

Title (en)  
METHOD FOR PRODUCING CHLORINE FROM HYDROGEN CHLORIDE AND OXYGEN

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON CHLOR AUS CHLORWASSERSTOFF UND SAUERSTOFF

Title (fr)  
PROCÉDÉ DE PRODUCTION DE CHLORE À PARTIR DE GAZ CHLORHYDRIQUE ET D'OXYGÈNE

Publication  
**EP 2027064 A1 20090225 (DE)**

Application  
**EP 07725513 A 20070521**

Priority  
• EP 2007004614 W 20070521  
• DE 102006024506 A 20060523

Abstract (en)  
[origin: US2007274898A1] A process is disclosed comprising: (a) reacting hydrogen chloride and an oxygen-containing gas to form a gas mixture comprising chlorine, water, unreacted hydrogen chloride, and unreacted oxygen, wherein the oxygen-containing gas reacted with the hydrogen chloride has an oxygen content of not more than 99 vol. %; (b) cooling the gas mixture to form an aqueous solution of hydrogen chloride; (c) separating at least a portion of the aqueous solution of hydrogen chloride from the gas mixture; and (d) subjecting the gas mixture to a gas permeation to form a chlorine-rich gas stream and an oxygen-containing partial stream.

IPC 8 full level  
**C01B 7/04** (2006.01)

CPC (source: EP KR US)  
**B01D 53/1456** (2013.01 - EP US); **B01D 53/22** (2013.01 - EP US); **C01B 7/01** (2013.01 - KR); **C01B 7/04** (2013.01 - EP KR US); **C01B 7/0743** (2013.01 - EP US); **B01D 2257/2045** (2013.01 - EP US); **B01D 2257/2064** (2013.01 - EP US); **Y02P 20/151** (2015.11 - EP US)

Citation (search report)  
See references of WO 2007134861A1

Cited by  
DE102011005897A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**DE 102006024506 A1 20071129**; CN 101448737 A 20090603; EP 2027064 A1 20090225; JP 2009537453 A 20091029; KR 20090009894 A 20090123; RU 2008150592 A 20100627; TW 200811040 A 20080301; US 2007274898 A1 20071129; WO 2007134861 A1 20071129

DOCDB simple family (application)  
**DE 102006024506 A 20060523**; CN 200780018698 A 20070521; EP 07725513 A 20070521; EP 2007004614 W 20070521; JP 2009511410 A 20070521; KR 20087028575 A 20081121; RU 2008150592 A 20070521; TW 96118051 A 20070522; US 75241007 A 20070523