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Safety Night Light

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A battery powered night light, the light including a base to contain one or more replaceable batteries, an electrical switch and an electrical globe (such as a LED), the base has an upper surface, the globe protruding through the upper surface, and one or more translucent objects having a hole, whereby when one or more translucent objects are positioned with hole positioned over globe, the light from the globe is transmitted through the translucent object to be emitted at the edge of the translucent object.

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Regulation 3.2

AUSTRALIA
Patents Act 1990

ORIGINAL

**INNOVATION PATENT SPECIFICATION FOR AN INVENTION
ENTITLED**

Invention Title: SAFETY NIGHT LIGHT

Name of Applicant: RICHARD JOHN FERBER

Address for Service:

The invention is described in the following statement :

SAFETY NIGHT LIGHT

This invention relates to a safety night light, more particularly to a light intended to be used by children.

Many children require some light in the bedroom when going to sleep, and also
5 when the child wakes during the night the child is aware of where the child is. Also
this light is of assistance to the parent or carer when entering the room to comfort
or attend to the child.

Low wattage electrical | 240 volt lights are available, these including a light to be
plugged directly into the outlet socket. These often have a light sense device so
10 that the light is automatically switched off when there is sufficient light in the area of
the night light.

Other forms of night lights are available having a cord from the outlet socket
enabling the lamp to be positioned on a bedside table or the like. These lamps are
often formed of a material which is soft and with the intention of being non
15 breakable, the electrical globe being positioned within the lamp so that a subdued
light of the colour of the material of the lamp is produced.

However these lamps can still present a danger, for they operate on 240 volt
electrical supply, the lamps can be opened to remove the electrical globe, and a
child could do this when the lamp is alive. In addition the electrical cord can be a
20 hazard either causing a person to trip and/or pull the lamp off its bedside table or
other support on which the lamp is positioned.

Also in some circumstances candles are often used in children's rooms, however the use of candles are a fire hazard, not only the candles themselves but also the matches of other gas fire lighters used to light the candles.

5 It is an object of this invention to provide a night light to overcome one or more of the above areas of concern.

It is a further object of the invention to provide a night light which is not reliant on the supply of 240 volt electrical power.

10 A further object of the invention is to provide a night light which can be safely used by a child, and in which the child can select the type of effect provided by the night light.

15 Thus there is provided according to the invention a battery powered night light, the light including a base to contain one or more replaceable batteries, an electrical switch and an electrical globe, the base has an upper surface, the globe protruding through the upper surface, and one or more thin, disc like translucent items, each having a hole closely matched in size to the size of the globe passing through them, whereby when one or more translucent objects are positioned with their respective holes positioned over the globe such that the light from the globe is transmitted through the translucent object to be emitted at the edge of the translucent object.

20 Preferably the globe is a light emitting diode.

Preferably the upper surface of the base is planar.

Preferably the translucent objects are planar, with the edges being contoured to various shapes.

Preferably the translucent objects are of various colours.

Preferably the objects are cut from a sheet of translucent material such as Perspex or similar material such as polycarbonate.

In order to more fully describe the invention reference will now be made to the
5 accompanying drawings in which:-

Figure 1 is a general view of one form of the invention,

Figure 2 is a further view of Figure 1,

Figure 3 is view showing a further alternative,

Figure 4 shows an alternate embodiment, and

10 Figure 5 shows a collection of the different shapes of the translucent objects.

The night light 1 has a base 2 and a flat upper surface 8. The globe 4, preferably light emitting diode is mounted on the top surface to protrude above the upper surface. Inside the base 2 there is a holder for one or more dry cell batteries 3, which preferably may be rechargeable and on-off switch 5 controlling the operation
15 of the light.

The invention includes a selection of translucent items 6. These are preferably cut from clear or coloured sheet material such as Perspex, each having a hole so that the item can be placed over the diode or globe. When so placed and the light is switched on the light enters the edge of the translucent item, passes through the
20 item and issues from the outer edge of the item. By shaping the outer edge various patterns of light can be made on the surface of the base and from the outer edge when viewed from various angles.

An additional item of the same or a different colour can be positioned on a first item thus giving a more striking effect. This will depend on how far the light emitting diode stands proud of the upper surface of the base.

5 Using a thin, disc like translucent item 6 ensures that the electrical globe 4 can pass through at least a substantial percentage of the translucent items thickness, which when combined with the through hole, ensures that a substantial proportion of the light generated can pass uninterrupted through the top of the through hole, enhancing the effectiveness of the light 1.

10 The light emitting diode or globe is preferably held in holder so that the diode or globe can be replaced. Also if desired a clear diode can be replaced with a diode emitting a colour.

15 The base 2 can be of any shape, two examples being shown. In addition the base can take the form of an animal or a fairy tale character or building. The character could hold a tray or plate to form the flat surface. It is also envisaged the translucent items could be other than flat, for example the items could be shaped to have a number of facets at various angles.

It can be seen that there is provided according to the invention a light which is safe to be used and handled by small children. In addition the child can select the type of light, colour and shape.

20 Although various embodiments of the invention have been described in detail, it is to be realised the invention is not limited thereto but can include variations and modifications falling within the spirit and scope of the appended claims.

