

Title (en)

COMPOSITE PANE HAVING HEATABLE REGIONS AND INTENDED FOR A PROJECTION ASSEMBLY

Title (de)

BEREICHSWEISE BEHEIZBARE VERBUNDSCHEIBE FÜR EINE PROJEKTIONSANORDNUNG

Title (fr)

VITRE COMPOSITE À ZONES CHAUFFANTES ET DESTINÉE À UN ENSEMBLE DE PROJECTION

Publication

EP 4337464 A1 20240320 (DE)

Application

EP 22725255 A 20220426

Priority

- EP 21173544 A 20210512
- EP 2022060948 W 20220426

Abstract (en)

[origin: WO2022238101A1] The invention relates to a composite pane (1), in particular for a projection assembly (100), at least comprising: an outer pane (2), an inner pane (3) and a thermoplastic intermediate layer (4) arranged between the outer pane (2) and the inner pane (3), wherein the outer pane (2) and the inner pane (3) each have an outer side (I, III) and an inner side (II, IV) and the inner side (II) of the outer pane (2) and the outer side (III) of the inner pane (3) are facing one another, and the thermoplastic intermediate layer (4) contains, or consists of, at least one masking layer (5) and the masking layer (5) is opaque at least in one region (5'); a heating element (6) arranged within the opaque region (5') of the masking layer (5); and a reflective layer (11) which is suitable for reflecting visible light (12), wherein the reflective layer (11) is arranged spatially in front of the masking layer (5) in the line of sight from the inner pane (3) to the outer pane (2) and overlaps at least partially with the opaque region (5') of the masking layer (5).

IPC 8 full level

B32B 17/10 (2006.01); **B60J 1/02** (2006.01); **G02B 27/01** (2006.01); **H05B 3/86** (2006.01)

CPC (source: EP KR US)

B32B 1/00 (2013.01 - EP); **B32B 3/08** (2013.01 - EP); **B32B 3/18** (2013.01 - EP); **B32B 5/142** (2013.01 - EP); **B32B 7/023** (2019.01 - EP KR);
B32B 7/12 (2013.01 - EP); **B32B 17/10036** (2013.01 - EP KR US); **B32B 17/10091** (2013.01 - EP); **B32B 17/10201** (2013.01 - EP);
B32B 17/10211 (2013.01 - EP); **B32B 17/1022** (2013.01 - EP); **B32B 17/10229** (2013.01 - EP US); **B32B 17/10348** (2013.01 - EP US);
B32B 17/10385 (2013.01 - EP US); **B32B 17/1066** (2013.01 - EP US); **B32B 17/10761** (2013.01 - EP US); **B32B 17/1077** (2013.01 - EP US);
B32B 17/10788 (2013.01 - EP); **B32B 17/10899** (2013.01 - KR); **B32B 17/10935** (2013.01 - EP US); **B32B 27/08** (2013.01 - EP);
B32B 27/20 (2013.01 - EP); **B32B 27/22** (2013.01 - EP); **B32B 27/30** (2013.01 - EP); **B32B 27/306** (2013.01 - EP); **B32B 27/36** (2013.01 - EP);
B32B 27/40 (2013.01 - EP); **B60J 1/001** (2013.01 - KR); **B60K 35/23** (2024.01 - KR); **G02B 5/3066** (2013.01 - EP KR);
G02B 27/0101 (2013.01 - EP KR US); **G02B 27/286** (2013.01 - EP); **H05B 3/20** (2013.01 - US); **H05B 3/86** (2013.01 - EP KR);
B32B 2255/10 (2013.01 - EP); **B32B 2255/20** (2013.01 - EP); **B32B 2255/205** (2013.01 - EP); **B32B 2255/28** (2013.01 - EP);
B32B 2262/103 (2013.01 - EP); **B32B 2307/202** (2013.01 - EP); **B32B 2307/4023** (2013.01 - EP); **B32B 2307/4026** (2013.01 - EP);
B32B 2307/41 (2013.01 - EP); **B32B 2307/412** (2013.01 - EP KR); **B32B 2307/416** (2013.01 - EP KR); **B32B 2457/20** (2013.01 - EP US);
B32B 2605/00 (2013.01 - US); **B32B 2605/08** (2013.01 - EP KR); **G02B 2027/012** (2013.01 - EP KR); **G02B 2027/0194** (2013.01 - EP KR US);
H05B 2203/014 (2013.01 - EP); **H05B 2203/015** (2013.01 - KR)

C-Set (source: EP)

B32B 17/10005 + B32B 2367/00

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022238101 A1 20221117; CN 115623866 A 20230117; EP 4337464 A1 20240320; KR 20230171460 A 20231220;
US 2024157680 A1 20240516

DOCDB simple family (application)

EP 2022060948 W 20220426; CN 202280002120 A 20220426; EP 22725255 A 20220426; KR 20237039049 A 20220426;
US 202218546743 A 20220426