Title (en)

FLEXIBLE CIRCUIT FOR AN IMPANTABLE DEVICE

Title (de)

FLEXIBLE SCHALTUNG FÜR EINE IMPLANTIERBARE VORRICHTUNG

Title (fr)

CIRCUIT FLEXIBLE DESTINÉ À UN DISPOSITIF IMPLANTABLE

Publication

EP 3283166 A4 20190116 (EN)

Application

EP 16780981 A 20160418

Priority

- US 201562148806 P 20150417
- US 2016028041 W 20160418

Abstract (en)

[origin: WO2016168798A1] A flexible circuit includes a substrate; one or more radio-frequency (RF) ports on the substrate, the ports configured to couple to RF antennas configured to receive RF pulses from an external controller device; one or more banks of components on the substrate, the one or more banks of components configured to extract RF energy from the received RF pulses and to deliver electrical pulses suitable to stimulate neural tissue; an integrated circuit (IC) component on the substrate, the IC component configured to generate the electrical pulses suitable to stimulate neural tissue solely based on the extracted RF energy; and wherein the substrate, the one or more banks of components, and the integrated circuit component are sized and positioned on the substrate such that the flexible circuit flexes during implantation in a patient without becoming inoperable.

IPC 8 full level

A61N 1/372 (2006.01); **A61N 1/05** (2006.01); **A61N 1/36** (2006.01)

CPC (source: EP)

A61N 1/37205 (2013.01); **A61N 1/3787** (2013.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2016168798A1

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

DOCDB simple family (publication)

WO 2016168798 A1 20161020; AU 2016249420 A1 20171109; AU 2019200386 A1 20190207; CN 107614057 A 20180119; EP 3283166 A1 20180221; EP 3283166 A4 20190116

DOCDB simple family (application)

US 2016028041 W 20160418; AU 2016249420 A 20160418; AU 2019200386 A 20190121; CN 201680031309 A 20160418; EP 16780981 A 20160418