

Title (en)
PLUG-TYPE CONNECTOR

Title (de)
STECKVERBINDER

Title (fr)
CONNECTEUR ENFICHABLE

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Application
EP 12701983 A 20120131

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Abstract (en)
[origin: CA2831455A1] Plug-type connector, in particular charging plug or heavy-duty plug, comprising a housing consisting of an electrically insulating material and comprising at least one first contact element consisting of an electrically conductive material and arranged in the housing, wherein the housing has a plugging-side end, which is designed for plugging connection to a complementary plug-type connector, and a cable-side end, which is designed for electrical and mechanical connection to an electrically conductive cable, and wherein the at least one first contact element has a free end, which faces the plugging-side end, wherein at least one second contact element, which is electrically conductively connected to the first contact element and consists of an electrically conductive material, is arranged in the housing, wherein the first contact element has a first plate-shaped section and the second contact element has a second plate-shaped section, wherein the second contact element has an end which faces the cable-side end of the plug-type connector and is designed for electrical connection to the cable, wherein the plate-shaped sections of the two contact elements are arranged parallel to one another and facing one another in such a way that the plate-shaped sections at least partially overlap one another in the direction perpendicular thereto in an overlap region and are at a specific distance from one another, wherein for the electrically conductive connection of the first contact element to the second contact element, at least one helical spring consisting of an electrically conductive and spring-elastic material is provided between the mutually facing plate-shaped sections in the overlap region, said helical spring making electrical contact with the first contact element in the first plate-shaped section at at least one first contact area with a first contact pressure and making electrical contact with the second electrical contact element in the second plate-shaped section at at least one second contact area with a second contact pressure.

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