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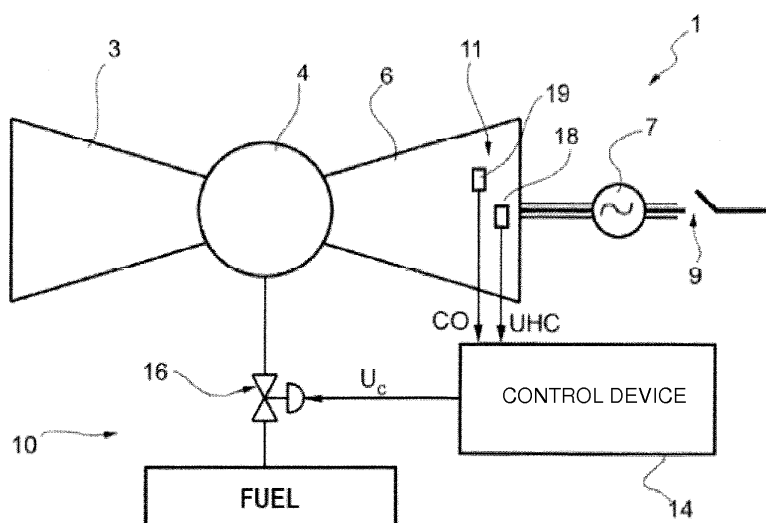
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(54) **Control method for controlling the supply of fuel to a gas turbine plant and gas turbine plant**

(57) A control method for controlling the supply of fuel to a gas turbine plant (1) provided with a gas turbine (6) and a combustion chamber (4) supplied with a fuel/oxidizer mixture, includes the steps of:
- at the exhaust (12) of the gas turbine (6), detecting at least a first parameter related to the unburned fuel concentration (UHC);

centration (UHC);
- at the exhaust (12) of the gas turbine (6,) detecting at least a second parameter related to the specific energy produced by the combustion (CO);
- calculating a fuel flow rate (Q_{TOT}) to be supplied to the combustion chamber (4) on the basis of the first parameter (UHC) and of the second parameter (CO).

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
EP 12 16 9656

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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A	* paragraph [0008] - paragraph [0055]; claims 12,20,24-26; figures 1-5 *	3,11	

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A	* paragraph [0052] - paragraph [0077]; figures 2,3 *	3,11	

			TECHNICAL FIELDS SEARCHED (IPC)
			F23N
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 22 April 2013	Examiner Theis, Gilbert
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 12 16 9656

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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