

Title (en)
BURNER FOR THE COMBUSTION OF LIQUID GASEOUS FUELS

Publication
EP 0279913 A3 19890503 (DE)

Application
EP 87116550 A 19871110

Priority
DE 3706234 A 19870226

Abstract (en)
[origin: US4815966A] A burner for burning liquid or gaseous fuels, especially heavy heating oil. A central fuel lance is surrounded by two annular channels that supply primary and secondary combustion air. The annular channels are surrounded by several outer fuel lances that are distributed along the arc of a circle and can optionally be displaced axially and by air nozzles that convey tertiary combustion air. The object is to burn fuel at a low output of pollutants in systems with a narrow combustion space. The burner has an annular flue-gas channel between the outer annular channel and the air nozzles. The burner opens into a chamber that is jacketed in ceramic and that a heat exchanger (flame tube) extends out of. Other nozzles that convey a component of the flow of tertiary air are mounted in the wall of the chamber.

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F23C 9/08; **F23C 7/00**; **F23D 17/00**

IPC 8 full level
F23D 14/24 (2006.01); **F23C 7/00** (2006.01); **F23C 7/02** (2006.01); **F23C 9/08** (2006.01); **F23D 11/38** (2006.01); **F23D 17/00** (2006.01)

CPC (source: EP US)
F23C 7/00 (2013.01 - EP US); **F23C 9/08** (2013.01 - EP US); **F23D 17/002** (2013.01 - EP US)

Citation (search report)
• [AD] US 4347052 A 19820831 - REED ROBERT D, et al
• [A] FR 2332493 A1 19770617 - ELECTRIC POWER RES INST [US]
• [A] US 3868211 A 19750225 - HAYE PAUL G LA, et al
• [A] PATENT ABSTRACTS OF JAPAN, Band 7, Nr. 59 (M-199)[1204], 11. März 1983; & JP-A-57 204 706 (BABCOCK HITACHI K.K.) 15-12-1982

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DE4420140A1; DE4420140C2; FR2772887A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 0279913 A2 19880831; **EP 0279913 A3 19890503**; **EP 0279913 B1 19910306**; AT E61466 T1 19910315; DE 3706234 A1 19880908; DE 3706234 C2 19890601; DE 3768486 D1 19910411; DK 165138 B 19921012; DK 165138 C 19930222; DK 78088 A 19880827; DK 78088 D0 19880216; ES 2020544 B3 19910816; JP S63226515 A 19880921; US 4815966 A 19890328

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