

Title (en)
PRODUCING ALKYLENE GLYCOLS IN MICROCHANNEL APPARATUS

Title (de)
HERSTELLUNG VON ALKYLENGLYKOL IN EINEM MIKROKANALGERÄT

Title (fr)
PROCEDE DE FABRICATION D'ALKYLENE GLYCOLS DANS UN DISPOSITIF A MICROCANAU

Publication
EP 1973645 A1 20081001 (EN)

Application
EP 06830757 A 20061220

Priority
• EP 2006070035 W 20061220
• EP 05257995 A 20051222
• EP 06830757 A 20061220

Abstract (en)
[origin: WO2007071737A1] The invention provides a process for the mixing of an oxidant having explosive potential with a hydrocarbon material, which comprises conveying a first stream comprising the hydrocarbon material and a second stream comprising the oxidant into a microchannel apparatus, allowing mixing to occur, and withdrawing the mixture. The microchannels have an internal height and/or width in the range of 0,5-1,5 mm. The process is useful for the preparation of ethylene oxide, where the microchannel apparatus is located in the recycle gas loop.

IPC 8 full level
B01J 19/00 (2006.01); **C07C 31/00** (2006.01)

CPC (source: EP KR)
B01J 19/00 (2013.01 - KR); **B01J 19/0093** (2013.01 - EP); **B81B 7/00** (2013.01 - KR); **C07D 301/08** (2013.01 - EP);
B01J 2219/00783 (2013.01 - EP); **B01J 2219/00822** (2013.01 - EP); **B01J 2219/00831** (2013.01 - EP); **B01J 2219/00833** (2013.01 - EP);
B01J 2219/00835 (2013.01 - EP); **B01J 2219/00858** (2013.01 - EP); **B01J 2219/0086** (2013.01 - EP); **B01J 2219/00867** (2013.01 - EP);
B01J 2219/00869 (2013.01 - EP); **B01J 2219/00871** (2013.01 - EP); **B01J 2219/00873** (2013.01 - EP); **B01J 2219/00905** (2013.01 - EP);
F23C 2900/03001 (2013.01 - EP)

Citation (search report)
See references of WO 2007071744A1

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007071737 A1 20070628; AT E432766 T1 20090615; CA 2634366 A1 20070628; CA 2634409 A1 20070628; CA 2634417 A1 20070628;
CA 2634440 A1 20070628; CN 101384349 A 20090311; CN 101384350 A 20090311; CN 101384351 A 20090311; CN 101384352 A 20090311;
DE 602006007180 D1 20090716; EA 200870100 A1 20081230; EA 200870101 A1 20081230; EP 1973645 A1 20081001;
EP 1976625 A1 20081008; EP 1976625 B1 20090603; EP 1979087 A1 20081015; EP 1981632 A1 20081022; JP 2009520762 A 20090528;
JP 2009520764 A 20090528; JP 2009520767 A 20090528; JP 2009520943 A 20090528; KR 20080080182 A 20080902;
KR 20080080183 A 20080902; KR 20080080184 A 20080902; KR 20080080372 A 20080903; TW 200735958 A 20071001;
TW 200740518 A 20071101; TW 200740519 A 20071101; TW 200803973 A 20080116; WO 2007071739 A1 20070628;
WO 2007071741 A1 20070628; WO 2007071744 A1 20070628

DOCDB simple family (application)
EP 2006070027 W 20061220; AT 06841526 T 20061220; CA 2634366 A 20061220; CA 2634409 A 20061220; CA 2634417 A 20061220;
CA 2634440 A 20061220; CN 200680053265 A 20061220; CN 200680053275 A 20061220; CN 200680053285 A 20061220;
CN 200680053306 A 20061220; DE 602006007180 T 20061220; EA 200870100 A 20061220; EA 200870101 A 20061220;
EP 06830757 A 20061220; EP 06841524 A 20061220; EP 06841526 A 20061220; EP 06841528 A 20061220; EP 2006070030 W 20061220;
EP 2006070032 W 20061220; EP 2006070035 W 20061220; JP 2008546451 A 20061220; JP 2008546453 A 20061220;
JP 2008546454 A 20061220; JP 2008546457 A 20061220; KR 20087017105 A 20080714; KR 20087017106 A 20080714;
KR 20087017107 A 20080714; KR 20087017108 A 20080714; TW 95147790 A 20061220; TW 95147799 A 20061220;
TW 95147802 A 20061220; TW 95147806 A 20061220