

Title (en)  
TRANSPARENT WINDOW PANE WITH ELECTRICAL HEATING LAYER

Title (de)  
TRANSPARENTE FENSTERSCHEIBE MIT ELEKTRISCHER HEIZSCHICHT

Title (fr)  
CARREAU DE FENÊTRE TRANSPARENT AVEC COUCHE DE CHAUFFAGE ÉLECTRIQUE

Publication  
**EP 3220716 A1 20170920 (EN)**

Application  
**EP 16160226 A 20160314**

Priority  
EP 16160226 A 20160314

Abstract (en)  
A transparent window pane (1) comprises a main heating layer (6) and an additional heating layer (8) electrically isolated from each other, a first and a second electrode (11, 12) adapted to be electrically connected to a main power source and electrically connected directly to the main heating layer (6) such that after application of a supply voltage, a main heating current flows through the main heating layer (6) between the first and second electrodes (11, 12), and at least one conducting part (20) adapted to be electrically connected to the main power source or another power source. The conducting part (20) is interrupted by interruption zones (21), whereby the conducting part is formed of a plurality of conducting elements (22) physically separated from each other. Each conducting element (22) is electrically connected to the additional heating layer (8), such that after application of a supply voltage to the conducting part (20), an additional heating current flows through the heating layer (8) in each interruption zone (21).

IPC 8 full level  
**H05B 3/84** (2006.01)

CPC (source: EP)  
**H05B 3/84** (2013.01); **H05B 2203/007** (2013.01); **H05B 2203/011** (2013.01); **H05B 2203/013** (2013.01); **H05B 2203/031** (2013.01)

Citation (applicant)  
WO 2008104728 A2 20080904 - SAINT GOBAIN [FR], et al

Citation (search report)  
• [XAI] WO 03051088 A2 20030619 - SAINT GOBAIN [FR], et al  
• [XAI] WO 2016020114 A1 20160211 - SAINT GOBAIN [FR]  
• [XA] JP H0246683 A 19900216 - NIPPON DENSO CO  
• [X] WO 2011141487 A1 20111117 - SAINT GOBAIN [FR], et al

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)  
**EP 3220716 A1 20170920**; BR 112018016549 A2 20181226; CA 3015133 A1 20170921; CN 108141918 A 20180608;  
WO 2017157795 A1 20170921

DOCDB simple family (application)  
**EP 16160226 A 20160314**; BR 112018016549 A 20170310; CA 3015133 A 20170310; CN 201780000589 A 20170310;  
EP 2017055705 W 20170310