

Title (en)
DOOR OPENING/CLOSING MECHANISM AND REFRIGERATOR PROVIDED WITH SAME

Title (de)
MECHANISMUS ZUM ÖFFNEN UND SCHLIESSEN VON TÜREN UND KÜHLSCHRANK DAMIT

Title (fr)
MÉCANISME D'OUVERTURE/FERMETURE DE PORTE ET RÉFRIGÉRATEUR MUNI DE CELUI-CI

Publication
EP 2990746 A4 20161228 (EN)

Application
EP 14788712 A 20140425

Priority
• JP 2013093787 A 20130426
• JP 2014061758 W 20140425

Abstract (en)
[origin: EP2990746A1] A door opening/closing mechanism includes: a first door and a second door that cover both sides with respect to a center of an opening portion of an apparatus main body and are rotatably supported respectively at both end portions of the opening portion; a swing partitioning body that is swingably disposed at an open end of the first door; and a guide mechanism that guides swingably the swing partitioning body and is disposed at a closing position to protrude from a side end surface of the first door at a closing time of the first door, and is disposed on a plane substantially flush with the side end surface of the first door at an opening time of the first door; wherein the guide mechanism includes a protruding portion disposed on one of the apparatus main body and the swing partitioning body and a guide portion that is disposed on other one of the apparatus main body and the swing partitioning body to guide the protruding portion; and the one of the protruding portion and the guide portion is biased in a shaft direction, and evacuates in the shaft direction upon colliding with the other one with force greater than a predetermined value when the first door the swing partitioning body of which is disposed at the closing position is opened.

IPC 8 full level
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CPC (source: EP RU)
F25D 23/02 (2013.01 - RU); **F25D 23/028** (2013.01 - EP); **F25D 2323/021** (2013.01 - EP)

Citation (search report)
• [X] WO 2012123035 A1 20120920 - VESTEL BEYAZ ESYA SANAYI VE TICARET AS [TR], et al
• [X] JP H01208690 A 19890822 - SANYO ELECTRIC CO
• [I] EP 2169335 A2 20100331 - SAMSUNG ELECTRONICS CO LTD [KR]
• [I] WO 2011037410 A2 20110331 - LG ELECTRONICS INC [KR], et al
• See references of WO 2014175443A1

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)
EP 2990746 A1 20160302; **EP 2990746 A4 20161228**; **EP 2990746 B1 20210127**; CN 203908173 U 20141029; JP 2014214993 A 20141117; JP 6095113 B2 20170315; MY 177730 A 20200923; RU 2609370 C1 20170201; WO 2014175443 A1 20141030

DOCDB simple family (application)
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