

PATENT SPECIFICATION (11)

1 432 825

1 432 825

(21) Application No. 42038/73 (22) Filed 6 Sept. 1973 (19)

(31) Convention Application No. 2 248 225

(32) Filed 2 Oct. 1972 in

(33) Germany (DT)

(44) Complete Specification published 22 April 1976

(51) INT. CL.² B65D 25/54

(52) Index at acceptance

B8P 3

B8C 12B3 12B7 15A 22 25B 28

(72) Inventors JOSEF HEIN, HEINZ METZGER
and HANS KAREY



(54) IMPROVEMENTS IN PACKAGING MEANS

(71) We, BRAUN AKTIENGESELLSCHAFT, a German Body Corporate, of 22, Rüsselsheimer Strasse, D 6000 Frankfurt-am-Main, Germany, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to packaging means for electrical equipment and is particularly concerned with means for packaging devices which are equipped with rechargeable batteries and are recharged by a charger which can be operated by means of a connecting lead. When storing devices of the above type for a considerable period of time the batteries must be recharged, because they slowly discharge themselves. Remaining in the uncharged state for a long while is detrimental for the batteries.

With electronic flash-light apparatus in particular, the capacity of the flash-light capacitor can only be guaranteed if it is checked and adjusted at definite time intervals. If this checking and adjusting is omitted, the resulting flash, perhaps during a demonstration of the apparatus, may be very small so that the apparatus appears to be faulty. Both operations, recharging the batteries and checking and adjusting the flash-light capacitor, usually require the equipment to be removed partly or wholly from its packaging, connected to a source of current and replaced in the packing after charging or checking and adjusting is accomplished.

Not only is the work entailed in the above procedure a nuisance but the customer expects to receive goods with the packaging undamaged. This is, however, not possible if the goods have been stored in the trade and the packaging has had to be opened by the trader for the above-mentioned reasons. The invention is, therefore, concerned with the provision of packaging means which is

such that the recharging of batteries or the checking and adjusting of flash-light capacitors can readily be effected without the packaging seal having to be broken.

According to the invention, there is provided, a sealed package containing electrical equipment having a rechargeable battery and so arranged that the equipment cannot be used without breaking the package seal, wherein a charger for said equipment is contained in a part of the space within the package adjacent an outer wall thereof and wherein one or more openings are formed in said wall to permit access to be obtained to a connecting lead connected to said charger.

An advantage of the invention is that it permits a considerable simplification in the storage of equipment, such as electric razors, with rechargeable batteries, because charging can be carried out on the storage shelf. A further advantage is that, if said component is a charger, charge control lamps of the charger may be visible through the openings so that charging can be controlled from outside.

One form of packaging at present in use consists of a double-shelled rigid foam casing which contains retaining supports for the various parts of the equipment to be packed.

After inserting the parts of the equipment and sliding the two shells together, a cover sleeve is drawn over them, the sleeve usually bearing printing concerning directions for use and advertising matter, as well as a description of the contents of the package. The cover sleeve is in the form of a wrapper of rectangular or circular cross-section and holds the two shells together.

According to a preferred feature of the invention, therefore, the package comprises a two-part rigid foam shell the openings being arranged in a wall of which a first portion is a wall of one part of the two-part shell and a second portion is a wall of

the other part of the two-part shell. Such wall may be covered by a sleeve which is slidable relative to the rigid foam material. An advantage of this packaging is that, by

5 partially withdrawing the cover sleeve, the openings are exposed but can be covered without further ado.

The invention will now be described by way of example with reference to the single figure of the accompanying drawing which is a perspective view of one embodiment of packaging for, for example, an electric razor.

The packaging consists of two rigid foam shells 1 and 2 of which one, 1, is provided with a recess adjacent a side wall to take a charger 3. Control lamps 5 of the charger 3 can be seen through an opening 4 in the side wall. A connecting lead 7 is accessible through an opening 6. The two shells 1 and 2 are held together and the package is closed by a packing seal 8, for example an adhesive tape, after insertion of the equipment into the interiors of the shells 1 and 2. A cover sleeve 9 can be slid over the shells 1 and 2 and is movable between a position as shown in which the openings 4 and 6 are exposed and a position in which the upper and lower faces of the shells 1 and 2 are substantially in register with the upper and lower edges of the sleeve.

