

Title (en)
Flame retardant shingle

Title (de)
Schwerentflammbare Schindel

Title (fr)
Bardeau résistant à la flamme

Publication
EP 0881338 A3 20011010 (DE)

Application
EP 98109718 A 19980528

Priority
DE 29709804 U 19970530

Abstract (en)
[origin: US6436510B1] The present invention relates to a low-flammability shingle comprising at least one double-sidedly bituminized textile sheet material to whose surface has been applied a pulverulent or flaky flame protectant at least single-sidedly, and to roofs comprising these shingles.

IPC 1-7
E04D 1/22; **D06N 5/00**; **D06N 3/00**

IPC 8 full level
D06N 3/00 (2006.01); **D06N 5/00** (2006.01); **E04D 1/22** (2006.01)

CPC (source: EP US)
D06N 3/0056 (2013.01 - EP US); **D06N 5/00** (2013.01 - EP US); **E04D 1/22** (2013.01 - EP US); **Y10S 428/92** (2013.01 - EP US); **Y10S 428/921** (2013.01 - EP US); **Y10T 428/24364** (2015.01 - EP US); **Y10T 428/24372** (2015.01 - EP US); **Y10T 428/24421** (2015.01 - EP US); **Y10T 428/2443** (2015.01 - EP US)

Citation (search report)

- [X] EP 0745718 A2 19961204 - HOECHST TREVIRA GMBH & CO KG [DE]
- [X] EP 0634515 A1 19950118 - BOERNER GEORG CHEM WERK [DE]
- [XA] EP 0162391 A2 19851127 - HOECHST AG [DE]
- [XA] US 3276906 A 19661004 - NIELSEN CARL L
- [A] EP 0573363 A1 19931208 - AMERICAN HEARTLAND ROOFING PRO [US]
- [A] US 4234639 A 19801118 - GRAHAM JOSEPH
- [A] US 3365322 A 19680123 - HINDS CARYL E

Cited by
AT503803B1; AT504704B1

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

DOCDB simple family (publication)
US 6436510 B1 20020820; AT E392516 T1 20080515; CA 2235186 A1 19981130; CA 2235186 C 20080722; DE 29709804 U1 19970814; DE 59814217 D1 20080529; EP 0881338 A2 19981202; EP 0881338 A3 20011010; EP 0881338 B1 20080416; NO 981441 D0 19980331; NO 981441 L 19981201

DOCDB simple family (application)
US 8642898 A 19980528; AT 98109718 T 19980528; CA 2235186 A 19980420; DE 29709804 U 19970530; DE 59814217 T 19980528; EP 98109718 A 19980528; NO 981441 A 19980331