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<b>F21V 21/04</b> (2006.01)	

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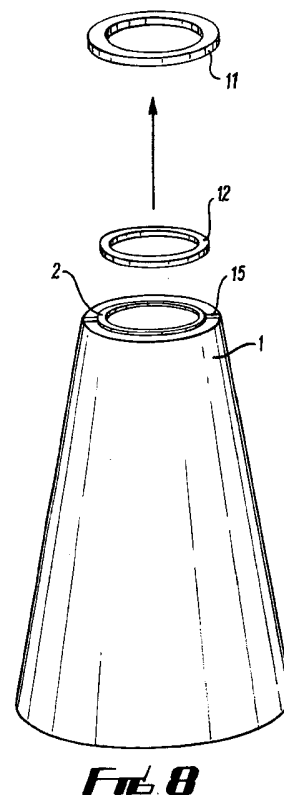
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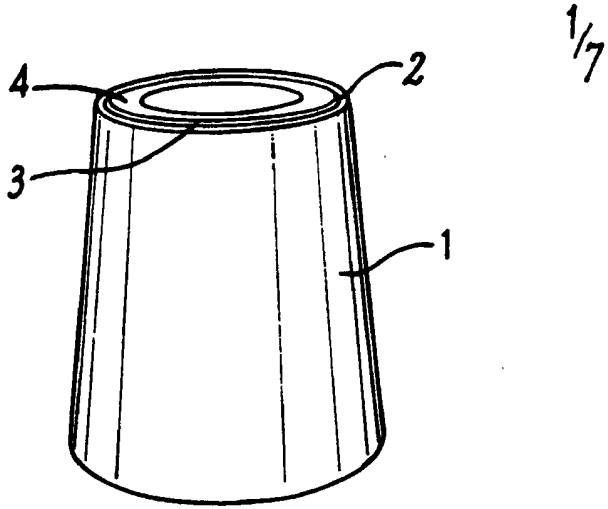
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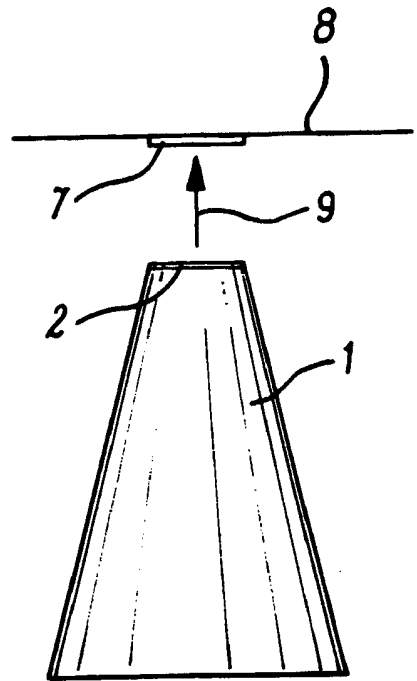
(54) Abstract Title: **Shade attachment for a recessed light fitting**

(57) A shade attachment device 2 for a recessed light fitting has opposed surfaces, wherein one of said surfaces 12 is around a recess in a mounting surface for a light, and the other surface 2 is fixed to a shade. There is a releasable contact fixing on one of said surfaces allowing a shade to be mounted by presenting it to the light fitting. The releasable contact fixing may be magnetic, by hook and loop pads, by adhesive or by friction fittings (fig 7, 17). If a rim around the light fitting is not magnetically susceptible and adaptor 11 can be added, fixed by adhesive or flexible fingers. Arms 15 may attach the device 2 to the shade 1 allowing a space between them. The shade may further comprise heat insulating or reflecting material (fig 10,19) and arms (fig 12,22) allowing attachment to a pendant or table lamp fitting or arms (fig 14, 22) allowing use of a shade with an existing attachment (fig 14,24). A heat resistant collar may be inserted into the recess of the light fitting, fastened by releasable means such as clamps, spring clips or hose clips.

