

Title (en)  
BURNER ARRANGEMENT FOR A COMBUSTION CHAMBER, ASSOCIATED COMBUSTION CHAMBER AND METHOD FOR COMBUSTING FUEL

Title (de)  
BRENNERANORDNUNG FÜR EINE BRENNKAMMER, ZUGEHÖRIGE BRENNKAMMER SOWIE VERFAHREN ZUM VERBRENNEN EINES BRENNSTOFFS

Title (fr)  
ENSEMBLE DE BRULEURS POUR UNE CHAMBRE DE COMBUSTION, CHAMBRE DE COMBUSTION CORRESPONDANTE ET PROCEDE POUR BRULER UN COMBUSTIBLE

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Abstract (en)  
[origin: WO2007028711A1] The invention relates to a burner arrangement for a combustion chamber (12) in addition to an associated combustion chamber (12), in particular a gas turbine combustion chamber or a steam generator combustion chamber, comprising a plurality of burners (8), which are equipped for the combustion of fuel which contains carbon by supplying pure oxygen, which is effective as an oxidation agent. The aim of the invention is to obtain a burner arrangement which has a particularly high energetic degree of efficiency and particularly low residue emissions and at the same time maintains the construction and operation thereof simple and economical and reverts to suitable fuelling concepts. Also, the acceptable material temperatures of the encircling walls (6) surrounding the combustion chamber (12) must not be exceeded. The inventive first burner (8) is embodied in such a manner that the ratio (?), per time unit, of the amount of oxygen guided therein, in normal operation, for the stoichiometrically required amount of oxygen is greater than for a second burner (8) which is arranged downstream from the direction of the flow of flue gas (14).<SUP/>

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