

Title (en)

House door leaf with chamfered or rounded fold area, house door with same and production method

Title (de)

Haustürblatt mit abgeschägtem oder abgerundetem Falzbereich, damit versehene Haustür sowie Herstellungsverfahren

Title (fr)

Feuille de porte d'habitation dotée d'une zone de pliure biseautée ou arrondie, porte d'habitation en étant pourvue ainsi que procédé de fabrication

Publication

EP 2241714 A3 20130904 (DE)

Application

EP 10158878 A 20100331

Priority

- DE 102009016558 A 20090406
- DE 102009032039 A 20090707

Abstract (en)

[origin: EP2241713A2] The leaf (12) has a heat insulation device (112) containing a nanoporous insulation material (148), which comprises a nanoporous particle medium. The medium lies as a free-flowing particle in the device. The free-flowing particle is packed in a package (136) in a pressed manner. The package forms a vacuum insulation plate (118), and the heat insulation device contains a layer made of a foamed insulation material (39) i.e. polyurethane foam. A distance holding device (98) comprises sectional strips (22, 46, 58, 58a) with sectional areas (60, 62) made of fiber-reinforced plastic material (35). An independent claim is also included for a method for manufacturing a house door leaf.

IPC 8 full level

E06B 3/72 (2006.01); **E06B 3/26** (2006.01)

CPC (source: EP)

E06B 1/325 (2013.01); **E06B 3/26303** (2013.01); **E06B 3/7015** (2013.01); **E06B 3/72** (2013.01); **E06B 3/726** (2013.01); **E06B 2001/707** (2013.01); **E06B 2003/2625** (2013.01); **E06B 2003/7026** (2013.01)

Citation (search report)

- [XA] US 4389817 A 19830628 - OLBERDING LEONARD E [US]
- [XY] DE 202006004360 U1 20060601 - KTA GMBH & CO KG [DE]
- [Y] WO 2004065742 A2 20040805 - POLYMER ENGINEERING LTD [GB], et al
- [A] WO 0104448 A1 20010118 - WALDAU UWE [CN], et al
- [A] US 5800651 A 19980901 - WILLIAMSON GERALD F [US]
- [A] US 5376449 A 19941227 - HARRIS MICHAEL T [US], et al
- [Y] DE 4035051 A1 19920507 - KERSPE JOBST H DR ING [DE], et al
- [YA] CH 656669 A5 19860715 - BACHMANN OTTO
- [A] DE 29819925 U1 19990408 - FIBROLUX GMBH [DE]
- [Y] DR PETER RANDEL: "Nanoporöse Daemmstoffe auf Basis fumed Silica", VIP - BAU, FACHTAGUNG, ROSTOCK-WARNEMUENDE, DE, 10 July 2003 (2003-07-10), pages C1 - C4, XP009169053

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

EP 2241713 A2 20101020; EP 2241713 A3 20130619; EP 2241713 B1 20140702; DE 102009032039 A1 20101007;
DE 102009032039 B4 20160324; DE 102009032040 A1 20101007; DE 102009032041 A1 20101007; EP 2241714 A2 20101020;
EP 2241714 A3 20130904; EP 2241715 A2 20101020; EP 2241715 A3 20130828; EP 2241715 B1 20140716; EP 2241715 B2 20180214

DOCDB simple family (application)

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EP 10158878 A 20100331; EP 10159045 A 20100401