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Title: **WHEELCHAIR** TYPE ROBOT FOR WALKING AID

Abstract: Source: US2011201978A A **wheelchair** type robot for use as a walking aid wherein an outer skeleton to be worn on the lower body of a user is combined with a lift and a drive part in a **wheelchair** form. The drive part is furnished with a drive motor and wheels that are installed on a main frame. The lift is furnished with an outer linear guide that is fixed and joined with the main frame, an inner linear guide that can move up and down along same, an upper chair part that connects with the inner linear guide to enable up and down motion, and a lower chair part that connects with the outer linear guide such that unfolds if the inner linear guide descends and folds if it ascends. The outer skeleton is furnished with a lift locking part that is fixed and joined with the upper chair part, an upper frame whereto a thigh brace is joined, a lower frame whereto a calf brace is joined, a hip part that is installed between the lift locking part and the upper frame to rotate the upper frame around the lift locking part, and a knee joint part that is installed between the upper frame and the lower frame to rotate the lower frame around the upper frame.

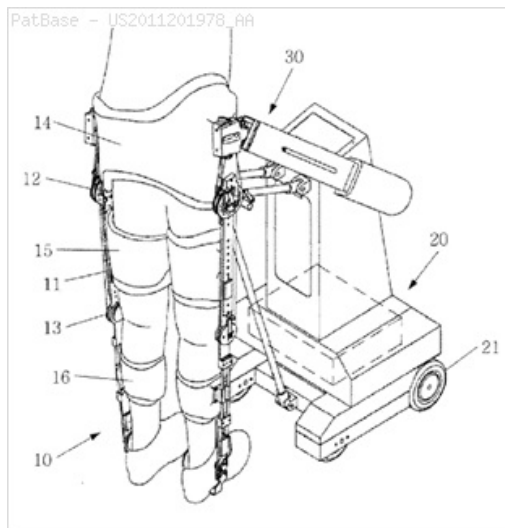
Classifications:

International (IPC 8-9): A61F5/052 A61G5/04 A61G5/14 A61H1/00 A61H1/02 A61H3/00 A61H3/04 B25J11/00 B25J5/00 (Advanced/Invention); A61H3/04 (Advanced/Non-invention); B25J11/00 B25J5/00 (Core/Invention)

CPC: A61H1/0255 A61H1/0292 A61H3/00 A61H2201/0157 A61H2201/1215 A61H2201/123 A61H2201/1633 A61H2201/1635 A61H2201/164 A61H2201/1642 A61H3/008 A61G5/045 A61G5/14 A61G2200/52 A61H2003/043 A61G5/127 A61G5/128

European: A61G5/04A6 A61H3/00H K61G200/52 K61G5/12G K61G5/12H K61G5/14

US: 180/907 297/DIG.1 297/DIG.10 297/DIG.4 601/35 601/35P 601/5



Family:

Publication number	Publication date	Application number	Application date
EP2361734 A2	20110831	EP20090822161	20091009
EP2361734 A4	20160106	EP20090822161	20091009
EP2361734 B1	20170322	EP20090822161	20091009
JP2012506289 T2	20120315	JP20110533095T	20091009
JP5400890 B2	20140129	JP20110533095T	20091009
KR101043207 B1	20110622	KR20080103461	20081022
KR20100044360 A	20100430	KR20080103461	20081022
US2011201978 AA	20110818	US20090125567	20091009
US8790284 BB	20140729	US20090125567	20091009
WO10047485 A2	20100429	WO2009KR05782	20091009
WO10047485 A3	20100805	WO2009KR05782	20091009

Priority:

KR20080103461 20081022 WO2009KR05782 20091009

Probable Assignee: UNIV SOGANG IND UNIV COOP FOUN

Assignee(s): (std): KWAK SIN UNG ; LEE JIN HWAN ; UNIV SOGANG IND UNIV COOP FOUN ; MOON HYU SANG ; JEON DO YOUNG ; SOGANG UNIV RESEARCH FOUNDATION ; UNIV COOP FOUND SOGANG UNIV IND

Assignee(s): COOPERATION FOUNDATION SOGANG IND UNIV ; COOPERATION FOUNDATION SOGANGUNIVERSITY IND UNIV ; INDUSTRY UNIVERSITY COOPERATION FOUNDATION SOGANG UNIVERSITY ; INDUSTRY UNIVERSITY COOPERATION FOUNDATION SOGANGUNIVERSITY

Inventor(s): (std): JEON DO YOUNG ; KWAK SIN UNG ; LEE JIN HWAN ; MOON HYU SANG

Agent(s): PETRAZ GILBERTO LUIGI; JAMES E; IPLA PA; OH SOOWON ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **WHEELCHAIR** INTEGRATED LOWER-LIMB EXERCISE/REHABILITATION DEVICE

Abstract: Source: KR101299351B PURPOSE: A device for lower body exercise and rehabilitation training is provided to enable disabled persons and elderly persons to move a long distance and to easily exercise their legs. CONSTITUTION: A device for lower body exercise and rehabilitation training comprises a running part (100), a lift part (200), and an **exoskeleton** part (300). The running part includes a frame, a driving motor installed on the frame, right and left wheels installed on the frame and driven by the driving motor, and a main lift motor installed on the frame. The lift part comprises a main lift link part which is rotationally combined with the frame and is provided with power from the main lift motor, a lift frame part which is combined with the main lift link part and moves up and down, a seat part which is combined with the main lift link part and is folded and unfolded according to the movement of the lift frame part, and a back rest part which is combined with a linear guide to vertically move on the lift frame part.

Classifications:

International (IPC 8-9): A61G5/14 A61H1/00
A63B23/04 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
KR101299351 B1	20130822	KR20120023211	20120307

Priority:

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Probable Assignee: UNIV SOGANG RES FOUNDATION

Assignee(s): (std): SOGANG UNIV RES FOUNDATION ; UNIV SOGANG RES FOUNDATION

Assignee(s): SOGANG UNIV RESEARCH FOUNDATION ; SOGANG UNIVERSITY RESEARCH FOUNDATION

Inventor(s): (std): HWANG BEOM SOO ; JEON DO YOUNG ; JEON JAI HYUN