Title (en)

FINGER MOTION RAIL FOR CARRYING OUT A CONTINUOUS, PASSIVE AND/OR ACTIVELY ASSISTED MOVEMENT OF A FINGER AND/OR A THUMB OF A PATIENT, AS WELL AS A THERAPEUTIC DEVICE COMPRISING A FINGER MOTION RAIL OF THIS TYPE

Title (de)

FINGER-BEWEGUNGSSCHIENE ZUR DURCHFÜHRUNG EINER KONTINUIERLICHEN, PASSIVEN UND/ODER AKTIV-ASSISTIERTEN BEWEGUNG EINES FINGERS UND/ODER EINES DAUMENS EINES PATIENTEN, SOWIE THERAPIEGERÄT UMFASSEND EINE SOLCHE FINGER-BEWEGUNGSSCHIENE

Title (fr)

RAIL DE MOUVEMENT DE DOIGT POUR L'EXÉCUTION D'UN MOUVEMENT CONTINU PASSIF ET/OU ACTIVEMENT ASSISTÉ D'UN DOIGT ET/OU D'UN POUCE D'UN PATIENT, AINSI QU'APPAREIL DE THÉRAPIE COMPRENANT UN TEL RAIL DE MOUVEMENT DE DOIGT

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Application

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Abstract (en)

[origin: WO2020224727A1] The invention relates to a finger motion rail (2), and a therapeutic device (1) for carrying out a continuous, passive and/or actively assisted movement of a finger and/or a thumb of a patient. The rail is characterised in that a means (21) arranged laterally next to the respective finger and/or thumb, for bending a finger base joint (31), is designed as a multiple-joint hinge, which, alongside the connection via a first connection lever (2113), via at least one second (and/or third) connection lever (2203; 2204) and at least one connection joint (2114; 2115), is operatively connected to a mechanism (22) also arranged laterally next to the respective finger and/or thumb, for bending a middle knuckle joint (32) and/or a top knuckle joint (33). The finger motion rail (2) according to the invention or a therapeutic device (1) comprising same is notably more resilient towards the effect of pressing, pulling and torsional forces, in particular in relation to a longitudinal axis (LA) of the finger motion rail (2) and it advantageously allows for a more precise and interference-free execution of an anatomically natural, automated finger movement, which increases the chance of successful therapy and the service life of the device.

IPC 8 full level

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