

## Title (en)

HIGH TEMPERATURE RESISTANT INORGANIC FIBER

## Title (de)

HOCHTEMPERATURBESTÄNDIGE ANORGANISCHE FASER

## Title (fr)

FIBRE INORGANIQUE RÉSISTANT AUX TEMPÉRATURES ÉLEVÉES

## Publication

**EP 2794982 A4 20150805 (EN)**

## Application

**EP 12860154 A 20121219**

## Priority

- US 201161577320 P 20111219
- US 2012070660 W 20121219

## Abstract (en)

[origin: WO2013096471A1] Provided is an inorganic fiber containing silica and magnesia as the major fiber components which further includes a phosphate additive to the melt of fiber ingredients, or as a coating on the surfaces of the fiber, or both. The inorganic fiber exhibits improved thermal performance properties and is non-durable in physiological fluids. Also provided are methods of preparing the inorganic fiber and of thermally insulating articles using thermal insulation prepared from a plurality of the inorganic fibers.

## IPC 8 full level

**C03C 13/00** (2006.01); **C03C 25/42** (2006.01); **C04B 35/622** (2006.01); **C04B 35/628** (2006.01); **D06M 11/44** (2006.01); **D06M 11/71** (2006.01); **D06M 11/77** (2006.01); **D06M 13/282** (2006.01)

## CPC (source: EP)

**C03C 13/00** (2013.01); **C03C 25/42** (2013.01); **C04B 35/6224** (2013.01); **C04B 35/62881** (2013.01); **D06M 11/71** (2013.01); **C04B 2235/3206** (2013.01); **C04B 2235/3208** (2013.01); **C04B 2235/3217** (2013.01); **C04B 2235/3272** (2013.01); **C04B 2235/447** (2013.01); **C04B 2235/72** (2013.01); **C04B 2235/9615** (2013.01); **C04B 2235/9669** (2013.01)

## Citation (search report)

- [I] US 6030910 A 20000229 - ZOITOS BRUCE [US], et al
- [I] EP 1939148 A1 20080702 - MORGAN CRUCIBLE CO [GB]
- [I] US 5874375 A 19990223 - ZOITOS BRUCE [US], et al
- [I] US 6025288 A 20000215 - ZOITOS BRUCE [US], et al
- [I] JP 2003089547 A 20030328 - TOSHIBA MONOFRA
- [Y] US 2002032116 A1 20020314 - JUBB GARY ANTHONY [GB], et al
- [Y] US 5332699 A 19940726 - OLDS LEONARD E [US], et al
- [I] GB 2348640 A 20001011 - MORGAN CRUCIBLE CO [GB]
- [I] US 2005014624 A1 20050120 - JUBB GARY ANTHONY [GB], et al
- [I] US 2003162019 A1 20030828 - ZOITOS BRUCE K [US], et al
- [I] US 2002045528 A1 20020418 - KUSUNO KATSUYA [JP], et al
- [I] JP 2004036050 A 20040205 - SAINT GOBAIN TM KK
- [I] US 2003130104 A1 20030710 - KUSUNO KATSUYA [JP], et al
- [I] JP 2002338300 A 20021127 - TOSHIBA MONOFRA
- [I] DATABASE WPI Week 200347, Derwent World Patents Index; AN 2003-498462, XP002741138
- See references of WO 2013096471A1

## Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

## DOCDB simple family (publication)

**WO 2013096471 A1 20130627**; BR 112014014087 A2 20170613; EP 2794982 A1 20141029; EP 2794982 A4 20150805; JP 2015507705 A 20150312; JP 6288460 B2 20180307

## DOCDB simple family (application)

**US 2012070660 W 20121219**; BR 112014014087 A 20121219; EP 12860154 A 20121219; JP 2014548841 A 20121219