sockets 46 pressed out forwardly and split longitudinally as indicated at 47 so as to receive and frictionally engage the frontal ex-

termities of the contact pins 42 as shown. Wires 48 lead off from the contact pins 42 to a generator (not shown) of the automobile and it will thus be readily apparent that when the lamp is set into the receptacle the contact pins 42 will make contact with the battery so that the generator will charge the same between periods of the use of the lamp.

It will be readily apparent that a handle might be provided on the back of the casing 5 and also that the lamp and reflector might be removably associated with the casing in such manner as to be used at a remote point if desired.

While I have herein set forth a certain preferred embodiment of my invention it is understood that I may vary from the same in minor structural details so as best to provide a practical device for the purposes intended, not departing from the spirit of the invention, and within the scope of the appended claim.

I claim:

In a device of the kind described, a casing adapted for removably holding a battery within its base, an insulation mounting base strip extended horizontally across the inner side of the

rear wall of the casing above the top line of an inserted battery as positioned in the casing, contact strips extended from this insulation base strip in spaced relation to each other and adapted to electrically engage the terminal posts of the battery as positioned in the casing, a reflector mounted through an opening in the upper face of the casing, a lens in the flared frontal end of the reflector, a lamp socket and bulb movably seated in the inner tapered end of the reflector, means extended rearwardly through the back of the casing for controlling the lamp socket, a receptacle adapted to removably receive the said casing, contact pins in the back of the receptacle adapted to engage the said contact strips of the casing through apertures provided for that purpose as the casing is placed in the receptacle, wires connecting the contact strips and lamp socket, means for closing and opening the circuit through the wires and connected bulb, whereby electrical connection may be made through the contact pins of the receptacle, with a generator for recharging a battery within the receptacle.

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