

Title (en)
METHOD FOR HYDROGEN CHLORIDE OXIDATION WITH OXYGEN

Title (de)
VERFAHREN ZUR CHLORWASSERSTOFF-OXIDATION MIT SAUERSTOFF

Title (fr)
PROCÉDÉ D'OXYDATION DE CHLORURE D'HYDROGÈNE AVEC DE L'OXYGÈNE

Publication
EP 2029477 A1 20090304 (DE)

Application
EP 07725071 A 20070510

Priority

- EP 2007004149 W 20070510
- DE 102006024515 A 20060523

Abstract (en)
[origin: DE102006024515A1] Procedure for carrying out an optionally catalyst-supported hydrogen chloride oxidation process in the presence of oxygen, comprises: single or multi-stage cooling of a process gas; separating the non-reacted hydrogen chloride and reaction water from the process gas, drying the product gases and separating chlorine from the mixture, where the process is carried out in a reactor whose structural components that come in contact with the reaction mixture are made of nickel or a nickel-containing alloy. Procedure for carrying out an optionally catalyst-supported hydrogen chloride oxidation process in the presence of oxygen, comprises: single or multi-stage cooling of a process gas; separating the non-reacted hydrogen chloride and reaction water from the process gas, drying the product gases and separating chlorine from the mixture, where the process is carried out in a reactor whose structural components that come in contact with the reaction mixture are made of nickel or a nickel-containing alloy and the proportion of nickel amounts to at least 60 wt.%, preferably from Hastelloy C (RTM: Nickel-chromium-cobalt alloy) (I), Hastelloy B (RTM: Nickel-molybdenum-iron alloy) (II), Inconell 600 (RTM: Nickel-chromium alloy) (III), Inconell 625 (RTM: Nickel-chromium-molybdenum alloy) (IV).

IPC 8 full level
C01B 7/04 (2006.01); **B01J 19/02** (2006.01)

CPC (source: EP KR US)
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Citation (search report)
See references of WO 2007137685A1

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