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(54) **Title:** AXIAL FLOW COMPRESSOR TIP CLEARANCE CONTROL BY AXIAL SHIFT OF ROTOR

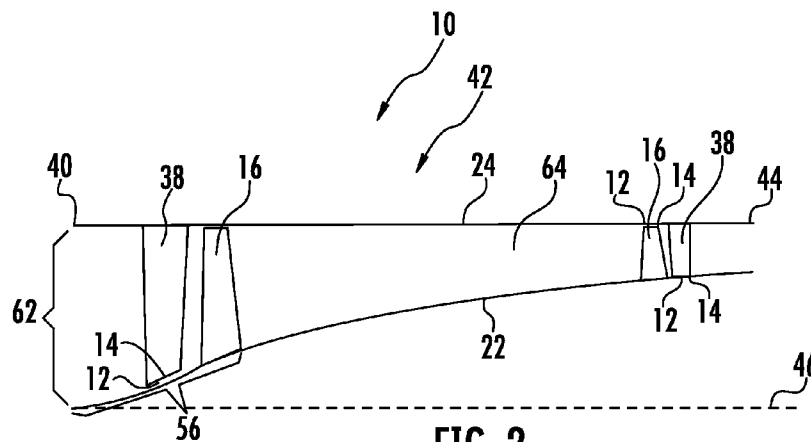
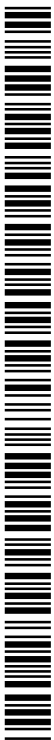


FIG. 2

(57) **Abstract:** In a turbine engine, an axial compressor is equipped with a system that moves the rotor axially in order to influence the tip clearances of cantilevered airfoils during operation. Axial movement of the rotor can reduce the tip clearances of both one cantilevered rotor blade and one cantilevered stator vane. The radially inwards flowpath boundary of the compressor is shaped in such a way that its radius increases in streamwise direction over a portion of its axial extend, at least over the 40% downstream part of its axial extend.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 F01D F04D

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	US 2008/267769 A1 (SCHWARZ FREDERICK M [US] ET AL) 30 October 2008 (2008-10-30) paragraphs [0053] - [0056]; figure 12 -----	1-17

Further documents are listed in the continuation of Box C.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2008267769	A1	NONE	30-10-2008