

Title (en)

METHOD FOR THE COMBUSTION OF FUEL

Title (de)

VERFAHREN ZUM VERBRENNEN VON BRENNMATERIAL

Title (fr)

PROCÉDÉ DE COMBUSTION D'UN COMBUSTIBLE

Publication

**EP 2149012 A1 20100203 (DE)**

Application

**EP 08749366 A 20080507**

Priority

- EP 2008003646 W 20080507
- DE 102007021799 A 20070507

Abstract (en)

[origin: WO2008135275A1] The present invention relates to a method for the combustion of fuel (5), which is introduced in a combustion zone (2) of a burner (1), using oxygen or a mixture of oxygen and carbon dioxide. The invention further relates to a burner for performing the method according to the invention. In order to provide a method, with which the combustion of fuel can be carried out in a stable process, using oxygen or a mixture of oxygen and carbon dioxide having an oxygen content of preferably less than 21% by volume, the invention proposes to produce a cyclic flow (8) in the combustion zone (2), the cyclic flow bringing about homogeneous mixing of hot combustion products with the fuel (5) and the oxygen, or with the fuel (5) and the mixture of oxygen and carbon dioxide, in the combustion zone (2).

IPC 8 full level

**F23C 3/00** (2006.01); **F23C 7/00** (2006.01); **F23C 9/00** (2006.01)

CPC (source: EP US)

**F23C 3/008** (2013.01 - EP US); **F23C 7/004** (2013.01 - EP US); **F23C 9/003** (2013.01 - EP US); **F23C 2202/10** (2013.01 - EP US); **F23C 2900/03004** (2013.01 - EP US); **F23C 2900/03008** (2013.01 - EP US)

Citation (search report)

See references of WO 2008135275A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**DE 102007021799 A1 20081113**; AU 2008248857 A1 20081113; EP 2149012 A1 20100203; US 2010190118 A1 20100729; WO 2008135275 A1 20081113; WO 2008135275 A4 20090129

DOCDB simple family (application)

**DE 102007021799 A 20070507**; AU 2008248857 A 20080507; EP 08749366 A 20080507; EP 2008003646 W 20080507; US 59909608 A 20080507