

Title (en)

Fireproof glazing

Title (de)

Feuerwiderstandsfähige Verglasung

Title (fr)

Vitrage résistant au feu

Publication

EP 0753639 B1 20020313 (FR)

Application

EP 96401475 A 19960704

Priority

DE 19525263 A 19950711

Abstract (en)

[origin: US5698277A] A fire-resistant glazing system has two silicate glass sheets (1, 2) which are kept at a distance at the edge via a spacer frame and via adhesive layers (6, 7, 8) and are connected to one another in a sealing manner. The interspace is filled with a hydrogel (9) containing a water-soluble salt. The spacer frame (3, 4, 5) comprises silicate glass strips. The lower thermal conduction of the glass strips compared with known spacer frames made from steel delays warming, which generally results in destruction of the glass sheet, of the edge region of the glass sheet facing away from the fire source. This enables a greater fire resistance period to be achieved for the same thickness of the glazing. Fire protection glasses having the same fire resistance classes, but lower thickness, can thus be produced.

IPC 1-7

E06B 5/16; **E06B 3/663**

IPC 8 full level

E06B 3/66 (2006.01); **C03C 27/06** (2006.01); **E06B 3/663** (2006.01); **E06B 5/16** (2006.01)

CPC (source: EP US)

E06B 3/66333 (2013.01 - EP US); **E06B 5/165** (2013.01 - EP US); **Y10S 428/92** (2013.01 - EP US); **Y10S 428/921** (2013.01 - EP US); **Y10T 428/24322** (2015.01 - EP US)

Cited by

EP3254847A1; WO2017211633A1; EP3254846A1; DE102014114241A1; WO2009007452A1; EP3165700A1; DE102015119042A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB IT LI LU NL PT SE

DOCDB simple family (publication)

US 5698277 A 19971216; AT E214458 T1 20020315; DE 19525263 A1 19970306; DE 29608160 U1 19960711; DE 69619737 D1 20020418; DE 69619737 T2 20040311; DK 0753639 T3 20020708; EP 0753639 A2 19970115; EP 0753639 A3 19980311; EP 0753639 B1 20020313; ES 2173260 T3 20021016; JP H09118547 A 19970506; PT 753639 E 20020930

DOCDB simple family (application)

US 67802196 A 19960710; AT 96401475 T 19960704; DE 19525263 A 19950711; DE 29608160 U 19960504; DE 69619737 T 19960704; DK 96401475 T 19960704; EP 96401475 A 19960704; ES 96401475 T 19960704; JP 17788196 A 19960708; PT 96401475 T 19960704