

Title (en)

A CONDUCTOR ASSEMBLY COMPRISING A RESILIENT TUBULAR OUTER CASING

Title (de)

LEITERANORDNUNG MIT EINEM ELASTISCHEN ROHRFÖRMIGEN AUSSENGEHÄUSE

Title (fr)

ENSEMBLE CONDUCTEUR COMPRENANT UNE ENVELOPPE EXTERNE TUBULAIRE ÉLASTIQUE

Publication

**EP 3157606 A1 20170426 (EN)**

Application

**EP 15809576 A 20150617**

Priority

- SE 1400311 A 20140619
- SE 2015000037 W 20150617

Abstract (en)

[origin: WO2015195023A1] The invention relates to a conductor assembly comprising a resilient tubular outer casing (1) with a flexible printed circuit board (6) in the outer casing's interior. On the circuit board a sensor (3) is arranged. A cavity (8a-c) in the outer casing adjacent to the sensor is filled with a rigid filling material (9). Where the rigid filling material extends in the lengthwise direction of the tubular outer casing (1) at least from one side of the sensor to the opposite side of the sensor. This means that the sensor will not be affected when the conductor assembly is bent or otherwise affected mechanically. The conductor assembly's outer casing (1) comprises an opening (7a-c) to a cavity (8a-c) in the outer casing in connection to the sensor, through which a filling material can be supplied in liquid form. Typically the conductor assembly includes two cavities (8a-b) in the outer casing on the side of the flexible circuit board (6) where the sensor is mounted, the two cavities being on either side of the sensor, and a third cavity (8c) in the outer casing on the side of the flexible circuit board (6) which is opposite to the sensor. In an advantageous embodiment the extension of at least one cavity (8a-c) in the outer casing is limited by bumps (4a-f) on either side of the cavity thus defining the cavity. Injected filler material propagation is governed by these bumps to the relevant space. Typically, the conductor assembly is a catheter or part of a catheter.

IPC 8 full level

**A61M 25/00** (2006.01); **G01L 7/00** (2006.01); **H05K 1/02** (2006.01)

CPC (source: EP SE)

**A61B 5/0215** (2013.01 - EP); **A61M 25/00** (2013.01 - EP SE); **G01L 19/147** (2013.01 - EP); **G01L 19/149** (2013.01 - EP); **H05K 1/189** (2013.01 - EP); **H05K 3/28** (2013.01 - EP); **A61B 5/6852** (2013.01 - EP); **A61B 2562/166** (2013.01 - EP); **A61M 2025/0002** (2013.01 - EP SE); **G01L 7/00** (2013.01 - SE); **G01L 19/06** (2013.01 - EP); **G01L 19/148** (2013.01 - EP); **H05K 1/02** (2013.01 - SE); **H05K 2201/0162** (2013.01 - EP); **H05K 2201/09136** (2013.01 - EP); **H05K 2201/10151** (2013.01 - EP); **H05K 2201/2009** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2015195023 A1 20151223**; EP 3157606 A1 20170426; EP 3157606 A4 20180404; SE 1400311 A1 20151220; SE 539551 C2 20171010

DOCDB simple family (application)

**SE 2015000037 W 20150617**; EP 15809576 A 20150617; SE 1400311 A 20140619