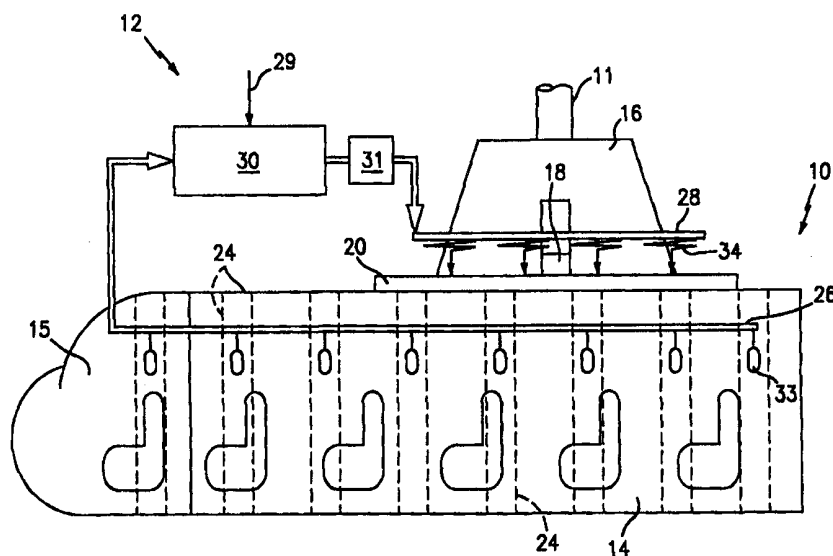




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(54) Title: ACTIVE NOISE CONTROL SYSTEM FOR A DEFINED VOLUME



(57) Abstract

An active noise control system (12) for minimizing undesirable acoustic noise in a defined volume, wherein the undesirable acoustic noise is generated by high frequency structural vibrations emanating from a vibration source structurally coupled to the defined volume at a structural interface. The active noise control system (12) comprises a sensor subsystem (26) disposed in combination with the defined volume (14) for sensing the undesirable acoustic noise in the defined volume (14), an actuator subsystem (28) disposed proximal to the structural interface (22), and a controller (30) functionally interconnecting the sensor subsystem (26) to the actuator subsystem (28), the controller (30) being operative to receive input from the sensor subsystem (26) and to transmit command signals to the actuator subsystem (28) in response thereto for generating selected high frequency counter-vibrations that are interactive with the high frequency structural vibrations to minimize the undesirable acoustic noise in the defined volume (14).

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 98/17121

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 B64C27/00 G10K11/178

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 B64C G10K

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 practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X A	GB 2 217 951 A (UNIV SOUTHAMPTON) 1 November 1989 see page 11, line 11 - line 26; figure 6 see page 17, line 10 - line 15 ---	1,2,13, 14 3-5,15, 17,18
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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