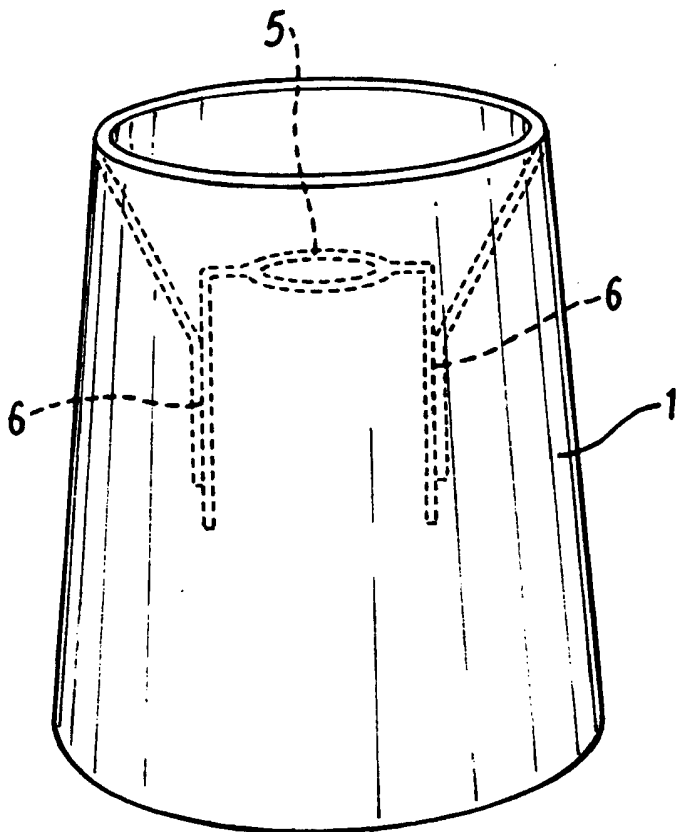




**FIG. 1**

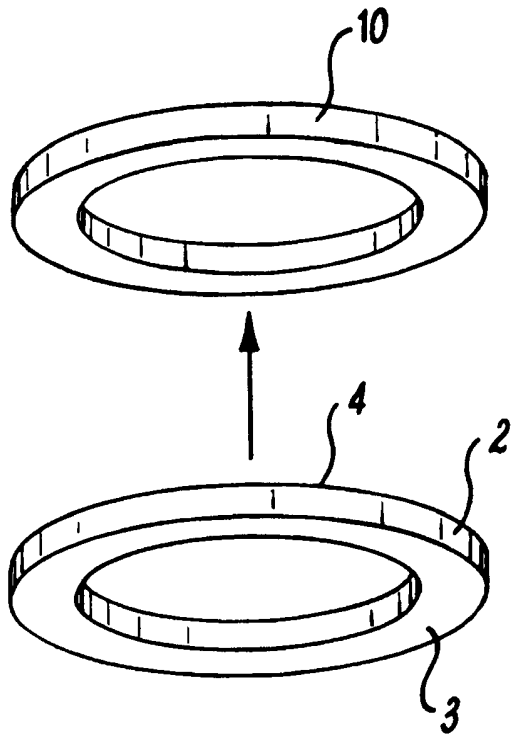


**FIG. 3**

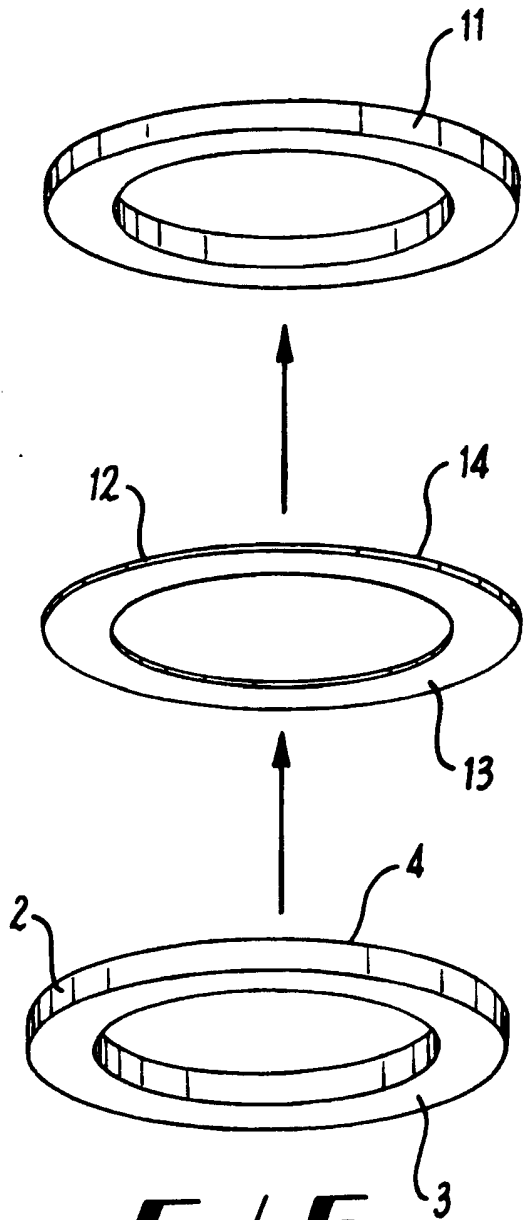


**FIG. 2**

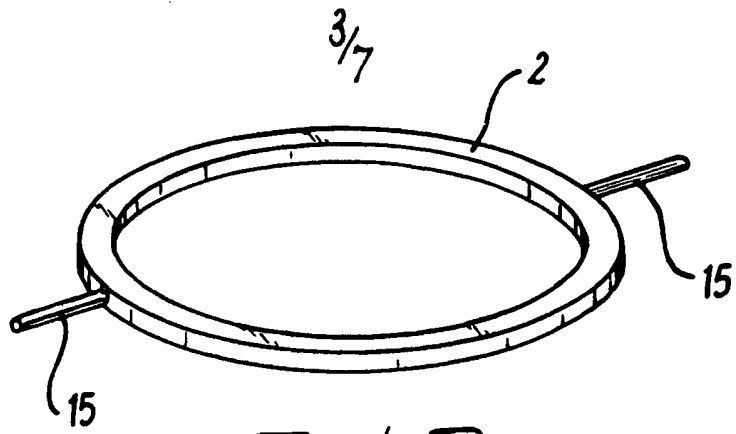




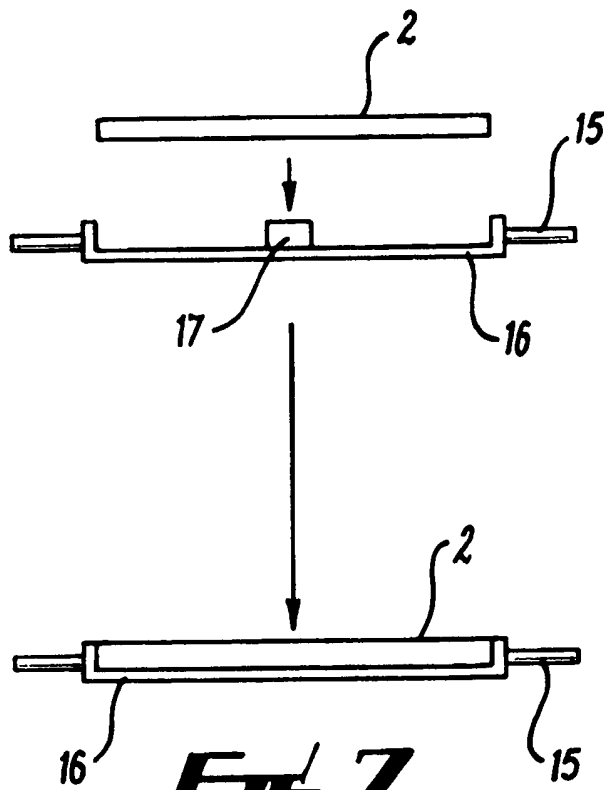
