

Title (en)

MACHINE AND CONTROL SYSTEM OF A ROBOTIC DEVICE

Title (de)

MASCHINE UND STEUERUNGSSYSTEM EINES ROBOTERS

Title (fr)

MACHINE ET SYSTÈME DE COMMANDE D'UN DISPOSITIF ROBOTISÉ

Publication

EP 4096552 A1 20221207 (EN)

Application

EP 21707370 A 20210201

Priority

- IT 202000001900 A 20200131
- IB 2021050767 W 20210201

Abstract (en)

[origin: WO2021152556A1] A control method for a robotic manipulator cooperating with the surgeon, in particular for application in spine surgery, specifically in a tapping operation of the vertebral peduncles. The general aim of the invention is to guarantee to the surgeon to have a continuous control of the force/torque applied on the vertebral peduncles whereas the robotic arm constraints the position and orientation of the surgical instrument along the axis of motion identified in the pre-operative phase. The method provides that the surgeon controls directly and continuously the interaction forces/torques along the tapping axis, whereas the robotic arm constraints the position and orientation of the surgical instrument in the directions orthogonal to the tapping axis identified in pre-operative phase.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2021152556A1

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DOCDB simple family (publication)

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