

Title (en)

MECHANICALLY SECURING AN ELECTRIC PLUG CONNECTION FOR GRID VOLTAGES

Title (de)

MECHANISCHE SICHERUNG EINER ELEKTRISCHEN STECKVERBINDUNG FÜR NETZSPANNUNGEN

Title (fr)

BLOCAGE MÉCANIQUE D'UNE CONNEXION ÉLECTRIQUE POUR DES TENSIONS DE RÉSEAU

Publication

**EP 3391476 B1 20200205 (DE)**

Application

**EP 16810074 A 20161205**

Priority

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- IB 2016057354 W 20161205

Abstract (en)

[origin: WO2017103728A1] Plug connections in alternating current grids are often disconnected accidentally due to tension acting on a cable. Plugs (1) can be mechanically secured in the protective collar (2) of couplings and sockets by means of easily actuatable keys (6) with connected claws (7). One embodiment of a secured plug connection in SCHUKO® systems solves an old problem, namely correctly pairing outer conductors and neutral conductors. If four recesses (16,16') are provided, the connection can be mechanically secured and the polarity of the connection can be reversed like before. The plug (1) can likewise be used in conventional couplings and sockets.

IPC 8 full level

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CPC (source: EP)

**H01R 13/6275** (2013.01); **H01R 13/641** (2013.01); **H01R 24/30** (2013.01); **H01R 13/633** (2013.01); **H01R 2103/00** (2013.01)

Citation (examination)

- US 4634204 A 19870106 - DETTER GARY C [US], et al
- JP 2006012635 A 20060112 - MATSUSHITA ELECTRIC WORKS LTD
- EP 1376771 A1 20040102 - POWER LOGIC HOLDINGS AG [CH]

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