

Title (en)

DEVICE FOR FUNCTIONAL ELECTRICAL STIMULATION AND MEASUREMENT OF ELECTROMYOGRAM, COMPRISING MEANS FOR SHORT-CIRCUITING AND EARTHING A PAIR OF ELECTRODES, AND ASSOCIATED TRANSCUTANEOUS ELECTRODE

Title (de)

VORRICHTUNG ZUR FUNKTIONELLEN ELEKTROSTIMULATION UND ELEKTROMYOGRAMMMESSUNG MIT VORRICHTUNG ZUR KURZSCHLIESSUNG UND ERDUNG EINES ELEKTRODENPAARES UND ZUGEHÖRIGE TRANSKUTANE ELEKTRODE

Title (fr)

DISPOSITIF DE STIMULATION ÉLECTRIQUE FONCTIONNELLE ET DE MESURE D'ÉLECTROMYOGRAMME AVEC DES MOYENS POUR METTRE EN COURT CIRCUIT ET À LA MASSE UNE PAIRE D'ÉLECTRODES ET UNE ÉLECTRODE TRANSCUTANÉE ASSOCIÉE

Publication

EP 3261709 A1 20180103 (FR)

Application

EP 16707216 A 20160219

Priority

- CH 2622015 A 20150226
- CH 2632015 A 20150226
- IB 2016050896 W 20160219

Abstract (en)

[origin: WO2016135600A1] The present invention relates to a device for functional electrical stimulation and for measurement of electromyogram comprising: - at least one pair of active electrodes (6, 7) intended to be placed on the skin of a user; - at least one stimulation module (2) able to generate electric pulses; - at least one measurement module (3) able to receive electric pulses; - a monitoring and processing unit (1) linked electrically to said stimulation and measurement modules, said monitoring and processing unit being able to monitor the electric pulses generated by said stimulation module and to process the electric pulses received by said measurement module; and - a switching station (5) linked electrically to said stimulation and measurement modules, to said monitoring and processing module and to said pair of active electrodes, said switching station being able to electrically connect said pair of active electrodes with, either, the stimulation module, in the case where the pair of active electrodes has to be used to stimulate a muscle of the user, or, the measurement module, in the case where the pair of active electrodes has to be used to measure the reaction of the muscle, said switching station being able to momentarily short-circuit and earth said pair of active electrodes so as to eliminate any residual voltage at the level of said active electrodes.

IPC 8 full level

A61N 1/36 (2006.01); **A61B 5/296** (2021.01); **A61N 1/08** (2006.01)

CPC (source: EP KR US)

A61B 5/266 (2021.01 - KR); **A61B 5/273** (2021.01 - KR); **A61B 5/296** (2021.01 - KR); **A61B 5/30** (2021.01 - EP); **A61B 5/313** (2021.01 - KR US); **A61B 5/389** (2021.01 - EP KR); **A61B 5/395** (2021.01 - US); **A61N 1/0452** (2013.01 - EP KR US); **A61N 1/36003** (2013.01 - EP KR US); **A61N 1/36014** (2013.01 - KR); **A61N 1/3603** (2017.08 - KR); **A61N 1/36031** (2017.08 - EP US); **A61N 1/36034** (2017.08 - EP US); **A61B 2562/0209** (2013.01 - KR); **A61B 2562/222** (2013.01 - KR)

Cited by

FR3083123A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2016135600 A1 20160901; CN 107530539 A 20180102; EP 3261709 A1 20180103; JP 2018507763 A 20180322; KR 20170137069 A 20171212; US 2018093091 A1 20180405

DOCDB simple family (application)

IB 2016050896 W 20160219; CN 201680021560 A 20160219; EP 16707216 A 20160219; JP 2017563392 A 20160219; KR 20177026515 A 20160219; US 201615554057 A 20160219