

Title (en)
FRICTIONAL LOCKING RECEPTACLE WITH PROGRAMMABLE RELEASE

Title (de)
BEHÄLTER MIT REIBSCHLÜSSIGER VERRIEGELUNG UND PROGRAMMIERBARER LÖSUNG

Title (fr)
PRISE À VERROUILLAGE PAR FROTTEMENT À LIBÉRATION PROGRAMMABLE

Publication
EP 2973881 A4 20161012 (EN)

Application
EP 14763380 A 20140317

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Abstract (en)
[origin: WO2014145987A1] A method and apparatus for securing an electrical connection formed by a mating structure including prongs of a male assembly and receptacles of a female assembly are provided. In certain embodiments, the electrical connection can be secured by frictional engagement between the plug and receptacle housings. This can be accomplished by forcing a wedge into an interface between the housings or expanding a locking element, such as an elastomeric ring, into the interface. Such locking and releasing of the secure connection can be actuated using a locking nut.

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Citation (search report)
• [X] WO 2013036966 A2 20130314 - ZONIT STRUCTURED SOLUTIONS [US], et al
• [X] US 4909749 A 19900320 - LONG JASON [US]
• [X] US 5129836 A 19920714 - URSICH NELS E [US]
• [X] WO 2011130696 A2 20111020 - ZONIT STRUCTURED SOLUTIONS LLC [US], et al
• [X] US 2012115348 A1 20120510 - REAVES MARTIN S [US], et al
• See references of WO 2014145987A1

Cited by
US11289844B2; US11664677B2; WO2020191414A1; US11929582B2

Designated contracting state (EPC)
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