



(11) **EP 2 747 075 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**22.06.2016 Bulletin 2016/25**

(51) Int Cl.:  
**G10K 11/178<sup>(2006.01)</sup>**

(43) Date of publication A2:  
**25.06.2014 Bulletin 2014/26**

(21) Application number: **13196126.0**

(22) Date of filing: **06.12.2013**

(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**

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(30) Priority: **21.12.2012 US 201213725257**

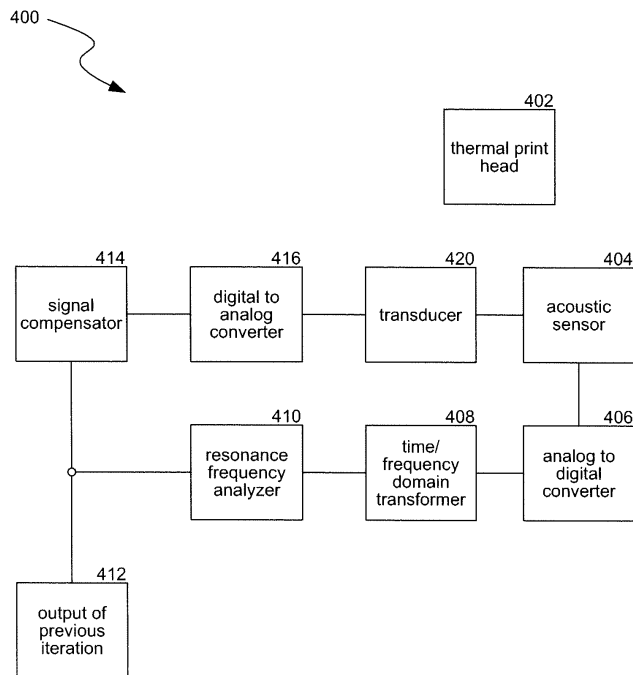
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(54) **Closed-loop active noise reduction system, such as for a thermal printer**

(57) A system and method for reduce noise emitted by a printer are disclosed herein. In one embodiment, a sound detector (404) disposed proximate to a noise source (402) detects a measured noise signal, which is analyzed (410) to determine one or more resonant frequencies thereof. A feedback signal is determined (414) based on the analyzed noise signal and is used to generate (416) a compensated signal 180 degrees out of phase with the feedback signal. The compensated signal is output (420) proximate to the noise source.

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**FIG. 4**

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EUROPEAN SEARCH REPORT

Application Number  
EP 13 19 6126

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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 25 April 2016	Examiner Lameloise, C
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			

EPO FORM 1503 03/02 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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