

Title (en)

FUEL VAPORIZING AND COMBUSTION AIR SUPPLYING DEVICE.

Title (de)

VORRICHTUNG FÜR DIE VERDAMPFUNG VON BRENNSTOFFEN UND DIE SPEISUNG VON VERBRENNUNGSLUFT.

Title (fr)

DISPOSITIF DE VAPORISATION DE COMBUSTIBLES ET D'ALIMENTATION EN AIR DE COMBUSTION.

Publication

**EP 0683882 A1 19951129 (DE)**

Application

**EP 94905823 A 19940217**

Priority

- CH 51493 A 19930219
- IB 9400015 W 19940217

Abstract (en)

[origin: US5743726A] PCT No. PCT/IB94/00015 Sec. 371 Date Aug. 21, 1995 Sec. 102(e) Date Aug. 21, 1995 PCT Filed Feb. 17, 1994 PCT Pub. No. WO94/19648 PCT Pub. Date Sep. 1, 1994 Fuel is fed by a feeding pump to a pressurized container. A predetermined amount of fuel is kept constant in the container by a float which carries a needle for opening and closing a return as required. In the pressurized container the fuel is kept by a compressor under compressed air pressure which may be regulated by a pressure control valve, so that when the valve is opened fuel and air both under the same pressure are pressed into a nozzle unit in which air is highly pressed in the fuel so that when it leaves the nozzle channel it expands in an explosive manner and bursts the fuel into fine droplets. Secondary combustion air from an air generator is blown into the flame perpendicularly to the axis of the flame and fed to the fuel-air mixture.

IPC 1-7

**F23D 11/10**; **F23K 5/04**; **F23C 7/02**; **F23C 9/00**

IPC 8 full level

**F23C 7/02** (2006.01); **F23C 9/00** (2006.01); **F23D 11/00** (2006.01); **F23D 11/10** (2006.01); **F23D 11/38** (2006.01); **F23K 5/04** (2006.01); **F23K 5/18** (2006.01)

CPC (source: EP US)

**F23C 7/02** (2013.01 - EP US); **F23C 9/00** (2013.01 - EP US); **F23C 9/006** (2013.01 - EP US); **F23D 11/001** (2013.01 - EP US); **F23D 11/103** (2013.01 - EP US); **F23K 5/04** (2013.01 - EP US); **F23K 5/18** (2013.01 - EP US)

Cited by

AT504523B1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**US 5743726 A 19980428**; AT E161939 T1 19980115; AU 5978194 A 19940914; CA 2156248 A1 19940901; DE 59404953 D1 19980212; EP 0683882 A1 19951129; EP 0683882 B1 19980107; HU 9502439 D0 19951030; HU T74194 A 19961128; JP H08506887 A 19960723; WO 9419648 A1 19940901

DOCDB simple family (application)

**US 50725495 A 19950821**; AT 94905823 T 19940217; AU 5978194 A 19940217; CA 2156248 A 19940217; DE 59404953 T 19940217; EP 94905823 A 19940217; HU 9502439 A 19940217; IB 9400015 W 19940217; JP 51878894 A 19940217