

Title (en)

METHANE CONVERSION APPARATUS AND PROCESS USING A SUPERSONIC FLOW REACTOR

Title (de)

METHANUMWANDLUNGSVORRICHTUNG UND -VERFAHREN UNTER VERWENDUNG EINEM ULTRASCHALLSTRÖMUNGSREAKTOR

Title (fr)

APPAREIL DE CONVERSION DU MÉTHANE ET PROCÉDÉ QUI UTILISE UN RÉACTEUR À ÉCOULEMENT SUPERSONIQUE

Publication

EP 2888038 A1 20150701 (EN)

Application

EP 13831716 A 20130819

Priority

- US 201261691303 P 20120821
- US 201313964396 A 20130812
- US 2013055529 W 20130819

Abstract (en)

[origin: US2014056766A1] Apparatus and methods are provided for converting methane in a feed stream to acetylene. A hydrocarbon stream is introduced into a supersonic reactor and pyrolyzed to convert at least a portion of the methane to acetylene. The reactor effluent stream may be treated to convert acetylene to another hydrocarbon process.

IPC 8 full level

B01J 19/10 (2006.01); **C07C 11/24** (2006.01); **F23M 5/00** (2006.01); **F23R 3/00** (2006.01)

CPC (source: EP US)

B01J 3/08 (2013.01 - EP US); **B01J 19/02** (2013.01 - EP US); **B01J 19/26** (2013.01 - EP US); **C07C 2/82** (2013.01 - EP US); **C10H 17/00** (2013.01 - US); **B01J 2219/00006** (2013.01 - EP US); **B01J 2219/0004** (2013.01 - EP US); **B01J 2219/00081** (2013.01 - EP US); **B01J 2219/00083** (2013.01 - EP US); **B01J 2219/00123** (2013.01 - EP US); **B01J 2219/0227** (2013.01 - EP US); **B01J 2219/0263** (2013.01 - EP US)

C-Set (source: EP US)

C07C 2/82 + **C07C 11/24**

Cited by

EP3013469A4; WO2014210297A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 2014056766 A1 20140227; EA 201500260 A1 20150730; EP 2888038 A1 20150701; EP 2888038 A4 20160420; WO 2014031516 A1 20140227; ZA 201501931 B 20161026

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