

Title (en)

ROBOT MOUNTED CAMERA REGISTRATION AND TRACKING SYSTEM FOR ORTHOPEDIC AND NEUROLOGICAL SURGERY

Title (de)

ROBOTERMONTIERTES KAMERAREGISTRIERUNGS- UND VERFOLGUNGSSYSTEM FÜR DIE ORTHOPÄDISCHE UND NEUROLOGISCHE CHIRURGIE

Title (fr)

SYSTÈME DE SUIVI ET D'ENREGISTREMENT DE CAMÉRA MONTÉE SUR ROBOT POUR CHIRURGIE ORTHOPÉDIQUE ET NEUROLOGIQUE

Publication

EP 3975910 A4 20231101 (EN)

Application

EP 20813577 A 20200529

Priority

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Abstract (en)

[origin: WO2020243631A1] A surgical method includes, for example, tracking, via at least one camera attached to a robotic arm of a surgical robot, a surgical site of a patient, the robotic arm having a plurality of joints and a plurality of body parts, controlling the robotic arm to perform a surgical procedure at the surgical site of the patient based on the camera tracked surgical site of the patient, and wherein the tracking comprises controlling the movement of the plurality of joints and body parts of the robotic arm to maintain a line of sight of the at least one camera directed towards the surgical site of the patient.

IPC 8 full level

A61B 34/30 (2016.01); **A61B 34/32** (2016.01); **A61B 34/35** (2016.01); **A61B 34/37** (2016.01); **B25J 9/10** (2006.01); **B25J 9/16** (2006.01); **B25J 19/02** (2006.01); **A61B 34/20** (2016.01)

CPC (source: EP)

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Citation (search report)

- [I] US 2017333137 A1 20171123 - ROESSLER PATRICK [DE]
- [XI] WANG JIAOLE ET AL: "Robot-assisted occlusion avoidance for surgical instrument optical tracking system", 2015 IEEE INTERNATIONAL CONFERENCE ON INFORMATION AND AUTOMATION, IEEE, 8 August 2015 (2015-08-08), pages 375 - 380, XP033222404, DOI: 10.1109/ICINFA.2015.7279316
- See also references of WO 2020243631A1

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