

Title (en)
BURNER, PARTICULARLY BURNER FOR BURNING LIQUID FUEL IN GASEOUS STATE

Publication
EP 0232677 B1 19890809 (DE)

Application
EP 86810577 A 19861210

Priority
CH 556885 A 19851230

Abstract (en)
[origin: US4712997A] The burner has a motor (11), a fuel pump (13) and a fan (15). In the flame tube (81) is a gasification chamber having a gasification chamber housing (75) coaxially located to the flame tube (81), and a housing (75) located at a distance therefrom. The rotor (17) located in the housing (75) can be axially moved with respect to the bearing (29), thereby causing a slot between the axial bearing surfaces (51, 53). Through this slot fuel is ejected into the gasification chamber by the rotation of the rotor (17). The opening of the slot between the axial bearing surfaces (51, 53) depends on the oil pressure which is determined by signals of the heating control 24. The fuel throughput may be controlled in steps or continuously according to the heat requirements. The electric heating (77) is only used during the start phase. In operation of the burner the heat requirements for the gasifying chamber (25) are covered by the recirculation of hot combustion gases through the recirculation gas inlet (73).

IPC 1-7
F23D 11/00; F23D 11/06; F23D 11/26

IPC 8 full level
F23D 11/00 (2006.01); **F23D 11/06** (2006.01); **F23D 11/26** (2006.01)

CPC (source: EP US)
F23D 11/005 (2013.01 - EP US); **F23D 11/06** (2013.01 - EP US); **F23D 11/26** (2013.01 - EP US)

Cited by
EP0346284A3; EP0595419A1

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0232677 A1 19870819; EP 0232677 B1 19890809; AT E45417 T1 19890815; DE 3664956 D1 19890914; US 4712997 A 19871215

DOCDB simple family (application)
EP 86810577 A 19861210; AT 86810577 T 19861210; DE 3664956 T 19861210; US 94619086 A 19861223