

Title (en)

METHODS AND SYSTEMS FOR SUPERHEATING DILUTION STEAM AND GENERATING ELECTRICITY

Title (de)

VERFAHREN UND SYSTEME ZUR ÜBERHITZUNG VON VERDÜNNUNGSDAMPF UND ERZEUGUNG VON ELEKTRIZITÄT

Title (fr)

PROCÉDÉS ET SYSTÈMES DE SURCHAUFFE DE VAPEUR DE DILUTION ET DE PRODUCTION D'ÉLECTRICITÉ

Publication

**EP 3405553 A1 20181128 (EN)**

Application

**EP 17704536 A 20170110**

Priority

- US 201662280852 P 20160120
- IB 2017050113 W 20170110

Abstract (en)

[origin: WO2017125833A1] Methods and systems for superheating dilution steam for use in a steam cracking furnace and generating electricity are provided. Methods can include combusting fuel in the presence of compressed air to produce a flue gas, wherein the flue gas drives a turbine to produce electricity. Methods can further include superheating the dilution steam with the flue gas, combining the dilution steam with a feed stream including hydrocarbons to produce a mixed feed stream, and steam cracking the mixed feed stream to produce a product stream.

IPC 8 full level

**C10G 9/36** (2006.01)

CPC (source: EP US)

**C10G 9/36** (2013.01 - EP US); **F22G 1/16** (2013.01 - US); **C10G 2300/4006** (2013.01 - US); **C10G 2400/20** (2013.01 - EP US)

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)

**WO 2017125833 A1 20170727**; EP 3405553 A1 20181128; US 2020024525 A1 20200123

DOCDB simple family (application)

**IB 2017050113 W 20170110**; EP 17704536 A 20170110; US 201716065295 A 20170110