

Title (en)

SHAFT FOR A MEDICAL INSTRUMENT, COMPRISING A PROFILED GUIDE, MEDICAL INSTRUMENT, ROBOT, AND METHOD FOR PRODUCING A SHAFT

Title (de)

SCHAFT FÜR EIN MEDIZINISCHES INSTRUMENT MIT EINEM FÜHRUNGSPROFIL, MEDIZINISCHES INSTRUMENT, ROBOTER UND VERFAHREN ZUM HERSTELLEN EINES SCHAFTES

Title (fr)

TIGE D'INSTRUMENT MÉDICAL POURVUE D'UN PROFIL DE GUIDAGE, INSTRUMENT MÉDICAL, ROBOT ET PROCÉDÉ DE FABRICATION D'UNE TIGE

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Application

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Abstract (en)

[origin: WO2023006687A1] The invention relates to a shaft for a medical instrument. The elongated shaft extends from a proximal end to a distal end in a longitudinal direction and has an end section at the distal end. The end section can be angled relative to a longitudinal central axis of the shaft by means of a joint mechanism on the distal side, and a tool can be arranged on the end section which can be angled. Multiple guiding elements are guided through the interior of the shaft in the longitudinal direction in order to connect a drive on the proximal side to the joint mechanism on the distal side. The shaft has an outer tube or an inner tube which is aligned in the longitudinal direction about a longitudinal central axis, and the shaft has an elongated profiled guide between the outer tube and the longitudinal central axis or on the outside about the inner tube for guiding the guiding elements, wherein the profiled guide has a profiled shape in the cross-section transversely to the longitudinal direction, and the profiled shape has at least one first contact point for contacting the outer tube or the inner tube such that a guide channel or multiple guide channels is/are formed in the longitudinal direction between the outer tube and the profiled guide or between the profiled guide and the inner tube for guiding a guiding element or multiple guiding elements. The invention additionally relates to a medical instrument, a robot, and a method for producing a shaft.

IPC 8 full level

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