

Title (en)

Nozzle to inject fuel as a mist like spray for a fuel burner and burner comprising such a nozzle

Title (de)

Brennstoffeinspritzdüse zum nebelartigen Einspritzen des Brennstoffes und Brenner mit einer solchen Einspritzdüse

Title (fr)

Injecteur de combustible sous forme de brouillard pour brûleur à fioul et brûleur muni d'un tel injecteur

Publication

EP 0965791 A1 19991222 (FR)

Application

EP 99401368 A 19990608

Priority

FR 9807499 A 19980615

Abstract (en)

The injector comprises a channel (31) through which a liquid fuel forming a film lining on its wall and a spraying fluid are transmitted. The fuel is then projected in a mist with the spraying fluid. From the channel to the injector free end is a film destabilization chamber (32) with a transverse section greater than that of the channel. A film extracting constriction (33) extending from the destabilization chamber has a transverse section less than that of the chamber. An Independent claim is included for a burner using the injector.

IPC 1-7

F23D 11/10; F23D 11/00; B05B 7/04

IPC 8 full level

B05B 7/04 (2006.01); **F23D 11/00** (2006.01); **F23D 11/10** (2006.01); **F23D 11/38** (2006.01); **B05B 7/06** (2006.01)

CPC (source: EP US)

B05B 7/0425 (2013.01 - EP US); **B05B 7/0433** (2013.01 - EP US); **F23D 11/002** (2013.01 - EP US); **F23D 11/101** (2013.01 - EP US); **B05B 7/066** (2013.01 - EP US); **F23D 2900/11101** (2013.01 - EP US)

Citation (search report)

- [XAY] GB 2096911 A 19821027 - SIMPKINS DAVID ROGERS PRICE
- [Y] FR 2377576 A1 19780811 - ITALIMPIANTI [IT]
- [A] EP 0392553 A1 19901017 - IKEUCHI KK [JP]
- [DA] EP 0755720 A1 19970129 - AIR LIQUIDE [FR]
- [A] EP 0646751 A1 19950405 - AIR LIQUIDE [FR]

Cited by

WO2010054798A1

Designated contracting state (EPC)

DE ES IT NL

DOCDB simple family (publication)

EP 0965791 A1 19991222; **EP 0965791 B1 20040811**; DE 69919272 D1 20040916; DE 69919272 T2 20050804; ES 2226305 T3 20050316; FR 2779805 A1 19991217; FR 2779805 B1 20000721; JP 2000028111 A 20000125; US 6135366 A 20001024

DOCDB simple family (application)

EP 99401368 A 19990608; DE 69919272 T 19990608; ES 99401368 T 19990608; FR 9807499 A 19980615; JP 16346299 A 19990610; US 32999399 A 19990610