

Title (en)  
DEVICE FOR COOPERATIVE HAND FUNCTION TRAININGS IN REHABILITATION AND CORRESPONDING METHOD

Title (de)  
VORRICHTUNG FÜR KOOPERATIVE HANDFUNKTIONSÜBUNGEN IN DER REHABILITATION UND ENTSPRECHENDE VERFAHREN

Title (fr)  
DISPOSITIF POUR EXERCICES DE FONCTIONS DE MAINS COOPÉRATIVES DANS LA RÉÉDUCATION ET PROCÉDÉ CORRESPONDANT

Publication  
**EP 2713980 A1 20140409 (EN)**

Application  
**EP 12724110 A 20120516**

Priority

- EP 11167554 A 20110525
- EP 2012059200 W 20120516
- EP 12724110 A 20120516

Abstract (en)  
[origin: WO2012159970A1] The invention is directed to a device to train bilateral, cooperative hand functions of a subject with housing means, handle means comprising two exchangeable handles (1), namely a left handle and a right handle, shaft means comprising multiple shafts and couplings for coupling said shafts (2), clutching means comprising variable slipping clutches (3), said slipping clutches being adjustable, first sensor means (4) for measuring the angular position of each of said handles (1), second sensor means (5) for measuring the torque which is applied by the subject onto each of said handles (1), locking means (6) for locking said shaft means (2) wherein both handles can be rotated independently when said locking means are locked, wherein said locking means are positioned between said second sensor means so that said second sensor means for the left handle can measure the torque applied onto the left handle and said second sensor means for the right handle can measure the torque applied onto the right handle when the locking means are locked and said second sensor means for the left handle said second sensor means for the right handle can measure the torque applied onto either of said handles when said locking means are unlocked and bearing means (8) for said shaft means, said bearing means being mounted to the housing of a device.

IPC 8 full level  
**A61H 1/02** (2006.01); **A63B 22/00** (2006.01); **A63B 23/035** (2006.01); **A63B 23/14** (2006.01); **A63B 23/16** (2006.01)

CPC (source: EP US)  
**A61H 1/0285** (2013.01 - EP US); **A63B 21/00185** (2013.01 - EP US); **A63B 21/157** (2013.01 - EP US); **A63B 21/4035** (2015.10 - EP US); **A63B 21/4049** (2015.10 - EP US); **A63B 23/03533** (2013.01 - EP US); **A63B 23/14** (2013.01 - EP US); **A63B 23/16** (2013.01 - EP US); **A63B 24/0062** (2013.01 - US); **A61H 2201/5061** (2013.01 - EP US); **A61H 2201/5069** (2013.01 - EP US); **A61H 2205/065** (2013.01 - EP US); **A61H 2205/067** (2013.01 - EP US); **A61H 2230/60** (2013.01 - EP US); **A63B 2022/0092** (2013.01 - EP US); **A63B 2022/0094** (2013.01 - EP US)

Citation (search report)  
See references of WO 2012159970A1

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

DOCDB simple family (publication)  
**WO 2012159970 A1 20121129**; EP 2713980 A1 20140409; US 2014087921 A1 20140327

DOCDB simple family (application)  
**EP 2012059200 W 20120516**; EP 12724110 A 20120516; US 201214119606 A 20120516