

Title (en)

CATALYST AND METHOD FOR PRODUCING CHLORINE BY MEANS OF A GAS-PHASE OXIDATION

Title (de)

KATALYSATOR UND VERFAHREN ZUR HERSTELLUNG VON CHLOR DURCH GASPHASENOXIDATION

Title (fr)

CATALYSEUR ET PROCÉDÉ POUR PRODUIRE DU CHLORE PAR OXYDATION CATALYTIQUE EN PHASE GAZEUSE

Publication

EP 2771108 A1 20140903 (DE)

Application

EP 12775024 A 20121019

Priority

- DE 102011085068 A 20111024
- EP 2012070771 W 20121019

Abstract (en)

[origin: WO2013060628A1] The invention relates to known catalysts containing cerium or other catalytically active components for producing chlorine by means of a catalytic gas-phase oxidation of hydrogen chloride with oxygen. A catalyst material for producing chlorine by means of a catalytic gas-phase oxidation of hydrogen chloride with oxygen is described, wherein the catalyst comprises at least oxide compounds of the cerium as active components and zirconium dioxide as supporting components, and the catalyst is characterized by a particularly high space-time yield measured in kgCl₂/LREAKTOR·h with respect to the reactor volume.

IPC 8 full level

B01J 21/06 (2006.01); **B01J 23/10** (2006.01); **B01J 37/02** (2006.01); **C01B 7/04** (2006.01)

CPC (source: EP US)

B01J 21/066 (2013.01 - EP US); **B01J 23/10** (2013.01 - EP US); **B01J 23/462** (2013.01 - EP US); **B01J 23/63** (2013.01 - EP US); **B01J 35/19** (2024.01 - EP US); **B01J 35/31** (2024.01 - EP US); **B01J 35/397** (2024.01 - EP); **B01J 35/40** (2024.01 - EP US); **B01J 35/613** (2024.01 - EP US); **B01J 35/615** (2024.01 - EP US); **B01J 35/633** (2024.01 - EP US); **B01J 35/647** (2024.01 - EP US); **B01J 35/69** (2024.01 - EP US); **B01J 37/0018** (2013.01 - EP US); **B01J 37/0036** (2013.01 - EP US); **B01J 37/0201** (2013.01 - EP US); **B01J 37/08** (2013.01 - EP US); **B01J 37/24** (2013.01 - EP US); **C01B 7/04** (2013.01 - EP US); **Y02P 20/20** (2015.11 - EP US)

Citation (search report)

See references of WO 2013060628A1

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)

WO 2013060628 A1 20130502; CN 103889568 A 20140625; CN 103889568 B 20170419; EP 2771108 A1 20140903; IN 2995CHN2014 A 20150703; JP 2014534062 A 20141218; JP 2018089625 A 20180614; JP 6316194 B2 20180425; JP 6595022 B2 20191023; KR 20140086977 A 20140708; US 2014248208 A1 20140904

DOCDB simple family (application)

EP 2012070771 W 20121019; CN 201280052254 A 20121019; EP 12775024 A 20121019; IN 2995CHN2014 A 20140421; JP 2014537566 A 20121019; JP 2018016133 A 20180201; KR 20147010535 A 20121019; US 201214351895 A 20121019