

Title (en)

PROCESS FOR REMOVING AND RECIRCULATING CONDENSABLE COMPONENTS FROM GASEOUS STREAMS CONTAINING CHLORINE

Title (de)

PROZESS ZUR ENTFERNUNG UND RÜCKFÜHRUNG KONDENSIERBARER KOMPONENTEN AUS CHLORHALTIGEN GASSTRÖMEN

Title (fr)

PROCÉDÉ DESTINÉ À EXTRAIRE DES COMPOSANTS CONDENSABLES DE FLUX GAZEUX CONTENANT DU CHLORE ET À LES RÉINTRODUIRE DANS CES FLUX GAZEUX

Publication

**EP 2139808 A2 20100106 (DE)**

Application

**EP 08716413 A 20080311**

Priority

- EP 2008001904 W 20080311
- DE 102007013964 A 20070323

Abstract (en)

[origin: US2008233027A1] Processes comprising: providing a gas stream comprising chlorine and at least one secondary component selected from the group consisting of carbon dioxide, nitrogen and oxygen; pressurizing the gas stream in a first stage to an elevated or enhanced pressure, preferably at least about 10 bar; cooling the pressurized gas stream in a second stage comprising a condensation zone and a gas/liquid contact zone disposed below the condensation zone, such that at least a portion of the chlorine is condensed and contacted countercurrently in the gas/liquid contact zone with the pressurized gas stream entering the second stage to form a condensate; and separating the condensate in a third stage comprising a rectifying column to provide a chlorine-rich sump stream and a low-chlorine head stream.

IPC 8 full level

**C01B 7/07** (2006.01)

CPC (source: EP US)

**C01B 7/0743** (2013.01 - EP US)

Cited by

WO2012110587A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**DE 102007013964 A1 20080925**; CN 101636347 A 20100127; EP 2139808 A2 20100106; JP 2010521294 A 20100624; TW 200906724 A 20090216; US 2008233027 A1 20080925; WO 2008116558 A2 20081002; WO 2008116558 A3 20090212

DOCDB simple family (application)

**DE 102007013964 A 20070323**; CN 200880008864 A 20080311; EP 08716413 A 20080311; EP 2008001904 W 20080311; JP 2009553948 A 20080311; TW 97109961 A 20080321; US 5127608 A 20080319