

Title (en)  
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Title (de)  
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Title (fr)  
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Publication  
**EP 3058275 A1 20160824 (FR)**

Application  
**EP 14799187 A 20141006**

Priority  
• FR 1359968 A 20131014  
• FR 2014052523 W 20141006

Abstract (en)  
[origin: CA2925737A1] Gas burner for burning a gas with a low calorific value, such as syngas derived from the gasification of biomass, the burner comprising a first annular zone (5) formed between the external wall (16) and an internal wall (17) of the burner substantially parallel to the external wall, a second annular zone (8) formed between the external wall (16) of the burner and the internal wall (17) downstream of the first zone, and the burner comprising a low calorific value gas supply pipe (1) substantially parallel to the axis of the burner, a primary air supply pipe (3) formed in the external wall (16) and opening into the first annular zone (5), a secondary air supply pipe (4) formed in the external wall (16) and opening into the second annular zone (8), an annular slot (6) for introducing primary air from the first annular zone (5) into the combustion zone (7), said annular slot (6) being formed between the external wall (16) and the upstream end (25) of the internal wall (17), orifices (9) for introducing secondary air from the second annular zone (8) into the combustion zone (7), said orifices being pierced in the internal wall (17), and the annular slot (6) having a shape such that the primary air is carried into the combustion zone (7) in the form of a conical sheet of air and creates an area of compression, and the orifices (9) being arranged in such a way as to allow the secondary air to swirl.

IPC 8 full level  
**F23C 6/04** (2006.01); **F23D 14/24** (2006.01)

CPC (source: EP US)  
**C10J 3/72** (2013.01 - US); **F23C 6/045** (2013.01 - EP US); **F23D 14/22** (2013.01 - US); **F23D 14/24** (2013.01 - EP US); **F23D 14/58** (2013.01 - US); **F23D 14/62** (2013.01 - US); **F23N 1/002** (2013.01 - US); **C10J 2300/0916** (2013.01 - US); **C10J 2300/1643** (2013.01 - US); **F23C 2900/03004** (2013.01 - EP US); **F23C 2900/06041** (2013.01 - EP US); **F23D 2204/00** (2013.01 - EP US); **F23D 2900/14002** (2013.01 - EP US); **F23N 2237/08** (2020.01 - EP US)

Citation (search report)  
See references of WO 2015055916A1

Cited by  
CN106524155A

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)  
**FR 3011911 A1 20150417**; **FR 3011911 B1 20151120**; CA 2925737 A1 20150423; EP 3058275 A1 20160824; JP 2016536562 A 20161124; JP 6490698 B2 20190327; US 10378760 B2 20190813; US 2016238241 A1 20160818; WO 2015055916 A1 20150423

DOCDB simple family (application)  
**FR 1359968 A 20131014**; CA 2925737 A 20141006; EP 14799187 A 20141006; FR 2014052523 W 20141006; JP 2016547240 A 20141006; US 201415024877 A 20141006