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F4R RCM R452 R453 R506 R513
H2E EDCW

(56) Documents Cited:
GB 2396205 A **GB 2394529 A**
GB 2337639 A **GB 2274557 A**
GB 0523925 A **DE 003937958 A1**
US 6034328 A **US 4808774 A**

(58) Field of Search:
UK CL (Edition X) **F4R, H2E**
INT CL⁷ **F21V, H02G**
Other:

(54) Abstract Title: **Light Fitting**

(57) The present invention relates to light fittings for use as decorative covers.

The light fitting 10 of the present invention comprises a cover 14 and an attachment fixing 12, the attachment fixing 12 being adapted to attach to a light flex (104) and being provided with support means to support the cover 14, whereby the cover when in use is located between the attachment fixing 12 and a ceiling (106) from which the light flex hangs.

The attachment fixing may have an aperture 20 for locating the light flex in use, the aperture being provided with a resilient abutment (38, 40) to sandwich the light flex between the abutment and the aperture edge.

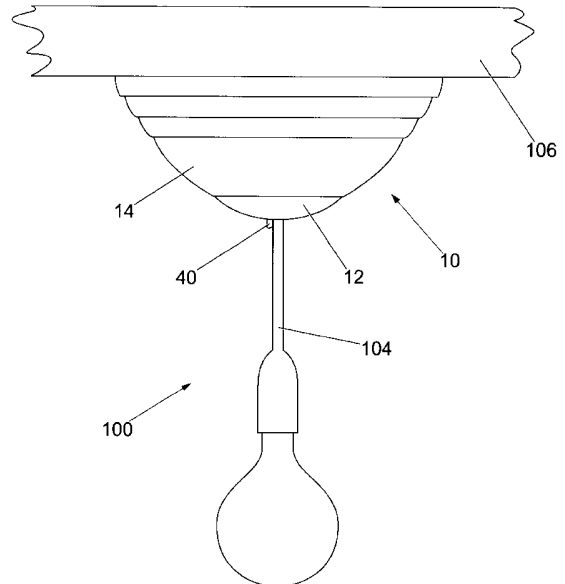


Fig. 6

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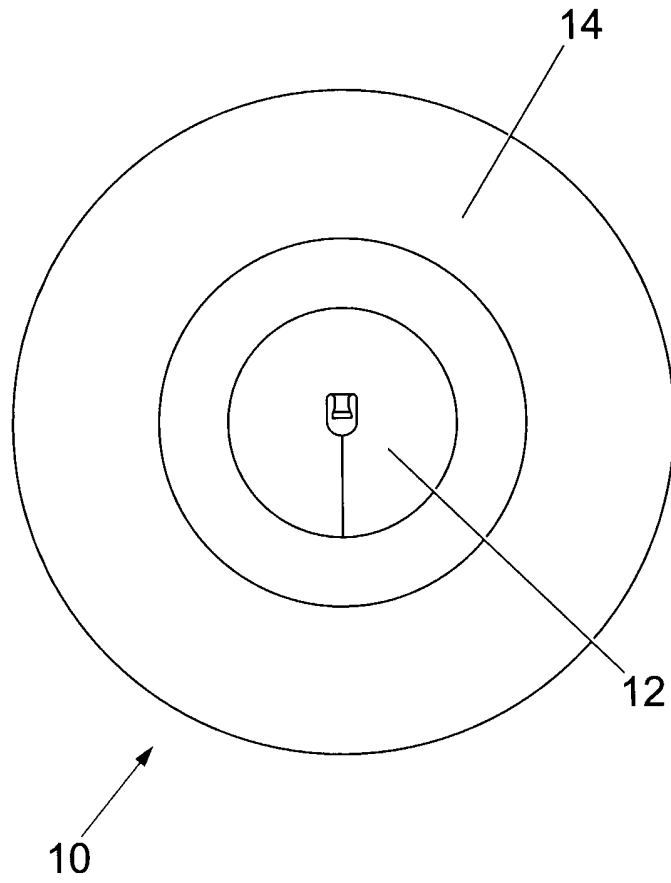


