

Title (en)
FURNACE DEVICE

Publication
EP 0227699 B1 19890104 (DE)

Application
EP 86903107 A 19860604

Priority
AT 174685 A 19850612

Abstract (en)
[origin: WO8607435A1] A heat exchange container (1) filled preferably with water of an individual or central heating installation is combined with a furnace device provided with a combustion chamber (5) and used for the pulsed combustion of flowing fuels, particularly liquids. Said furnace device is mounted on a support plate closing an opening of the container (1). The air supply is provided discontinuously through valves (30) and the fuel is continuously injected under pressure into a precombustion chamber (10) by means of an inlet nozzle (29) which is axially displaceable so that the injection pressure and the position of the injection nozzle (29) are essential variables. A turbulence element is arranged within the precombustion chamber (10) closed to the bottom of the chamber. Its opening is adjustable and it is intended to swirl the air-fuel mixture thereby providing another regulation variable. Preferably, the combustion chamber (5) is provided with double walls, the cylindrical double walls enclosing a narrow space enabling the heat transfer and the double bottom walls being separated by a large insulating space.

IPC 1-7
F23C 11/04; **F23D 11/40**

IPC 8 full level
F23C 15/00 (2006.01); **F23D 11/40** (2006.01)

CPC (source: EP US)
F23C 15/00 (2013.01 - EP US)

Cited by
DE102010052268B4; DE102010052268A1; WO2012069155A2

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

DOCDB simple family (publication)
WO 8607435 A1 19861218; AT E39746 T1 19890115; DE 3661653 D1 19890209; EP 0227699 A1 19870708; EP 0227699 B1 19890104; EP 0307538 A2 19890322; EP 0307538 A3 19890510; US 4759312 A 19880726

DOCDB simple family (application)
AT 8600045 W 19860604; AT 86903107 T 19860604; DE 3661653 T 19860604; EP 86903107 A 19860604; EP 88106358 A 19860604; US 2386087 A 19870204