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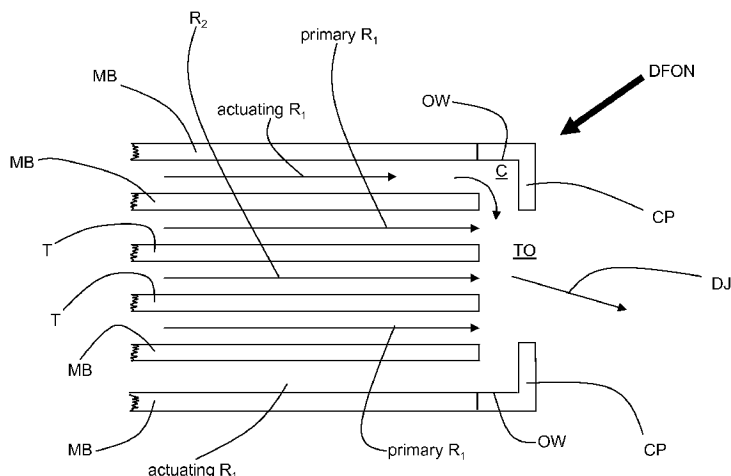
(54) **Title:** DISTRIBUTED COMBUSTION PROCESS AND BURNER

FIG 4E

(57) **Abstract:** During a heating phase, injection of a jet of fuel and oxidant (fuel annularly enshrouding oxidant or oxidant annularly enshrouding fuel) from a fuel-oxidant nozzle is combusted in a combustion space. During a transition from the heating phase to a distributed combustion phase, an amount of a secondary portion of either the fuel or oxidant is injected as a jet into the combustion space while the primary portion of that same reactant from the fuel-oxidant nozzle is decreased. At some point during the transition phase, a jet of actuating fluid is injected at an angle towards the jet of reactants from the fuel-oxidant nozzle and/or towards the jet of the secondary portion of reactant. The jet of primary portions of reactants and/or secondary portion of reactant is caused to be bent/deviated towards the other of the two jets. The staging of the secondary portion of reactant is increased until a desired degree of staging and commencement of a distributed combustion phase are achieved.



— *with information concerning authorization of rectification of an obvious mistake under Rule 91.3 (b) (Rule 48.2(i))*

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
F23D F23M F23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2006/031163 A1 (AGA AB [SE]; LUGNET ANDERS [SE]; EKMAN TOMAS [SE]) 23 March 2006 (2006-03-23) cited in the application page 2, line 11 - page 3, paragraph 3; figures	1-28
A	US 5 688 115 A (JOHNSON GREGORY LYNN [US]) 18 November 1997 (1997-11-18) cited in the application column 3, line 12 - line 23 column 4, line 3 - column 5, line 6; figures ----- -/--	1-28



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 926 296 A1 (AIR LIQUIDE [FR]) 17 July 2009 (2009-07-17) page 5, lines 9-12 page 5, line 31 - page 6, line 2 page 6, line 26 - page 7, line 25 page 8, line 12 - line 16 page 9, line 21 - page 10, line 21; figures -----	1-28
A	US 2007/254251 A1 (CAO JIN [US] ET AL) 1 November 2007 (2007-11-01) cited in the application abstract; figures -----	1-28

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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