**FIG. 4**



**FIG. 5**

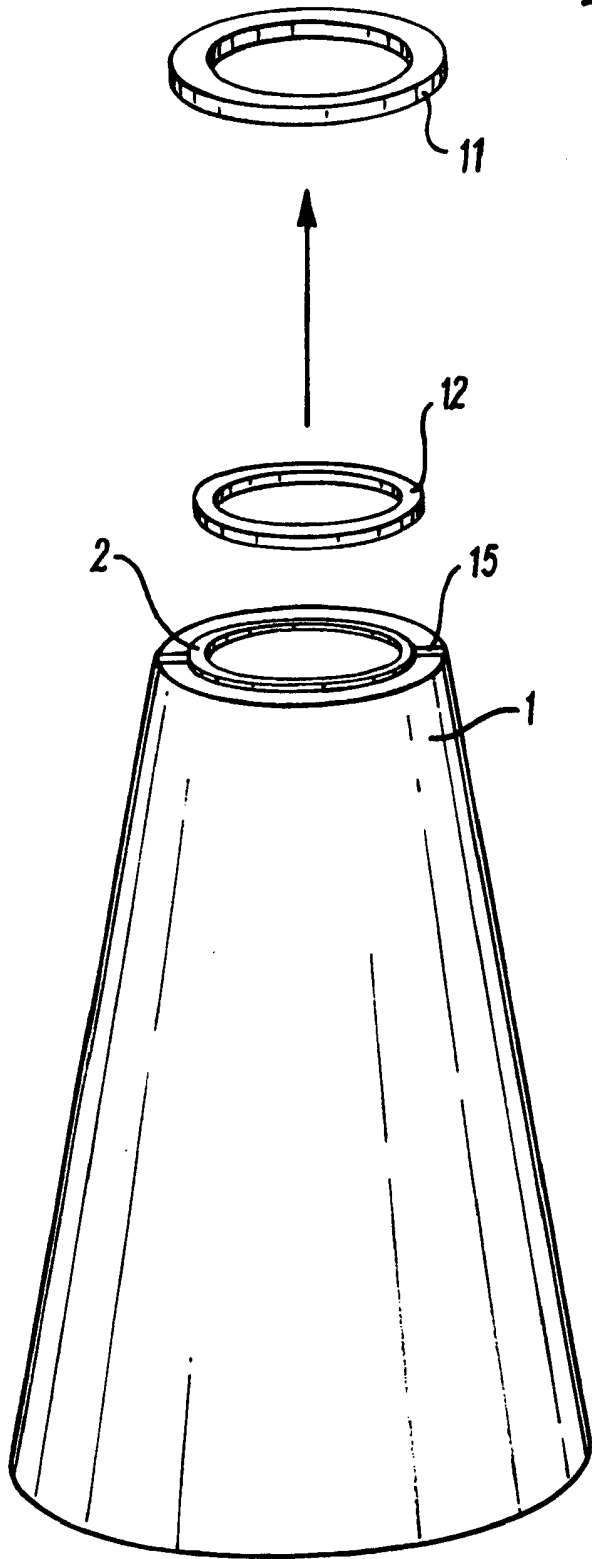


**FIG. 6**

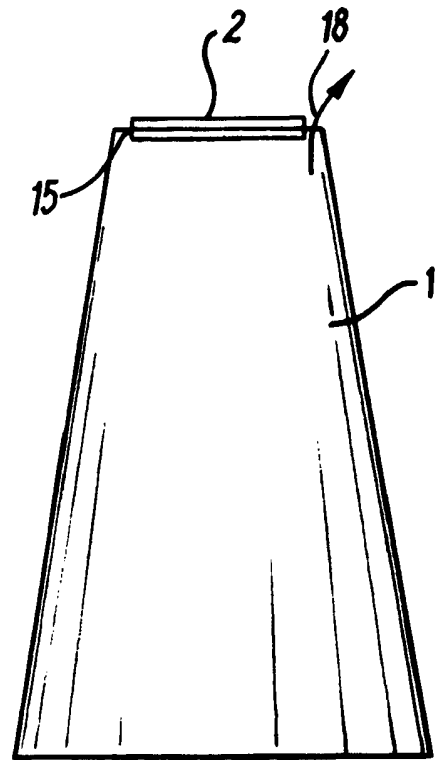


**FIG. 7**

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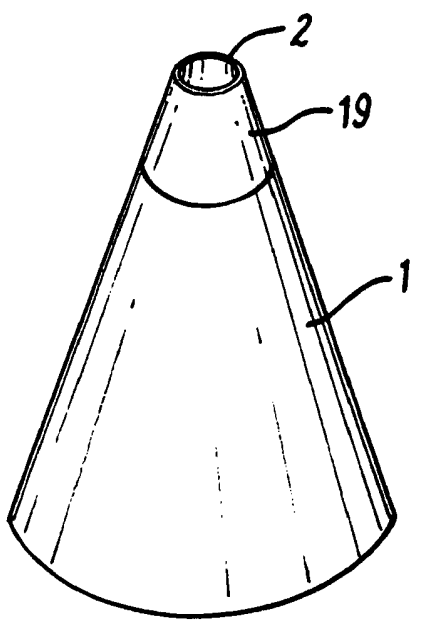
**FIG. 8**



