

Title (en)

SUBSEA CONNECTOR AND METHOD OF ELECTRICALLY CONNECTING TWO PINS IN A SUBSEA ENVIRONMENT

Title (de)

UNTERWASSERVERBINDER UND VERFAHREN ZUM ELEKTRISCHEN VERBINDEN VON ZWEI STIFTEN IN EINER UNTERWASSERUMGEBUNG

Title (fr)

CONNECTEUR SOUS-MARIN ET MÉTHODE POUR CONNECTER ÉLECTRIQUEMENT DEUX BROCHES EN MILIEU SOUS-MARIN

Publication

EP 3376605 A1 20180919 (EN)

Application

EP 17160860 A 20170314

Priority

EP 17160860 A 20170314

Abstract (en)

It is described a connector (103, 403) for electrically connecting two pins (409, 451) in a subsea environment, the connector comprising: a conductive sleeve (105) for sliding in the two pins from opposite sides and for electrically contacting the two pins with each other; for each pin (109, 409, 451), a rubber ring (113, 114) surrounding a portion of the respective pin axially outside the conductive sleeve; an elastomer moulding (115) surrounding the conductive sleeve and the two rubber rings; a casing (117) providing an internal space (119) fillable with oil, a diaphragm (121) in a wall of the casing allowing compensation of the pressure in the internal space with an outside pressure, wherein the elastomer moulding (115), the rubber rings (113, 114) and the conductive sleeve (105) are located within the internal space (119), wherein the rubber rings are configured to at least partly transmit a pressure applied to the elastomer moulding towards radially inwards.

IPC 8 full level

H01R 13/523 (2006.01); **H01R 13/533** (2006.01); **H01R 13/52** (2006.01)

CPC (source: EP)

H01R 13/523 (2013.01); **H01R 13/533** (2013.01); **H01R 13/521** (2013.01)

Citation (applicant)

WO 2016146667 A2 20160922 - SIEMENS AG [DE]

Citation (search report)

- [A] EP 1381117 A2 20040114 - NEXANS [FR]
- [A] EP 2811584 A1 20141210 - SIEMENS AG [DE]
- [AD] WO 2016146667 A2 20160922 - SIEMENS AG [DE]
- [A] WO 2011060075 A2 20110519 - TELEDYNE ODI INC [US], et al

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WO2023146964A1; WO2023186962A1; FR3134251A1

Designated contracting state (EPC)

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