Fig. 1

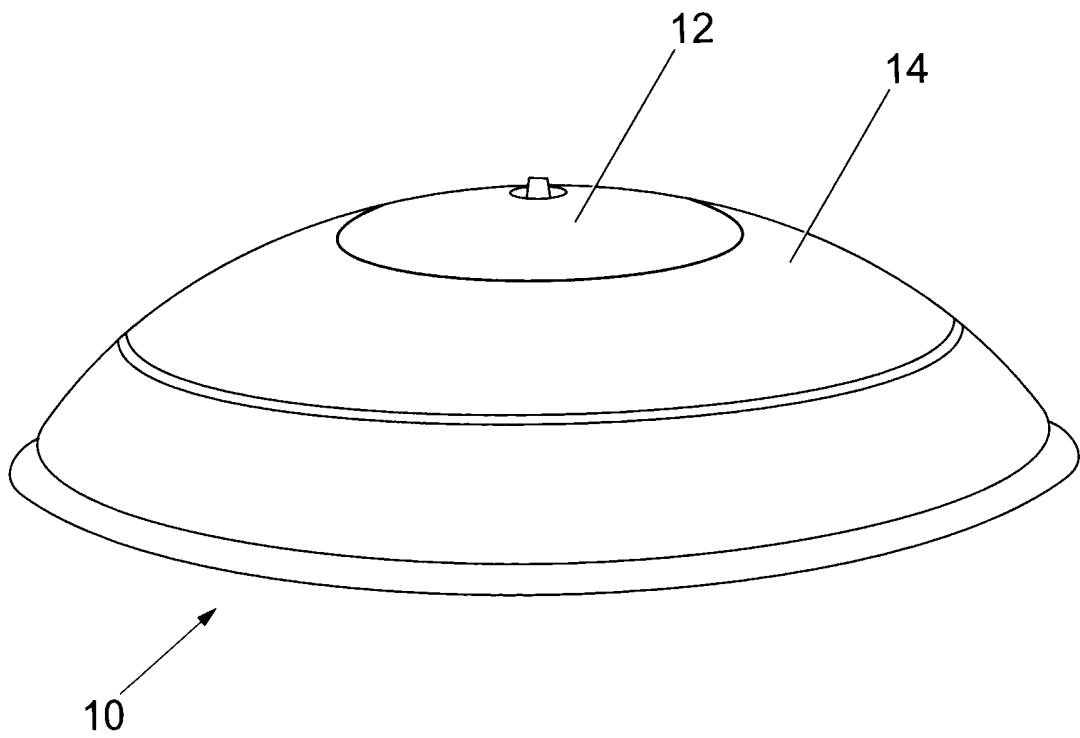


Fig. 2

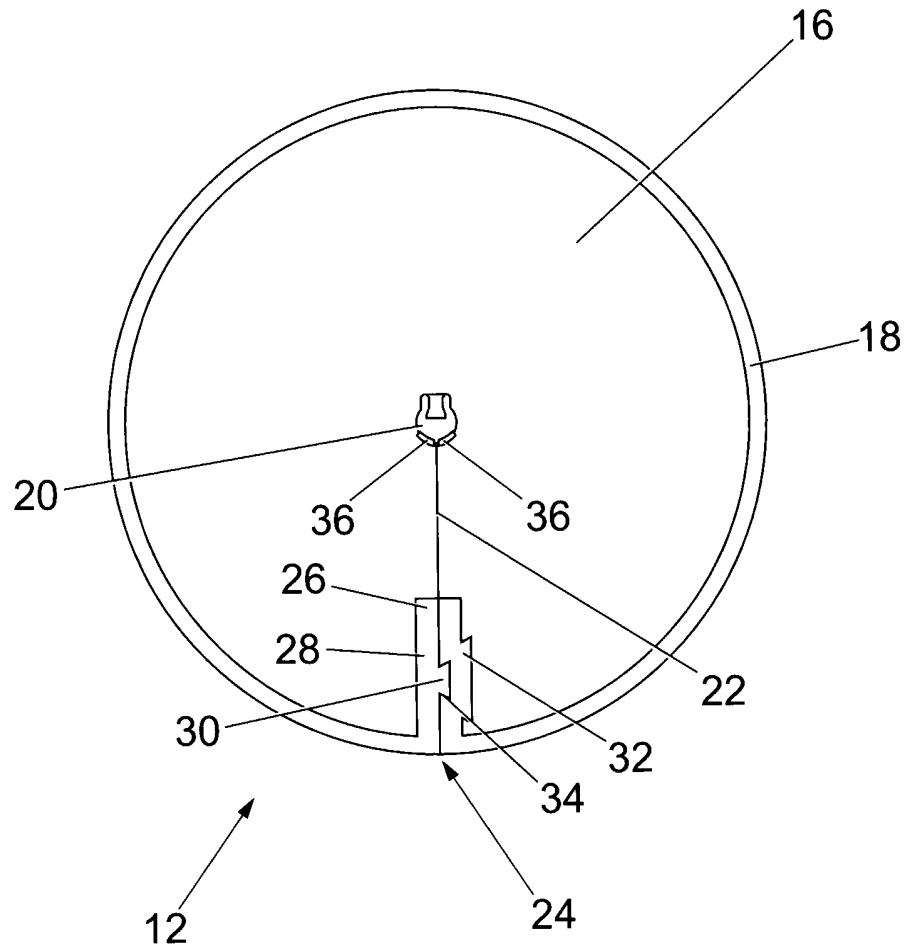


Fig. 3

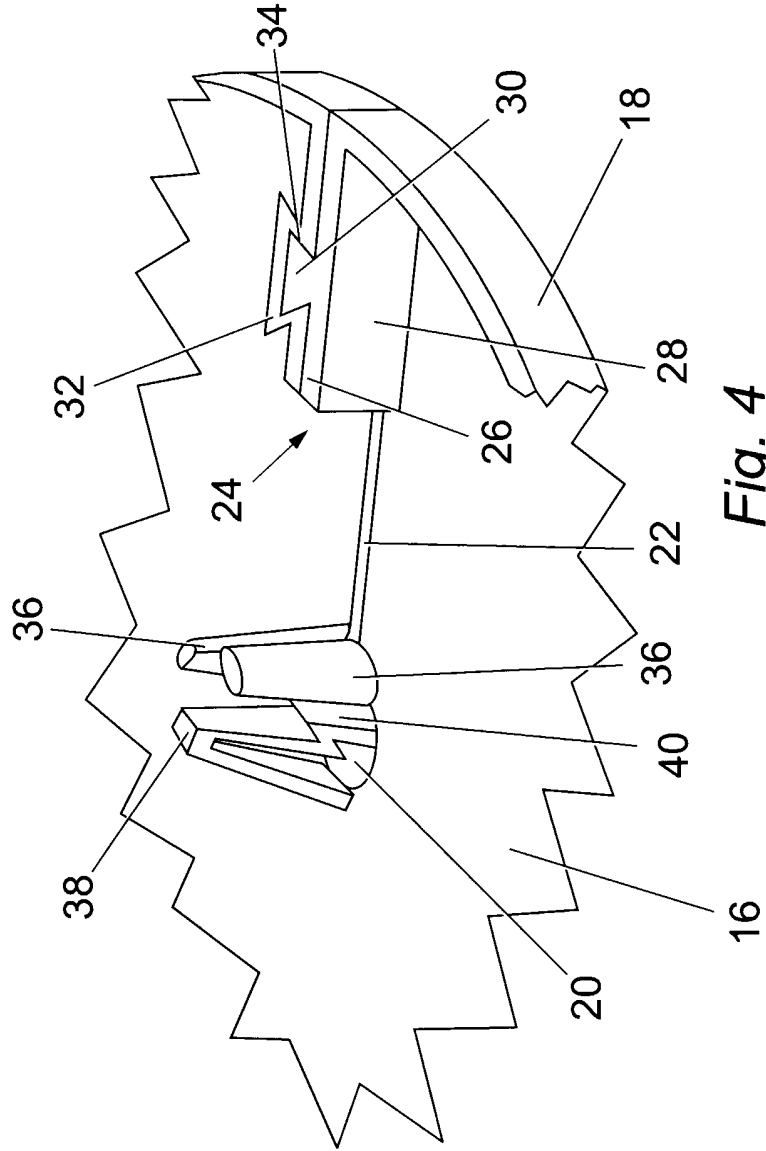


