

Title (en)

A ROBOTIC ARM FOR AN INTEGRATED COMPUTED TOMOGRAPHY (CT) TREATMENT COUCH SYSTEM

Title (de)

ROBOTERARM FÜR EIN INTEGRIERTES COMPUTERTOMOGRAFIE (CT)-BEHANDLUNGSLIEGENSYSTEM

Title (fr)

BRAS ROBOTIQUE POUR SYSTÈME DE TABLE DE TRAITEMENT DE TOMODENSITOMÉTRIE (CT) INTÉGRÉE

Publication

**EP 3813669 A4 20210825 (EN)**

Application

**EP 19825248 A 20190628**

Priority

- US 201862692441 P 20180629
- US 2019039963 W 20190628

Abstract (en)

[origin: WO2020006500A1] An integrated computed tomography (CT) treatment couch system includes a robotic arm component that includes a base structure and an adjustable arm mounted to a portion of the base structure. The integrated CT treatment couch system includes a treatment couch disposed on, and coupled to, the adjustable arm, where the treatment couch is configured to support a patient for a particle therapy procedure. The integrated CT treatment couch system includes a helical CT scanner device that includes a support structure and a CT gantry. The support structure is coupled to the base structure at, or proximate to, the portion of the base structure, and the CT gantry includes a bore and is oriented such that the bore is in line with the treatment couch. The CT gantry is configured to provide on-line CT scans for image guidance relating to the particle therapy procedure.

IPC 8 full level

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CPC (source: EP)

**A61B 6/027** (2013.01); **A61B 6/032** (2013.01); **A61B 6/0407** (2013.01); **A61B 6/0487** (2020.08); **A61N 5/1049** (2013.01); **A61B 6/4078** (2013.01); **A61B 6/4405** (2013.01)

Citation (search report)

- [X] WO 2018055001 A1 20180329 - VARIAN MEDICAL SYSTEMS INT AG [CH]
- [XI] WO 2018044726 A1 20180308 - ACCURAY INC [US]
- [A] WO 2011041412 A2 20110407 - TOMOTHERAPY INC [US], et al
- See references of WO 2020006500A1

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 2020006500 A1 20200102**; CN 112638260 A 20210409; EP 3813669 A1 20210505; EP 3813669 A4 20210825

DOCDB simple family (application)

**US 2019039963 W 20190628**; CN 201980056830 A 20190628; EP 19825248 A 20190628