

Title (en)
Contact arrangement

Title (de)
Kontaktvorrichtung

Title (fr)
Dispositif de connecteur

Publication
EP 0603762 B1 19961002 (EN)

Application
EP 93120408 A 19931217

Priority
SE 9203872 A 19921222

Abstract (en)
[origin: EP0603762A1] The invention relates to a contact arrangement designed as a catch connector and primarily intended for use in withdrawable apparatus for locking the plug-in contacts of the apparatus in the operating position when a short-circuit current flows through the apparatus. The arrangement comprises two contact members (40, 50) which are displaceable in relation to each other, as well as a plug-in contact device (16) which is supported by the first contact member (40) and is insertable into the second contact member (50). The two contact members (40, 50) each have two contact surfaces (43, 44 and 54, 55, respectively) facing each other. The contact device (16) comprises two cooperating elongated contact members (20, 30) with transversally projecting end portions. The two contact members form two electrically parallel-connected current paths between the two contact members. At the two end portions of the contact device, the current paths intersect each other, whereas in a relatively long middle portion of the contact device the current paths are parallel to each other thus generating an electrodynamic contact pressure reinforcement. The above-mentioned second contact member (50) has two parallel and each other opposing legs, each of which exhibits a tongue (51) which is arranged inside a locking strip (53) formed by the free end portion of the leg. Each tongue forms a contact surface for cooperation with the plug-in contact device (16). Upon a short circuit, current forces are generated which attract the two contact members (20, 30) of the contact device towards each other and force the end portions of the contact members in behind the locking strips (53), thus preventing contact separation. <IMAGE>

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