

Title (en)

Method for supplying fuel to a premix burner

Title (de)

Vorrichtung zur Brennstoffversorgung eines Vormischbrenners

Title (fr)

Procéder pour alimenter un brûleur a prémélange an combustible

Publication

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Application

EP 07113855 A 20011003

Priority

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Abstract (en)

[origin: WO0229318A1] The invention relates to a method and device for supplying fuel to a premix burner, which has at least one burner shell (1, 2) that at least partially delimits an axially extending premix combustion chamber, in order to operate a gas turbine. According to the invention, premix gas is supplied into the premix combustion chamber via the burner shell (1, 2), whereby the premix gas (6) is mixed with combustion additional air and is ignited downstream at a location outside of the premix burner. The invention is characterized in that the premix gas is separately supplied via at least two areas (S1, S2), which are axially separated in a spatial manner, along the burner shell (1, 2), whereby one area (S1) is arranged upstream and at least one second area (s2) is arranged downstream. The invention is additionally characterized in that, for starting the gas turbine, more than 60 % of the entire premix gas is supplied over the first area (S1) and that, for the continued running up of the load of the gas turbine to full load, a gradual or continuous redistribution of the supply of premix gas to the second area (S2) ensues.

IPC 8 full level

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Citation (search report)

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DOCDB simple family (publication)

WO 0229318 A1 20020411; AU 9019101 A 20020415; CN 1236227 C 20060111; CN 1468352 A 20040114; DE 10049205 A1 20020523; DE 50113065 D1 20071108; EP 1334309 A1 20030813; EP 1334309 B1 20070926; EP 1855054 A2 20071114; EP 1855054 A3 20080409; EP 1855054 B1 20160817; JP 2004510918 A 20040408; JP 4143401 B2 20080903; US 2004029058 A1 20040212; US 7003960 B2 20060228

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