

Title (en)
PREMIX BURNER

Title (de)
VORMISCHBRENNER

Title (fr)
BRULEUR A PREMELANGE

Publication
EP 1807656 A1 20070718 (DE)

Application
EP 05803397 A 20051027

Priority
• EP 2005055612 W 20051027
• CH 18142004 A 20041103

Abstract (en)
[origin: WO2006048405A1] The invention relates to a premix burner for a heat producing device comprising partial conical plates (5) which complete each other for forming a swirl body, embrace a conical expansion swirl chamber (6) and delimit mutually tangent air inlet grooves (7). The inventive burner also comprises conduits for supplying fuel gas and/or fluid, wherein at least one conduit is arranged along the air inlet groove (7) on the partial conical plates (5) and at least one of them is arranged along the burner axis (A) crossing the swirl chamber (6) in the middle thereof. Said invention is characterised in that at least one partial conical plate (5) encompasses the swirl chamber (6) and defines n air inlet grooves (7), wherein n=3, and the n air inlet grooves have at least a maximum groove width (10) which is equal to or greater than the groove width (10) of a conventional premix burner (1) of the same size and dimensions, with m=2 partial conical plates (5) and m air inlet grooves.

IPC 8 full level
F23C 7/00 (2006.01); **F23D 14/02** (2006.01)

CPC (source: EP US)
F23C 7/002 (2013.01 - EP US); **F23D 14/02** (2013.01 - EP US); **F23C 2900/07002** (2013.01 - EP US)

Citation (search report)
See references of WO 2006048405A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006048405 A1 20060511; CN 101095012 A 20071226; CN 101095012 B 20101110; EP 1807656 A1 20070718; EP 1807656 B1 20190703; JP 2008519237 A 20080605; JP 2012037234 A 20120223; JP 5399462 B2 20140129; US 2007202453 A1 20070830; US 7491056 B2 20090217

DOCDB simple family (application)
EP 2005055612 W 20051027; CN 200580045788 A 20051027; EP 05803397 A 20051027; JP 2007539571 A 20051027; JP 2011254192 A 20111121; US 74100207 A 20070427