

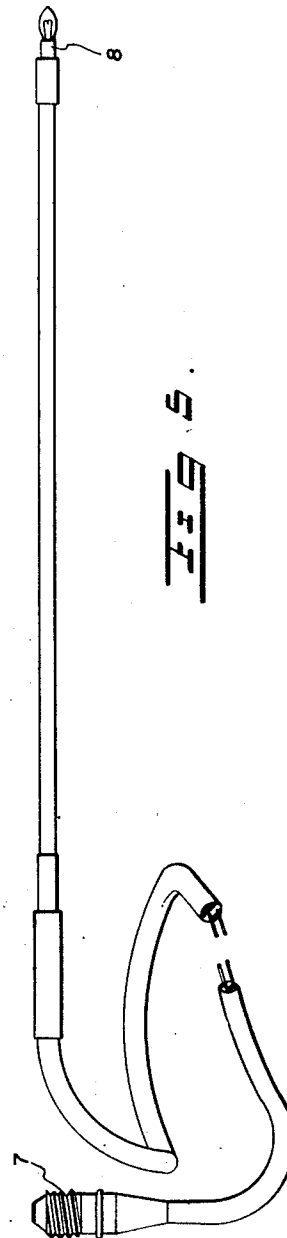
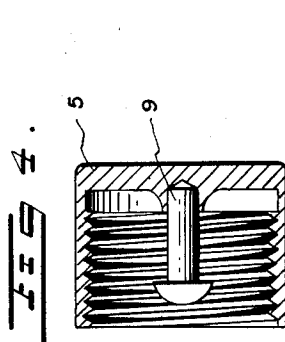
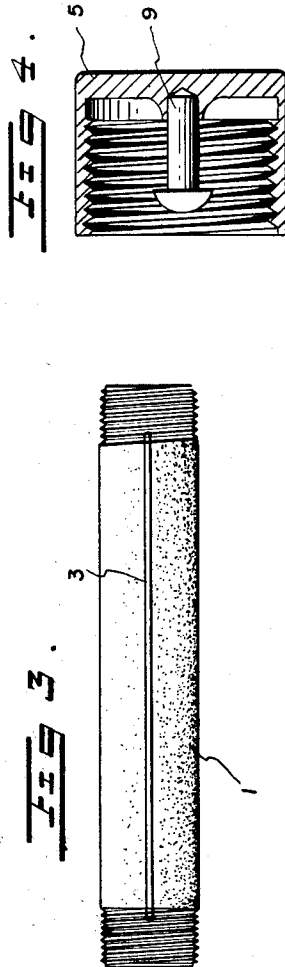
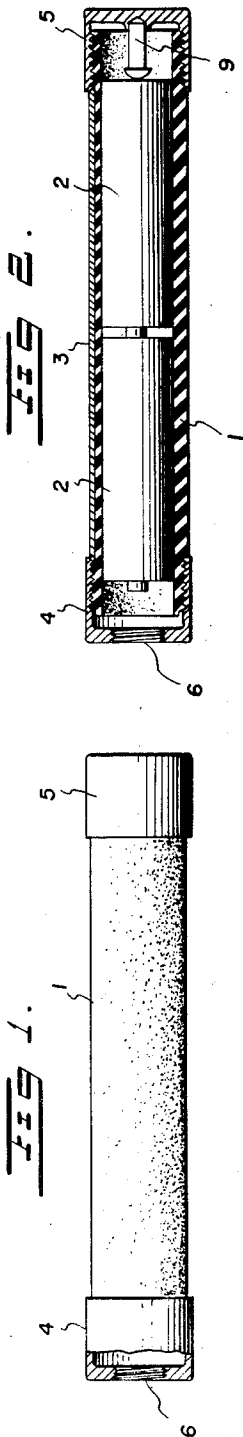
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ELECTRICAL DEVICE

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2,697,128

ELECTRICAL DEVICE

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1 Claim. (Cl. 136—173)

This invention relates to a portable electric device. More particularly, this invention relates to a portable electric device which, although it can be used for other purposes, is especially adapted for providing the electric power required by a "Wheat Light" a very small lamp connected to an adapter by a thin cable. Wheat Lights are used widely in industry in the inspection of the oil and fuel lines of internal combustion engines and for similar purposes.

One object of this invention is to provide a portable electric device which internally does not contain a metallic electric conductor which will corrode due to the chemical action of one or more dry cells present in the device adjacent such a conductor.

A second object of this invention is to provide a portable electric device which is very rugged and substantially non-breakable in the course of ordinary usage.

A third object of this invention is to provide a portable electric device which is compact and which lends itself to more efficient use, for example, by persons inspecting the oil and fuel lines of various types of equipment, the devices presently used being large and cumbersome to work with as well as restricting the maneuverability of the user.

A fourth object of this invention is to provide convenience and savings to users of the device in various commercial fields, because of the non-corrosive and nonbreakable features of the device.

For a more complete understanding of this invention, reference is made to the accompanying drawings which illustrate in detail one embodiment falling within its scope. In the drawings,

Fig. 1 is a general external view of the assembled embodiment, the view being partially in cross-section;

Fig. 2 is a cross-section of the assembled embodiment containing a pair of dry cells;

Fig. 3 is an external view of one of the parts of the embodiment;

Fig. 4 is a cross-section of another of the parts; and
Fig. 5 is a view of a "Wheat Light."

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In the drawings, numeral 1 designates a cylinder adapted to contain a pair of dry cell batteries 2. Cylinder 1 is manufactured of any suitable insulating material, such as a phenol-formaldehyde resin, urea-formaldehyde resin, melamine-formaldehyde resin or other synthetic resin. Numeral 3 designates an electric conductor suitably made of copper which runs along the exterior of cylinder 1 and is flush with the exterior thereof, this being done, for example, in the molding operation of making cylinder 1 or by a press fit. The ends of cylinder 1 are threaded as shown, the ends of conductor 3 also being cut in the threading operation so that when caps 4 and 5, made of electrically conductive material such as copper or brass, are screwed in place as shown in Fig. 2 they make electrical contact with conductor 3.

Cap 4 is threaded at 6 so that the threaded end 7 of "Wheat Light" 8 can be screwed in and make electrical contact with batteries 2. Alternately, in place of threaded hole 6 cap 4 can be a press-type or other type of contact. Cap 5 is provided with internal pin 9 which contacts batteries 4, but in place of pin 9 other contact means can be used, such as a spring.

In using the device, the batteries are simply inserted in the cylinder and the caps are then screwed on, as shown in Fig. 2, and a "Wheat Light" screwed in, for example. Cap 5 is used as a switch, unscrewing cap 5 a few turns so that it no longer contacts conductor 3 breaking the electrical circuit.

I claim:

As a new article of manufacture, the combination of a cylindrically-shaped dry cell container made of electrically non-conductive material and having threaded ends, an electric conductor embedded in the exterior of said body extending between and being part of the threaded ends, said conductor being flush with the exterior of said container and not extending to the interior thereof, and threaded caps made of electrically conductive material screwed on the threaded ends of the main body and making electrical contact with said conductor and batteries, one of said caps being adapted to receive an electrical fitting, and the other cap containing a stationary metal contact to complete the electrical circuit with the batteries.

References Cited in the file of this patent

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