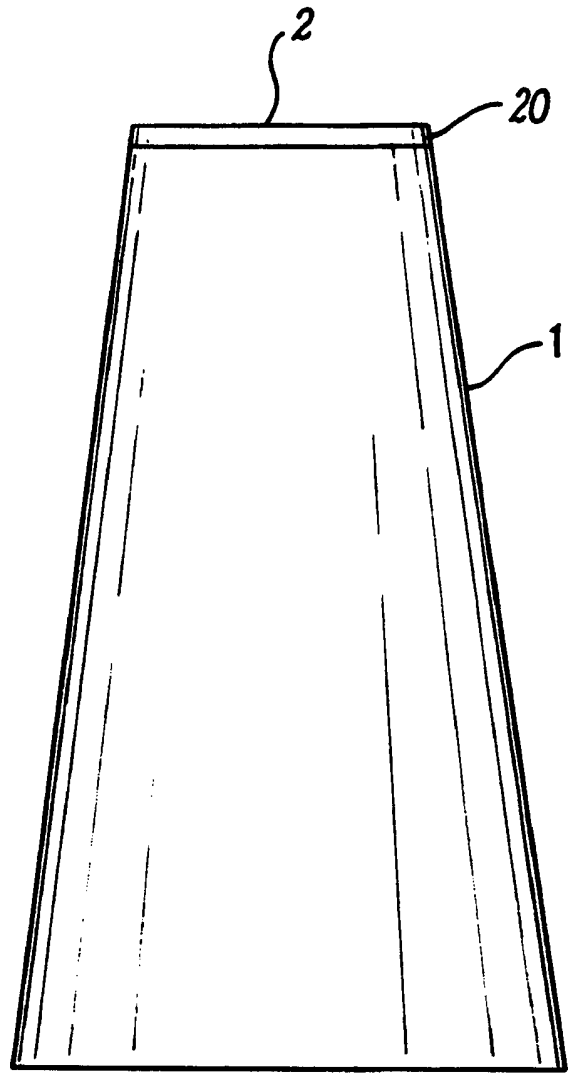
**FIG. 9**



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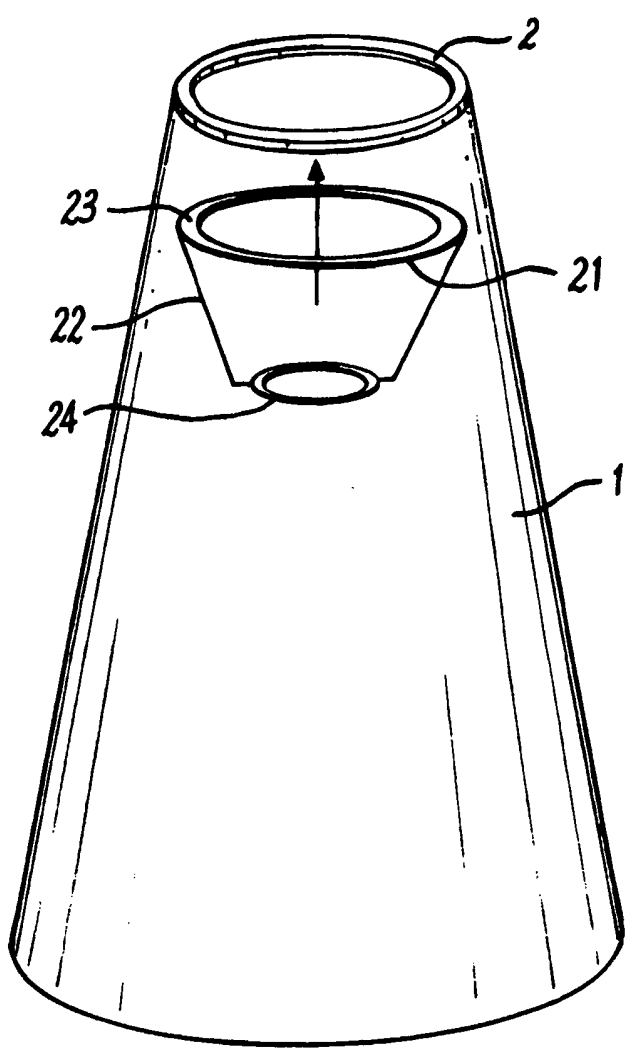


