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)

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