

Title (en)  
METHOD FOR OPERATING A COMBUSTION SYSTEM

Title (de)  
VERFAHREN ZUM BETRIEB EINES VERBRENNUNGSSYSTEMS

Title (fr)  
PROCÉDÉ DE COMMANDE D'UN SYSTÈME DE COMBUSTION

Publication  
**EP 3059501 A1 20160824 (EN)**

Application  
**EP 15155961 A 20150220**

Priority  
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Abstract (en)  
The present invention relates to a method for operating a combustion system (10, 10a) of a combustion section (12) of a gas turbine engine (14) comprising at least one main burner arrangement (16) and at least one pilot burner arrangement (18), wherein the at least one main burner arrangement (16) and the at least one pilot burner arrangement (18) are operated with an air-fuel mixture (20) and wherein the at least one main burner arrangement (16) is operated with O<sub>2</sub>-lean air (22), wherein the method comprises the steps of: Increasing the percentage of oxygen of the air-fuel mixture (20) of the at least one pilot burner arrangement (18) by feeding of air (24) having a higher percentage of oxygen than the O<sub>2</sub>-lean air (22).

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**F23R 3/343** (2013.01); **F23D 2900/00014** (2013.01); **F23R 2900/03343** (2013.01)

Citation (applicant)  
EP 1110034 A1 20010627 - SIEMENS AG [DE]

Citation (search report)  
• [I] EP 1269094 B1 20060524 - AIR LIQUIDE [FR]  
• [I] US 2008141645 A1 20080619 - EVULET ANDREI TRISTAN [US], et al  
• [I] US 5901547 A 19990511 - SMITH ARTHUR RAMSDEN [US], et al

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