

Title (en)

SYSTEM AND METHOD FOR A COOPERATIVE ARM THERAPY AND CORRESPONDING ROTATION MODULE

Title (de)

SYSTEM UND VERFAHREN FÜR DIE KOOPERATIVE ARM THERAPIE SOWIE ROTATIONSMODUL DAFÜR

Title (fr)

SYSTEME ET PROCEDE POUR UNE THERAPIE DU BRAS COOPERATIVE ET MODULE DE ROTATION UTILISE A CETTE FIN

Publication

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Application

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Abstract (en)

[origin: WO2006058442A1] A system used in arm therapy comprises a plurality of drives. A first drive (11) and a second drive (26) determine the position of an upper arm rotation module (16, 17), the upper arm of a user being fixed by means of a cuff (10). The upper arm rotation module (16, 17) is a two-piece structure and is provided with a third rotation drive (29) for rotating the upper arm cuff (10), which is positioned inwards (17) and substantially has the shape of a hollow cylinder when closed, about its main axis in relation to the outer part (16) of the upper arm rotation module (16, 17). The upper arm rotation module (16, 17) is linked with a wrist rotation module (20, 21) via an elbow rotation module (22, 23) which can be rotated at an angle thereto and is embodied similar to the upper arm rotation module. The inventive system allows an internal and external shoulder rotation, flexion or extension of the elbow and pronation/supination of the forearm, which is effected as a relative movement of the cuffs (8, 9 and 10) due to the various drives.

IPC 8 full level

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