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(54) **Compressor of a gas turbine system**

(57) A compressor 12 of a gas turbine system 10 includes at least one inlet row having a plurality of inlet guide vanes. Also included is at least one stator row 14 having a plurality of stator vanes. Further included is a first actuation mechanism 32 operably connected to the at least one stator row 14, wherein the first actuation

mechanism is configured to positionally manipulate the at least one stator row 14. Yet further included is a second actuation mechanism 34 operably connected to the at least one stator row, wherein the second actuation mechanism is configured to positionally manipulate the at least one stator row.

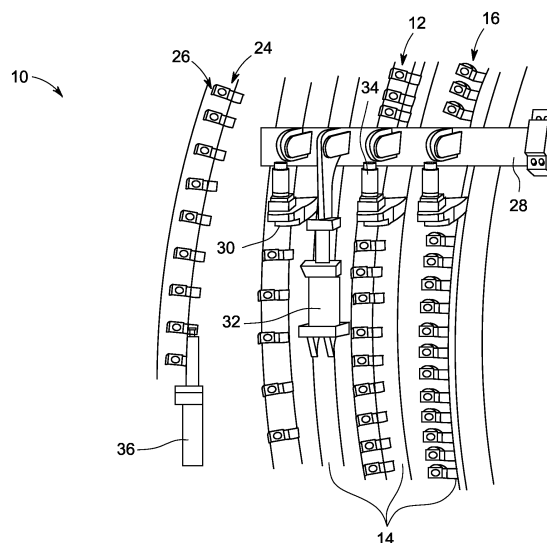


FIG. 1

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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 1 803 903 A1 (SIEMENS AG [DE]) 4 July 2007 (2007-07-04) * paragraphs [0012], [0019]; figures 1,2 *	1-15	INV. F01D17/14 F01D17/16
X	----- US 2011/176913 A1 (WASSYNGER STEPHEN PAUL [US] ET AL) 21 July 2011 (2011-07-21) * paragraph [0016]; figure 2 *	1,2, 4-10,14, 15	
X	----- EP 2 211 026 A2 (ROLLS ROYCE PLC [GB]) 28 July 2010 (2010-07-28) * paragraphs [0008], [0015], [0038]; figure 10 *	1-15	
Y	----- US 2011/085885 A1 (COPELAND ANDY [US] ET AL) 14 April 2011 (2011-04-14) * paragraph [0016]; figure 2 *	3,11-13	
Y	----- US 5 938 401 A (MODEEN DOUGLAS P [US] ET AL) 17 August 1999 (1999-08-17) * figure 1 *	3,11-13	TECHNICAL FIELDS SEARCHED (IPC)
Y	----- EP 0 527 593 A2 (GEN ELECTRIC [US] GEN ELECTRIC [FR]) 17 February 1993 (1993-02-17) * the whole document *	3,11-13	F01D
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 25 October 2013	Examiner Avramidis, Pavlos
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 13 16 5099

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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25-10-2013

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1803903	A1	04-07-2007	NONE	
US 2011176913	A1	21-07-2011	CH 702603 A2	29-07-2011
			CN 102128179 A	20-07-2011
			DE 102011000182 A1	21-07-2011
			JP 2011149425 A	04-08-2011
			US 2011176913 A1	21-07-2011
EP 2211026	A2	28-07-2010	EP 2211026 A2	28-07-2010
			GB 2467153 A	28-07-2010
			US 2010189549 A1	29-07-2010
US 2011085885	A1	14-04-2011	NONE	
US 5938401	A	17-08-1999	NONE	
EP 0527593	A2	17-02-1993	EP 0527593 A2	17-02-1993
			JP H05199704 A	06-08-1993

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82