**FIG. 10**

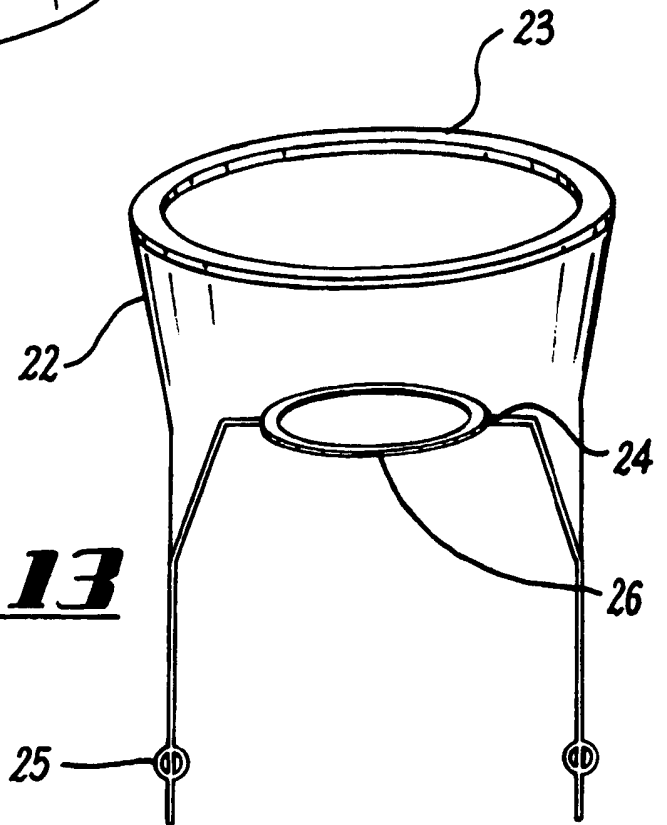


**FIG. 11**



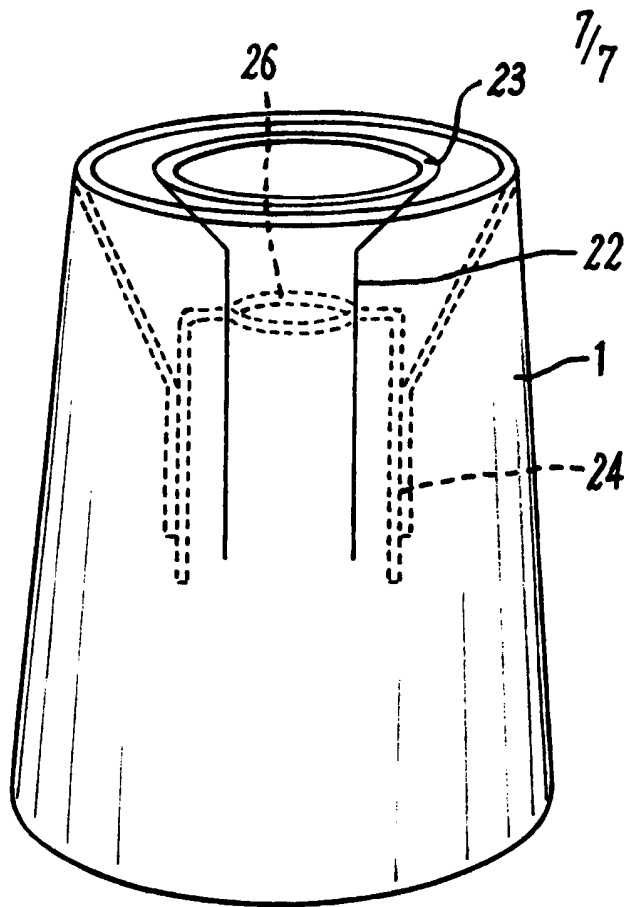


**FIG. 12**

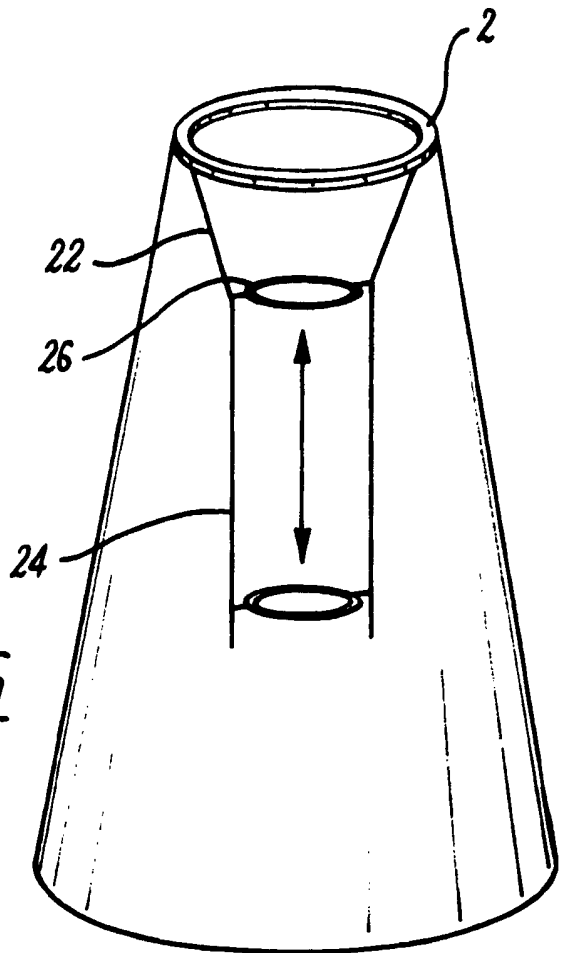


**FIG. 13**





**FIG. 14**



**FIG. 15**





1 Lampshade

2

3 The present invention relates to shading for lighting and  
4 in particular to a removable lampshade suitable for use  
5 with ceiling mounted, recessed light fixtures.

6

7 Artificial lighting can be delivered in a variety of  
8 forms adapted to the particular needs of the user. Thus  
9 lighting used in a factory or supermarket where people  
10 and goods are moved around, maybe different from that in  
11 an office, where reflective PC screens are used and  
12 people spend extended periods of time in close study at a  
13 desk. Similarly domestic needs differ from commercial  
14 needs.

15

16 Good quality lighting suited for the purpose does not  
17 necessarily require the brightest lighting available, and  
18 considerable thought has to be given to how the  
19 artificial light is to be provided to benefit a user.  
20 Frequently, thought must be given to mounting of the  
21 light source and then to diffusion and shading of the  
22 light emitted.

23

24 Typically, lighting is provided in one of the following  
25 forms, (i) dependent or pendant lighting; (ii) surface  
26 mounted lighting; and (iii) recessed lighting. Lighting

1 of the third type is the most difficult to access and  
2 modify after installation.

3

4 In particular it is notable that known recessed light  
5 fixtures are mounted in a mounting hole, generally in the  
6 ceiling or another elevated surface. The fixtures have  
7 means for securing to the perimeter of the hole in a  
8 manner intended to provide that the fixture is hidden  
9 from view, i.e. substantially confined within the recess  
10 of the mounting hole. Such recessed fixtures have a  
11 flange to bridge the gap between the fixture and mounting  
12 surface. Recessed downlight fixtures are a common  
13 replacement to traditional pendant light fixtures.

14

15 Whereas traditional pendant light fixtures are generally  
16 used in a domestic situation, recessed down light  
17 fixtures are becoming of interest in modern homes.

18 Whilst there are many reasons for change, one practical  
19 reason lies in the lower ceilings of modern homes as  
20 compared with more traditional style homes. A pendant  
21 light fixture has an incandescent bulb located in a bulb  
22 holder socket, suspended from the ceiling by a cable  
23 including the electrical power supply wiring, which is  
24 secured to a surface mounted electrical terminal (so-  
25 called "rose").

26

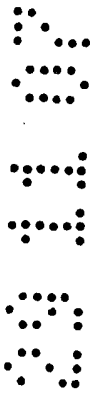
27 Pendant light fixtures offer the advantage of ease of  
28 access and are normally adapted to receive a shade which  
29 both directs and diffuses the light emitted from the  
30 otherwise bare bulb, thereby providing a generally softer  
31 light. The pendant fitting normally provides for  
32 attachment of a ring mounting between movable retaining  
33 rings attached to a threaded socket, and the ring  
34 mounting has limbs to which a shade is attached. The

1 ease with which such shades can be attached, removed and  
2 changed has maintained their popularity for almost a  
3 century. Thus a variety of lampshades are used in  
4 conjunction with pendant ceiling light fixtures, table  
5 lamps, desk lamps and free-standing (standard) lamps  
6 amongst other downlighter forms.

7

8 Whereas spotlights provide more efficient lighting in  
9 that light therefrom is better directed in illuminating  
10 zones for reading at a desk for example, they have  
11 limited value in providing ambient lighting. Therefore,  
12 they tend to be used for providing lighting effects or  
13 pools of light in certain zones. However, such lights  
14 are often viewed as efficient and functional but normally  
15 unattractive lighting as typically a glaring bare lamp  
16 surface is visible.

17

 18 This has been addressed in part by provision of modified  
19 spot lamp fittings. Individual and track mounted spot  
20 lights that can accommodate decorative shades are known  
21 in the art. The inherent disadvantage of such a system  
22 is that it requires a custom designed fixture. This may  
23 involve use of a cylindrical lighting fixture housing  
24 which has external grooves into which movable securing  
25 rings are located. The rim of a suitably sized shade is  
26 then secured between the plastic securing means.

27

28 Even though there is some improvement achieved thereby,  
29 the presence of the track mounting and visible fixtures  
30 can detract from the appearance of the shaded spotlights.

31

32 Recessed light fixtures provide the same efficient and  
33 directional lighting that spotlights provide, with the  
34 associated benefits of a recessed hidden fixture but like

1 spotlights, the recessed lights can result in functional  
2 but often unattractive lighting, primarily due to the  
3 exposed light emitting surface which in most cases, but  
4 not exclusively so, is flush with the mounting surface.  
5 The problem of glare associated with the exposed surface  
6 cannot be readily addressed due to the hidden nature of  
7 the fixing. Whilst it is possible to design diffusers  
8 for use with such lights, the resulting fixing is  
9 inevitably of a complicated construction and frequently  
10 cannot be provided in an inexpensive form.

11

12 Accordingly, it is an object of the present invention to  
13 obviate or mitigate the problems associated with glare  
14 from such recessed lights.

15

16 According to a first aspect of the present invention  
17 there is provided a shade attachment device adapted for  
18 use with a recessed light fitting, said device having  
19 opposed surfaces, wherein one of said surfaces is  
20 configured for peripheral surface contact around a recess  
21 in a mounting surface for a light, and the other of said  
22 surfaces is configured for mounting of a shade, wherein  
23 the device has releasable contact fixing means on one of  
24 said surfaces whereby a shade may be mounted using the  
25 device by presentation of said shade to said light  
26 fitting.

