

Title (en)
SPRAY NOZZLE

Publication
EP 0278115 B1 19900411 (DE)

Application
EP 87119244 A 19871228

Priority
CH 54587 A 19870213

Abstract (en)
1. An atomizer nozzle for atomizing liquid fuel with air supply, characterized by the following features : - it exhibits an internal chamber (1), an approximately hemispherical shell-shaped external chamber (2) surrounding it, a central fuel duct (3) and an air duct (5) surrounding the latter with the same axis (4) ; - the central fuel duct (3) and the air duct (5) open into inlet openings (6, 7) of the internal chamber (1) ; - the air duct (5) is also connected to the external chamber (2) via at least one connecting opening (83) ; - the internal chamber (1) exhibits, opposite its inlet openings (6, 7), several outlet openings (9, 10) which open into the external chamber (2) ; - the external chamber (2) exhibits a corresponding number of outlet openings (11, 12) which are in alignment with the outlet openings (9, 10) of the internal chamber (1) and lead to the outside.

IPC 1-7
B05B 7/04; **F23D 11/10**

IPC 8 full level
B05B 7/04 (2006.01); **B05B 7/08** (2006.01); **F23D 11/10** (2006.01)

CPC (source: EP US)
B05B 7/0458 (2013.01 - EP US); **B05B 7/0475** (2013.01 - EP US); **B05B 7/0491** (2013.01 - EP US); **B05B 7/08** (2013.01 - EP US);
B05B 7/0892 (2013.01 - EP US); **F23D 11/102** (2013.01 - EP US)

Cited by
CN105864760A; CN101982244A; AU656536B2; US5372312A; DE4238736A1; EP0598189A1; DE3943096A1; FR2641365A1; DE3943096C2;
EP0449788A3; US5143297A; US10113746B2; WO9204127A1

Designated contracting state (EPC)
CH DE GB LI SE

DOCDB simple family (publication)
EP 0278115 A1 19880817; **EP 0278115 B1 19900411**; DE 3762288 D1 19900517; JP 2657157 B2 19970924; JP H01127067 A 19890519;
US 4890793 A 19900102

DOCDB simple family (application)
EP 87119244 A 19871228; DE 3762288 T 19871228; JP 2900088 A 19880212; US 15161288 A 19880202