

Title (en)

Gas turbine manager furnace with fuel nozzle with controlled fuel homogeneity

Title (de)

Gasturbinenmagerbrenner mit Kraftstoffdüse mit kontrollierter Kraftstoffinhomogenität

Title (fr)

Brûleur maigre de turbine à gaz doté d'une buse à carburant ayant une homogénéité de carburant contrôlée

Publication

EP 2037172 B1 20140402 (DE)

Application

EP 08015722 A 20080905

Priority

DE 102007043626 A 20070913

Abstract (en)

[origin: EP2037172A2] Main-fuel injection (18) has central recesses (23) for controlled inhomogeneous fuel injection, especially in a peripheral direction. Their number on the periphery amounts to between 8 and 40 and, in a peripheral direction, they have a delta 2 setting angle of 10[deg] = delta 2 = 60[deg] and a delta 1 axial setting angle opposite a burner's axis between -10[deg] = delta 1 = 90[deg] . The central recesses are arranged in a single row, in multiple rows or in a zigzag layout.

IPC 8 full level

F23R 3/34 (2006.01); **F23D 11/10** (2006.01)

CPC (source: EP US)

F23D 11/107 (2013.01 - EP US); **F23R 3/343** (2013.01 - EP US)

Cited by

CN102639939A; EP2703720A3; CN108844097A; EP2549183A1; US9103552B2; US9285122B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2037172 A2 20090318; **EP 2037172 A3 20120926**; **EP 2037172 B1 20140402**; DE 102007043626 A1 20090319; US 2009139240 A1 20090604; US 2012174588 A1 20120712; US 8646275 B2 20140211

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