27

28 In the circumstance where the recessed light fitting  
29 already includes a metal rim around the recess which  
30 metal is magnetically susceptible or attracted to  
31 magnets, then the device comprises a magnetic surface  
32 adapted to be presented to the metal rim, and on its  
33 opposite surface, there is fixing means for attaching the  
34 device to a shade.

1 In the circumstance where the recessed light fitting  
2 includes a rim around the recess which is not  
3 magnetically susceptible or attracted to magnets, then an  
4 additional securing means with opposed sides may be used,  
5 consisting of a magnetic, or magnetically susceptible  
6 surface and an opposing adhesive surface for attaching to  
7 the rim of the recess, then the aforesaid device may be  
8 used to contact that additional securing means, i.e. such  
9 that the magnetic or magnetically susceptible surface may  
10 be presented to the additional securing means, and  
11 thereby attached to the rim, with a shade attached by  
12 fixing means on the opposite surface of the device.

13

14 Thus there is provided an assembly for attachment to a  
15 non-metallic or non-magnetically susceptible rim of a  
16 recessed light fitting, comprising an additional securing  
17 means to serve as a magnetic or magnetically susceptible  
18 adaptor piece, and a device for mounting a shade as  
19 hereinbefore described. A spacer element may be  
20 optionally included, provided always that when a magnetic  
21 fixing is required, at least one of the adaptor piece,  
22 spacer (if used) and the device has a magnetic component  
23 or composition, and the others are at least attracted to  
24 magnets sufficiently to form a releasable fixing  
25 therebetween capable of supporting a shade.

26

27 In other variants a magnetic component is unnecessary,  
28 and an interference fit device is used instead, same  
29 being for example, a compressible expansion fitting  
30 including flexible fingers adapted to engage the inner  
31 peripheral surface of a recess for a light fitting.  
32 Alternatively, a heat-resistant collar insertable into  
33 recess for the light may be used to receive a shade,  
34 which may be then secured using suitable releasable

1 fastening means such as a clamp, push-fit clips, worm-  
2 drive clips of the type used for hoses, such as Jubilee®  
3 clips, lever-actuated clamp, spring clip or other  
4 suitable expanding clip etc.

5

6 Preferably, the releasable fixing means is an inexpensive  
7 and light weight mechanical fixing such as fastening pads  
8 of the hook and loop type available under the trade mark  
9 VELCRO®, a magnetic fixing, or a combination thereof.

10

11 The opposite side of the device may have a chemical  
12 bonding agent such as an adhesive which may be permanent,  
13 pressure-sensitive or peelable to allow for subsequent  
14 removal.

15

16 It will be apparent to those in the field that in  
17 choosing materials for the device, these will be selected  
18 to be fit for purpose having regard to possible heat  
19 effects from the light, for example the use of heat  
20 resistant glue. There may also be provided a portion of  
21 heat insulating or heat reflecting material or a  
22 combination thereof, attached to the shade and capable of  
23 receiving the releasable contact fixing means.

24

25 The assembly including a device for securing the shade  
26 can be adapted to accommodate different shapes and sizes  
27 of shade. In this regard the magnet may be configured  
28 with a draft angle so as to improve the effectiveness of  
29 the fixing.

30

31 Optionally, the shade attachment device may be secured to  
32 the shade at discrete positions, allowing for remote  
33 mounting of the shade with respect to the light fitting  
34 and providing a space between the fixing means and shade.

1 Optionally, the shade attachment device may be secured to  
2 the fixing means using friction fittings.

3

4 Optionally, the shade can be secured to the recessed  
5 surface of the light fitting by an expansion fitting or  
6 other suitable means.

7

8 The size, shape and configuration of the fixing means may  
9 be dependant on the size and shape of the shade and  
10 composition of the recessed light fixture.

11

12 According to another aspect of the present invention  
13 there is provided a shade with a releasable contact  
14 fixing means on a surface intended in use for peripheral  
15 surface contact around a recess in a mounting surface for  
16 a light, whereby the shade may be presented to the light  
17 and retained in place by the releasable contact fixing  
18 means in one step.

19

20 The releasable contact fixing means may comprise a device  
21 or assembly according to the first aspect hereinbefore,  
22 and variants thereof as described above.

23

24

25 According to another aspect of the present invention,  
26 there is provided apparatus for adapting the shade as  
27 described hereinbefore for use with a traditional pendant  
28 light fixture, the apparatus consisting of arms  
29 configured to interconnect the shade attachment device  
30 with an existing shade attachment means for securing the  
31 lampshade to a traditional pendant light fixture.

32

33

34 Optionally, the light fixture may be a table or floor  
35 supported lamp.

1 Optionally, the existing shade attachment means may  
2 comprise a mechanism for rotating the bulb holder ring,  
3 or other means for securing the shade, to accommodate use  
4 with pendant light fixtures and table or floor lamps.

5

6 Alternatively the bulb holder ring, or other means for  
7 securing the shade, may be slidably mounted on the  
8 existing shade attachment device.

9

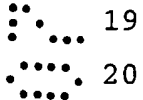
10 The present invention will now be described by way of  
11 example only, with reference to the accompanying drawings  
12 in which:

13

14 Figure 1 is a representation of a shade and a shade  
15 attachment device in accordance with the present  
16 invention;

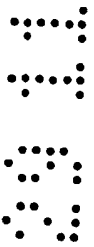
17

18 Figure 2 is a representation of a shade and an existing  
19 shade attachment device;



20

21 Figure 3 is a representation of a shade, a shade  
22 attachment device and the method of attaching said shade  
23 using said attachment device to a ceiling mounted,  
24 recessed light fixture in accordance with the present  
25 invention;



26

27 Figure 4 is a representation of the shade attachment  
28 device and a magnetically susceptible light fixture, in  
29 accordance with the present invention;

30

31 Figure 5 is a representation of the shade attachment  
32 device, a non-magnetically susceptible light fixture and  
33 means to adapt the surface of the fixture to facilitate



1 attachment of the shade in accordance with the present  
2 invention;

