

Title (en)

INSTRUMENT INSERTION CARRIAGE FOR ROBOTIC SURGICAL TOOLS

Title (de)

INSTRUMENTENEINFÜHRUNGSWAGEN FÜR ROBOTISCHE CHIRURGISCHE WERKZEUGE

Title (fr)

CHARIOT D'INSERTION D'INSTRUMENTS D'OUTILS CHIRURGICAUX ROBOTIQUES

Publication

EP 4149382 A2 20230322 (EN)

Application

EP 21736541 A 20210621

Priority

- US 202016946428 A 20200622
- US 202016946429 A 20200622
- US 202016946430 A 20200622
- EP 2021066792 W 20210621

Abstract (en)

[origin: WO2021259845A2] A robotic surgical tool for a robotic instrument driver that includes a handle having a first end, at least one spline rotatably coupled to the handle and extending proximally from the first end, a carriage movably mounted to the at least one spline and including a first layer and a second layer operatively coupled to the first layer. At least one spline extends through a portion of at least one of the first and second layers and the carriage translates along the at least one spline. The robotic surgical tool also includes an elongate shaft extending from the carriage and penetrating the first end, the shaft having an end effector arranged at a distal end thereof and an activating mechanism coupled to one or both of the first and second layers and actuatable to operate a function of the end effector.

IPC 8 full level

A61B 34/30 (2016.01); **A61B 17/00** (2006.01)

CPC (source: EP)

A61B 34/30 (2016.02); **A61B 17/07207** (2013.01); **A61B 2017/00477** (2013.01); **A61B 2017/00845** (2013.01); **A61B 2017/00991** (2013.01); **A61B 2034/2051** (2016.02); **A61B 2090/571** (2016.02)

Citation (search report)

See references of WO 2021259845A2

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 2021259845 A2 20211230; **WO 2021259845 A3 20220317**; CN 115916092 A 20230404; EP 4149382 A2 20230322

DOCDB simple family (application)

EP 2021066792 W 20210621; CN 202180044364 A 20210621; EP 21736541 A 20210621