

Title (en)

Connection between panel and frame

Title (de)

Verbund zwischen Rahmen und Füllung

Title (fr)

Liaison entre cadre et panneau

Publication

**EP 1645714 B1 20070829 (DE)**

Application

**EP 05020663 A 20050922**

Priority

- DE 102004049414 A 20041008
- DE 102004055111 A 20041115

Abstract (en)

[origin: EP1645714A1] The frame and filler unit (100), in particular, in the form of a window or a door comprises a holding element (130) keeping the filler (110) joined to the frame (120) when the filler is forced out of the frame opening as a result of an explosion. The filler is removable from the frame only when the connector element (150) is broken.

IPC 8 full level

**E06B 5/12** (2006.01)

CPC (source: EP US)

**E06B 5/12** (2013.01 - EP US); **E06B 5/125** (2013.01 - EP US); **E05D 15/52** (2013.01 - EP US); **E05Y 2900/10** (2013.01 - EP US); **E05Y 2900/132** (2013.01 - EP US); **E05Y 2900/148** (2013.01 - EP US)

Cited by

CN111703224A; EP2725179A1; EP2789784A1; FR3066218A1; US2023016273A1; US7818944B2; WO2008139201A3; WO2006070159A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1645714 A1 20060412**; **EP 1645714 B1 20070829**; AT E371798 T1 20070915; DE 102004055111 A1 20060614; DE 502005001363 D1 20071011; PL 1645714 T3 20080131; US 2006080894 A1 20060420

DOCDB simple family (application)

**EP 05020663 A 20050922**; AT 05020663 T 20050922; DE 102004055111 A 20041115; DE 502005001363 T 20050922; PL 05020663 T 20050922; US 24577905 A 20051007