

Title (en)
METHOD FOR REDUCING THE COMPREHENSIBILITY OF SPEECH SIGNALS, AND SEPARATING COMPONENT FOR INFLUENCING SOUND TRANSMISSION

Title (de)
VERFAHREN ZUR SENKUNG DER VERSTÄNDLICHKEIT VON SPRACHSIGNALEN UND TRENNBAUTEIL ZUR BEEINFLUSSUNG DER SCHALLÜBERTRAGUNG

Title (fr)
PROCÉDÉ SERVANT À ABAISSER L'INTELLIGIBILITÉ DE SIGNAUX VOCAUX ET COMPOSANT DE SÉPARATION SERVANT À INFLUENCER LA TRANSMISSION DE SONS

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Abstract (en)
[origin: WO2016020511A2] The invention relates to a method for reducing the comprehensibility of a speech signal, involving the following steps: a) detecting the amplitude, variation over time, and frequency of the speech signal (8); b) generating a masking sound (9) which is dependent on the amplitude, variation over time, and frequency of the speech signal (8) in such a way that an incomprehensible superimposed sound (12) is created by superimposing the masking sound (9) on the speech signal (8), said superimposed sound (12) not being significantly louder than the speech signal, the masking sound (9) being generated in a randomly changing manner, and the speech signal (8) being split into intervals, characterized in that the length of the intervals is randomly modified according to a randomization function. The invention also relates to a separating component for separating a room (2) from a room environment (3) using sensors (4), actuators (5) and a signal processing unit (6) in order to influence sound transmission, characterized in that the separating component (1) includes the following parts: sensors (4) for detecting the speech signals (8) from the room (2); actuators (5) for generating a masking sound that is dependent on the amplitude, variation over time, and frequency of the speech signal (8); the sensors (4) and the actuators (5) being located at a distance from one another so that the speech signal (8) has a certain propagation time until the masking sound (9) is superimposed thereupon in order to take into account propagation times of the speech signal (8) in the separating component (1).

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