Fig. 4

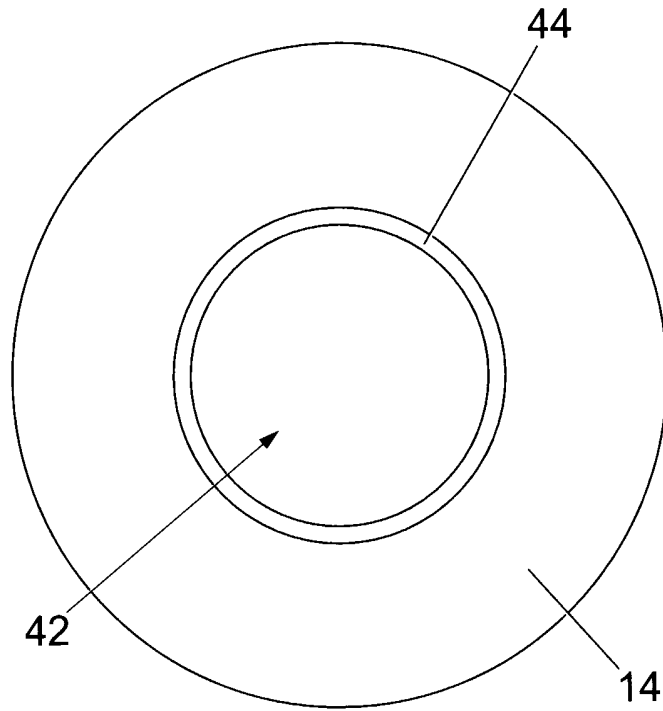


Fig. 5

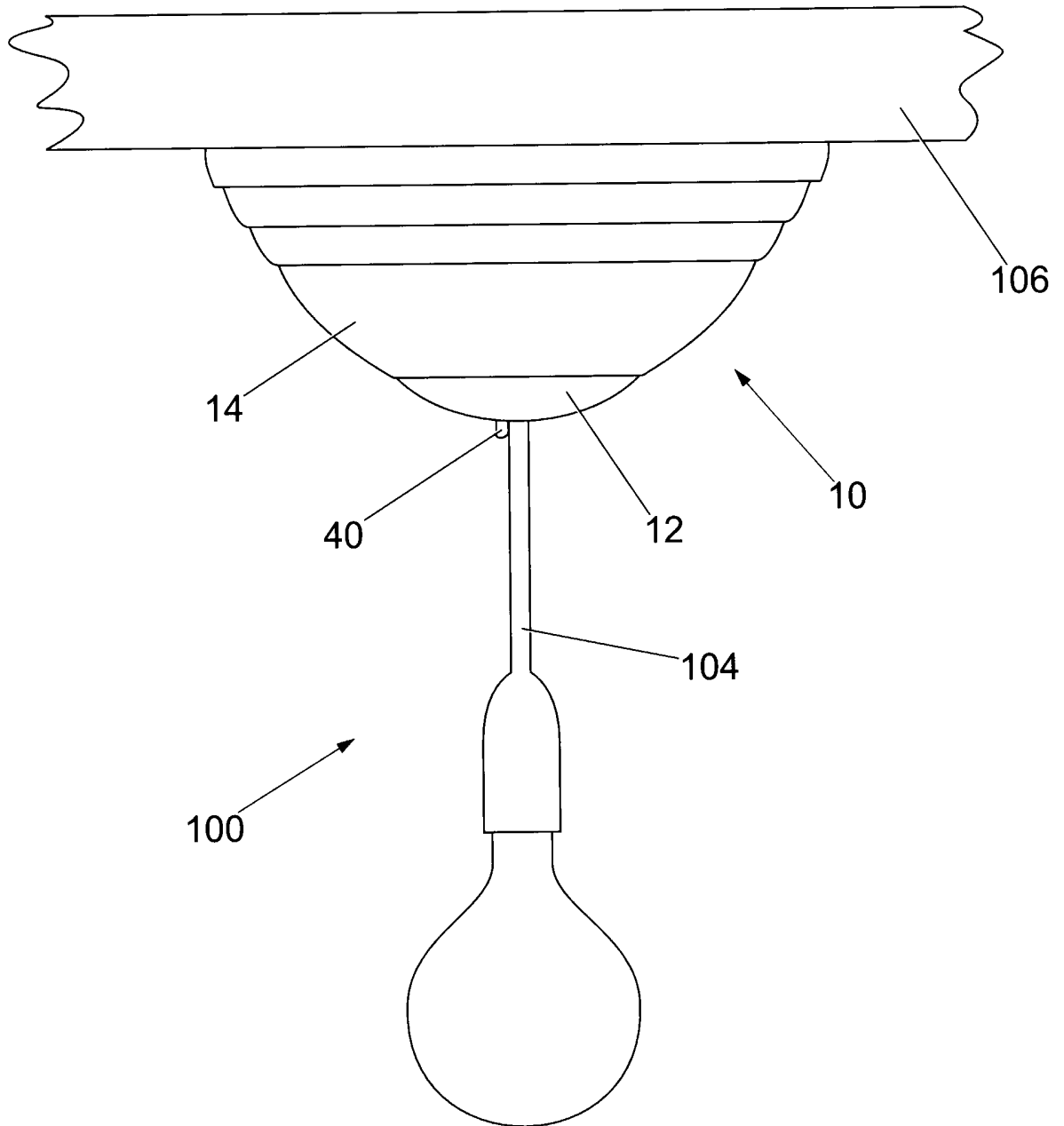


Fig. 6

1 Light Fitting

2

3 The present invention relates to light fittings,
4 particularly but not exclusively, light fittings for
5 use as decorative covers.

