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(71) Applicant: **Ansaldo Energia S.p.A.
Genova (IT)**

(72) Inventors:
• **Mori, Giulio
17100 Savona (IT)**
• **Anisimov, Vyacheslav V.
16161 Genova (IT)**
• **De Oliveira Silva Parente, Joao Miguel
2795-136 Linda-a-Velha, Oeiras (PT)**

(74) Representative: **Bergadano, Mirko et al
Studio Torta S.p.A.
Via Viotti, 9
10121 Torino (IT)**

(54) **A premix burner for a gas turbine, in particular a microturbine**

(57) A gas turbine premix burner (1) is provided with a main annular duct (7) and a secondary annular duct (24), which are concentric with respect to a longitudinal axis (3) and have respective inlets (8, 25) for combustion air and respective axial outlets (9, 26), which give out, in use, into a combustion chamber (2); the main annular duct (7) has an initial portion (10) housing a blading (12)

generating vortices and houses a plurality of pipes (39) for feeding combustible gas into the main annular duct (7); said pipes (39) are arranged about the longitudinal axis (3) and downstream of the blading (12) and each have at least one outlet hole (41), which has a radial component with respect to the axis (40) of the pipe (39).

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Y	WO 99/19674 A1 (SIEMENS WESTINGHOUSE POWER [US]) 22 April 1999 (1999-04-22) * page 3, line 29 - page 5, line 31; figures 2,3 *	1-10	
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A	WO 03/078814 A1 (ROLLS ROYCE CORP [US]; VERDOUW ALBERT J [US]; SMITH DUANE [US]; MCCORM) 25 September 2003 (2003-09-25) * the whole document *	1-10	
			TECHNICAL FIELDS SEARCHED (IPC)
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 10 April 2015	Examiner Munteh, Louis
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
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