

Title (en)

PREMIX BURNER AND METHOD FOR COMBUSTING A LOW-CALORIFIC GAS

Title (de)

VORMISCHBRENNER SOWIE VERFAHREN ZUR VERBRENNUNG EINES NIEDERKALORISCHEN BRENNGASES

Title (fr)

BRULEUR A PREMELANGE ET PROCEDE POUR BRULER UN GAZ PAUVRE

Publication

**EP 1723369 A1 20061122 (DE)**

Application

**EP 05708014 A 20050215**

Priority

- EP 2005050656 W 20050215
- EP 04004137 A 20040224
- EP 05708014 A 20050215

Abstract (en)

[origin: EP1568942A1] The burner has a burner axle (12) extending to an air duct (2) with combustion air (10) supplied. A mixer (5) is arranged in the air duct where the direction of flow of the combustion air (10) is downstream to the mixer and a nozzle mechanism (13) for the low calorific gas is arranged. The nozzle mechanism (13) has several inlet ports having a gas distribution ring (17) with the air ducts radially surrounds outwards. The air duct has a ring channel (14) with an outside channel wall having several drillings interspersed, with the gas distribution ring in flow connection are located. An independent claim is included for a method.

IPC 8 full level

**F23R 3/36** (2006.01); **F23D 14/58** (2006.01); **F23R 3/14** (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP US)

**F23D 14/583** (2013.01 - EP US); **F23R 3/14** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US); **F23R 2900/00002** (2013.01 - EP US)

Citation (search report)

See references of WO 2005080878A1

Cited by

DE102005061486B4; US7568907B2; EP2161502A1

Designated contracting state (EPC)

CH ES FR GB IT LI

DOCDB simple family (publication)

**EP 1568942 A1 20050831**; CN 100473905 C 20090401; CN 1922440 A 20070228; EP 1723369 A1 20061122; EP 1723369 B1 20070718; ES 2287902 T3 20071216; US 2007275337 A1 20071129; US 7448218 B2 20081111; WO 2005080878 A1 20050901

DOCDB simple family (application)

**EP 04004137 A 20040224**; CN 200580005907 A 20050215; EP 05708014 A 20050215; EP 2005050656 W 20050215; ES 05708014 T 20050215; US 59037905 A 20050215