6

7 According to the present invention there is provided
8 a light fitting comprising a cover and an attachment
9 fixing, the attachment fixing being adapted to
10 attach to a light flex and being provided with
11 support means to support the cover, whereby the
12 cover when in use is located between the attachment
13 fixing and a ceiling from which the light flex
14 hangs.

15

16 Preferably the attachment fixing has an aperture for
17 locating the light flex in use, the aperture being
18 provided with a resilient abutment to sandwich the
19 light flex between the abutment and the aperture
20 edge.

21

1 Preferably the attachment fixing is an integral
2 moulding and is split along a line extending from
3 the aperture to the outer edge of the attachment
4 fixing. A releasable lock arrangement may be
5 provided on either side of said line.

6

7 An embodiment of the present invention will now be
8 described, by way of example only, with reference to
9 the following drawings in which:

10

11 Fig. 1 is a plan view of the light fitting
12 according to the present invention;

13

14 Fig. 2 is a side view of the light fitting of
15 Fig. 1

16

17 Fig. 3 a plan view of the attachment fixing of
18 the light fitting of Fig. 1;

19

20 Fig. 4 is a perspective detail view of the
21 attachment fixing of Fig. 3;

22

23 Fig. 5 is a plan view of the cover of the light
24 fitting of Fig.1; and

25

26 Fig. 6 is a side view of the light fitting of
27 Fig. 1 in situ.

28

29 Referring to the drawings and initially to Fig. 1,
30 there is shown a light fitting generally referred to
31 as 10.

32

1 The light fitting 10 comprises two components; an
2 attachment fixing 12 and a cover 14. The attachment
3 fixing 12 has a generally conical body 16 which
4 leads into a cylindrical skirt 18. At the centre of
5 the attachment fixing 12 is a flex aperture 20. The
6 conical body 16 is not continuous, but is split
7 along a line 22. This split allows the attachment
8 fixing 10 to be manipulated so that a gap can be
9 formed in the attachment fixing 10 and a light flex
10 104 can be fed into the flex aperture 20.

11

12 Within the conical body 16 there is provided a
13 simple locking mechanism 24. The two parts of the
14 locking mechanism 24 are located on either side of
15 the line 22 and are connected to both the conical
16 body 16 and the cylindrical skirt 18. The first
17 part 26 comprises a small plate 28 and a projection
18 30. The projection 30 is of non-uniform thickness
19 and increases in thickness along an axis normal to
20 the plate 28, resembling a prism shape attached to
21 the plate 28 at its thinnest end.

22

23 The second part 32 of the locking mechanism 24 forms
24 a recess 34 cooperable with the projection 30. When
25 locked, the projection 30 is held within the recess
26 34.

27

28 Projecting from the edge of the flex aperture 20
29 into the conical body 16 there are two flex guides
30 36 and a resilient flex lock 38. The flex guides 36
31 are members which project generally downwardly and
32 are part circular in cross section. One flex guide

1 36 is located on either side of the split in the
2 attachment fixing 12.

3

4 The resilient flex lock 38 initially projects
5 downward into the conical body 16, but forms a
6 return section 40 which projects back up and through
7 the flex aperture 20. A resilient wedge shape is
8 therefore formed.

9

10 The cover 14 is of a generally part-spherical shape,
11 with an attachment aperture 42 at its centre. The
12 attachment aperture 42 is provided around its inner
13 periphery with an attachment flange 44.

14

15 In use, the light fitting 10 is used to provide a
16 decorative cover for a ceiling mounted light 100.
17 The cover 14 is placed over the light fitting 102.
18 The attachment fixing 12 is then unlocked by
19 disengaging the projection 30 from the recess 34 of
20 the locking mechanism 24. The attachment fixing 12
21 is then opened by forcing the two sides apart along
22 the line 22. A gap is opened which allows the light
23 flex 104 to be fed into the flex aperture 20.