3

4 Figure 6 is a representation of a shade attachment device  
5 with limbs;

6

7 Figure 7 is a representation of a shade attachment device  
8 with friction fittings;

9

10 Figure 8 is a representation of a shade, a shade  
11 attachment device with limbs, a non-magnetically  
12 susceptible light fixture and means to adapt the surface  
13 of the fixture to facilitate attachment of the shade in  
14 accordance with the present invention;

15

16 Figure 9 is a representation of a shade and shade  
17 attachment device with limbs, providing a space between  
18 the shade attachment device and shade;

19

20 Figure 10 is a representation of a shade with heat  
21 insulating or heat reflecting material;

22

23 Figure 11 is a representation of a shade and shade  
24 attachment device with draft angle;

25

26 Figure 12 is a representation of apparatus for adapting  
27 the shade for use with a traditional pendant light  
28 fixture;

29

30 Figure 13 is a representation an existing shade  
31 attachment device adapted for use in accordance with the  
32 present invention;

33

1 Figure 14 is a representation of a shade designed for use  
2 with a traditional pendant light fixture, adapted for use  
3 in accordance with the present invention;

4

5 Figure 15 is a representation of a shade with a slidably  
6 mounted bulb holder, adapted for use in accordance with  
7 the present invention;

8

9 Referring to Figure 1 there is illustrated a shade 1 and  
10 shade attachment device 2, with one surface 3 configured  
11 for securing the device to the shade and a mounting  
12 surface 4 configured for contact with the rim of a  
13 recessed light fixture.

14

15 A shade 1 and an existing shade attachment device 5 are  
16 depicted in Figure 2. Modification of the attachment  
17 device at connections 6 would permit the use of the  
18 attachment means in accordance with the present invention  
19 and subsequent mounting of the shade to a ceiling  
20 mounted, recessed light fixture.

21

22 Referring to Figure 3 there is illustrated a shade 1 and  
23 shade attachment device 2, recessed light fixture 7 in a  
24 ceiling 8 and indication 9 of the presentation of said  
25 shade to said light fixture.

26

27 Figure 4 depicts the circumstance where the recessed  
28 light fixture already includes a metal rim 10 around the  
29 recess which metal is magnetic or magnetically  
30 susceptible. The shade attachment device 2, with one  
31 surface 3 configured for securing the device to the shade  
32 and a magnetic or magnetically susceptible mounting  
33 surface 4 configured for contact with the rim of a  
34 recessed light fixture are also shown.

1 Referring to Figure 5 there is illustrated the  
2 circumstance where the recessed light fixture includes a  
3 rim 11 which is not magnetically susceptible. The  
4 additional securing means (adaptor piece) 12 consists of  
5 a magnetic or magnetically susceptible surface 13 and  
6 surface 14 prepared for adhesion to the rim 11 around the  
7 recess of the light fixture.

8

9 Figure 6 depicts limbs 15, used to secure a shade  
10 attachment device 2, to a shade. The shade attachment  
11 device 2 is therefore secured to the shade at discrete  
12 positions.

13

14 Figure 7 represents the process of securing a shade  
15 attachment device 2 to a fixing means 16 using limbs 15  
16 with friction fittings 17.

17

18 Figure 8 depicts the circumstance where a recess light  
19 fixture includes a rim 11 which is not magnetically  
20 susceptible. An additional securing means 12 is adhered  
21 to a shade attachment device 2, which includes limbs 15  
22 secured to shade 1.

23

24 Referring to Figure 9 there is illustrated a shade  
25 attachment device 2 secured to a shade 1 using the limbs  
26 15, and providing a space 18 between the shade attachment  
27 device 2 and shade 1.

28

29 A shade 1 is depicted in Figure 10, provided with a  
30 portion of heat insulating or heat reflecting material 19  
31 attached to which is a shade attachment device 2.

32

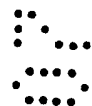
1 Figure 11 depicts a shade 1 with a shade attachment  
2 device 2, incorporating a draft angle 20 so as to improve  
3 the effectiveness of the fixing.

4

5 Referring to Figure 12 there is illustrated a shade 1  
6 with shade attachment device 2 and apparatus 21 for  
7 adapting the shade for use with a traditional pendant  
8 light fixture. The apparatus 21 consists of arms 22  
9 attached to which is a surface 23 which can be adhered to  
10 surfaces of the shade attachment device 2. The arms 22  
11 interconnect the surface 23 with an existing shade  
12 attachment means 24.

13

14 Figure 13 depicts the circumstance where an existing  
15 shade attachment means 24 comprise a mechanism 25 for  
16 rotating a bulb holder ring 26 in order to accommodate  
17 use with pendant light fixtures and table or floor lamps.  
18 The arms 22 interconnect surface 23 with the existing  
19 shade attachment means 24.



20

21 Referring to Figure 14 there is illustrated the  
22 circumstance where a shade 1 is adapted for use with a  
23 recessed light fitting using surface 23, when arms 22 are  
24 located inside a bulb holder ring 26 of an existing shade  
25 attachment means 24. The arms 22 are held in position by  
26 friction.



27

28 Figure 15 depicts the circumstance where the bulb holder  
29 ring 26 is slidably mounted on the existing shade  
30 attachment device 24. The existing shade attachment  
31 device 24 is secured to the shade attachment device 2 via  
32 arms 22.

33

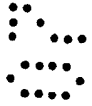
1 In use of the aforesaid embodiments of Figs. 4 or 5, the  
2 shade with securing means or securing means with adaptor  
3 part is offered up to the recessed light fitting,  
4 presented to the desired peripheral surface and attached  
5 by contact therewith.

6

7 The above example illustrates the ease with which a shade  
8 attachment device with releasable fixing means and  
9 adapted for use with a recessed light fitting provides a  
10 means for simply presenting the shade to a light fixture  
11 to ensure an instant connection between the two articles.

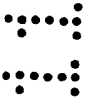
12

13 Thus a shade modified with a releasable fixing means of  
14 the invention, may be simply installed by a simple one  
15 step fixing of the shade. The shade is readily changed  
16 by reversing the procedure. Other advantages of the  
17 present invention include affordability and the ease with  
18 which the shade can be installed and removed from the  
19 light fixture.



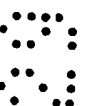
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1 Claims

2

3 1. Shade attachment apparatus comprising a device having  
4 opposed surfaces, wherein one of said surfaces is  
5 configured to be attached to a light fitting and the  
6 other of said surfaces is configured for mounting to  
7 a shade, the device comprising releasable contact  
8 fixing means on one of said surfaces whereby the  
9 shade may be mounted using the device by presentation  
10 of said shade to said light fitting.

