

Title (en)
SYSTEMS AND METHODS FOR VISUALIZING ANATOMY, LOCATING MEDICAL DEVICES, OR PLACING MEDICAL DEVICES

Title (de)
SYSTEME UND VERFAHREN ZUR VISUALISIERUNG EINER ANATOMIE, ZUR LOKALISIERUNG VON MEDIZINISCHEN VORRICHTUNGEN ODER ZUR PLATZIERUNG VON MEDIZINISCHEN VORRICHTUNGEN

Title (fr)
SYSTÈMES ET PROCÉDÉS DE VISUALISATION DE L'ANATOMIE, DE LOCALISATION DE DISPOSITIFS MÉDICAUX, OU DE POSITIONNEMENT DE DISPOSITIFS MÉDICAUX

Publication
EP 3801245 A4 20220302 (EN)

Application
EP 19815710 A 20190603

Priority

- US 201862680299 P 20180604
- US 201816209601 A 20181204
- US 201916370353 A 20190329
- US 2019035271 W 20190603

Abstract (en)
[origin: WO2019236505A1] A medical device-placing system including a medical-device tip-location sensor ("TLS") configured for placement on a chest of a patient, an ultrasound probe, a console, and an alternative-reality headset. The ultrasound probe can be configured to emit ultrasound signals into the patient and receive echoed ultrasound signals from the patient. The console can be configured to transform the echoed ultrasound signals to produce ultrasound-image segments corresponding to anatomical structures of the patient, as well as transform TLS signals from the TLS into location information for a medical device within the patient. The alternative-reality headset can include a display screen through which a wearer of the alternative-reality headset can see the patient. The display screen can be configured to display over the patient a virtual medical per the location information for the medical device within objects of virtual anatomy corresponding to the ultrasound-image segments.

IPC 8 full level
A61B 34/00 (2016.01); **A61B 5/00** (2006.01); **A61B 5/02** (2006.01); **A61B 5/06** (2006.01); **A61B 8/00** (2006.01); **A61B 8/08** (2006.01); **A61B 90/00** (2016.01); **G06T 19/00** (2011.01); **A61B 5/05** (2021.01); **A61B 17/00** (2006.01); **A61B 34/20** (2016.01); **A61B 90/30** (2016.01); **A61B 90/50** (2016.01)

CPC (source: EP US)
A61B 5/0077 (2013.01 - EP); **A61B 5/02007** (2013.01 - EP); **A61B 5/062** (2013.01 - EP); **A61B 5/318** (2021.01 - US); **A61B 5/743** (2013.01 - EP); **A61B 8/0841** (2013.01 - EP); **A61B 8/0883** (2013.01 - EP); **A61B 8/4209** (2013.01 - EP); **A61B 8/461** (2013.01 - EP); **A61B 8/462** (2013.01 - EP); **A61B 8/466** (2013.01 - EP); **A61B 8/5246** (2013.01 - EP); **A61B 8/5253** (2013.01 - EP); **A61B 34/25** (2013.01 - EP); **A61B 90/36** (2016.02 - EP); **G06T 19/00** (2013.01 - EP); **A61B 5/05** (2013.01 - EP); **A61B 5/318** (2021.01 - EP); **A61B 5/6847** (2013.01 - EP); **A61B 8/0891** (2013.01 - EP); **A61B 8/488** (2013.01 - EP); **A61B 2017/00207** (2013.01 - EP); **A61B 2017/00216** (2013.01 - EP); **A61B 2017/00243** (2013.01 - EP); **A61B 2034/2048** (2016.02 - EP); **A61B 2034/2051** (2016.02 - EP); **A61B 2090/309** (2016.02 - EP); **A61B 2090/364** (2013.01 - EP); **A61B 2090/365** (2016.02 - EP); **A61B 2090/372** (2016.02 - EP); **A61B 2090/378** (2016.02 - EP); **A61B 2090/502** (2016.02 - EP); **G06T 2210/41** (2013.01 - EP); **G06T 2219/028** (2013.01 - EP)

Citation (search report)

- [YA] EP 1504713 A1 20050209 - SURGICAL NAVIGATION TECH [US]
- [YA] US 2018144550 A1 20180524 - VAXMAN YARON [IL], et al
- [YA] WO 2016133644 A1 20160825 - COVIDIEN LP [US]
- See also references of WO 2019236505A1

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

DOCDB simple family (publication)
WO 2019236505 A1 20191212; CN 112236077 A 20210115; EP 3801245 A1 20210414; EP 3801245 A4 20220302

DOCDB simple family (application)
US 2019035271 W 20190603; CN 201980037260 A 20190603; EP 19815710 A 20190603