

Title (en)
LIGHTING SYSTEM FOR A HOUSEHOLD APPLIANCE

Title (de)
BELEUCHTUNGSSYSTEM FÜR EIN HAUSHALTSGERÄT

Title (fr)
SYSTÈME D'ÉCLAIRAGE POUR UN APPAREIL MÉNAGER

Publication
EP 3771291 A1 20210127 (EN)

Application
EP 19187656 A 20190722

Priority
EP 19187656 A 20190722

Abstract (en)
A method of controlling illumination in a household appliance (40) including receiving ranging measurement data from each of a plurality of distance sensors (101, 102, 103) arranged at fixed positions relative to the appliance. The ranging measurement data indicates a distance reading taken by the respective distance sensor. The position of an object relative to the appliance can be determined from the received ranging measurement data, and at least one area (401-1, 401-2, 401-3) of the appliance can be identified based on the determined position of the object. A control signal to adjust the illumination of the identified area is then transmitted to at least one of a plurality of lighting devices (20-1, 20-2, 20-3) of the appliance.

IPC 8 full level
F24C 15/00 (2006.01)

CPC (source: EP)
F24C 15/008 (2013.01); **F25D 27/005** (2013.01); **H05B 47/105** (2020.01); **F21W 2131/305** (2013.01); **F24C 7/082** (2013.01); **F25D 2700/06** (2013.01)

Citation (applicant)
JP 2008151359 A 20080703 - MATSUSHITA ELECTRIC IND CO LTD

Citation (search report)
• [X1] US 2015035432 A1 20150205 - KENDALL JAMES W [US], et al
• [X1] US 2015193716 A1 20150709 - TANIGAWA TORU [JP], et al
• [X1] US 2012112668 A1 20120510 - VAN DE SLUIS BARTEL MARINUS [NL], et al
• [A] DE 102008058022 A1 20100520 - LIEBHERR HAUSGERÄTE [DE]
• [A] US 2017188436 A1 20170629 - KENDALL JAMES W [US], et al
• [A] CN 104913591 A 20150916 - HEFEI MIDEA REFRIGERATOR CO, et al
• [A] WO 2016107682 A1 20160707 - ARCELIK AS [TR]

Cited by
CN116222141A; EP4336971A1; US2023366559A1; US11953209B2

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)
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DOCDB simple family (application)
EP 19187656 A 20190722; CN 2020103585 W 20200722