

Title (en)  
CATALYTIC REACTOR AND METHOD FOR BURNING FUEL-AIR MIXTURES BY MEANS OF A CATALYTIC REACTOR

Title (de)  
KATALYTISCHER REAKTOR UND VERFAHREN ZUR VERBRENNUNG VON BRENNSTOFF-LUFT-GEMISCHEN MITTELS EINES KATALYTISCHEN REAKTORS

Title (fr)  
REACTEUR CATALYTIQUE ET PROCEDE DE COMBUSTION DE MELANGES AIR-COMBUSTIBLE A L'AIDE D'UN REACTEUR CATALYTIQUE

Publication  
**EP 1738109 A1 20070103 (DE)**

Application  
**EP 05729538 A 20050323**

Priority

- EP 2005051361 W 20050323
- CH 5542004 A 20040331

Abstract (en)  
[origin: WO2005095856A1] A catalytic reactor (4) used to burn at least part of the fuel-air mixtures flowing therethrough comprises a plurality of channels (13, 15). Said catalytic reactor (4) is supplied with weak fuel-air mixtures (6) and rich fuel-air mixtures (7). The inventive catalytic reactor (4) consists of at least two sections (I, II, III): a first section (I) through which the mixtures flow is not provided with any catalytic coatings; and a catalytic coating (20) is applied to the channels (15) through which rich fuel-air mixtures (7) flow, in a second section (II) located downstream from the first.

IPC 8 full level  
**F23C 99/00** (2006.01); **F23D 99/00** (2010.01); **F23C 13/00** (2006.01); **F23R 3/40** (2006.01)

CPC (source: EP US)  
**F23C 13/00** (2013.01 - EP US); **F23R 3/40** (2013.01 - EP US); **Y02E 20/34** (2013.01 - EP US)

Citation (search report)  
See references of WO 2005095856A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005095856 A1 20051013**; EP 1738109 A1 20070103; US 2007054226 A1 20070308; US 7594394 B2 20090929

DOCDB simple family (application)  
**EP 2005051361 W 20050323**; EP 05729538 A 20050323; US 52825806 A 20060928