

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.

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F23D 11/00; F23D 11/40

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

Citation (search report)
• [Y] EP 0232677 A1 19870819 - FULLEMANN JORG [CH]
• [YP] EP 0283435 A1 19880921 - VTH AG [LI]
• [Y] PATENT ABSTRACTS OF JAPAN, Band 12, Nr. 31 (M-663)[2878], 29. Januar 1988; & JP-A-62 186 114 (MATSUSHITA) 14-08-1987
• [Y] PATENT ABSTRACTS OF JAPAN, Band 10, Nr. 51 (M-457)[2108], 28. Februar 1986; & JP-A-60 200 012 (MATSUSHITA) 09-10-1985
• [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
• [A] PATENT ABSTRACTS OF JAPAN, Band 4, Nr. 176 (M-45)[658], 5. Dezember 1980; & JP-A-55 123 911 (BABCOCK HITACHI) 24-09-1980

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