

Title (en)

LARGE-SCALE PROCESSING LOOP FOR IMPLANTABLE MEDICAL DEVICES

Title (de)

GROSSMASSIGE VERARBEITUNGSSCHLEIFE FÜR IMPLANTIERBARE MEDIZINISCHE GERÄTE

Title (fr)

BOUCLE DE TRAITEMENT DE GRANDE PUISSANCE DESTINEE A DES DISPOSITIFS MEDICAUX IMPLANTABLES

Publication

EP 1244993 A2 20021002 (EN)

Application

EP 00988167 A 20001219

Priority

- US 0034520 W 20001219
- US 17307999 P 19991224

Abstract (en)

[origin: WO0148675A2] A communication system is provided which permits communication between a deployed implantable medical device (IMD) and a large-scale powerful computer capable of manipulating complex nonlinear modeling of physiologic systems, and also capable of accounting for large amounts of historical data from a particular patient or a cohort group for improved modeling and predictive power, which may be expected to lead to improved patient outcomes. A deployed IMD may be polled by a routing instrument external to the host patient, and data may be received by wireless communication. This data may be transmitted to a central large-scale or other relatively powerful computer for processing according to an appropriate model. A treatment or instruction regimen, as well as appropriate firmware or software upgrades, may then be transmitted to the routing instrument for immediate or eventual loading into the IMD via wireless communication.

IPC 1-7

G06F 19/00

IPC 8 full level

A61N 1/372 (2006.01); **G06F 9/445** (2006.01); **G16H 40/40** (2018.01); **G16H 40/67** (2018.01); **A61B 5/00** (2006.01)

CPC (source: EP US)

A61N 1/37264 (2013.01 - EP US); **A61N 1/37282** (2013.01 - EP); **G06F 8/65** (2013.01 - EP); **G16H 40/40** (2017.12 - EP US); **G16H 40/67** (2017.12 - EP US); **G16H 50/20** (2017.12 - EP); **A61B 5/0031** (2013.01 - EP); **A61B 5/7217** (2013.01 - EP)

Citation (search report)

See references of WO 0148675A2

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

WO 0148675 A2 20010705; **WO 0148675 A3 20020530**; EP 1244993 A2 20021002

DOCDB simple family (application)

US 0034520 W 20001219; EP 00988167 A 20001219