

Title (en)
CONVERTING MIST FLOW TO ANNULAR FLOW IN THERMAL CRACKING APPLICATION

Title (de)
VERFAHREN ZUR UMWANDLUNG VON NEBELFÜHRUNG ZU ANNULAREN ENTWEICHUNGEN IN THERMISCHEN KRACKVERFAHREN

Title (fr)
CONVERSION DE FLUX BROUILLARD EN FLUX ANNULAIRE POUR APPLICATION DE CRAQUAGE THERMIQUE

Publication
EP 1639060 A1 20060329 (EN)

Application
EP 03742280 A 20030627

Priority
• US 0320375 W 20030627
• US 18890102 A 20020703
• US 18846102 A 20020703
• US 18961802 A 20020703

Abstract (en)
[origin: WO2004005431A1] A process to increase the non-volatile removal efficiency in a flash drum in the steam cracking system. The gas flow from the convection section is converted from mist flow to annular flow before entering the flash drum to increase the removal efficiency. The conversion of gas flow from mist flow to annular flow is accomplished by subjecting the gas flow first to at least one expander and then to bends of various degrees and force the flow to change directions at least once. The change of gas flow from mist to annular helps coalesce fine liquid droplets and thus being removed from the vapor phase.

IPC 1-7
C10G 9/00

IPC 8 full level
C10G 9/00 (2006.01); **C10G 9/20** (2006.01); **C10G 9/36** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP KR)
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Citation (search report)
See references of WO 2004005431A1

Cited by
US10012417B2; US10458683B2; US11407950B2; WO2020190777A1

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US 0320375 W 20030627; AT 03742280 T 20030627; AU 2003247755 A 20030627; AU 2003247756 A 20030627; AU 2003281371 A 20030627; CA 2489876 A 20030627; CA 2489888 A 20030627; CA 2490403 A 20030627; CN 03815634 A 20030627; CN 03815733 A 20030627; CN 03815806 A 20030627; EP 03742280 A 20030627; EP 03763036 A 20030627; EP 03763037 A 20030627; JP 2004519667 A 20030627; JP 2004519668 A 20030627; JP 2004519669 A 20030627; KR 20047021682 A 20030627; KR 20047021683 A 20030627; SG 2006079370 A 20030627; US 0320377 W 20030627; US 0320378 W 20030627