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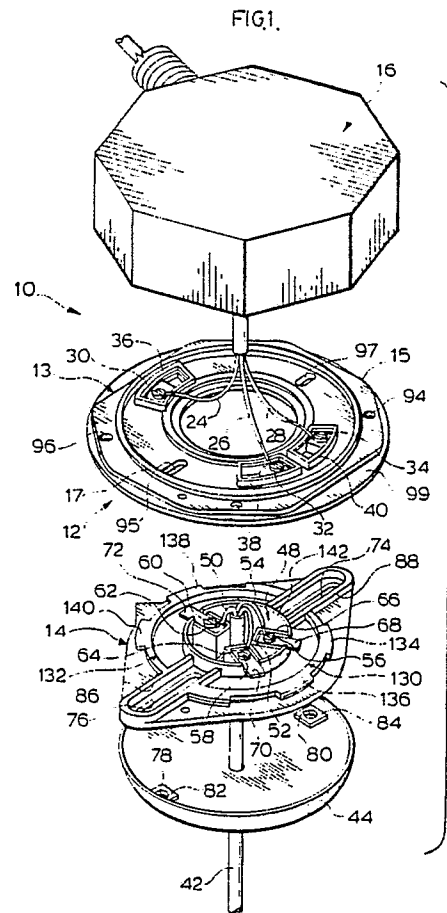
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Light fixture connector.

An electrical coupling device (10) for detachably securing a fixture to an electrical outlet box (16) comprises male and female interconnecting components (12, 14). The fixture is connected to the male component (14) where the male component is secured to the female component (12) by rotating the male component (14). The female component (12) has a plurality of catches (154, 156). The male has a plurality of studs (136, 138) for insertion and engagement with the catches by way of rotational movement of the studs into the catches. The catches are spaced apart in a circular array at a first radius. The improvement comprises at least two spaced apart female resilient clips (162, 164) of electrically conductive metal. The clips are located in a circular pattern at a second radius on the female component.

The male component has at least two spaced-apart contacts (70, 72) of electrically conductive metal. The contacts are located in a circular pattern at the second radius. The male contacts are in register with the clips when the studs are in register with the catches. Rotation of the male component to engage the studs with the catches simultaneously engages the contacts with the clips to depress the clip slightly to ensure electrical contact. The electrical coupling device is characterized by minimal protrusion into the electrical junction box; direct mounting by means of a simple one-step rotation; and applicability to a wide range of fixtures and sizes of electrical outlet boxes; and direct mounting without the requirement of an outlet box.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	FR-A-2 425 746 (ROTAPLEX LTD) * Page 3, line 1 - page 6, line 2; figures 1-6 *	1-5, 18	F 21 V 21/02
A	---	20-22	
Y	DE-A-3 335 759 (SACHSSE) * Page 5, line 31 - page 6, line 21; claims 1,2,8,9,12,14; figures 1-3 *	1-5, 18	
A	---	8	
A	US-A-3 985 417 (FENTON) * Column 3, line 38 - column 4, line 68; column 5, line 24 - column 8, line 48; figures 1-7 *	1,2,4,5,8,10,11,17	
A	FR-A-2 186 626 (SCHÖTTLI) * Claims 1,3-5,8; figures 1-3 *	10,12,18,19	
A	FR-A- 630 250 (COMPAGNIE DES LAMPES) * Abstract; figures 1,2 *	13	
A	US-A-4 645 286 (ISBAN et al.) * Column 2, line 59 - column 3, line 23; figures 2,6 *	8	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
A	US-A-1 595 972 (DE REAMER) * Page 3, lines 49-61; figure 1 *	19	F 21 V H 02 G H 01 R
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 13-06-1990	Examiner MARTIN C.P.A.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	