

Title (en)
MINIATURE STEROID ELUTING PACING LEAD ELECTRODE

Publication
EP 0538368 A4 19950419 (EN)

Application
EP 91913321 A 19910611

Priority
US 53910290 A 19900615

Abstract (en)
[origin: WO9119533A1] A small diameter, unipolar or bipolar, atrial or ventricular transvenous or epimyocardial pacing lead with a porous, platinized, steroid eluting cathode electrode exhibiting an effective surface area in the range of 0.1 to 4.0 mm², preferably 0.6 to 3.0 mm², provides low stimulation thresholds in the range of 0.5 volts, 0.5 milliseconds, very high pacing impedance (800 to 2,000 OMEGA), relatively low polarization, good to excellent sensing, and adequately low source impedance. The high pacing impedance prolongs the longevity of pacing pulse generators and allows for the miniaturization of their components. The low thresholds allow large safety factors at low applied voltages, which also contribute to increased battery longevity.

IPC 1-7
A61N 1/05

IPC 8 full level
A61N 1/04 (2006.01); **A61N 1/05** (2006.01); **A61N 1/365** (2006.01)

CPC (source: EP)
A61N 1/0568 (2013.01)

Citation (search report)
• [A] US 4280514 A 19810728 - MACGREGOR DAVID C
• [DA] US 3476116 A 19691104 - PARSONNET VICTOR, et al
• [XA] STOKES: "implantable pacing lead technology", IEEE ENGINEERING IN MEDICINE AND BIOLOGY MAGAZINE, vol. 9, no. 2, 1 June 1990 (1990-06-01), NEW YORK US, pages 43 - 49, XP000173571, DOI: doi:10.1109/51.57868
• See references of WO 9119533A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 9119533 A1 19911226; AU 652377 B2 19940825; AU 8224891 A 19920107; CA 2085369 A1 19911216; EP 0538368 A1 19930428; EP 0538368 A4 19950419; JP 3300954 B2 20020708; JP H06501169 A 19940210

DOCDB simple family (application)
US 9104122 W 19910611; AU 8224891 A 19910611; CA 2085369 A 19910611; EP 91913321 A 19910611; JP 51241591 A 19910611