

(19)



(11)

EP 2 816 199 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
04.03.2015 Bulletin 2015/10

(43) Date of publication A2:
24.12.2014 Bulletin 2014/52

(21) Application number: **14170721.6**

(22) Date of filing: **02.06.2014**

(51) Int Cl.:
F01D 19/00 (2006.01) **F01D 25/06** (2006.01)
F01D 25/04 (2006.01) **F01D 5/00** (2006.01)
F01D 5/10 (2006.01) **F01D 5/16** (2006.01)
F01D 21/00 (2006.01) **F01D 11/10** (2006.01)
F01D 9/04 (2006.01) **F01D 25/24** (2006.01)

(84) Designated Contracting States:
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR**
Designated Extension States:
BA ME

(30) Priority: **17.06.2013 EP 13172223**

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(54) Control of low volumetric flow instabilities in steam turbines

(57) Configuration (10) of the last stage of a steam turbine where rotor blades (2) rotate encircled by a vane carrier (1), such that a plurality of passages (20) are located in the vane carrier (1), such that a fluid is blown through these passages (20) forming a flow that impinges onto the rotor blades (2), the number of passages (20),

the location of the passages (20) in the vane carrier (1) and the velocity of the flow impinging onto the rotor blades (2), being calculated in such a way that rotating flow instabilities in the rotor blades (2) when the steam turbine operates at low volumetric flow conditions are avoided.

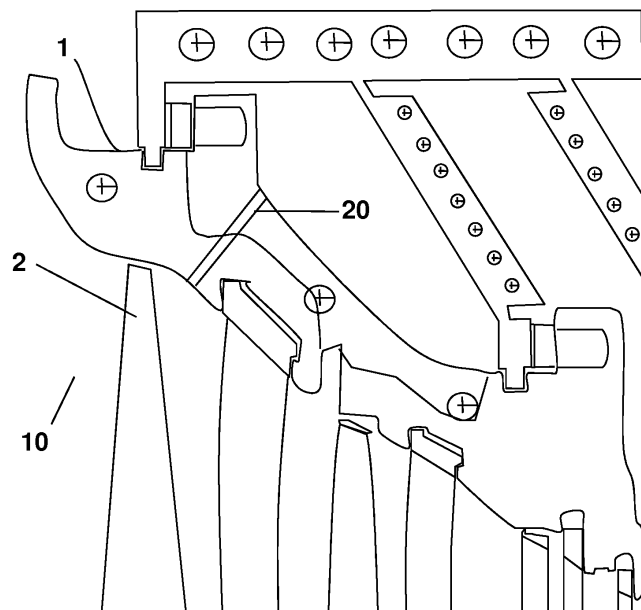


Fig. 3

EP 2 816 199 A3



EUROPEAN SEARCH REPORT

Application Number
EP 14 17 0721

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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	CH 697 101 A5 (ZHENGJI ZHANG [CH]) 30 April 2008 (2008-04-30) * abstract *	1-12	
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Place of search Munich		Date of completion of the search 27 January 2015	Examiner Klados, Iason
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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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