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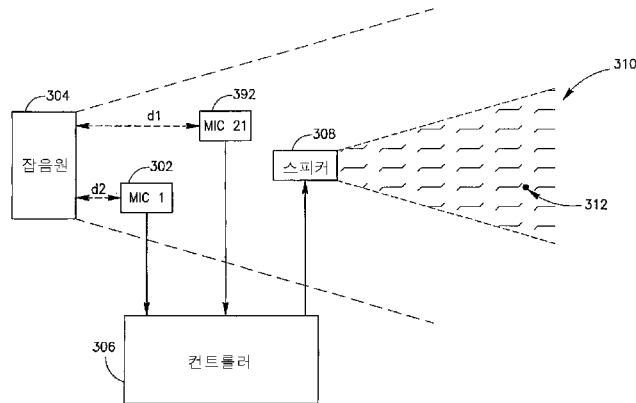
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(54) 발명의 명칭 능동형 잡음 제어 시스템 및 방법

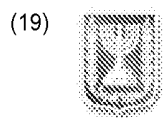
(57) 요약

본 발명의 실시예는 능동형 잡음 제어(ANC)를 위한 방법, 장치 및 시스템을 제공한다. 본 발명의 일례의 실시예에 따르면, 잡음원에 의해 생성된 잡음을 제어하기 위한 ANC 시스템은 잡음 패턴을 감지하여 감지된 잡음 패턴에 대응하는 잡음 신호를 생성하는 음향 센서와, 잡음 신호에 추정 함수를 적용함으로써 예측된 잡음 신호를 생성하는 추정기와, 예측된 잡음 신호에 기초하여 잡음 상쇄 패턴을 생성하는 음향 변환기를 포함한다. 본 발명의 또 다른 예의 실시예에 따르면, 잡음원에 의해 생성된 잡음을 제어하기 위한 ANC 시스템은 잡음 패턴을 감지하여 대응하는 1차 잡음 신호를 생성하는 1차 음향 센서와, 잔여 잡음 패턴을 감지하여 감지된 잔여 잡음 패턴에 대응하는 적어도 하나의 2차 잡음 신호를 생성하고, 1차 음향 센서와 잡음원 간의 거리보다 더 큰 거리만큼 잡음원으로 부터 떨어져 있는 적어도 하나의 2차 음향 센서와, 1차 잡음 신호와 적어도 하나의 2차 잡음 신호에 기초하여 잡음 상쇄 패턴을 생성하도록 음향 변환기를 제어하는 컨트롤러를 포함한다.

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(54) ACTIVE ACOUSTIC NOISE REDUCTION SYSTEM

(54) מערכת אקטיבית להפחתת רעש



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(54) **Title:** APPARATUS, SYSTEM AND METHOD OF CONTROLLING NOISE WITHIN A NOISE-CONTROLLED VOLUME

(57) **Abstract:** Some demonstrative embodiments include devices, systems and methods of noise control. For example, a noise control system may be configured to process one or more first noise inputs from one or more first acoustic sensors, the one or more first noise inputs representing external noise sensed at one or more respective noise sensing locations on an outer surface of a sheltering structure; to process one or more second noise inputs from one or more second acoustic sensors, the one or more second noise inputs representing residual noise at one or more respective residual noise sensing locations on an inner surface of the sheltering structure; to determine a noise control pattern based at least on the one or more first noise inputs and the one or more second noise inputs; and to generate one or more control signals to control acoustic signals generated by one or more acoustic transducers based on the noise control pattern.



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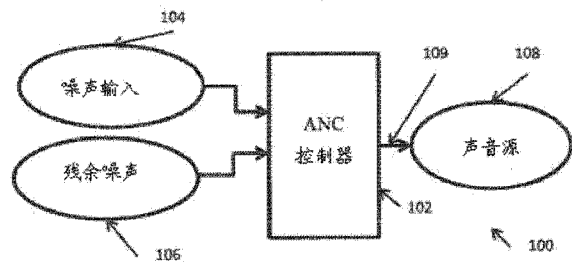
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噪声控制的装置、系统和方法

(57) 摘要

一些演示性实施方案包括噪声控制的装置、系统和方法。例如,一种装置可以包括控制预定义噪声控制区内的噪声的控制器,所述控制器用于:在多个预定义噪声感测位置处接收表示声音噪声的多个噪声输入,所述多个预定义噪声感测位置是相对于所述预定义噪声控制区来定义的;在多个预定义残余噪声感测位置处接收表示声音残余噪声的多个残余噪声输入,所述多个预定义残余噪声感测位置位于所述预定义噪声控制区内;基于所述多个噪声输入和所述多个残余噪声输入来确定噪声控制模式;以及将所述噪声控制模式输出到至少一个声音换能器。



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(54) **Title:** QUIET FAN INCORPORATING ACTIVE NOISE CONTROL (ANC)

(57) **Abstract:** An active noise control (ANC) system may be implemented to both sides of a fan, such that both directions of the noise emitting are treated to reduce the overall noise. The impact on airflow is minimal, and the technique is very effective in a broad range of low frequencies. Passive sound-absorbing materials may be included for attenuation of high frequencies. The resulting quiet fan produces a low level of noise compared to any other device based on fan, which produces the same capacity of airflow. The quiet fan may be incorporated in any mechanical system which requires airflow induction such as: computers, air conditioners, machines, and more.