

Title (en)

CONNECTOR IMPERMEABLE TO LIQUIDS

Title (de)

FLÜSSIGKEITSDICHTER STECKVERBINDER

Title (fr)

CONNECTEUR ENFICHABLE ÉTANCHE AUX LIQUIDES

Publication

**EP 2218148 A1 20100818 (DE)**

Application

**EP 08857592 A 20081203**

Priority

- EP 2008010232 W 20081203
- DE 202007016950 U 20071205

Abstract (en)

[origin: US2010304593A1] A connector (1) impermeable to liquids, having two matching connector parts (3) and (5), which is sealed in a connected position by at least one peripherally extending circumferential sealing ring (6) provided between the connector parts (3) and (5). The plug-in position is secured by a rotatable, axially fixed threaded bushing (8), which is fixed in the axial direction, but rotatably supported on one of the connector parts, and the internal thread (9) of which is mated to the holding thread (10) on the other connector part. A further thread or projection or threaded part (12) mating with the interior thread (9) is provided in a loosening direction at a distance from the holding thread (10) interacting with the threaded bushing (8), and a distance A from the end of the holding thread (10) to that of the further thread (12) is greater than a plug-in depth of the connecting pins (2) into the bushings (4). The sealing ring (6) for both connector parts is disposed at a location at which it is still in the sealing position after pulling back the threaded bushing (8) that is detached from the holding thread (10). Any sparks occurring upon loosening of the contacts are therefore shielded from the environment.

IPC 8 full level

**H01R 13/622** (2006.01)

CPC (source: EP US)

**H01R 13/5219** (2013.01 - EP US); **H01R 13/622** (2013.01 - EP US)

Citation (search report)

See references of WO 2009071278A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**US 2010304593 A1 20101202**; **US 8172595 B2 20120508**; AT E505827 T1 20110415; BR PI0820034 A2 20150526; BR PI0820034 B1 20190618; CN 101889372 A 20101117; CN 101889372 B 20130327; DE 202007016950 U1 20080221; DE 502008003221 D1 20110526; EA 015565 B1 20110830; EA 201000935 A1 20101029; EP 2218148 A1 20100818; EP 2218148 B1 20110413; ES 2364233 T3 20110829; WO 2009071278 A1 20090611

DOCDB simple family (application)

**US 74493508 A 20081203**; AT 08857592 T 20081203; BR PI0820034 A 20081203; CN 200880119401 A 20081203; DE 202007016950 U 20071205; DE 502008003221 T 20081203; EA 201000935 A 20081203; EP 08857592 A 20081203; EP 2008010232 W 20081203; ES 08857592 T 20081203