

Title (en)
THERAPY DEVICE

Title (de)
THERAPIEGERÄT

Title (fr)
APPAREIL DE THÉRAPIE

Publication
EP 3416605 A2 20181226 (DE)

Application
EP 17718808 A 20170215

Priority
• DE 202016000943 U 20160215
• DE 202016000944 U 20160215
• DE 2017100116 W 20170215

Abstract (en)
[origin: WO2017140302A2] The present invention relates to a finger motion rail (2) for a therapy device for carrying out sustained passive and/or actively-assisted motion of the fingers and thumb of the hand (3) of a patient, said device having an upper shell (10), to which a kinematic motion mechanism (21) of a finger motion rail (2) for each selected finger is connected, each mechanism having a motion drive (22) that is in control engagement with a control system (14). The finger motion rail is characterised in that the kinematic motion mechanism (21) of the finger motion rail (2), which mechanism has a carriage (211) that moves in a rail (212) provided around the metacarpophalangeal joint (31) and at least one pivoting lever (213, 214), is located at the side of each finger for the passive and/or actively-assisted motion of the selected fingers. This advantageously allows an individual finger motion rail (2) with a kinematic motion mechanism (21) to be provided for each selected finger, the rail being located at the side of each finger, thus permitting each selected finger to bend and/or stretch without constraint.

IPC 8 full level
A61H 1/02 (2006.01)

CPC (source: EP KR US)
A61H 1/0288 (2013.01 - EP KR US); **A63B 23/16** (2013.01 - KR); **A61H 2001/0207** (2013.01 - KR); **A61H 2201/123** (2013.01 - EP KR US); **A61H 2201/1481** (2013.01 - EP KR US); **A61H 2201/149** (2013.01 - EP KR US); **A61H 2201/1635** (2013.01 - EP US); **A61H 2201/1638** (2013.01 - EP KR US); **A61H 2201/165** (2013.01 - EP KR US); **A61H 2201/1676** (2013.01 - EP KR US); **A61H 2201/5061** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2017140302A2

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 2017140302 A2 20170824; WO 2017140302 A3 20171102; AU 2017220463 A1 20180920; AU 2017220463 B2 20210415; BR 112018016609 A2 20181226; BR 112018016609 B1 20230124; CA 3014681 A1 20170824; CN 108883023 A 20181123; CN 108883023 B 20201229; DE 112017000012 A5 20171026; DE 112017000012 B4 20180705; EP 3416605 A2 20181226; EP 3416605 B1 20200708; ES 2822377 T3 20210430; JP 2019509789 A 20190411; JP 6944718 B2 20211006; KR 20180114128 A 20181017; PL 3416605 T3 20201228; RU 2018132796 A 20200317; RU 2018132796 A3 20200717; US 11357691 B2 20220614; US 2019209412 A1 20190711

DOCDB simple family (application)
DE 2017100116 W 20170215; AU 2017220463 A 20170215; BR 112018016609 A 20170215; CA 3014681 A 20170215; CN 201780020113 A 20170215; DE 112017000012 T 20170215; EP 17718808 A 20170215; ES 17718808 T 20170215; JP 2018543114 A 20170215; KR 20187026351 A 20170215; PL 17718808 T 20170215; RU 2018132796 A 20170215; US 201715998574 A 20170215