

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

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Priority

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Abstract (en)

It is an object of the present invention to maintain flame stability in a combustor using coaxial jets even if NOx 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 NOx in a combustor using coaxial jets.

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Citation (applicant)

JP 2003148734 A 20030521 - HITACHI LTD

Cited by

EP2345847A3; CN111780112A; CN111928295A

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