

Title (en)
FIRE-RESISTANT OPENING SEAL

Title (de)
FEUERWIDERSTANDSFÄHIGER ÖFFNUNGSVERSCHLUSS

Title (fr)
OBTURATION D'OUVERTURE A L'EPREUVE DU FEU

Publication
EP 0960251 B1 20030402 (DE)

Application
EP 98908030 A 19980131

Priority
• DE 19704833 A 19970208
• EP 9800517 W 19980131

Abstract (en)
[origin: US6544445B1] A fire-resistant composite substrate for use in making structural openings fire-resistant, the substrate containing: (a) elastically compressible particles; (b) at least one heat-activated expanding agent; (c) at least one heat-activated binder; and (d) a diisocyanate adhesive.

IPC 1-7
E06B 5/16; **E04B 1/94**

IPC 8 full level
A62C 3/16 (2006.01); **E04B 1/94** (2006.01); **E06B 5/16** (2006.01)

CPC (source: EP US)
A62C 3/16 (2013.01 - EP US); **Y10S 428/913** (2013.01 - EP US); **Y10S 428/92** (2013.01 - EP US); **Y10S 428/921** (2013.01 - EP US); **Y10T 442/696** (2015.04 - EP US); **Y10T 442/699** (2015.04 - EP US)

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 6544445 B1 20030408; AT E236337 T1 20030415; AU 6618298 A 19980826; AU 721890 B2 20000713; DE 19704833 A1 19980813; DE 59807738 D1 20030508; DK 0960251 T3 20030728; EP 0960251 A1 19991201; EP 0960251 B1 20030402; WO 9835122 A1 19980813

DOCDB simple family (application)
US 36709299 A 19990806; AT 98908030 T 19980131; AU 6618298 A 19980131; DE 19704833 A 19970208; DE 59807738 T 19980131; DK 98908030 T 19980131; EP 9800517 W 19980131; EP 98908030 A 19980131