Title (en)

SYSTEM AND METHOD FOR HEADPHONE EQUALIZATION AND SPACE ADAPTATION FOR BINAURAL REPRODUCTION IN AUGMENTED REALITY

Title (de)

SYSTEM UND VERFAHREN ZUR KOPFHÖRERENTZERRUNG UND RAUMANPASSUNG ZUR BINAURALEN WIEDERGABE BEI AUGMENTED REALITY

Title (fr)

SYSTÈME ET PROCÉDÉ D'ÉGALISATION DE CASQUE D'ÉCOUTE ET D'ADAPTATION SPATIALE POUR LA REPRÉSENTATION BINAURALE EN RÉALITÉ AUGMENTÉE

Abstract (en)

[origin: WO2022023417A2] A system is provided. The system comprises an analyzer (152) for determining a plurality of binaural room impulse responses and a loudspeaker signal generator (154) for generating at least two loudspeaker signals according to the plurality of binaural room impulse responses and according to the audio source signal of at least one audio source. The analyzer (152) is designed to determine the plurality of the binaural room impulse responses such that each of the plurality of binaural room impulse responses takes into consideration an effect which results from the wearing of headphones by a user.

Abstract (de)

Ein System wird bereitgestellt. Das System umfasst einen Analysator (152) zur Bestimmung einer Mehrzahl von binauralen Raumimpulsantworten und einen Lautsprechersignal-Erzeuger (154) zur Erzeugung von wenigstens zwei Lautsprechersignalen abhängig von der Mehrzahl der binauralen Raumimpulsantworten und abhängig von dem Audioquellsignal von wenigstens einer Audioquelle. Der Analysator (152) ist ausgebildet, die Mehrzahl der binauralen Raumimpulsantworten so zu bestimmen, dass jede der Mehrzahl der binauralen Raumimpulsantworten einen Effekt berücksichtigt, der aus dem Tragen eines Kopfhörers durch einen Nutzer resultiert.

IPC 8 full level

H04R 5/04 (2006.01); **H04S 7/00** (2006.01); G10L 25/30 (2013.01); G10L 25/51 (2013.01); H04R 1/10 (2006.01); H04R 5/027 (2006.01); H04R 5/033 (2006.01); H04R 25/00 (2006.01)

CPC (source: EP US)

H04S 3/008 (2013.01 - US); **H04S 7/306** (2013.01 - EP US); H04R 1/1083 (2013.01 - EP); H04R 5/027 (2013.01 - EP); H04R 5/033 (2013.01 - EP); H04R 5/04 (2013.01 - EP); H04R 25/507 (2013.01 - EP); H04R 2225/41 (2013.01 - EP); H04R 2225/43 (2013.01 - EP); H04R 2460/01 (2013.01 - EP); H04S 7/301 (2013.01 - EP); H04S 7/304 (2013.01 - EP); H04S 2400/01 (2013.01 - US); H04S 2400/11 (2013.01 - EP); H04S 2400/15 (2013.01 - EP); H04S 2420/01 (2013.01 - EP US)

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