

Title (en)
EXPLOSION-PROOF PLUGGABLE CONNECTOR WITH TURNABLE SOCKET CARRIER

Publication
EP 0151715 B1 19910313 (DE)

Application
EP 84114449 A 19841129

Priority
DE 3411170 A 19840327

Abstract (en)
[origin: EP0151715A2] An explosion-proof plug connector (1) contains a socket carrier (13), supported rotatably in a housing (3), having plug sockets (59) for plug pins (4) of a plug (2) which can be inserted therein. Behind the socket carrier (13), in the housing (3) there is a switching device via which the sockets (59) can be electrically connected to the associated connecting terminals (8) arranged in the housing (3). The switching device has two sets of switching contacts (61, 51), one of which is electrically connected to the sockets (59) and the other is electrically connected to the connecting terminals (8). A movable retaining member prevents twisting of the socket carrier (13) when the plug (2) is not pushed in, by which means it is ensured that the switching device can be switched on only with the plug (2) inserted. To minimise the number of switching contacts, the switching contacts (61) of the switching device which are electrically connected to the sockets (59) are anchored on the socket carrier (13) and are engaged immediately on rotation of the socket carrier (13) with the associated switching contacts (51), which are connected to the connecting terminals (8). In this way, the switching contacts (51) of at least one set are sprung. <IMAGE>

IPC 1-7
H01R 13/707

IPC 8 full level
H01R 13/707 (2006.01); **H01R 13/53** (2006.01)

CPC (source: EP)
H01R 13/707 (2013.01); **H01R 13/53** (2013.01)

Cited by
CN110086025A; US7537472B1; US7066758B2; WO0250961A3

Designated contracting state (EPC)
FR GB IT

DOCDB simple family (publication)
EP 0151715 A2 19850821; EP 0151715 A3 19871209; EP 0151715 B1 19910313; DE 3411170 A1 19851003; DE 3411170 C2 19890216

DOCDB simple family (application)
EP 84114449 A 19841129; DE 3411170 A 19840327