

Title (en)  
BURNER FOR THE COMBUSTION OF LIQUID FUEL IN THE GASEOUS PHASE

Publication  
**EP 0346284 A3 19910731 (DE)**

Application  
**EP 89810413 A 19890602**

Priority  
CH 220188 A 19880609

Abstract (en)  
[origin: JPH0233505A] PURPOSE: To perform clean combustion, to reduce a rate of the generation of nitrogen oxide to a slight value, and to prevent the generation of an unburnt hydrogen carbide during starting and a stop, by a method wherein a stationary mixing head having an opening for a combustible gas mixture is positioned at the outlet of a gasifying device. CONSTITUTION: A unit 27 comprises a gasifying device 17 a mixing head 29 an air aperture plate 35, and an electric heater 39. The mixing head 29 and the gasifying device 17 consists of integral parts, and a deflector part 31 is provided. The unit 27 is surrounded with a flame tube 21. A space 40 between the gasifying device 17 and the flame tube 21 forms a recirculation passage for high temperature combustion gas to an inlet 41. A hollow rotary body consists of the gasifying device 17 and the mixing head 29, and the front part thereof is formed in a form of a single cylindrical tube part 30 closed by a disc 31. The disc 31 is operated as a deflector part from a gas mixture, and the gas mixture flows out through the outlet opening 33 having a plurality of slots. The outlet opening 33 is positioned at a tubular part 36 of the mixing head and gas substantially radially flows out from the mixing head 29.

IPC 1-7  
**F23D 11/00; F23D 11/40**

IPC 8 full level  
**F23D 11/02** (2006.01); **F23D 11/00** (2006.01); **F23D 11/40** (2006.01); **F23D 11/44** (2006.01)

CPC (source: EP KR US)  
**F23D 11/008** (2013.01 - EP US); **F23D 11/12** (2013.01 - KR); **F23D 11/402** (2013.01 - EP US)

Citation (search report)  
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• [A] PATENT ABSTRACTS OF JAPAN, Band 8, Nr. 207 (M-327)[1644], 21. September 1984; & JP-A-59 095 311 (NIPPON DENSO) 01-06-1984  
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Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0346284 A2 19891213; EP 0346284 A3 19910731; EP 0346284 B1 19940831**; AT E110836 T1 19940915; CA 1325168 C 19931214; DE 58908259 D1 19941006; ES 2060809 T3 19941201; JP H0233505 A 19900202; KR 900000646 A 19900130; US 5015173 A 19910514

DOCDB simple family (application)  
**EP 89810413 A 19890602**; AT 89810413 T 19890602; CA 601894 A 19890606; DE 58908259 T 19890602; ES 89810413 T 19890602; JP 14552089 A 19890609; KR 890007924 A 19890609; US 35867389 A 19890530