

Title (en)
EXPLOSION-PROOF PLUG-IN CONNECTOR

Title (de)
EXPLOSIONSGESCHÜTZTER STECKVERBINDER

Title (fr)
CONNECTEUR A FICHE ANTIDÉFLAGRANT

Publication
EP 1925060 B1 20160525 (DE)

Application
EP 06762532 A 20060711

Priority
• EP 2006006784 W 20060711
• DE 202005010927 U 20050712

Abstract (en)
[origin: CA2614990A1] Disclosed is an explosion-proof plug-in connector (1) comprising a plug part (2) and a socket part (3). The plug part (2) encompasses a plug housing (4) with at least two plug pins (6) located in a plug insert (5) while the socket part (3) features a socket housing (7) with matching socket contacts (9) located in a socket insert (8). In order to simplify such an explosion-proof plug-in connector so as to make the same easier to handle especially when disconnecting the plug part and the socket part while maintaining the anti- explosive properties, one housing (4, 7) is provided with an outer sleeve (10) that can be removably connected to the other housing (7, 4). A first gap (11) is embodied between the outer sleeve (10) and the other housing (7, 4) while a second gap (12) is configured between the outer sleeve (10) and the associated insert (4, 8) already before electrically contacting the plug pins (6) and socket contacts (9) in order to establish type of protection d', flame-proof enclosure, as well as type of protectione', increased safety.

IPC 8 full level
H01R 13/527 (2006.01); **H01R 13/622** (2006.01)

CPC (source: EP KR NO US)
H01R 13/52 (2013.01 - KR); **H01R 13/527** (2013.01 - EP NO US); **H01R 13/622** (2013.01 - EP NO US)

Cited by
US10950966B2; WO2019057239A1; US10992080B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
HR

DOCDB simple family (publication)
DE 202005010927 U1 20061116; BR PI0613513 A2 20110111; BR PI0613513 B1 20171031; CA 2614990 A1 20070118; CA 2614990 C 20130910; CN 101223675 A 20080716; CN 101223675 B 20110622; EP 1925060 A1 20080528; EP 1925060 B1 20160525; KR 101229665 B1 20130204; KR 20080034854 A 20080422; NO 20076489 L 20080208; NO 339249 B1 20161121; RU 2008103984 A 20090820; RU 2407119 C2 20101220; US 2008311774 A1 20081218; US 7794252 B2 20100914; WO 2007006554 A1 20070118; WO 2007006554 A8 20090416

DOCDB simple family (application)
DE 202005010927 U 20050712; BR PI0613513 A 20060711; CA 2614990 A 20060711; CN 200680025511 A 20060711; EP 06762532 A 20060711; EP 2006006784 W 20060711; KR 20077030754 A 20060711; NO 20076489 A 20071218; RU 2008103984 A 20060711; US 99537706 A 20060711