

Title (en)
LEG MOVEMENT RAIL

Title (de)
BEINBEWEGUNGSSCHIENE

Title (fr)
RAIL PERMETTANT LE MOUVEMENT DES JAMBES

Publication
EP 0676944 B1 19970305 (DE)

Application
EP 93902140 A 19930104

Priority
EP 9300001 W 19930104

Abstract (en)
[origin: WO9415571A1] The leg movement rail is used for the repetitive, especially passive, movement of the knee and hip joints in orthopaedics. It consists essentially of a base (1), a thigh-side rod (2) which is secured at one end (21) by means of a rotary joint (22) to the base (1), a shin-side L-shaped rod (3), the shorter shank (31) of which is secured to the base (1) by a rotary joint (32) arranged to be movable along the base (1) and an articulated mechanism (10) connecting the other end (22) of the rod and the longer shank (33) of the rod (3). The articulated mechanism (10) consists of a jointed polygon (7) which, during a to and fro movement of the shorter shank (31) of the rod (3) secured to rotate on the base (1), generates a curved path (13) around the virtual axis of rotation (12) of the hip which corresponds to the idealised, curved path (13') of the knee joint of the body concerned about the axis of rotation (12') of the patient's hip. A further advantage of the leg movement rail lies in the fact that there is no need for any technical right/left conversion for the other limb.

IPC 1-7
A61H 1/02

IPC 8 full level
A61H 1/02 (2006.01)

CPC (source: EP)
A61H 1/0259 (2013.01); **A61H 1/0262** (2013.01); **A61H 2201/164** (2013.01); **A61H 2201/1676** (2013.01)

Cited by
DE102008023573A1; CN110575352A; CN110575355A; WO2009135619A1

Designated contracting state (EPC)
AT CH DE LI

DOCDB simple family (publication)
WO 9415571 A1 19940721; DE 59305674 D1 19970410; EP 0676944 A1 19951018; EP 0676944 B1 19970305

DOCDB simple family (application)
EP 9300001 W 19930104; DE 59305674 T 19930104; EP 93902140 A 19930104