Title (en)

Air-blast spray nozzle

Title (de)

Airblast-Zerstäuberdüse

Title (fr)

Buse de pulvérisation par air comprimé

Publication

EP 0769655 B1 20030409 (DE)

Application

EP 96810646 A 19960930

Priority

DE 19539246 A 19951021

Abstract (en)

[origin: EP0769655A2] The nozzle (2) consists of a liquid fuel pipe (12) around the nozzle's axle (11), with at least one fuel (4)dispenser onto an atomiser edge (19). Two concentric air ducts (13,14) are fed by an air inlet pipe (15), with concentric pilot gas duct (22). The ducts are separated by partitions (18). The air ducts (13,14) on the nozzle's atomiser cross-section (16) open into the burner's inner chamber (17). The partition between the inner (14) and outer (13) air duct forms the atomiser edge and is held by inner and outer support elements (21). The inner support elements are positioned between the partition and the fuel pipe, and the outer support elements are positioned between the partition and the outer nozzle body (23).

IPC 1-7

F23D 11/10; F23D 11/00

IPC 8 full level

F23D 11/40 (2006.01); **F23D 11/00** (2006.01); **F23D 11/10** (2006.01)

CPC (source: EP US)

F23D 11/007 (2013.01 - EP US); **F23D 11/107** (2013.01 - EP US); F23C 2900/07002 (2013.01 - EP US); F23D 2211/00 (2013.01 - EP US); F23D 2900/11101 (2013.01 - EP US)

Cited by

WO2023166126A1; WO2010054798A1; DE102006055837A1; CN102272524A; US8590812B2; DE102023103446A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0769655 A2 19970423; **EP 0769655 A3 19990120**; **EP 0769655 B1 20030409**; CN 1126909 C 20031105; CN 1156804 A 19970813; DE 19539246 A1 19970424; DE 59610329 D1 20030515; JP 3810491 B2 20060816; JP H09133326 A 19970520; US 5782626 A 19980721

DOCDB simple family (application)

EP 96810646 A 19960930; CN 96114440 A 19961019; DE 19539246 A 19951021; DE 59610329 T 19960930; JP 27485896 A 19961017; US 69666596 A 19960814