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DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
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KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
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(54) Title: METHODS AND SYSTEMS FOR ACTIVE SOUND ATTENUATION IN AN AIR HANDLING UNIT

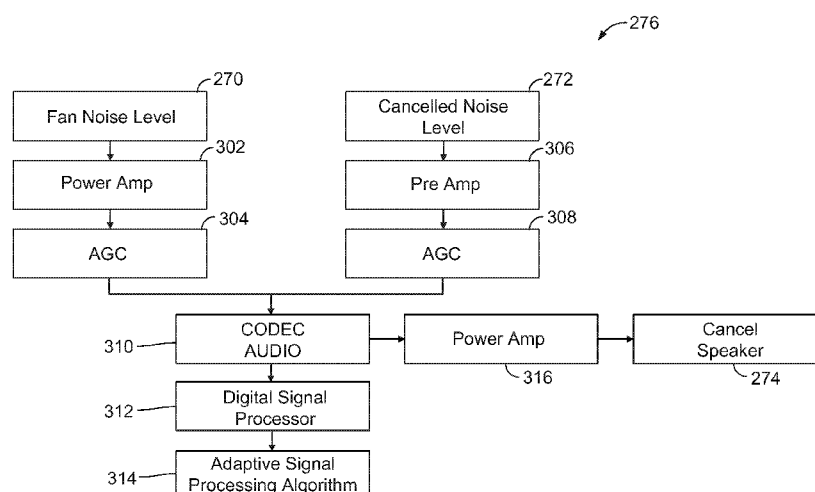


FIG. 4

(57) Abstract: A system and method for controlling noise produced by an air handling system is provided. The system includes a source microphone to collect sound measurements from the air handling system and a processor to define a cancellation signal that at least partially cancels out the sound measurements. The system also includes a speaker to generate the cancellation signal. The sound measurements are at least partially canceled out within a region of cancellation. Accordingly, the system further includes a response microphone to collect response sound measurements at the region of cancellation. The processor tunes the cancellation signal based on the response sound measurements.

A. CLASSIFICATION OF SUBJECT MATTER***F24F 11/02(2006.01)i, F24F 11/00(2006.01)i, F24F 13/24(2006.01)i***

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)

F24F 11/02; G01H 3/00; A61F 11/06; H03B 29/00; G10K 11/16; G10K 11/178

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: acoustic, offset, cancellation

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2010-0014685 A1 (WURM MICHAEL) 21 January 2010 See Para.13, Claims 1, 23	1-12
X	See Para.13, Claims 1, 23	13-49
Y	EP 1357540 A2 (SIEMENS VDO AUTOMOTIVE INC.) 29 October 2003 See Claims 1, 10, Fig. 1	1-12
X	See Claims 1, 10, Fig. 1	13-49
Y	US 06118878A A (JONES; OWEN) 12 September 2000 See Claims 1-3	1-12



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
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