

Title (en)

METHOD AND DEVICE FOR GASIFYING FEEDSTOCK

Title (de)

VERFAHREN UND VORRICHTUNG ZUM VERGASEN EINES ROHMATERIALS

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR GAZÉIFIER UNE CHARGE D'ALIMENTATION

Publication

**EP 2948658 A4 20170208 (EN)**

Application

**EP 13873081 A 20130129**

Priority

- US 201313751983 A 20130128
- US 201313752021 A 20130128
- US 2013023606 W 20130129

Abstract (en)

[origin: WO2014116267A1] A downdraft gasifier and method of gasification that utilizes a plurality of vertically positioned tubes to create a pyrolysis zone, an oxidation zone beneath the pyrolysis zone and a reduction zone beneath the oxidation zone. The shape of the tubes eliminates the need for a restriction (hearth), which limits the maximum achievable throughput. A rotating and vertically adjustable grate is located beneath, but not attached to, the reduction zone of the gasifier.

IPC 8 full level

**F02C 1/00** (2006.01); **F23G 5/00** (2006.01); **F23G 5/24** (2006.01)

CPC (source: EP)

**C10J 3/26** (2013.01); **C10J 3/42** (2013.01); **F23G 5/002** (2013.01); **F23G 5/027** (2013.01); **F23G 5/245** (2013.01); **F23G 5/26** (2013.01); **C10J 2300/0916** (2013.01); **F23G 2900/50002** (2013.01)

Citation (search report)

- [Y] WO 2010095025 A2 20100826 - SOCOGES S R L [IT], et al
- [Y] WO 8800230 A1 19880114 - WASTE GAS ENERGY AB WGE [SE]
- [A] WO 03040267 A2 20030515 - BIOSYNERGI PROCES APS [DK], et al
- See also references of WO 2014116267A1

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

DOCDB simple family (publication)

**WO 2014116267 A1 20140731**; AU 2013375286 A1 20150813; AU 2013375286 B2 20170302; BR 112015017918 A2 20170711; BR 112015017918 B1 20211228; CA 2899123 A1 20140731; CA 2899123 C 20170815; CN 105026725 A 20151104; CN 105026725 B 20170308; CR 20150415 A 20160408; DO P2015000179 A 20150930; EP 2948658 A1 20151202; EP 2948658 A4 20170208; EP 2948658 B1 20190508; ES 2727960 T3 20191021; IL 240175 A0 20150924; IL 240175 B 20180830; JP 2016508526 A 20160322; JP 2017186565 A 20171012; JP 6179041 B2 20170816; JP 6402419 B2 20181010; MX 2015009729 A 20151113; MX 365196 B 20190527; MY 175172 A 20200612; PH 12015501856 A1 20151207; PH 12015501856 B1 20151207; SG 10201706842Y A 20171030; SG 11201505847Q A 20150828

DOCDB simple family (application)

**US 2013023606 W 20130129**; AU 2013375286 A 20130129; BR 112015017918 A 20130129; CA 2899123 A 20130129; CN 201380074036 A 20130129; CR 20150415 A 20150813; DO 2015000179 A 20150727; EP 13873081 A 20130129; ES 13873081 T 20130129; IL 24017515 A 20150727; JP 2015555136 A 20130129; JP 2017096559 A 20170515; MX 2015009729 A 20130129; MY P12015001869 A 20130129; PH 12015501856 A 20150824; SG 10201706842Y A 20130129; SG 11201505847Q A 20130129