

Title (en)  
REFRIGERATOR

Title (de)  
KÜHLSCHRANK

Title (fr)  
RÉFRIGÉRATEUR

Publication  
**EP 4220048 A1 20230802 (EN)**

Application  
**EP 23153674 A 20230127**

Priority  

- KR 20220013733 A 20220128
- KR 20220076729 A 20220623
- KR 20220088733 A 20220719

Abstract (en)  
A refrigerator comprising: a cabinet (10) having a storage space; a door (20) for opening and closing the cabinet (10); and a detection device (50) provided on one surface of the door (20), the detection device (50) is provided for recognizing a user in front of the door (20) and/or for detecting ambient brightness, wherein at least a portion of the detection device (50) is accommodated inside the door (20).

IPC 8 full level  
**F25D 23/02** (2006.01); **F25D 27/00** (2006.01)

CPC (source: EP US)  
**F25D 23/028** (2013.01 - EP); **F25D 27/005** (2013.01 - EP US); **F25D 29/005** (2013.01 - US); **F25D 2327/001** (2013.01 - EP US); **F25D 2700/04** (2013.01 - EP US)

Citation (applicant)  
KR 20210145302 A 20211201 - LG ELECTRONICS INC [KR]

Citation (search report)  

- [XYI] EP 3685708 A1 20200729 - LG ELECTRONICS INC [KR]
- [X] US 2021063080 A1 20210304 - YEOM TAE JIN [KR]
- [XY] WO 2015004887 A1 20150115 - TOSHIBA KK [JP], et al
- [XA] CN 113865248 A 20211231 - CHANGHONG MELING CO LTD
- [XD] US 2019086141 A1 20190321 - KIM JINSUNG [KR], et al
- [A] WO 2018075157 A1 20180426 - YETI COOLERS LLC [US]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4220048 A1 20230802**; US 2023243581 A1 20230803

DOCDB simple family (application)  
**EP 23153674 A 20230127**; US 202318102478 A 20230127