

Title (en)

SECURE ELECTRICAL RECEPTACLE

Title (de)

SICHERER ELEKTRISCHER BEHÄLTER

Title (fr)

IMMOBILISATION DE RÉCEPTACLE ÉLECTRIQUE

Publication

**EP 2754210 A4 20150708 (EN)**

Application

**EP 12829816 A 20120910**

Priority

- US 201113228331 A 20110908
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- US 2012054518 W 20120910

Abstract (en)

[origin: WO2013036966A2] A method and apparatus ("utility") for securing an electrical connection formed by a mating structure including prongs of a male assembly and receptacles of a female assembly are provided. The utility includes a clamping mechanism whereby the very forces that would otherwise tend to pull the connection apart serve to actuate the clamping mechanism, thereby securing the mated pair. The apparatus may be integrated into a standard receptacle, or retrofitted to work with existing devices. In one embodiment, the clamping mechanism acts solely on the ground prong of a standard plug assembly, so that it is unnecessary to consider electrical potentials applied to the clamped prong in relation to the design of the clamping mechanism. Further, the withdrawing movement of the prongs of a plug may be translated into a rotational movement of a portion of the clamping mechanism into an abutting relationship with the clamped prong.

IPC 8 full level

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CPC (source: EP)

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**H01R 2103/00** (2013.01)

Citation (search report)

- [XYI] US 2009325427 A1 20091231 - PHILIPP ECKHARDT [DE]
- [X] US 7473123 B1 20090106 - BREEN IV DENNIS M [US], et al
- [Y] WO 2011001821 A1 20110106 - YAZAKI CORP [JP], et al
- [A] US 2007202744 A1 20070830 - DUEMMEL ROLAND [DE], et al
- [A] US 2010144187 A1 20100610 - CHAPEL STEVE [US], et al
- See references of WO 2013036966A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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