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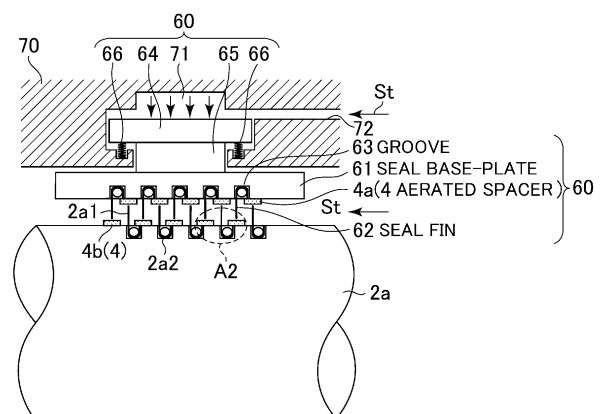
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(54) **Seal structure and control method therefor**

(57) The invention discloses a seal structure and a control method therefor that can improve sealing performance between a rotating portion and a fixed portion, smoothly start up a steam turbine (2), and suppress the temperature rise of the rotating portion even if the rotating portion is continuously rotated for a long period of time.

A seal structure is configured such that seal fins (62) on a seal base-plate (61) side and corresponding breathable spacers (4b) on a rotor (2a) side are opposed to each other and breathable spacers (4a) on the seal base-plate (61) side and corresponding seal fins (2a1) on the rotor (2a) side are opposed to each other. The seal base-plate (61) is installed shiftably in a direction coming close to or moving away from the rotor (2a). If steam St has low pressure, the seal fins (62) and the corresponding breathable spacers (4b) are not in contact with each other and the seal fins (2a1) and the corresponding breathable spacers (4a) are not in contact with each other. If the steam St has high pressure, the seal fins (62) and the corresponding breathable spacers (4b) are in contact with each other and the seal fins (2a1) and the corresponding breathable spacers (4a) are in contact with each other.

FIG.3





EUROPEAN SEARCH REPORT

 Application Number
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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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			TECHNICAL FIELDS SEARCHED (IPC)
			F01D
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 8 September 2017	Examiner Pileri, Pierluigi
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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5 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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