

Title (en)

POWER-ASSISTED HANDLE, AND REFRIGERATOR THEREWITH

Title (de)

KRAFTBETÄTIGTER GRIFF UND KÜHLSCHRANK DAMIT

Title (fr)

POIGNÉE À ASSISTANCE ÉLECTRIQUE, ET RÉFRIGÉRATEUR ÉQUIPÉ DE CELLE-CI

Publication

EP 4006464 A4 20220914 (EN)

Application

EP 19939562 A 20191015

Priority

- CN 201910699074 A 20190731
- CN 2019111173 W 20191015

Abstract (en)

[origin: EP4006464A1] The present invention provides an assist handle and a refrigerator, the assist handle being disposed on a front side of a door of a refrigerator, wherein the assist handle comprising: a handle bar disposed on the front side of the door; and an assist structure disposed between the handle bar and the door, the assist structure comprises: a first lever, a lower end of the first lever is connected to a top end of the handle bar; a first rotation shaft pivoted to the first lever; a second lever opposed to the first lever; a second rotation shaft pivoted to the second lever; and a link disposed between the first lever and the second lever, both ends of the link being pivoted to the first lever and the second lever, respectively; wherein the handle bar is pulled, and the handle bar drives the first lever to rotate about the first rotation shaft; the first lever drives the link to move linearly; the link drives the second lever to rotate about the second rotation shaft.

IPC 8 full level

F25D 23/02 (2006.01); **E05B 17/00** (2006.01)

CPC (source: CN EP)

E05B 1/0015 (2013.01 - CN); **E05B 17/0033** (2013.01 - EP); **F25D 23/028** (2013.01 - CN EP)

Citation (search report)

- [XYI] EP 2110628 A1 20091021 - ELECTROLUX HOME PROD CORP [BE]
- [X] DE 102015222738 A1 20170518 - BSH HAUSGERÄTE GMBH [DE]
- [Y] EP 1426537 A2 20040609 - SMEG SPA [IT]
- See also references of WO 2021017178A1

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 4006464 A1 20220601; **EP 4006464 A4 20220914**; AU 2019459826 A1 20220224; AU 2019459826 B2 20230309; CN 112302421 A 20210202; CN 112302421 B 20230221; WO 2021017178 A1 20210204

DOCDB simple family (application)

EP 19939562 A 20191015; AU 2019459826 A 20191015; CN 201910699074 A 20190731; CN 2019111173 W 20191015