24

25 Once within the flex aperture 20, the attachment
26 fixing 12 is locked by engaging the projection 30
27 within the recess 34. The diameter of the flex 104
28 is greater than the space provided between the
29 return section 40 of the resilient flex lock 38 and
30 the side of the flex aperture 20 from which the flex
31 guides 36 project. Thus the flex 104 forces the
32 return section 40 away from the flex guides 36. Due

1 to the resilience of the resilient flex lock 38, a
2 reaction force is created which urges the return
3 section 40 against the flex 104. This arrangement
4 allows the weight of the attachment fixing 12 to be
5 supported due to friction between the light flex 104
6 and the return section 40.

7
8 Manual force can overcome this frictional
9 resistance, and consequently the user can push the
10 attachment fixing 12 up or down the light flex 104.
11 The attachment fixing 12 can be forced upwardly
12 towards the ceiling 106 from which the light flex
13 104 hangs. Since the cover 14 is already in place
14 between the ceiling 106 and the attachment fixing
15 12, the attachment fixing 12 can be slid into
16 engagement with the cover 14 via the attachment
17 aperture 42. The attachment fixing 12 abuts the
18 attachment flange 44. The friction between the
19 light flex 104 and the return section 40 of the
20 attachment fixing 12 is also sufficient to support
21 the weight of the entire light fitting 10, cover 14
22 and attachment fixing 12.

23
24 The user can slide the light fitting 10 into contact
25 with the ceiling 106. The attachment fixing 12
26 impedes the light fitting 10 from falling down under
27 the influence of gravity.

28
29 To remove the light fitting 10, the above process is
30 reversed. The light fitting 10 can be pulled away
31 from the ceiling 106, the locking mechanism 24

1 disengaged and the attachment fixing 12 and cover 14
2 removed.

3

4 Since frictional force alone is used, attachment of
5 the light fitting 10 to the ceiling 106 is achieved
6 without the need for mechanical fittings or
7 adhesives. The light fitting of the present
8 invention offers a simple method of attaching a
9 decorative cover to a ceiling. Furthermore, since
10 the attachment of the light fitting 10 to the
11 ceiling is not permanent, it can be easily removed
12 and replaced with different covers to suit changes
13 in decoration of a room or taste.

14

15 The invention is not limited to the embodiment
16 described herein but may be modified in both
17 construction and detail.

1 Claims

2

3 1. A light fitting comprising a cover and an
4 attachment fixing, the attachment fixing being
5 adapted to attach to a light flex and being provided
6 with support means to support the cover, whereby the
7 cover when in use is located between the attachment
8 fixing and a ceiling from which the light flex
9 hangs.

10

11 2. A light fitting according to Claim 1 wherein
12 the attachment fixing has an aperture for locating
13 the light flex in use, the aperture being provided
14 with a resilient abutment to sandwich the light flex
15 between the abutment and the aperture edge.

16

17 3. A light fitting according to Claims 1 or 2
18 wherein the attachment fixing is an integral
19 moulding and is split along a line extending from
20 the aperture to the outer edge of the attachment
21 fixing.

22

23 4. A light fitting according to Claim 3 wherein a
24 releasable lock arrangement may be provided on
25 either side of said line.

26

27 5. A light fitting substantially as hereinbefore
28 described with reference to the accompanying
29 drawings.



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Application No: GB0511887.2

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Examiner: D. P. Harness

Claims searched: 1-5

Date of search: 30 August 2005

Patents Act 1977: Search Report under Section 17

Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X	1-4	US6034324 A (KJERRUMGAARD) See whole document particularly noting projections 120-123.
X	1 & 2	GB2394529 A (HARRISON) See rose cover section 1 and connecting section 2.
X	1	DE3937958 A1 (KANNENGIESSER) See figures 2-3 and abstract translation.
X	1	GB2337639 A (DAVIS) See cover 32.
X	1	GB523925 A (GEC) See cover 12 & last paragraph column 5.
X	1	GB2274557 A (REWIRES LTD) See cover 3.
A	1	GB2396205 A (DRINKEL) See casing 16 which may be in two halves which snap fit together.
A	1	US4808774 A (CRANE) See whole document.

Categories:

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art
Y	Document indicating lack of inventive step if combined with one or more other documents of same category	P	Document published on or after the declared priority date but before the filing date of this invention
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC^X :



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F4R; H2E

Worldwide search of patent documents classified in the following areas of the IPC⁰⁷

F21V; H02G

The following online and other databases have been used in the preparation of this search report

WPI, EPODOC , PAJ