

Title (en)

METHOD FOR PRODUCING ELEMENTAL SILICON

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ELEMENTAREM SILIZIUM

Title (fr)

PROCÉDÉ DE PRODUCTION DE SILICIUM ÉLÉMENTAIRE

Publication

EP 3807215 A1 20210421 (DE)

Application

EP 19731663 A 20190613

Priority

- EP 18178006 A 20180615
- EP 2019065460 W 20190613

Abstract (en)

[origin: WO2019238808A1] The invention relates to a method for producing a highly purified elemental silicon from a starting material (2) containing silicon dioxide, comprising the steps of: a) thermally pre-purifying the starting material (2), impurities (7) from the group consisting of boron and phosphorus being substantially completely separated off and pre-purified silicon dioxide (8) being obtained, b) reducing the pre-purified silicon dioxide (8) to elemental silicon, c) removing impurities (7) remaining after step a) in the pre-purified silicon dioxide (8) during and/or after step b).

IPC 8 full level

C01B 33/023 (2006.01); **C01B 33/025** (2006.01); **C01B 33/037** (2006.01)

CPC (source: EP US)

C01B 33/023 (2013.01 - EP); **C01B 33/025** (2013.01 - EP US); **C01B 33/037** (2013.01 - EP US)

Citation (search report)

See references of WO 2019238808A1

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 2019238808 A1 20191219; CN 112313172 A 20210202; EP 3807215 A1 20210421; TW 202016017 A 20200501; US 2021246036 A1 20210812

DOCDB simple family (application)

EP 2019065460 W 20190613; CN 201980040335 A 20190613; EP 19731663 A 20190613; TW 108120513 A 20190613; US 201916973906 A 20190613