

Title (en)
DEVICE FOR PROPELLING AND STEERING A MICROSTRUCTURE

Title (de)
VORRICHTUNG ZUM ANTREIBEN UND LENKEN EINER MIKROSTRUKTUR

Title (fr)
DISPOSITIF DE PROPULSION ET DE PILOTAGE D'UNE MICROSTRUCTURE

Publication
EP 4031051 A1 20220727 (FR)

Application
EP 20820265 A 20200918

Priority

- FR 1910368 A 20190920
- FR 2020051623 W 20200918

Abstract (en)
[origin: WO2021053305A1] This device (1) comprises: - a propulsion element (2) having at least one portion (20) that is deformable by elongation/contraction along a main axis (X2) connecting a front part (21) and a rear part (23); - at least two guide elements (3, 5, 7) that are able, under the effect of an energy input, to bring about a rotation of the propulsion element (2) respectively about a first axis of rotation and about a second axis of rotation that are transverse to one another and to the main axis (X2) of the propulsion element; - a control unit (9) configured to actuate a rotation of the propulsion element (2) about at least one axis transverse to the main axis (X2) in a manner coordinated with a deformation of the deformable element (20) of the propulsion element (2) by elongation/contraction along the main axis (X2).

IPC 8 full level
A61B 34/30 (2016.01); **A61B 34/00** (2016.01); **B25J 7/00** (2006.01); **B25J 9/06** (2006.01)

CPC (source: EP KR US)
A61B 34/30 (2016.02 - EP KR); **A61B 34/72** (2016.02 - EP KR); **A61B 34/73** (2016.02 - EP KR US); **B25J 7/00** (2013.01 - EP KR); **B25J 9/065** (2013.01 - EP KR); **F16F 1/3605** (2013.01 - EP KR US); **F16F 1/373** (2013.01 - EP KR US); **H01F 7/122** (2013.01 - US); **A61B 2017/00345** (2013.01 - EP KR US); **A61B 2034/302** (2016.02 - EP US); **A61B 2034/303** (2016.02 - EP US); **F16F 2224/0283** (2013.01 - EP KR); **F16F 2236/027** (2013.01 - EP KR); **F16F 2238/026** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2021053305A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2021053305 A1 20210325; CN 114727849 A 20220708; EP 4031051 A1 20220727; JP 2022549203 A 20221124; KR 20220066115 A 20220523; US 2022273383 A1 20220901

DOCDB simple family (application)
FR 2020051623 W 20200918; CN 202080080394 A 20200918; EP 20820265 A 20200918; JP 2022517819 A 20200918; KR 20227012742 A 20200918; US 202017761847 A 20200918