

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

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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.

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