

Title (en)

REFINING PROCESS FOR PRODUCING SOLAR SILICON, SILICON CARBIDE, HIGH-PURITY GRAPHITE AND HOLLOW SILICA MICROSPHERES

Title (de)

RAFFINIERUNGSVERFAHREN ZUR HERSTELLUNG VON SOLARSILICIUM, SILICIUMCARBID, HOCHREINEM GRAPHIT UND HOHLEN SILICIUMDIOXIDMIKROKÜGELCHEN

Title (fr)

PROCÉDÉ DE RAFFINAGE POUR LA PRODUCTION DE SILICIUM SOLAIRE, DE CARBURE DE SILICIUM, DE GRAPHITE DE GRANDE PURETÉ ET DE MICROSPHÈRES CREUSES DE SILICE

Publication

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Application

EP 17801231 A 20171107

Priority

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- US 2017060380 W 20171107

Abstract (en)

[origin: WO2018128708A1] A process for producing solar grade silicon from an impurity containing silica employs a plurality of plasma furnaces to perform a sequence of chemical reactions together with other process steps to produce solar grade silicon. The plasma furnace generates a stable dirty air, donut-shaped plasma into which particulate matter can be introduced. The plasma in the first two stages is formed by gases from the chemical reactions and in the third from inert gasses. Cyclone separators are used to extract particulates from the plasma in an inert gas that prevents reverse reactions as the particular cools.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2018128708A1

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