

Title (en)

COMPOSITE PANE COMPRISING ELECTRICALLY CONTROLLABLE OPTICAL PROPERTIES, AND CONTROL UNIT

Title (de)

VERBUNDSCHIEBE MIT ELEKTRISCH STEUERBAREN OPTISCHEN EIGENSCHAFTEN UND STEUEREINHEIT

Title (fr)

VITRE COMPOSITE COMPRENANT DES PROPRIÉTÉS OPTIQUES POUVANT ÊTRE COMMANDÉES ÉLECTRIQUEMENT, ET UNITÉ DE COMMANDE

Publication

EP 4281285 A1 20231129 (DE)

Application

EP 22701305 A 20220111

Priority

- DE 102021101109 A 20210120
- EP 2022050412 W 20220111

Abstract (en)

[origin: WO2022157035A1] The invention relates to a composite pane with electrically controllable optical properties, comprising an outer pane (1) and an inner pane (2) which are connected together via a thermoplastic intermediate layer (3). A functional element (4) with electrically controllable optical properties is integrated into the intermediate layer (3), wherein a securing element (10) is attached to the surface (I, IV) of the outer pane (1) or the inner pane (2) facing away from the intermediate layer (3) in order to reversibly secure a control unit (11), and a control unit (11) is arranged in the securing element (10), said control unit being suitable for controlling the optical properties of the functional element (4).

IPC 8 full level

B32B 3/08 (2006.01); **B32B 7/12** (2006.01); **B32B 17/10** (2006.01)

CPC (source: EP US)

B32B 3/085 (2013.01 - EP US); **B32B 7/12** (2013.01 - EP); **B32B 17/10036** (2013.01 - EP US); **B32B 17/10504** (2013.01 - US); **B32B 17/10513** (2013.01 - EP US); **B32B 17/10532** (2013.01 - EP US); **B32B 17/1055** (2013.01 - EP); **B32B 17/10761** (2013.01 - US); **B32B 17/10807** (2013.01 - US); **B60J 3/04** (2013.01 - US); **E06B 3/6722** (2013.01 - US); **E06B 9/24** (2013.01 - US); **G02F 1/1334** (2013.01 - US); **G02F 1/133512** (2013.01 - US); **G02F 1/13452** (2013.01 - US); **G02F 1/157** (2013.01 - US); **G02F 1/1677** (2019.01 - US); **B32B 2419/00** (2013.01 - US); **B32B 2605/00** (2013.01 - US); **E06B 2009/2464** (2013.01 - 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 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 2022157035 A1 20220728; CN 115397659 A 20221125; EP 4281285 A1 20231129; US 2024066840 A1 20240229

DOCDB simple family (application)

EP 2022050412 W 20220111; CN 202280000452 A 20220111; EP 22701305 A 20220111; US 202218262312 A 20220111