

Title (en)  
APPARATUS USING A CRANK FOR MOVING THE LEGS

Publication  
**EP 0301605 A3 19890208 (DE)**

Application  
**EP 88113920 A 19850608**

Priority  
DE 3425306 A 19840710

Abstract (en)  
[origin: EP0301605A2] An apparatus for moving the legs, with a crank (5) mounted on a frame (1), with pedals (7) mounted on this crank, with an arrangement (19, 20) for connecting the feet securely to the pedals (7), and with an electromotor for driving the crank (5) is improved as regards the occurrence of muscle cramps and is thus better adapted to the requirements of patients exercising on their own. The maximum torque provided by the motor is progressively adjustable. An independent electrical control arrangement (18) is provided, which reverses the direction of rotation of the motor when the latter reaches its maximum torque. <IMAGE>

IPC 1-7  
**A61H 1/02**

IPC 8 full level  
**A61H 1/02** (2006.01); **A63B 21/005** (2006.01)

CPC (source: EP)  
**A61H 1/0214** (2013.01); **A61H 2201/018** (2013.01); **A63B 21/0058** (2013.01); **A63B 2220/58** (2013.01)

Citation (search report)  
• [Y] GB 976558 A 19641125 - TEAME ENGINEERING COMPANY LTD, et al  
• [Y] US 4335339 A 19820615 - BRICKNER JOSEPH L  
• [A] EP 0060302 A1 19820922 - MITSUBISHI METAL CORP [JP]  
• [A] DE 536103 C 19311019 - LUDWIG GREFE FA  
• [A] EP 0078093 A2 19830504 - IMASCO CDC RES FOUND [CA]

Cited by  
EP0561106A3; DE4014331A1; US5860941A; WO9717932A1

Designated contracting state (EPC)  
AT CH DE FR GB IT LI

DOCDB simple family (publication)  
**EP 0301605 A2 19890201; EP 0301605 A3 19890208; EP 0301605 B1 19911023**; AT E47031 T1 19891015; AT E68690 T1 19911115; DE 3425306 A1 19860123; DE 3425306 C2 19920903; DE 3573530 D1 19891116; DE 3584525 D1 19911128; EP 0167845 A2 19860115; EP 0167845 A3 19870527; EP 0167845 B1 19891011

DOCDB simple family (application)  
**EP 88113920 A 19850608**; AT 85107097 T 19850608; AT 88113920 T 19850608; DE 3425306 A 19840710; DE 3573530 T 19850608; DE 3584525 T 19850608; EP 85107097 A 19850608