

Title (en)

A connector and junction box provided therewith

Title (de)

Elektrischer Steckverbinder und Verteilerkasten mit diesem Steckverbinder

Title (fr)

Connecteur électrique et boîtier de distribution utilisant ce connecteur

Publication

**EP 1363364 A1 20031119 (EN)**

Application

**EP 03009832 A 20030513**

Priority

JP 2002141731 A 20020516

Abstract (en)

A pair of locking pieces 30 are provided at opposite side walls of a fitting recess 24. Each locking piece 30 is formed in such a manner as to be resiliently deformable and is formed with a locking hook portion 31 on the inner surface of the upper end thereof. The lower surface of the locking hook portion 31 serves as a locking surface 33. This locking surface 33 is inclined downward toward its projecting end with respect to a horizontal plane in parallel with an upper surface 14 of a main body 11 of a relay 10. When a force acting upward in withdrawing direction is exerted on the relay 10 fitted in a fitting recess 24, the locking hook portions 31 are pressed, whereby the opposite locking pieces 30 are resiliently deformed so as to widen a spacing therebetween. However, the locking surfaces 33 are still held inclined downward toward their projecting ends or at worst held horizontal in parallel to the upper surface 14 of the main body 11. As a result, a locking force for locking the relay 10 can continue to act, thereby effectively preventing the withdrawal of the relay 10. <IMAGE>

IPC 1-7

**H01R 13/627**; **H01R 13/633**

IPC 8 full level

**H01R 13/629** (2006.01); **H01H 45/04** (2006.01); **H01R 13/627** (2006.01); **H01R 13/633** (2006.01); **H01R 33/76** (2006.01); **H01R 33/97** (2006.01)

CPC (source: EP)

**H01R 13/6271** (2013.01); **H01R 13/6273** (2013.01); **H01R 13/633** (2013.01)

Citation (search report)

- [XY] EP 1077511 A2 20010221 - SUMITOMO WIRING SYSTEMS [JP]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 11 30 September 1998 (1998-09-30)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 06 30 April 1998 (1998-04-30)
- [YD] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 06 30 June 1997 (1997-06-30)

Cited by

EP2966734A1; DE102006010908B4; DE102006010908A1; CN113178356A

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