

Title (en)

SOL-GEL-BASED PRINTABLE AND PARASITIC DIFFUSION-INHIBITING DOPING MEDIA FOR LOCAL DOPING OF SILICON WAFERS

Title (de)

SOL-GEL-BASIERTE DRUCKBARE UND PARASITÄR-DIFFUSIONSHEMMENDE DOTIERMEDIEN ZUR LOKALEN DOTIERUNG VON SILIZIUMWAFERN

Title (fr)

MILIEUX DOPANTS, FORMANT BARRIÈRE À UNE DIFFUSION PARASITAIRE ET IMPRIMABLES, À BASE DE SOL-GEL ET DESTINÉS AU DOPAGE LOCAL DE TRANCHES DE SILICIUM

Publication

**EP 3284110 A1 20180221 (DE)**

Application

**EP 16711776 A 20160324**

Priority

- EP 15001071 A 20150415
- EP 15180681 A 20150812
- EP 2016000516 W 20160324

Abstract (en)

[origin: WO2016165810A1] The present invention relates to a novel printable paste in the form of a hybrid gel on the basis of inorganic oxide precursors which can be used in a simplified process for the production of solar cells, the hybrid gel according to the invention functioning as a doping medium as well as a diffusion barrier.

IPC 8 full level

**H01L 31/18** (2006.01); **C04B 35/10** (2006.01); **C30B 31/04** (2006.01); **H01L 21/22** (2006.01)

CPC (source: EP KR US)

**C23C 18/06** (2013.01 - EP KR US); **C23C 18/1216** (2013.01 - EP KR US); **C23C 18/1254** (2013.01 - EP KR US); **C30B 29/06** (2013.01 - EP KR US); **C30B 31/04** (2013.01 - EP KR US); **C30B 31/08** (2013.01 - EP KR US); **H01L 21/2225** (2013.01 - EP KR US); **H01L 21/223** (2013.01 - EP US); **H01L 21/2254** (2013.01 - EP US); **H01L 31/02167** (2013.01 - KR); **H01L 31/1804** (2013.01 - EP KR US); **Y02E 10/547** (2013.01 - EP KR US); **Y02P 70/50** (2015.11 - EP US)

Citation (search report)

See references of WO 2016165810A1

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 2016165810 A1 20161020**; CN 107532300 A 20180102; EP 3284110 A1 20180221; KR 20170137837 A 20171213; TW 201710185 A 20170316; US 2018062022 A1 20180301

DOCDB simple family (application)

**EP 2016000516 W 20160324**; CN 201680021779 A 20160324; EP 16711776 A 20160324; KR 20177032777 A 20160324; TW 105111694 A 20160414; US 201615565955 A 20160324