

Title (en)

Combustor and a fuel supply method for the combustor

Title (de)

Verbrennungsanlage und Kraftstoffversorgungsverfahren für die Verbrennungsanlage

Title (fr)

Chambre de combustion et procédé d'alimentation en combustible pour la chambre de combustion

Publication

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Application

EP 08007935 A 20080424

Priority

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Abstract (en)

[origin: EP1985920A2] It is an object of the present invention to maintain flame stability in a combustor using coaxial jets even if NO_x is further reduced. A combustor (100) includes a chamber (1) mixing and burning fuel and air; an air hole plate (50) disposed on a wall surface of the chamber (1), the air hole plate (50) including a plurality of rows disposed concentrically of a plurality of air holes (51) jetting coaxial jets of fuel and air into the chamber (1); and a first fuel nozzle (42) and a second fuel nozzle (43) disposed near a fuel hole jetting fuel into an air hole row on an inner peripheral side, the first fuel nozzle (42) being structured to suppress turbulence of a surrounding air flow and the second fuel nozzle (43) being structured to promote turbulence of a surrounding air flow. In accordance with the aspect of the present invention, good flame stability can be maintained even by further reducing NO_x in a combustor using coaxial jets.

IPC 8 full level

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CPC (source: EP)

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