

Title (en)

SYSTEM AND METHOD FOR EVALUATING THE QUALITY OF MULTI-CHANNEL AUDIOSIGNALS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR QUALITÄTSBEURTEILUNG VON MEHRKANALIGEN AUDIOSIGNALEN

Title (fr)

PROCEDE ET DISPOSITIF POUR EVALUER LA QUALITE DE SIGNAUX AUDIO A CANAUX MULTIPLES

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Application

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Abstract (en)

[origin: WO0044196A2] The invention relates to a system for evaluating the quality of an audio test signal derived from an audio reference signal by coding and decoding. The audio test signal and the audio reference signal each present a plurality of channels. The system comprises a device (19) for converting the audio reference signal into a first audio reference sum signal at a first reference point (17) and into a second audio reference sum signal at a second reference point (10) and for converting the audio test signal into a first audio test sum signal at the first reference point (17) and into a second audio test sum signal at the second reference point (18). The audio reference sum signals and the audio test sum signals at the first and second reference points (17, 18) consist of an overlay of the corresponding channels which can be emitted by most loudspeakers (11-15) and are weighted by a transmission function (UF11 - UF52) between each loudspeaker and its corresponding reference point. The invention also relates to a device (20) for evaluating the quality of the audio test sum signals by taking into consideration the audio reference sum signals so as to indicate the quality of the audio test signal. The system provided for by the invention makes it possible to take into consideration actual spaces and any number of channels of the audio test signal in an evaluation of the quality of a hearing-adapted coding/decoding method.

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