11

12 2. Shade attachment apparatus according to claim 1 for  
13 use with a recessed light fitting.

14

15 3. Shade attachment apparatus according to any preceding  
16 claim where the releasable contact fixing means is an  
17 inexpensive and light weight mechanical fixing.

18

19 4. Shade attachment apparatus according to Claim 3  
20 wherein the releasable contact fixing means comprises  
21 a magnetic fixing.

22

23 5. Shade attachment apparatus according to Claim 3  
24 wherein the releasable contact fixing means comprises  
25 fastening pads of the hook and loop type available  
26 under the trade mark VELCRO®.

27

28 6. Shade attachment apparatus according to preceding  
29 claims 1 or 2 where the releasable contact fixing  
30 means consists of a chemical bonding agent comprising  
31 an adhesive.

32

1 7. Shade attachment apparatus according to claim 6 where  
2 the releasable contact fixing means is permanent,  
3 pressure-sensitive, peelable and/or heat resistant.  
4

5 8. Shade attachment apparatus according to any of the  
6 previous claims for use with a recessed light fitting  
7 that includes a metal rim around the recess, which  
8 metal is magnetically susceptible or attracted to  
9 magnets, comprising a magnetic surface capable of  
10 being presented to the metal rim, and on its opposite  
11 surface, fixing means for attaching the device to a  
12 shade.  
13

14 9. Shade attachment apparatus for use with a non-  
15 metallic or non-magnetically susceptible rim of a  
16 recessed light fitting, comprising an additional  
17 securing means to serve as a magnetic or magnetically  
18 susceptible adaptor piece, with opposed sides,  
19 consisting of a magnetic, or magnetically susceptible  
20 surface and an opposing adhesive surface for  
21 attaching to the rim of the recess, and a device for  
22 mounting a shade as described in any of claims 1 to  
23 8.  
24

25 10. Shade attachment apparatus according to Claims 9  
26 comprising an interference fit device being a  
27 compressible expansion fitting including flexible  
28 fingers adapted to engage the inner peripheral  
29 surface of a recess for a light fitting.  
30

31 11. Shade attachment apparatus according to any of the  
32 previous claims further comprising a heat-resistant  
33 collar, insertable into the recess of the light

1 fitting to receive a shade, secured using suitable  
2 releasable fastening means.

3

4 12. Shade attachment apparatus according to claim 11  
5 wherein the releasable fastening means is selected  
6 from one or more of a clamp, a push-fit clip, a worm-  
7 drive clip of the type used for hoses such as a  
8 Jubilee® clip, a lever-actuated clamp, a spring clip  
9 or other suitable expanding clip.

10

11 13. Shade attachment apparatus according to any of the  
12 preceding claims including a portion of heat  
13 insulating or heat reflecting material or a  
14 combination thereof, attached to the shade and  
15 capable of receiving the releasable contact fixing  
16 means.

17

18 14. Shade attachment apparatus according to any of the  
19 preceding claims where the device is adapted to  
20 accommodate different shapes and sizes of shade,  
21 making use of one or more draft angles so as to  
22 improve the effectiveness of the fixing.

23

24 15. Shade attachment apparatus comprising a device having  
25 opposed surfaces, wherein one of said surfaces is  
26 configured to be attached to a light fitting and the  
27 other of said surfaces is configured for mounting to  
28 a shade at discrete positions, the device comprising  
29 releasable contact fixing means on one of said  
30 surfaces whereby a shade may be mounted using the  
31 device by presentation of said shade to said light  
32 fitting, the shade being remotely mounted with  
33 respect to the light fitting and providing a space  
34 between the fixing means and shade.



1 16. Shade attachment apparatus according to claim 15  
2 wherein the device is secured to the fixing means  
3 using friction fittings.  
4

5 17. Shade attachment apparatus comprising a device having  
6 opposed surfaces, wherein one of said surfaces is  
7 configured to be attached to a light fitting and the  
8 other of said surfaces is configured for mounting to  
9 a shade, the device comprising releasable contact  
10 fixing means on one of said surfaces whereby the  
11 shade may be mounted using the device by presentation  
12 of said shade to said light fitting, the device also  
13 comprising arms configured to interconnect the shade  
14 attachment device with an existing shade attachment  
15 means for securing the lampshade to a traditional  
16 pendant light fixtures, table or floor supported  
17 lamps.  
18

19 18. A method of presenting a shade with a releasable  
20 contact fixing means on a surface intended in use for  
21 peripheral surface contact around a recess in a  
22 mounting surface for a light, whereby the shade is  
23 presented to the fixture and retained in place by the  
24 releasable contact fixing means in one step.  
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**Examiner:** Robert Barrell

**Claims searched:** 1-17

**Date of search:** 18 February 2008

## 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	1-5, 6-12, 15 and 16	US2005/0265016 A1 (RAPPAPORT) See: paragraphs 0064, 0065, 0067, and 0084-0092
X	1-4, 8 and 9	GB2239307 A (LIGHT PROJECTS) See: the abstract; figs 1-3; and pages 3-5
X	1-4, 8 and 14	US4225904 A (LINDER) See: the abstract; and figs 2-4
X,P	1, 3, 4, 14, 15 and 17	WO2007/091289 A1 (GARDI ) See: page 5, lines 11-24; and figs 16-20
X	1, 3, 5-7 and 16	US5154503 A (STERNISHER) See: column 2, line 20 - column 4, line 26; and figs 1-3
X	1, 3, 4, 15 and 17	DE202004007742 U1 (LAAS) See: WPI and EPO abstracts; fig 5; and fig 3
X	1, 3 and 14	GB2260394 A (LI & NG) See: pages 1-3; fig 1; and fig 2
X	1, 3 and 5	US3247369 A (NANNY) See: column 3, line 64 - column 4, line 17; and fig 6
X	1, 3 and 4	US3593021 A (AUERBACH) See: the abstract; figs 1-5; and column 3, line 9 - column 4, line 41
X	1, 3 and 4	GB486732 A (BRITISH THOMSON HOUSTON) See: figs 1-4; and page 1, line 28 - page 2, line 73

### 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	P	Document published on or after the declared priority date but

combined with one or more other documents of same category.	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<sup>X</sup> :

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

F21V

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

EPODOC, WPI

**International Classification:**

Subclass	Subgroup	Valid From
F21V	0017/06	01/01/2006
F21V	0017/10	01/01/2006
F21V	0021/04	01/01/2006