CLAIMS

1. A battery powered night light, the light including a base to contain one or more replaceable batteries, an electrical switch and an electrical globe, the base has an upper surface, the globe protruding through the upper surface, and one or
5 more thin, disc like translucent items, each having a hole closely matched in size to the size of the globe passing through them, whereby when one or more translucent objects are positioned with their respective holes positioned over the globe such that the light from the globe is transmitted through the translucent object to be emitted at the edge of the translucent object.
- 10 2. The battery powered night light as defined in claim 1 wherein the globe is a light emitting diode.
3. The battery powered night light as in any one of the preceding claims further characterised in that the upper surface of the base is planar.
4. The battery powered night light see claim 3 wherein the translucent items
15 are planar, with the edges being contoured to various shapes with selected items being of a different colour.
5. The battery powered night light substantially as herein described with reference to the accompanying drawings.

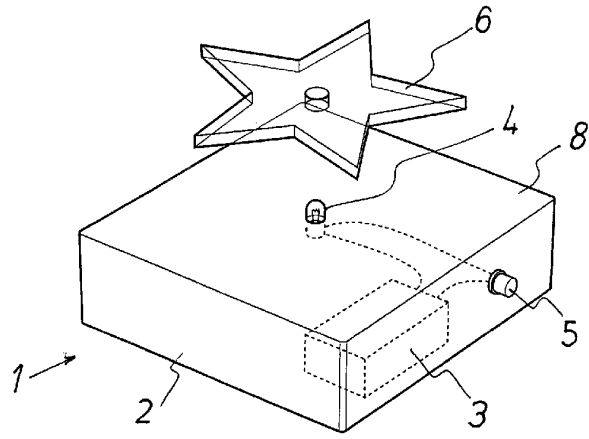


Fig 1

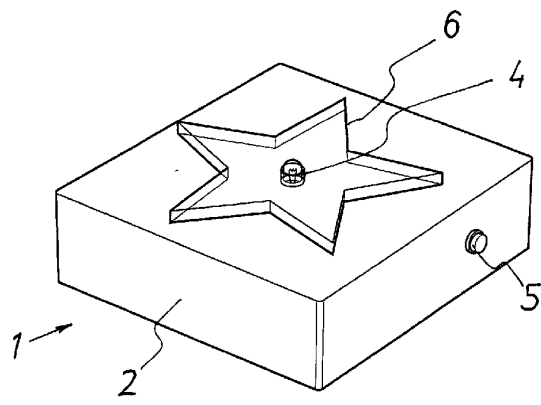


Fig 2

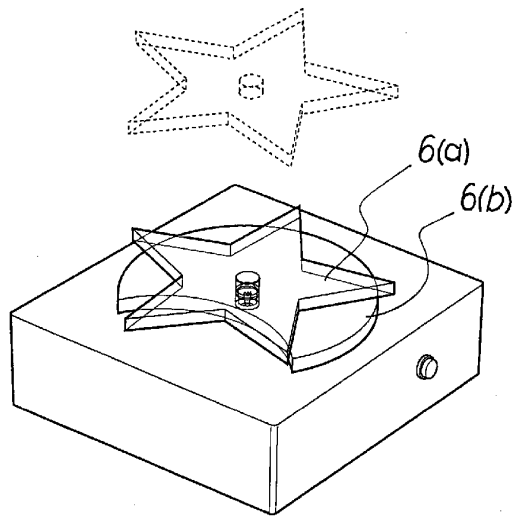


Fig 3

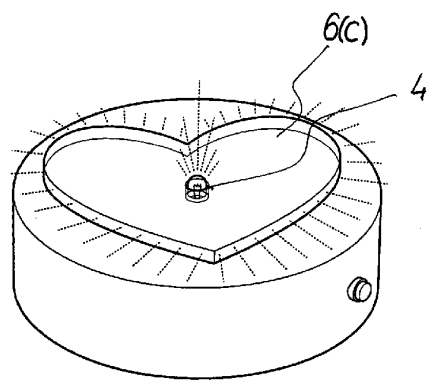


Fig 4

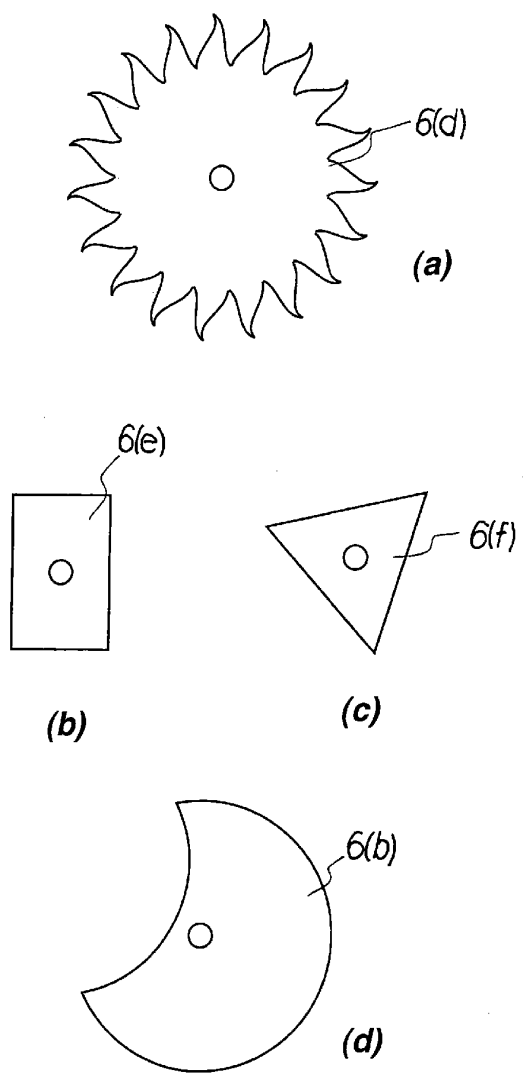


Fig 5