

Title (en)

ARRANGEMENT FOR RECEIVING ELECTRICAL SIGNALS FROM LIVING CELLS AND FOR THE SELECTIVE TRANSMISSION OF ELECTRICAL STIMULATION TO LIVING CELLS

Title (de)

ANORDNUNG ZUR AUFNAHME VON ELEKTRISCHEN SIGNALEN VON LEBENDEN ZELLEN UND ZUR STIMULATION

Title (fr)

DISPOSITIF POUR RECEVOIR DES SIGNAUX ELECTRIQUES ISSUS DE CELLULES VIVANTES ET POUR TRANSMETTRE DE FAON SELECTIVE DES STIMULATIONS ELECTRIQUES A DES CELLULES VIVANTES

Publication

EP 1476218 A2 20041117 (DE)

Application

EP 03706118 A 20030219

Priority

- AT 0300055 W 20030219
- AT 2512002 A 20020219

Abstract (en)

[origin: WO03070316A2] The invention relates to an arrangement for coupling a living cell, especially a neurone, to an electronic circuit for receiving directly or indirectly electrically active cell signals and/or for electrically stimulating the cell. Said arrangement comprises a passive electronic element (C1, R1) which is connected to a reference potential (M) by means of a connection and is connected to a switched output of an electronic switch (T1) by means of another connection. The input of said switch can be connected to a signal source or a voltage source (point B). An electroconductive contact element (1) can be brought into contact with the cell (2) and is connected between the output of the electrical switch (point P) and the connection of the passive electronic component (C1, R1) which is connected to said output.

IPC 1-7

A61N 1/00

IPC 8 full level

A61N 1/32 (2006.01); **A61N 1/34** (2006.01); **G01N 33/487** (2006.01); **G06N 3/06** (2006.01); **A61N 1/08** (2006.01)

CPC (source: EP US)

A61N 1/326 (2013.01 - EP); **G01N 33/48728** (2013.01 - EP US); **G06N 3/061** (2013.01 - EP); **A61N 1/36017** (2013.01 - EP)

Citation (search report)

See references of WO 03070316A2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 03070316 A2 20030828; **WO 03070316 A3 20040108**; AU 2003208165 A1 20030909; AU 2003208165 A8 20030909; EP 1476218 A2 20041117

DOCDB simple family (application)

AT 0300055 W 20030219; AU 2003208165 A 20030219; EP 03706118 A 20030219