

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

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- US 58034800 A 20000525

Abstract (en)

[origin: WO0192172A1] A method of vaporizing a liquid TiO<sub>2</sub> precursor utilized in making a titania-doped fused silica preform includes passing the liquid TiO<sub>2</sub> precursor through a packed-bed vaporizer with a carrier gas under conditions sufficient to vaporize the TiO<sub>2</sub> precursor without substantial thermal degradation thereof. Further, the method includes commingling the vaporized TiO<sub>2</sub> precursor with a vaporized SiO<sub>2</sub> precursor and delivering the mixture to a vapor utilization site to form the preform. In one embodiment of the present invention, liquid TiO<sub>2</sub> and SiO<sub>2</sub> 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**

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CPC (source: EP KR)

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Citation (search report)

See references of WO 0192172A1

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