

Title (en)

METHOD OF MAKING A TITANIA-DOPED FUSED SILICA PREFORM

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER VORFORM AUS MIT TITANDIOXID DOTIERTEM GESCHMOLZENEM SILICIUMDIOXID

Title (fr)

PROCEDE DE FABRICATION D'UNE PREFORME EN VERRE DE SILICE DOPEE AU DIOXYDE DE TITANE

Publication

EP 1283819 A1 20030219 (EN)

Application

EP 01918777 A 20010316

Priority

- US 0108521 W 20010316
- US 58034800 A 20000525

Abstract (en)

[origin: WO0192172A1] A method of vaporizing a liquid TiO₂ precursor utilized in making a titania-doped fused silica preform includes passing the liquid TiO₂ precursor through a packed-bed vaporizer with a carrier gas under conditions sufficient to vaporize the TiO₂ precursor without substantial thermal degradation thereof. Further, the method includes commingling the vaporized TiO₂ precursor with a vaporized SiO₂ precursor and delivering the mixture to a vapor utilization site to form the preform. In one embodiment of the present invention, liquid TiO₂ and SiO₂ precursors are contemporaneously vaporized in the vaporizer and delivered to the vaporization utilization site to form the preform.

IPC 1-7

C03B 37/014; C03B 37/018; C03B 19/14; C23C 16/448

IPC 8 full level

C03B 19/14 (2006.01); **C03B 37/014** (2006.01); **C03B 37/018** (2006.01); **C23C 16/448** (2006.01)

CPC (source: EP KR)

C03B 19/1415 (2013.01 - EP); **C03B 37/01413** (2013.01 - EP); **C03B 37/018** (2013.01 - KR); **C03B 37/01807** (2013.01 - EP); **C23C 16/4481** (2013.01 - EP); **C03B 2201/42** (2013.01 - EP); **C03B 2207/85** (2013.01 - EP); **C03B 2207/87** (2013.01 - EP)

Citation (search report)

See references of WO 0192172A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0192172 A1 20011206; AU 4581601 A 20011211; EP 1283819 A1 20030219; JP 2004509041 A 20040325; KR 20030005387 A 20030117

DOCDB simple family (application)

US 0108521 W 20010316; AU 4581601 A 20010316; EP 01918777 A 20010316; JP 2001588149 A 20010316; KR 20027015845 A 20021122