

Title (en)
MINERAL FIBER COMPOSITIONS

Title (de)
MINERALFASERZUSAMMENSETZUNGEN

Title (fr)
COMPOSITIONS DE FIBRES MINERALES

Publication
EP 0946356 A4 20000621 (EN)

Application
EP 97932411 A 19970708

Priority
• US 9711432 W 19970708
• US 74184996 A 19961031
• US 77841996 A 19961231

Abstract (en)
[origin: WO9818618A1] Mineral fiber compositions are disclosed which, in a first embodiment, include the following components, indicated in weight percents: about 54 to about 70 percent SiO₂, about 0 to about 4 percent Al₂O₃, about 0 to about 6 percent Na₂O, about 0 to about 6 percent K₂O, about 0 to about 6 percent MgO, about 10 to about 28 percent CaO, about 6 to about 17 percent total iron as FeO, and about 0 to about 5 percent TiO₂, wherein the total weight percent of SiO₂ and Al₂O₃ ranges from about 56 percent to about 72 percent, the total weight percent of MgO and CaO ranges from about 12 percent to about 28 percent, the total weight percent of Na₂O and K₂O does not exceed 6 percent, and the total weight percent of all components, including trace elements, if any, is 100 percent. In a second embodiment, the compositions include the following components, indicated in weight percents: about 50 to about 68 percent SiO₂, about 0 to about 4 percent Al₂O₃, about 0 to about 6 percent K₂O, about 0 to about 6 percent Na₂O, about 0 to about 10 percent MgO, about 10 to about 28 percent CaO, about 6 to about 16 percent total iron as FeO, about 0 to about 5 percent TiO₂, and about 0.5 to about 12 percent ZrO₂, wherein the total weight of Na₂O and K₂O does not exceed 6 percent and the total weight of all components, including trace elements, if any, is 100 percent.

IPC 1-7
B32B 9/00; **D02G 3/00**; **C03C 13/02**; **C03C 13/06**; **C03C 13/00**

IPC 8 full level
B32B 19/00 (2006.01); **C03C 13/00** (2006.01); **C03C 13/02** (2006.01); **C03C 13/06** (2006.01); **D02G 3/00** (2006.01)

CPC (source: EP KR)
B32B 19/00 (2013.01 - KR); **C03C 13/00** (2013.01 - EP); **C03C 2213/02** (2013.01 - EP)

Citation (search report)
• [A] WO 9600196 A1 19960104 - ROCKWOOL INT [DK], et al
• [A] WO 9322251 A1 19931111 - SAINT GOBAIN ISOVER [FR], et al
• [A] WO 9616913 A1 19960606 - SAINT GOBAIN ISOVER [FR], et al
• [A] SU 249577 A
• See references of WO 9818618A1

Designated contracting state (EPC)
AT BE DE DK FI FR GB NL SE

DOCDB simple family (publication)
WO 9818618 A1 19980507; AU 3587397 A 19980522; AU 728381 B2 20010111; CA 2267445 A1 19980507; EP 0946356 A1 19991006; EP 0946356 A4 20000621; JP 2001524063 A 20011127; KR 20000052666 A 20000825; NO 991990 D0 19990427; NO 991990 L 19990427; TW 397872 B 20000711

DOCDB simple family (application)
US 9711432 W 19970708; AU 3587397 A 19970708; CA 2267445 A 19970708; EP 97932411 A 19970708; JP 52043298 A 19970708; KR 19997003448 A 19990420; NO 991990 A 19990427; TW 86109815 A 19970711