

FLUID DISTRIBUTOR, BURNER APPARATUS, GAS TURBINE ENGINE AND
CO-GENERATION SYSTEM
ABSTRACT OF THE DISCLOSURE

In the present invention, in a burner apparatus comprising an inner tube (2) defining a second channel (A2) and an outer tube (3) defining a first channel (A1) surrounding the inner tube (2), air supplying means for supplying air to the first channel (A1) and the second channel (A2), and gas supplying means for supplying fuel gas G to the first channel (A1) and the second channel (A2), either the first channel (A1) or the second channel (A2) being used as a main combustion channel and the other being used as a pilot combustion channel, the main combustion channel and the pilot combustion channel receiving the supply of fuel gas (G) for combusting it, said gas supplying means includes a plurality of fluid distributors (4) arranged in dispersion in a peripheral direction of the main combustion channel and the pilot combustion channel, each fluid distributor (4) including a first supply opening (5) for supplying the fuel gas G into the main combustion channel, a supply line (6) for supplying the fuel gas G present inside a gas channel (A3) to the first supply opening (5), and distributing means incorporated in the supply line for distributing the fuel gas (G) into the pilot combustion channel so that the distribution ratio of the fuel gas (G) to be supplied to the first supply opening (5) is increased in response to increase in a total supply amount of the fuel gas (G) from the gas channel (A3) and conversely the distribution ratio of the fuel gas (G) to be supplied to the first supply opening (5) is decreased in response to decrease in the total supply amount. And, the first channel (A1) is used as the main combustion channel and the second channel (A2) is used as the pilot combustion channel.



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FIG. 1



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