

Title (en)

LAMINATED PANE WITH ELECTRICALLY CONTROLLABLE OPTICAL PROPERTIES, AND LAMINATED PANE ASSEMBLY

Title (de)

VERBUNDSCHIEBE MIT ELEKTRISCH STEUERBAREN OPTISCHEN EIGENSCHAFTEN UND VERBUNDSCHIEBENANORDNUNG

Title (fr)

VITRE COMPOSITE À PROPRIÉTÉS OPTIQUES COMMANDABLES ÉLECTRIQUEMENT ET ARRANGEMENT DE VITRE COMPOSITE

Publication

EP 3917773 A1 20211208 (DE)

Application

EP 20700119 A 20200109

Priority

- EP 19154492 A 20190130
- EP 2020050392 W 20200109

Abstract (en)

[origin: WO2020156773A1] The invention relates to a laminated pane (1) with electrically controllable optical properties, comprising an outer pane (2a) and an inner pane (2b), which are connected to one another by way of a thermoplastic intermediate layer (3), wherein an optoelectronic functional element (4; S), with electrically controllable optical properties, is incorporated in the intermediate layer (3) and comprises an active layer (5), to which transparent sheet-like control electrodes (8, 9) are assigned on both surfaces, between a first carrier film (6) and a second carrier film (7), wherein the intermediate layer (3), which surrounds the optoelectronic functional element, and the carrier films (6, 7) each contain thermoplastic material, and at least one capacitive touch element is integrated in the optoelectronic functional element in such a way that a portion of at least one control electrode of the optoelectronic functional element is separated and provided with a signal lead for detecting a capacitive touch- or approach signal.

IPC 8 full level

B32B 17/10 (2006.01); **B60J 1/06** (2006.01); **E06B 3/67** (2006.01); **E06B 9/24** (2006.01)

CPC (source: EP KR US)

B32B 17/10036 (2013.01 - EP KR US); **B32B 17/10174** (2013.01 - EP KR US); **B32B 17/10348** (2013.01 - EP KR US); **B32B 17/10495** (2013.01 - EP KR); **B32B 17/10504** (2013.01 - EP KR US); **B32B 17/10532** (2013.01 - EP KR); **B60J 3/04** (2013.01 - EP KR US); **E06B 3/6722** (2013.01 - EP KR US); **E06B 9/24** (2013.01 - EP KR US); **B32B 17/10532** (2013.01 - US); **B32B 2605/006** (2013.01 - US); **E06B 2009/2464** (2013.01 - EP KR)

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)

WO 2020156773 A1 20200806; CN 111886133 A 20201103; CN 111886133 B 20230331; EP 3917773 A1 20211208; JP 2022520335 A 20220330; KR 20210109580 A 20210906; MA 54853 A 20220504; US 11964453 B2 20240423; US 2022024187 A1 20220127

DOCDB simple family (application)

EP 2020050392 W 20200109; CN 202080000252 A 20200109; EP 20700119 A 20200109; JP 2021544551 A 20200109; KR 20217023846 A 20200109; MA 54853 A 20200109; US 202017297300 A 20200109