

Title (en)
IRON RACK USED FOR STAND ASSIST RECLINER AND OPERATING METHOD THEREFOR

Title (de)
EISENGESTELL FÜR STEHHILFE-LIEGESTUHL UND BETRIEBSVERFAHREN DAFÜR

Title (fr)
CRÉMAILLÈRE EN FER UTILISÉE POUR UN FAUTEUIL INCLINABLE D'AIDE AU MAINTIEN ET PROCÉDÉ DE FONCTIONNEMENT ASSOCIÉ

Publication
EP 3777611 A1 20210217 (EN)

Application
EP 19877690 A 20191031

Priority

- CN 201811298279 A 20181102
- CN 2019114517 W 20191031

Abstract (en)
An iron rack used for a stand assist recliner and an operating method therefor, wherein the iron rack used for a stand assist recliner comprises an inclined bracket (5), a base rack (6), an extending bracket (1), a rotating bar (2), an upper rack assembly and a first electric push bar (24); two sides of a middle part of the inclined bracket (5) are hinged with and cooperate with the base rack (6) such that a tail end of the inclined bracket (5) overlaps a tail end of the base rack (6); a front end of the base rack (6) overlaps at a front end of the inclined bracket (5); a tail end of the upper rack assembly is hinged with and cooperates with the tail end of the base rack (6); the rotating bar (2) is disposed above a front end of the upper rack assembly, and two ends of the rotating bar (2) drive and cooperate with the extending bracket (1); a front end of the upper rack assembly is provided with a stand assist stop block (83), and a lower side of an end part of the rotating bar (2) is provided with a stand assist bracket (23) that fits the stand assist stop block (83); a tail part of the upper rack assembly is further provided with a rotating bar limiting stop block (81); a front end of the first electric push bar (24) is hinged with and cooperates with a middle part of the rotating bar (2), and a tail end of the first electric push bar (24) is hinged with and cooperates with the tail end of the inclined bracket (5) so that the first electric push bar (24) is obliquely arranged between the rotating bar (2) and the inclined bracket (5).

IPC 8 full level
A47C 1/02 (2006.01); **A47C 7/00** (2006.01)

CPC (source: CN EP)
A47C 1/024 (2013.01 - CN); **A47C 7/002** (2013.01 - CN); **A47C 7/40** (2013.01 - CN); **A47C 7/462** (2013.01 - CN); **A47C 7/506** (2013.01 - CN); **A61G 5/14** (2013.01 - EP); **A61G 5/1067** (2013.01 - EP); **A61G 5/1075** (2013.01 - EP); **A61G 5/125** (2016.11 - EP); **A61G 5/128** (2016.11 - EP)

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3777611 A1 20210217; **EP 3777611 A4 20211229**; CN 109124120 A 20190104; CN 109124120 B 20230915; CN 116982815 A 20231103; CN 117257077 A 20231222; WO 2020088553 A1 20200507

DOCDB simple family (application)
EP 19877690 A 20191031; CN 201811298279 A 20181102; CN 2019114517 W 20191031; CN 202311203976 A 20181102; CN 202311219562 A 20181102