

Title (en)

DOMESTIC APPLIANCE COMPRISING A DISPLAY DEVICE WITH A VARIABLE-INTENSITY LIGHT IMAGE, AND METHOD

Title (de)

HAUSHALTSGERÄT MIT EINER ANZEIGEEINRICHTUNG MIT INTENSITÄTSVARIABLEN LICHTBILD, SOWIE VERFAHREN

Title (fr)

APPAREIL ÉLECTROMÉNAGER COMPRENANT UN SYSTÈME D'AFFICHAGE AVEC UNE IMAGE LUMINEUSE À INTENSITÉ VARIABLE, ET PROCÉDÉ ASSOCIÉ

Publication

**EP 3762653 B1 20221109 (DE)**

Application

**EP 18826678 A 20181220**

Priority

- DE 102018203598 A 20180309
- EP 2018086284 W 20181220

Abstract (en)

[origin: WO2019170273A1] The present invention relates to a domestic appliance (100) comprising an appliance wall (107) and a display device (117) for displaying an operational value of the domestic appliance (100), wherein the display device (117) is arranged on the appliance wall (107), wherein a luminous area (121) facing an external region (111) of the domestic appliance (100) is arranged on a display front side (119) of the display device (117). The display device (117) comprises a plurality of luminous regions (129, 129-1, 129-2, 129-3, 163) that are arranged next to one another and separated from one another by separation walls (131), wherein respectively one luminous element (125) is arranged in each luminous region (129, 129-1, 129-2, 129 to 3, 163) at a back side (123) of the display device (117) and embodied to emit light (127) in the direction of the luminous area (121), wherein the separation walls (131) extend in sections from the back side (123) of the display device (117) in the direction of the luminous area (121), wherein separation walls (131) that are adjacent in each case restrict a light cone (136) of the emitted light, wherein the separation walls (131) each have a separation wall end (133) that is spaced apart from the luminous area (121), wherein an overlap region (135) is arranged in each case between the respective separation wall end (133) and the luminous area (121) and wherein light cones (136) that are adjacent each case overlap in the respective overlap region (135) in order to ensure a uniform illumination of the luminous area (121).

IPC 8 full level

**F24C 7/08** (2006.01); **A47L 11/32** (2006.01); **A47L 11/34** (2006.01); **A47L 11/40** (2006.01); **D06F 34/32** (2020.01); **F21V 5/00** (2018.01); **F21V 5/10** (2018.01); **F21V 11/16** (2006.01); **F25D 29/00** (2006.01); **G09F 23/00** (2006.01); **F21Y 103/10** (2016.01); **F21Y 115/10** (2016.01)

CPC (source: CN EP)

**A47L 11/34** (2013.01 - EP); **A47L 11/4008** (2013.01 - EP); **D06F 34/32** (2020.02 - EP); **F21V 11/16** (2013.01 - EP); **F24C 7/082** (2013.01 - EP); **G09F 13/0409** (2013.01 - CN); **G09F 23/0058** (2013.01 - EP); **F21Y 2103/10** (2016.07 - EP); **F21Y 2115/10** (2016.07 - EP); **F25D 29/005** (2013.01 - EP); **F25D 2400/36** (2013.01 - EP); **G09F 13/0413** (2013.01 - CN)

Citation (examination)

DE 102015208195 A1 20161110 - BSH HAUSGERAETE GMBH [DE]

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)

**WO 2019170273 A1 20190912**; CN 110246434 A 20190917; CN 110246434 B 20220729; DE 102018203598 A1 20190912; EP 3762653 A1 20210113; EP 3762653 B1 20221109

DOCDB simple family (application)

**EP 2018086284 W 20181220**; CN 201910175855 A 20190308; DE 102018203598 A 20180309; EP 18826678 A 20181220