

Title (en)
MOTOR REHABILITATION MACHINE

Title (de)
MOTOR-REHABILITATIONSGERÄT

Title (fr)
MACHINE DE RÉÉDUCATION MOTRICE

Publication
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Application
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Abstract (en)
The present invention relates to a patient motor rehabilitation machine, particularly for gait rehabilitation. In particular, the invention relates to a machine (1) for the motor rehabilitation of a patient (P), comprising a frame (3) which supports movable supporting means (2) for the patient (P) and a gait simulation system (4), characterized in that the gait simulation system (4) comprises a moving mechanism (36) for each of the patient's leg, configured for a roto-translation movement adapted to reproduce the gait, said moving mechanism (36) comprising:- a carriage (64) comprising a base plate (75) sliding on a track (73),- a movable plate (79) hinged to the base plate (75), the movable plate (79) rocking with reciprocating high-low motion,- a footboard (43) fixed in an adjustable manner on the movable plate (79) to be able to adapt it to the foot of the patient (P),- a shin support (91) hinged at a lower end (93a) to the movable plate (79) and connected at a front face (92b) to the movable plate (79) through an actuator (95) such that the shin support (91) rocks relative to the movable plate (79),- motorization means (71, 72) configured to implement the translation of the carriage (64) along the track (73) and rocking of the movable plate (79) with said reciprocating high-low motion.

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• EP 2865363 B1 20160525 - POLIBRIXIA S R L [IT]
• IT 201800010921 A1 20200610 - POLIBRIXIA S R L [IT]

Citation (search report)
• [A] US 9248071 B1 20160202 - BENDA SCOTT [US], et al
• [A] US 3824994 A 19740723 - SODERBERG R
• [A] US 11045381 B2 20210629 - DALEY MICHAEL J [US], et al
• [A] US 2019231630 A1 20190801 - THOLKES ALAN [US], et al
• [AD] EP 2865363 B1 20160525 - POLIBRIXIA S R L [IT]

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