

Title (en)

MULTICHAMBER GAS-FILLED INSULATED GLASS UNIT

Title (de)

GASGEFÜLLTE ISOLIERTE MEHRKAMMERGLASEINHEIT

Title (fr)

UNITÉ DE VERRE ISOLANT À PLUSIEURS CHAMBRES REMPLIE DE GAZ

Publication

EP 3323952 B1 20200708 (EN)

Application

EP 16199627 A 20161118

Priority

EP 16199627 A 20161118

Abstract (en)

[origin: EP3323952A1] A multichamber gas-filled insulated glass unit (10), comprising: an outer pane (1) having a solar direct transmittance $\tilde{A}_{e,outer}$ and a solar direct absorptance $\pm e_{outer}$, an inner pane (2), at least three chambers (3, 3.1) divided by intermediate panes (4, 4.1), wherein the two intermediate panes (4) closest to said outer pane (1) have an average value $av(\pm e_{inter})$ of the solar direct absorptance $\pm e_{inter}$, wherein said chambers (3) comprise a group of sealed chambers (3) filled with an insulating gas having a thermal conductivity of κ , wherein the values for $\tilde{A}_{e,outer}$, $\pm e_{outer}$, $av(\pm e_{inter})$ and the total number N of outer, inner and intermediate panes (1, 2, 4, 4.1) are chosen such that a parameter T, which is defined as: $T = 106 \# \pm e_{outer} 0.07 \# \tilde{A}_{e,outer} 0.32 \# av \pm e_{inter} 0.32 \# N 1 + \gg \#\# \gg ar \gg kr \#\# \gg ar \# 0.4 0.466$ obeys $T < 95$, preferably $T < 90$, and more preferably $T < 85$, and most preferably $T < 80$.

IPC 8 full level

E04B 1/80 (2006.01); **E06B 3/663** (2006.01); **E06B 3/67** (2006.01)

CPC (source: EP)

E04B 1/806 (2013.01); **E06B 3/663** (2013.01); **E06B 3/6722** (2013.01)

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 3323952 A1 20180523; **EP 3323952 B1 20200708**; DK 3323952 T3 20200914; PL 3323952 T3 20201116; SI 3323952 T1 20201030; WO 2018091576 A1 20180524

DOCDB simple family (application)

EP 16199627 A 20161118; DK 16199627 T 20161118; EP 2017079420 W 20171116; PL 16199627 T 20161118; SI 201630890 T 20161118