

Title (en)
PRESSURE COMPENSATED PLUG CONNECTOR

Title (de)
DRUCKAUSGEGLICHENER STECKVERBINDER

Title (fr)
CONNECTEUR ENFICHABLE A COMPENSATION DE PRESSION

Publication
EP 1287590 A1 20030305 (DE)

Application
EP 01943118 A 20010518

Priority
• DE 0101921 W 20010518
• DE 10025140 A 20000520

Abstract (en)
[origin: US2003181086A1] A pressure compensated plug connector is provided for making an electrical connection under water. The connector includes a plug part provided with contact pins, a socket part having a casing for receiving a plurality of female contacts. A front plate is also included in the connector having a number of openings which correspond to the number of female contacts employed therein. The casing has at least one pressure compensating bore for compensating pressure between an inner space of the casing and the surrounding environment. A membrane separates an outer space communicating with the pressure compensating bore from an inner space filled with a non-conductive fluid surrounding the female contacts. The female contacts include a sealing sleeve adjacent to the opening, a front contact support, a sliding piston, a spring for applying force to the sliding piston, an outlet valve located between the sealing sleeve and the front contact support which connects the space occupied by the sliding piston in the unplugged state and opens to the inner space when the contact pin is inserted into the female contact, and an inlet valve located in the rear of the female contact which allows for the flow of fluid into the female contact when the contact pin is pulled out.

IPC 1-7
H01R 13/523

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
See references of WO 0191244A1

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