

Title (en)
CONTROL DEVICE

Title (de)
STEUERUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE COMMANDE

Publication
EP 2434940 A1 20120404 (DE)

Application
EP 10717107 A 20100422

Priority
• EP 2010055400 W 20100422
• DE 102009024243 A 20090529
• DE 102009042490 A 20090914

Abstract (en)
[origin: WO2010136275A1] The invention relates to a control device, in particular for use in endoscopes or similar, comprising a proximal end section and a distal end section, respectively comprising an articulated section, and, inbetween the two ends, a bending-resistant central section, an outer hollow-cylindrical shaft, an inner hollow-cylindrical shaft and a control element which is arranged between said shafts and which has two or more longitudinal elements which transmit force and which extend, essentially from the proximal end section to the distal end section of the control device. Said longitudinal elements are arranged in the direction of the periphery of the control device at essentially constant angular distances and are interconnected in the region of their proximal and distal ends in the peripheral direction. According to the invention, the control device comprises a holding device which fixes one part of the articulated section in a bending-resistant manner in relation to the longitudinal direction of the central section of the control device or in relation to a functional unit which is connected to the proximal or distal end sections enabling the instruments for various and/or different sized working areas to be adapted easily.

IPC 8 full level
A61B 1/005 (2006.01)

CPC (source: EP US)
A61B 1/00071 (2013.01 - EP US); **A61B 1/00135** (2013.01 - EP US); **A61B 1/0052** (2013.01 - EP US); **A61B 1/0055** (2013.01 - EP US); **A61B 17/00** (2013.01 - EP US); **A61B 2017/003** (2013.01 - EP US); **A61B 2017/00309** (2013.01 - EP US); **A61B 2017/2905** (2013.01 - EP US); **A61M 25/0105** (2013.01 - EP US); **A61M 25/0133** (2013.01 - EP US); **A61M 25/0138** (2013.01 - EP US); **A61M 25/0147** (2013.01 - EP US)

Citation (search report)
See references of WO 2010136275A1

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
DE 202009012795 U1 20100121; CN 102448359 A 20120509; DE 102009042490 A1 20101209; EP 2434940 A1 20120404; JP 2012527919 A 20121112; RU 2011153010 A 20130710; RU 2506883 C2 20140220; US 2012130173 A1 20120524; WO 2010136275 A1 20101202

DOCDB simple family (application)
DE 202009012795 U 20090914; CN 201080023234 A 20100422; DE 102009042490 A 20090914; EP 10717107 A 20100422; EP 2010055400 W 20100422; JP 2012512280 A 20100422; RU 2011153010 A 20100422; US 201113304833 A 20111128