

Title (en)
METHOD FOR THE ACTIVE REDUCTION OF SOUND DISTURBANCE

Title (de)
VERFAHREN ZUR AKTIVEN MINDERUNG VON STÖRGERÄUSCHEN

Title (fr)
PROCEDE DE REDUCTION ACTIVE D'UNE NUISANCE SONORE

Publication
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Application
EP 08775674 A 20080304

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Abstract (en)
[origin: WO2008125774A2] The invention relates to a method and a system for the active reduction, at a predetermined area, of the energy of a sound signal ($d_{\text{SUB}>k\text{/SUB}>(n)}$), also called a diffused noise signal, generated at said area by a primary signal ($x_{\text{SUB}>k\text{/SUB}>(n)}$), or noise signal, by the emission of a plurality of counter-noise signals ($y_{\text{SUB}>k\text{/SUB}>(n)}$) having an effect antagonistic to the diffused noise signal ($d_{\text{SUB}>k\text{/SUB}>(n)}$), each of said counter-noise signals ($y_{\text{SUB}>k\text{/SUB}>(n)}$) including a feedback counter-noise signal ($y_{\text{fbk}}_{\text{SUB}>k\text{/SUB}>(n)}$) and a feed-forward counter-noise signal ($y_{\text{fwd}}_{\text{SUB}>k\text{/SUB}>(n)}$). The method of the invention comprises detecting the periodical components of diffused noise signal ($d_{\text{SUB}>k\text{/SUB}>(n)}$) for adjusting the feedback counter-noise signal ($y_{\text{fbk}}_{\text{SUB}>k\text{/SUB}>(n)}$), and modelling the inverse of the secondary path for adjusting the feedback counter-noise ($y_{\text{fbk}}_{\text{SUB}>k\text{/SUB}>(n)}$) and feed-forward counter-noise ($y_{\text{fwd}}_{\text{SUB}>k\text{/SUB}>(n)}$) signals. The invention can be implemented to any type of industrial or non-industrial noise and in any location such as working places and relaxation places.

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G10K 11/178 (2006.01)

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