Title (en)

INORGANIC FIBER

Title (de)

ANORGANISCHE FASER

Title (fr)

FIBRE INORGANIQUE

Publication

EP 3405447 A4 20190717 (EN)

Application

EP 17741894 A 20170119

Priority

- US 201662280282 P 20160119
- US 2017014067 W 20170119

Abstract (en)

[origin: WO2017127501A1] An inorganic fiber containing silica and magnesia as the major fiber components which further includes intended synergistic amounts of calcia and, an additional alkali metal oxide other than magnesia, such as lithium oxide, to improve the thermal performance and manufacturability of the fiber. The inorganic fiber is easier to manufacture, has a better fiber quality, exhibits good thermal performance at a use temperature of 1260°C and greater, retains mechanical integrity after exposure to the use temperature, and exhibits low biopersistence in physiological fluids. Also provided are methods of preparing the inorganic fiber and of thermally insulating articles using thermal insulation prepared from the inorganic fibers.

IPC 8 full level

C04B 35/622 (2006.01); **C03C 3/087** (2006.01); **C03C 13/00** (2006.01)

CPC (source: EP KR)

C03C 3/087 (2013.01 - EP); **C03C 13/00** (2013.01 - EP); **C04B 35/6224** (2013.01 - EP KR); **C04B 35/62245** (2013.01 - KR); C04B 2235/3203 (2013.01 - EP KR); C04B 2235/3206 (2013.01 - EP KR); C04B 2235/3208 (2013.01 - EP KR); C04B 2235/3217 (2013.01 - EP KR); C04B 2235/3272 (2013.01 - EP KR); C04B 2235/5264 (2013.01 - EP); C04B 2235/72 (2013.01 - EP); C04B 2235/96 (2013.01 - EP)

Citation (search report)

- [XI] US 2013225025 A1 20130829 - MCGINNIS PETER BERNARD [US], et al
- [X] EP 1074521 A2 20010207 - JOHNS MANVILLE [US]
- [XI] WO 2008073585 A1 20080619 - PPG IND OHIO INC [US]
- [XI] US 2012247156 A1 20121004 - KITAHARA HIDEKI [JP], et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

US 2017014067 W 20170119; CN 201780018589 A 20170119; EP 17741894 A 20170119; JP 2018555857 A 20170119; KR 20187023527 A 20170119; MX 2018008758 A 20170119