

Title (en)

STIMULATION DEVICE WITH CHANGE OF SHAPE USING SHAPE-MEMORY ELEMENT

Title (de)

STIMULATIONSGERÄT MIT FORMÄNDERUNG MITTELS FORMGEDÄCHTNISELEMENT

Title (fr)

DISPOSITIF DE STIMULATION AVEC DÉFORMATION AU MOYEN D'UN ÉLÉMENT À MÉMOIRE DE FORME

Publication

**EP 3191066 A1 20170719 (DE)**

Application

**EP 15774516 A 20150908**

Priority

- DE 102014112874 A 20140908
- EP 2015070485 W 20150908

Abstract (en)

[origin: WO2016038028A1] The invention relates to a stimulation device, comprising a base body (1) and a contact element (5) which is attached on or in the base body, and which is intended for contacting with a body part of the user, said contact element having at least one reversibly deformable contact surface region (6), wherein at least one shaping element (2), designed to generate a local deformation of the contact element without deforming the base body, is arranged on or in the base body such that it can move in relation to the base body, and at least one actuation device is arranged on or in the base body and is operatively connected to the shaping element in order to generate a movement of the at least one shaping element, which actuation device comprises at least one shape-memory element (7) that can be deformed by applying an electrical current and/or a magnetic field and/or by changing the temperature, said shape-memory element being connected to the base body on one side and to the shaping element on the other side, and, by deforming, causing a movement of the at least one shaping element.

IPC 8 full level

**A61H 19/00** (2006.01); **A61H 21/00** (2006.01)

CPC (source: EP US)

**A61H 19/44** (2013.01 - EP US); **A61H 21/00** (2013.01 - EP US); **A61H 23/02** (2013.01 - EP US); **A61H 2201/0207** (2013.01 - EP US); **A61H 2201/1215** (2013.01 - EP); **A61H 2201/123** (2013.01 - EP US); **A61H 2201/149** (2013.01 - EP US); **A61H 2201/1654** (2013.01 - EP US); **A61H 2201/1664** (2013.01 - EP US); **A61H 2201/1676** (2013.01 - EP US); **A61H 2201/501** (2013.01 - EP US); **A61H 2201/5043** (2013.01 - EP US); **A61H 2201/5046** (2013.01 - EP US); **A61H 2201/5097** (2013.01 - EP US)

Citation (search report)

See references of WO 2016038028A1

Citation (examination)

US 2015359703 A1 20151217 - RICHARDSON II WILLIAM WALLACE [US]

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 2016038028 A1 20160317**; CN 106794108 A 20170531; EP 3191066 A1 20170719; US 2017281459 A1 20171005; WO 2016038031 A1 20160317

DOCDB simple family (application)

**EP 2015070485 W 20150908**; CN 201580048093 A 20150908; EP 15774516 A 20150908; EP 2015070489 W 20150908; US 201515507019 A 20150908