

Title (en)

HANDHELD DEVICES FOR USE IN MEDICAL PROCEDURES

Title (de)

TRAGBARE VORRICHTUNGEN ZUR VERWENDUNG BEI MEDIZINISCHEN EINGRIFFEN

Title (fr)

DISPOSITIFS PORTATIFS DESTINÉS À ÊTRE UTILISÉS DANS DES INTERVENTIONS MÉDICALES

Publication

EP 4287964 A1 20231213 (EN)

Application

EP 22750529 A 20220207

Priority

- US 202117170491 A 20210208
- US 2022015481 W 20220207

Abstract (en)

[origin: WO2022170185A1] The invention is a system and a device for use in open or minimally invasive surgical procedures, such as a bone implant fixation procedure. The device is configured to perform various functions during a bone implant fixation procedure, including performing at least one of: penetration of a bone to form a hole or opening for receipt of a screw; neuromonitoring, in cooperation with a neuromonitoring device, of the hole during, or post-, formation of the hole so as to sense any nearby nerves adjacent to the hole that may be in the path of a screw, or otherwise affected, when a screw is placed within the hole; neurostimulation, in cooperation with a neuromonitoring device, of nerves adjacent to the hole during, or post-, formation of the hole; and measuring of a depth of the hole and providing a digital measurement of the depth to assist the surgeon in selecting the appropriate length of screw.

IPC 8 full level

A61B 17/16 (2006.01); **A61B 17/56** (2006.01); **A61B 17/58** (2006.01); **A61B 17/68** (2006.01); **A61B 17/88** (2006.01); **A61B 18/14** (2006.01)

CPC (source: EP)

A61B 17/1655 (2013.01); **A61B 17/1671** (2013.01); **A61B 17/1604** (2013.01); **A61B 17/844** (2013.01); **A61B 17/8897** (2013.01); **A61B 2017/00407** (2013.01)

Citation (search report)

See references of WO 2022170185A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022170185 A1 20220811; EP 4287964 A1 20231213; JP 2024506167 A 20240209

DOCDB simple family (application)

US 2022015481 W 20220207; EP 22750529 A 20220207; JP 2023547628 A 20220207