

Title (en)

DIVERSITY ANTENNA CONTROL FOR IMPLANTABLE MEDICAL DEVICE TELEMTRY

Title (de)

DIVERSITÄTSANTENNEN-STEUERUNG FÜR DIE TELEMETRIE EINES IMPLANTIERBAREN MEDIZINISCHEN GERÄTES

Title (fr)

COMMANDE D'ANTENNE A RECEPTION SIMULTANEE POUR TELEMETRIE DE DISPOSITIFS MEDICAUX IMPLANTABLES

Publication

EP 1863565 A1 20071212 (EN)

Application

EP 06736412 A 20060228

Priority

- US 2006007092 W 20060228
- US 6847605 A 20050228
- US 6847805 A 20050228

Abstract (en)

[origin: WO2006093964A1] A far-field radio frequency (RF) telemetry system for communicating with an implantable medical device includes a diversity antenna system. In one embodiment, an antenna control circuit selects an antenna of the diversity antenna system for transmitting the outgoing data frames and/or receiving the response data frames based the quality of signal reception associated with response data frames sent by the implantable medical device. In another embodiment, an antenna control circuit selects one or more antennas of the diversity antenna system for reducing potential data transmission errors associated with nulls encountered by the telemetry system due to environmental reflections of RF electromagnetic waves.

IPC 8 full level

A61N 1/372 (2006.01); **H04B 7/04** (2006.01); **H04L 1/06** (2006.01)

CPC (source: EP US)

A61N 1/37223 (2013.01 - EP US); **A61N 1/37252** (2013.01 - EP US); **A61N 1/37254** (2017.07 - EP US); **H04B 7/0608** (2013.01 - EP); **H04B 7/0814** (2013.01 - EP); **A61B 5/0031** (2013.01 - EP); **A61N 1/3727** (2013.01 - EP)

Citation (search report)

See references of WO 2006093964A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006093964 A1 20060908; EP 1863565 A1 20071212; JP 2008532426 A 20080814

DOCDB simple family (application)

US 2006007092 W 20060228; EP 06736412 A 20060228; JP 2007558134 A 20060228