

Title (en)

CATALYTIC COMBUSTION DEVICE WITH LIQUID FUEL VAPORISATION ON HOT WALLS

Title (de)

KATALYTISCHE VERBRENNUNGSVORRICHTUNG MIT FLÜSSIGBRENNSTOFFVERDAMPFUNG AUF HEISSEN WÄNDEN

Title (fr)

DISPOSITIF DE COMBUSTION CATALYTIQUE AVEC VAPORISATION DE COMBUSTIBLE LIQUIDE SUR PAROIS CHAUDES

Publication

**EP 1344000 A1 20030917 (FR)**

Application

**EP 01270733 A 20011205**

Priority

- FR 0103850 W 20011205
- FR 0016107 A 20001211

Abstract (en)

[origin: WO0248610A1] The invention concerns a catalytic combustion device comprising a main combustion zone (20, 200) including at least a catalytic section (5, 103) and at least an air/fuel mixing zone (11, 117), said mixing zone comprising at least a pressurised air intake (1, 10) and means for injecting (12, 105) a liquid fuel. The invention is characterised in that the injecting means (12, 105) spray the liquid fuel on a hot wall (13, 15, 107) of said device so as to cause said fuel to be vaporized when coming into contact with said wall.

IPC 1-7

**F23C 11/00**; F23D 9/00; F23R 3/40; F23R 3/30

IPC 8 full level

**F23D 9/00** (2006.01); **F23C 13/00** (2006.01); **F23D 11/40** (2006.01); **F23R 3/30** (2006.01); **F23R 3/40** (2006.01)

CPC (source: EP US)

**F23C 13/00** (2013.01 - EP US); **F23D 9/00** (2013.01 - EP US); **F23R 3/30** (2013.01 - EP US); **F23R 3/40** (2013.01 - EP US)

Citation (search report)

See references of WO 0248610A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 0248610 A1 20020620**; AT E348979 T1 20070115; DE 60125412 D1 20070201; DE 60125412 T2 20070927; EP 1344000 A1 20030917; EP 1344000 B1 20061220; FR 2817946 A1 20020614; FR 2817946 B1 20030321; JP 2004515741 A 20040527; US 2004048211 A1 20040311

DOCDB simple family (application)

**FR 0103850 W 20011205**; AT 01270733 T 20011205; DE 60125412 T 20011205; EP 01270733 A 20011205; FR 0016107 A 20001211; JP 2002549886 A 20011205; US 43379203 A 20030606