In another embodiment of the invention the packaging is of cardboard and the or each opening is closed by means of an adhesive closure. By "adhesive closure" is meant a flap provided with an adhesive which permits multiple opening and closing. An advantage of this arrangement is that the connecting leads of the equipment can be made easily accessible, without the packaging seal having to be destroyed on opening the package. At the same time, however, the total aesthetic impression of the package is not

destroyed because, without further ceremony, the adhesive closure can easily be attached to the cardboard of the packaging. 15

WHAT WE CLAIM IS:—

1. A sealed package containing electrical equipment having a rechargeable battery and so arranged that the equipment cannot be used without breaking the package seal, wherein a charger for said equipment is contained in a part of the space within the package adjacent an outer wall thereof and wherein one or more openings are formed in said wall to permit access to be obtained to a connecting lead connected to said charger. 50

2. A package according to claim 1, wherein charge control lamps of the charger are visible through an or the opening. 55

3. A package according to claim 1 or 2, comprising a two-part rigid foam shell, the openings being arranged in a wall of which a first portion is a wall of one part of the two-part shell and a second portions is a wall of the other part of the two-part shell. 60

4. A package according to claim 3, wherein a sliding cover sleeve fits over the shell. 65

5. A package according to claim 1 or 2, wherein an adhesive closure is provided for closing the or each closure. 70

6. A package substantially as hereinbefore described with reference to the accompanying drawing. 75

ARTHUR R. DAVIES,
Chartered Patent Agents,
27, Imperial Square,
Cheltenham,
and
115, High Holborn,
London, W.C.1.
Agents for the Applicants.

the other part of the two-part shell. Such wall may be covered by a sleeve which is slidable relative to the rigid foam material. An advantage of this packaging is that, by

5 partially withdrawing the cover sleeve, the openings are exposed but can be covered without further ado.

The invention will now be described by way of example with reference to the single figure of the accompanying drawing which is a perspective view of one embodiment of packaging for, for example, an electric razor.

The packaging consists of two rigid foam shells 1 and 2 of which one, 1, is provided with a recess adjacent a side wall to take a charger 3. Control lamps 5 of the charger 3 can be seen through an opening 4 in the side wall. A connecting lead 7 is accessible through an opening 6. The two shells 1 and 2 are held together and the package is closed by a packing seal 8, for example an adhesive tape, after insertion of the equipment into the interiors of the shells 1 and 2. A cover sleeve 9 can be slid over the shells 1 and 2 and is movable between a position as shown in which the openings 4 and 6 are exposed and a position in which the upper and lower faces of the shells 1 and 2 are substantially in register with the upper and lower edges of the sleeve.

In another embodiment of the invention the packaging is of cardboard and the or each opening is closed by means of an adhesive closure. By "adhesive closure" is meant a flap provided with an adhesive which permits multiple opening and closing. An advantage of this arrangement is that the connecting leads of the equipment can be made easily accessible, without the packaging seal having to be destroyed on opening the package. At the same time, however, the total aesthetic impression of the package is not

destroyed because, without further ceremony, the adhesive closure can easily be attached to the cardboard of the packaging.

WHAT WE CLAIM IS:—

1. A sealed package containing electrical equipment having a rechargeable battery and so arranged that the equipment cannot be used without breaking the package seal, wherein a charger for said equipment is contained in a part of the space within the package adjacent an outer wall thereof and wherein one or more openings are formed in said wall to permit access to be obtained to a connecting lead connected to said charger.

2. A package according to claim 1, wherein charge control lamps of the charger are visible through an or the opening.

3. A package according to claim 1 or 2, comprising a two-part rigid foam shell, the openings being arranged in a wall of which a first portion is a wall of one part of the two-part shell and a second portions is a wall of the other part of the two-part shell.

4. A package according to claim 3, wherein a sliding cover sleeve fits over the shell.

5. A package according to claim 1 or 2, wherein an adhesive closure is provided for closing the or each closure.

6. A package substantially as hereinbefore described with reference to the accompanying drawing.

ARTHUR R. DAVIES,
Chartered Patent Agents,
27, Imperial Square,
Cheltenham,
and
115, High Holborn,
London, W.C.1.
Agents for the Applicants.

