

Title (en)
HIGH-CURRENT PLUG-IN CONNECTOR FOR MOTOR VEHICLE APPLICATIONS

Title (de)
HOCHSTROM-STECKVERBINDER FÜR KRAFTFAHRZEUGANWENDUNGEN

Title (fr)
CONNECTEUR ENFICHABLE À COURANT FORT POUR APPLICATIONS DANS DES VÉHICULES À MOTEUR

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Application
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Abstract (en)
[origin: WO2013064249A1] The invention relates to a high-current (HC) plug-in connector for currents exceeding 100 A, in particular 200 A. Said high-current (HC) plug-in connector of the invention comprises a first connecting element (10) having a first contact section (11), and a second connecting element (20) having a second contact section (21). Furthermore, a spring element (30) is provided to establish an electrical connection (5) between the first and second connecting elements (10, 20). The high-current (HC) plug-in connector of the invention is characterized in that the spring element (30) comprises at least two clamping elements (32, 35) which are interconnected by at least one web (31), the web (31) and first sections (33, 36) of the clamping elements (32, 35) being arranged on a first outer surface (6) of the connection (5) formed by the first and second contact sections (11, 21), and second sections (34, 37) of the clamping elements (32, 35) being arranged at least in part on a second outer surface (7) opposite the first outer surface (6). At least one contact spring (40, 45) is arranged on the at least one web (31), said at least one contact spring (40, 45) generating, on the first outer surface (6), a contact force in the direction of the second outer surface (7) such that facing contact surfaces of the first and second contact sections (11, 21) are pressed against each other, the second sections (34, 37) of the clamping elements (32, 35) acting as abutments.

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