

Title (en)
LIFTING MECHANISM AND CHAIRS

Title (de)
HEBEMECHANISMUS UND STÜHLE

Title (fr)
MÉCANISME DE LEVAGE ET CHAISES

Publication
EP 3773402 A4 20220105 (EN)

Application
EP 19825315 A 20190322

Priority
• US 2019023661 W 20190322
• US 201862649809 P 20180329
• US 201862649746 P 20180329

Abstract (en)
[origin: WO2020005350A1] A lifting mechanism has a base to which a pivot of a parallelogram structure. A spring extends from a first link of the parallelogram to an adjustable termination point on a second link of the parallelogram to form a lifting triangle. The spring termination point is displaced from a main pivot of the parallelogram to create an adjustable "lever arm" to vary the lifting force. A lifting power adjustment mechanism adjusts the position of the spring termination point. An extension is in fixed relation to one of the parallelogram links and maintains its angle with respect to the horizontal when angles of the parallelogram are varied upon raising or lowering the lifting mechanism between a sitting mode and a standing mode. The extension serves as a base for a rear seat section. A front seat section is pivotally attached to the rear seat section allowing it to swing downward upon elevation of the liftin mechanism.

IPC 8 full level
A61G 5/14 (2006.01); **A61G 5/04** (2013.01); **A61G 5/12** (2006.01); **A61G 7/10** (2006.01); **A61H 3/04** (2006.01)

CPC (source: EP)
A47C 3/30 (2013.01); **A47C 7/024** (2013.01); **A61G 5/0816** (2016.11); **A61G 5/1059** (2013.01); **A61G 5/1091** (2016.11); **A61G 5/14** (2013.01); **A61G 5/125** (2016.11)

Citation (search report)
• [XAI] GB 1406420 A 19750917 - LYWOOD B W
• [XA] US 4211426 A 19800708 - MOTLOCH WALLACE M [US]
• [X] PL 211202 B1 20120430 - ALREH MEDICAL SPOŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ [PL]
• See also references of WO 2020005350A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2020005350 A1 20200102; AU 2019293477 A1 20201015; CA 3095441 A1 20200102; CN 112004510 A 20201127;
CN 112004510 B 20230210; EP 3773402 A1 20210217; EP 3773402 A4 20220105; JP 2021519672 A 20210812; JP 7411628 B2 20240111

DOCDB simple family (application)
US 2019023661 W 20190322; AU 2019293477 A 20190322; CA 3095441 A 20190322; CN 201980022937 A 20190322;
EP 19825315 A 20190322; JP 2021502706 A 20190322