Title (en)

SMALL CAPACITY OIL BURNER

Publication

EP 0122454 B1 19890315 (DE)

Application

EP 84102707 A 19840313

Priority

DE 3309301 A 19830316

Abstract (en)

[origin: WO8403752A1] With this small oil burner for an hourly oil throughput in a range not exceeding 5 kg, with a nozzle head (3) to which is added a heat exchanger (1), having at least one injection nozzle (7) connected to an oil supply and secured by a central attachment, as well as an outer burner pipe (4) surrounding the attachment of the injection nozzle (7) while forming a combustion air channel (5) connected to an air supply, it is possible to obtain, while keeping the basic design of small oil burners known heretofore, a high efficiency and a low pollution level since the oil flow rate may be controlled as a function of the load by the injection nozzle (7) designed as a non-return vortex injection nozzle, respectively a simplex injection nozzle with constant cross-section area, and since the air supply corresponding to the instantaneous oil flow rate may be controlled by the burner pipe (4); this air supply may be regulated by the burner pipe (4) by means of the axial displacement of a regulation element (ring 30) displaceable to oppose a return force and axially and movably arranged in the nozzle head (3), according to a function depending on the load and containing at least the variable pressure of the oil remaining at the injection nozzle (7), respectively to a function acting on said oil pressure.

IPC 1-7

F23D 11/26; F23N 1/02

IPC 8 full level

F23C 7/00 (2006.01); F23D 11/26 (2006.01); F23N 1/02 (2006.01)

CPC (source: EP US)

F23C 7/008 (2013.01 - EP US); F23D 11/26 (2013.01 - EP US); F23N 1/027 (2013.01 - EP US)

Cited by

FR2616210A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

**WO 8403752 A1 19840927**; AT E41500 T1 19890415; DE 3309301 A1 19840920; DE 3309301 C2 19860410; DE 3477254 D1 19890420; EP 0122454 A1 19841024; EP 0122454 B1 19890315; US 4651928 A 19870324

DOCDB simple family (application)

**EP 8400077 W** 19840315; AT 84102707 T 19840313; DE 3309301 A 19830316; DE 3477254 T 19840313; EP 84102707 A 19840313; US 67495284 A 19841115