

Title (en)
PLUGGABLE CONNECTION WITH A SWITCHABLE CONTACTING BRIDGE

Publication
EP 0079016 B1 19860226 (DE)

Application
EP 82110046 A 19821030

Priority
DE 3144580 A 19811110

Abstract (en)
[origin: EP0079016A1] 1. Plug-type connection having at least two contact elements (20) which can be connected to one another by means of a movable contact bridge (26) and having terminals (23) for individual electrical conductors on the one side and plug-type terminals (21) for contacts (5) of an electric plug-type connector (3) on the other side, the contact elements (20) which are electrically connected to one another by the movable contact bridge (26) being electrically separated by the exertion of pressure on the latter when the matching plug is inserted, characterised in that the plug socket insert (1) having plug receptacles consists of a plug receptacle carrier (9) and slice-shaped elements (10, 10', 10'') which are modularly joined together, are provided with contact and actuating devices and are snapped onto the plug receptacle carrier, that the insulating body of the slice-shaped elements (10, 10', 10''), which insulating body receives and retains the contact elements (20) and actuating devices (31, 32), is made up of congruent insulating slices (17), the insulating body being provided with lateral snap-on arms (15) for a snap-on attachment to the plug receptacle carrier (9) provided with corresponding catch shoulders (16), that the contact elements (20) of the slice-shaped element (10) having switching elements are bent to form a contact bridge seating shoulder (25) and are inserted and positively held in receiving recesses of the insulating slices (17), and that this slice-shaped element (10) has an electrically conducting movable contact bridge (26) for the contact elements (20) to be connected, which contact bridge (26) is provided with a compression spring (28), that at least one slice-shaped element (10') is provided which is equipped with an actuating part (32) arranged to be longitudinally displaceable in the inner space thereof, the actuating part (32) having pin-shaped extensions (31) which project through the guide apertures (39) into the apertures (8) of the plug receptacle carrier (9), and that, when the matching plug is inserted, a pressure is exerted on the movable contact bridge (26) via an electrically non-conducting pressure-transfer element (30) extending transversely through the slice-shaped elements (10, 10', 10''), the pressure being initiated by the plug pins (5), which are located in the area of the actuating part (32), pressing down when the actuating part (32) is assembled.

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H01R 13/514; H01R 13/703

IPC 8 full level
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CPC (source: EP)
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Cited by
DE102017118719A1; CN106797094A; EP1353412A3; EP0450190A1; GB2240671A; US10892572B2

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