

Title (en)

ROBOT FOR INSERTION OF AN ELONGATE FLEXIBLE MEDICAL INSTRUMENT AND ASSOCIATED ACCESSORIES

Title (de)

ROBOTER ZUM EINSETZEN EINES LÄNGLICHEN FLEXIBLEN MEDIZINISCHEN INSTRUMENTS UND DAMIT ASSOZIIERTER ZUBEHÖRTEILE

Title (fr)

ROBOT D'INSERTION D'INSTRUMENT MÉDICAL SOUPLE ALLONGE ET ACCESSOIRES ASSOCIES

Publication

**EP 3429502 A1 20190123 (FR)**

Application

**EP 17714854 A 20170310**

Priority

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- FR 2017050545 W 20170310

Abstract (en)

[origin: WO2017158263A1] The invention relates to the field of robots for insertion of an elongate flexible medical instrument (1, 2), drive modules (3) for the elongate flexible medical instrument (1, 2) being included in these insertion robots, and accessories associated with these insertion robots. A robot for insertion of an elongate flexible medical instrument (1, 2) into a patient (9) includes one or more drive modules (3) for the elongate flexible medical instrument (1, 2) in this patient (9). A drive module (3) for an elongate flexible medical instrument (1, 2) transmits to this elongate flexible medical instrument (1, 2) a movement of translation and/or a movement of rotation that may undergo a slackening effect. The main objective of the invention is to reduce this slackening effect by acting at several locations along the transmission chain between the distal end of the elongate flexible medical instrument (1, 2), last section to undergo the movement of rotation originally imparted by the user at a man/machine interface controlling the drive module (3). The progression of the elongate flexible medical instrument (1, 2) is thus rendered more effective for the course of this progression, safer for the patient (9) and more ergonomic for the practitioner, who is the user of the elongate flexible medical instrument (1, 2).

IPC 8 full level

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