

Title (en)  
Light fixture connector.

Title (de)  
Elektrische Kontakteinheit für Leuchten.

Title (fr)  
Connecteur pour armature lumineuse.

Publication  
**EP 0370825 A2 19900530 (EN)**

Application  
**EP 89312210 A 19891124**

Priority  
• CA 584099 A 19881125  
• US 44050589 A 19891122

Abstract (en)  
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.

IPC 1-7  
**F21V 21/02**

IPC 8 full level  
**F21V 21/03** (2006.01); **F21V 23/06** (2006.01)

CPC (source: EP)  
**F21V 21/03** (2013.01); **F21V 23/06** (2013.01)

Cited by  
AT508807B1; DE102012006164B4; US5803590A; EP1055875A3; EP2642195A1; US11754272B2; AU736250B2; FR2743609A1; CN117570407A; EP2916065A1; CN104896429A; USRE38767E; DE102012006164A1; US7628504B2; DE202012003111U1; US7014339B2; WO0124335A1; WO9733125A3

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