

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  
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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 ( $d_{k(n)}$ ), also called a diffused noise signal, generated at said area by a primary signal ( $x_{k(n)}$ ), or noise signal, by the emission of a plurality of counter-noise signals ( $y_{k(n)}$ ) having an effect antagonistic to the diffused noise signal ( $d_{k(n)}$ ), each of said counter-noise signals ( $y_{k(n)}$ ) including a feedback counter-noise signal ( $y_{fbk_{k(n)}}$ ) and a feed-forward counter-noise signal ( $y_{fwd_{k(n)}}$ ). The method of the invention comprises detecting the periodical components of diffused noise signal ( $d_{k(n)}$ ) for adjusting the feedback counter-noise signal ( $y_{fbk_{k(n)}}$ ), and modelling the inverse of the secondary path for adjusting the feedback counter-noise ( $y_{fbk_{k(n)}}$ ) and feed-forward counter-noise ( $y_{fwd_{k(n)}}$ ) 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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