

Title (en)  
SHOCK-PROTECTION ELECTRICAL CONNECTOR PLUG

Publication  
**EP 0045834 A3 19820922 (DE)**

Application  
**EP 81104116 A 19810529**

Priority  
DE 3029862 A 19800807

Abstract (en)  
[origin: EP0045834A2] In an electrical connector pin, electric shock protection is achieved by means of an insulating sleeve (12) which can be moved against the force of a spring. To ensure the reliable operation of this electric shock protection, even after frequent use of the connector pin, the movable insulating sleeve (12) is protected by an automatically engaging block (14, 15, 16) against being pushed back unintentionally. In a particularly practical block (14, 15 16), which can be released manually, a projection (14) of the movable insulating sleeve (12), guided in a longitudinal slot (21) of the insulating grip (8), abuts on a locking tab (15), engaging in the longitudinal slot (21), which can be lifted out of the longitudinal slot (21) by finger pressure on an arched leaf spring (17), acting as a bellcrank; in this arrangement, the projection (14) has a surface which is approximately parallel to the abutting surface of the locking tab (15) and an oblique sliding surface on the opposite front side, which runs at an acute angle to the connector axis. <IMAGE>

IPC 1-7  
**H01R 13/44**

IPC 8 full level  
**H01R 13/453** (2006.01)

CPC (source: EP)  
**H01R 13/4538** (2013.01); **H01R 2101/00** (2013.01)

Citation (search report)  
• FR 2377714 A1 19780811 - DUPUY CLAUDE [FR]  
• DE 1915885 A1 19701015 - PIERING DIETER  
• DE 2028404 A1 19710225 - INT STANDARD ELECTRIC CORP

Cited by  
FR2696585A1; GB2258769A; FR2661563A1; EP0224222A3; FR2590731A1; GB2165403A; EP3471233A1; GB2452826B; DE102008046335B4; GB2452826A; US7785155B2; DE102012014498B4; WO9524666A1; WO9320599A1

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