

Title (en)

FREEZER, AND SUPPORT STRUCTURE FOR EXTENDING/RETRACTING MEMBER

Title (de)

GEFRIERSCHRANK UND STÜTZSTRUKTUR FÜR EIN AUSFAHRENDES/EINZIEHENDES ELEMENT

Title (fr)

CONGÉLATEUR ET STRUCTURE DE SUPPORT POUR ÉLÉMENT D'EXTENSION/RÉTRACTION

Publication

EP 3627069 A4 20201104 (EN)

Application

EP 18802005 A 20180420

Priority

- JP 2017097504 A 20170516
- JP 2018016358 W 20180420

Abstract (en)

[origin: EP3627069A1] A cryocooler includes a container filled with a refrigerant, an extending/retracting member capable of extending and retracting in a prescribed direction, and a support member that supports the extending/retracting member to be capable of extending and retracting in the prescribed direction, and that restricts movement in a perpendicular direction perpendicular to the prescribed direction. The support member includes a first connection portion connected to the extending/retracting member, a second connection portion connected to the container, and a deformation portion extending in the prescribed direction, having one end connected to the first connection portion, having the other end connected to the second connection portion, and deforming in the prescribed direction. The deformation portion includes a member having a bent plate shape or cylindrical shape.

IPC 8 full level

F25B 9/14 (2006.01); **F04B 35/04** (2006.01)

CPC (source: EP)

F04B 35/04 (2013.01); **F25B 9/14** (2013.01); **F25B 2309/001** (2013.01)

Citation (search report)

- [X] JP 2008215440 A 20080918 - SUMITOMO HEAVY INDUSTRIES
- [X] JP H112468 A 19990106 - DAIKIN IND LTD
- [A] JP 2006090652 A 20060406 - AISIN SEIKI
- [A] US 2017114911 A1 20170427 - HIRATSUKA YOSHIKATSU [JP]
- See references of WO 2018211911A1

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

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EP 3627069 A1 20200325; **EP 3627069 A4 20201104**; JP 2018194218 A 20181206; JP 6814439 B2 20210120; WO 2018211911 A1 20181122

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