

Title (en)

SUBSTRATE WITH LOW-PERMEABILITY COATING FOR THE SOLIDIFICATION OF SILICON

Title (de)

SUBSTRAT MIT EINER BESCHICHTUNG MIT GERINGER DURCHLÄSSIGKEIT ZUR VERFESTIGUNG VON SILICIUM

Title (fr)

SUBSTRAT À REVÊTEMENT PEU PERMÉABLE POUR SOLIDIFICATION DE SILICIUM

Publication

**EP 3046895 A1 20160727 (FR)**

Application

**EP 14780618 A 20140912**

Priority

- FR 1358900 A 20130916
- IB 2014064472 W 20140912

Abstract (en)

[origin: WO2015036974A1] The invention relates to a substrate characterised in that it is at least partially surface-coated with a coating containing at least one so-called "barrier" layer comprising silica and one or more material(s) X selected from among SiC, Si, Si<sub>3</sub>N<sub>4</sub>, in which layer the amount of X varies between 25 -wt.% and 50.-wt.% in relation to the total weight of the barrier layer, said barrier layer being formed by grains of one or more materials X covered at least partially in a silica shell, and said barrier layer being in direct contact with the substrate.

IPC 8 full level

**C04B 41/87** (2006.01); **C04B 41/89** (2006.01); **C30B 11/00** (2006.01); **C30B 15/10** (2006.01)

CPC (source: EP US)

**C01B 33/021** (2013.01 - EP US); **C04B 41/009** (2013.01 - EP US); **C04B 41/5035** (2013.01 - EP US); **C04B 41/52** (2013.01 - EP US); **C04B 41/87** (2013.01 - EP US); **C04B 41/89** (2013.01 - EP US); **C09D 1/00** (2013.01 - US); **C30B 11/002** (2013.01 - EP US); **C30B 29/06** (2013.01 - EP US); **C04B 2111/00879** (2013.01 - EP US)

Citation (search report)

See references of WO 2015036974A1

Citation (examination)

WO 2014004496 A1 20140103 - SILICOR MATERIALS INC [US]

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2015036974 A1 20150319**; CN 105593193 A 20160518; EP 3046895 A1 20160727; FR 3010715 A1 20150320; FR 3010715 B1 20170310; US 10287703 B2 20190514; US 2016222542 A1 20160804

DOCDB simple family (application)

**IB 2014064472 W 20140912**; CN 201480050801 A 20140912; EP 14780618 A 20140912; FR 1358900 A 20130916; US 201415022461 A 20140912