

Title (en)

USE OF A REACTOR HAVING AN INTEGRATED HEAT EXCHANGER IN A METHOD FOR HYDRODECHLORINATING SILICON  
TETRACHLORIDE

Title (de)

VERWENDUNG EINES REAKTORS MIT INTEGRIERTEM WÄRMETAUSCHER IN EINEM VERFAHREN ZUR HYDRODECHLORIERUNG VON  
SILIZIUMTETRACHLORID

Title (fr)

UTILISATION D'UN RÉACTEUR AVEC ÉCHANGEUR DE CHALEUR INTÉGRÉ DANS UN PROCÉDÉ D'HYDRODÉCHLORATION DE  
TÉTACHLORURE DE SILICIUM

Publication

**EP 2603455 A1 20130619 (DE)**

Application

**EP 11739019 A 20110713**

Priority

- DE 102010039267 A 20100812
- EP 2011061911 W 20110713

Abstract (en)

[origin: CA2806810A1] The invention relates to a method for converting silicon tetrachloride by means of hydrogen to form trichlorosilane in a modified hydrodechlorination reactor. The invention further relates to a the use of such a modified hydrodechlorination reactor as an integrated component of a system for producing trichlorosilane from metallurgical silicon.

IPC 8 full level

**C01B 33/107** (2006.01)

CPC (source: EP KR US)

**B01J 3/042** (2013.01 - US); **B01J 19/24** (2013.01 - KR); **B01J 19/2415** (2013.01 - EP US); **C01B 33/107** (2013.01 - KR);  
**C01B 33/1071** (2013.01 - EP US); **C01B 33/10736** (2013.01 - EP US); **B01J 2219/0009** (2013.01 - EP US); **B01J 2219/00094** (2013.01 - EP US);  
**B01J 2219/00135** (2013.01 - EP US); **B01J 2219/00157** (2013.01 - EP US); **Y02P 20/129** (2015.11 - EP US)

Citation (search report)

See references of WO 2012019856A1

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

DOCDB simple family (publication)

**DE 102010039267 A1 20120216**; CA 2806810 A1 20120216; CN 103153857 A 20130612; EP 2603455 A1 20130619;  
JP 2013533203 A 20130822; KR 20130097182 A 20130902; TW 201223866 A 20120616; US 2013224098 A1 20130829;  
WO 2012019856 A1 20120216

DOCDB simple family (application)

**DE 102010039267 A 20100812**; CA 2806810 A 20110713; CN 201180049460 A 20110713; EP 11739019 A 20110713;  
EP 2011061911 W 20110713; JP 2013523549 A 20110713; KR 20137006141 A 20110713; TW 100128352 A 20110809;  
US 201113816569 A 20110713