

Title (en)  
Pre-mix burner

Title (de)  
Vormischbrenner

Title (fr)  
Brûleur à prémélange

Publication  
**EP 2244015 A1 20101027 (DE)**

Application  
**EP 09158558 A 20090423**

Priority  
EP 09158558 A 20090423

Abstract (en)  
The burner (1) has a pilot gas inlet i.e. pilot gas inlet pipe (23), including a duct wall i.e. pipe wall, facing towards an air inlet duct (21), and a pilot gas outflow end (29) fixed to the air inlet duct. An igniting element i.e. igniting electrode (35), is located in the air inlet duct, and the pilot gas outflow end is provided in upstream of the air inlet duct. The duct wall of the pilot gas inlet duct has a gas outflow opening (37) located upstream from the igniting element. A pilot gas outflow duct has flow resistance downstream from the gas outflow opening.

Abstract (de)  
Es wird ein Vormischbrenner (1) mit einem Luftzufuhrkanal (21), wenigstens einem Pilotgaszufuhrkanal (23), welcher wenigstens eine zum Luftzufuhrkanal (21) weisende Kanalwand (39) und ein in den Luftzufuhrkanal (21) mündendes Pilotgasaustrittsende (29) aufweist, und einem zum Pilotgasaustrittsende (29) im Luftzufuhrkanal (21) stromauf gelegenen Zündelement (35) zur Verfügung gestellt. Die Kanalwand (39) des Pilotgaszufuhrkanals (23) weist stromauf zum Zündelement (35) wenigstens eine Gasaustrittsöffnung (37) auf.

IPC 8 full level  
**F23R 3/34** (2006.01)

CPC (source: EP)  
**F23R 3/343** (2013.01)

Citation (applicant)  
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• WO 0012933 A1 20000309 - SIEMENS AG [DE], et al  
• EP 1712837 A1 20061018 - SIEMENS AG [DE]  
• EP 0193838 B1 19890503

Citation (search report)  
• [X] WO 2009032793 A1 20090312 - COEN CO [US], et al  
• [X] US 2002132203 A1 20020919 - EDBERG CARL D [US], et al  
• [XY] EP 1596131 A2 20051116 - ANSALDO ENERGIA SPA [IT]  
• [A] EP 1710502 A2 20061011 - ANSALDO ENERGIA SPA [IT]  
• [A] EP 1614967 A1 20060111 - SIEMENS AG [DE]  
• [Y] STREB H ET AL: "REDUKTION VON BRENNKAMMERSCHWINGUNGEN DURCH EINE VERAENDERTE ZUGABE DES PILOTGASES", SIEMENS TECHNIK REPORT, SIEMENS AG., ERLANGEN, AT, vol. 2, no. 3, 1 April 1999 (1999-04-01), pages 85 - 89, XP000822891, ISSN: 1436-7777

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CN102901098A

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 MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2244015 A1 20101027**; CN 102414514 A 20120411; CN 102414514 B 20140820; EP 2422136 A1 20120229; EP 2422136 B1 20130403; RU 2011147468 A 20130527; RU 2551462 C2 20150527; WO 2010121845 A1 20101028

DOCDB simple family (application)  
**EP 09158558 A 20090423**; CN 201080017830 A 20100129; EP 10702659 A 20100129; EP 2010051104 W 20100129; RU 2011147468 A 20100129