

Title (en)
PREMIXED GAS BURNING METHOD AND COMBUSTOR.

Title (de)
VERFAHREN UND VORRICHTUNG ZUR VORMISCHENDEN GASVERBRENNUNG.

Title (fr)
PROCEDE DE COMBUSTION D'UN PREMELANGE GAZEUX ET BRULEUR CON U A CET EFFET.

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Abstract (en)
This invention aims at eliminating from a fuel-air premixing nozzle-carrying combustor the inconveniences, such as variation of flame length which is ascribed to variation of combustion rate due to variation of fuel concentration in a premixed gas; and the occurrence of combustion vibration. The present invention provides a combustion method in which a non-fuel-containing fluid (8) is supplied to a space between a premixed gas layer (2) formed by a premixed gas ejected from a premixing nozzle (1) and a high-temperature gas layer (5) formed by a part of a high temperature gas occurring due to the combustion of the premixed gas, which part of the high-temperature gas is circulated or reside in a downstream zone at an outlet portion of the premixing nozzle; and a combustor. <IMAGE>

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Cited by
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