

Title (en)

APPARATUS AND METHOD OF PROCESSING MULTI-CHANNEL AUDIO INPUT SIGNALS TO PRODUCE AT LEAST TWO CHANNEL OUTPUT SIGNALS THEREFROM, AND COMPUTER READABLE MEDIUM CONTAINING EXECUTABLE CODE TO PERFORM THE METHOD

Title (de)

VORRICHTUNG UND VERFAHREN ZUR VERARBEITUNG VON MEHRKANAL-AUDIOEINGANGSSIGNALEN ZUR ERZEUGUNG VON MINDESTENS ZWEI KANALAUSGANGSSIGNALEN DARAUS SOWIE COMPUTERLESBARES MEDIUM MIT AUSFÜHRBAREM CODE ZUR DURCHFÜHRUNG DIESES VERFAHRENS

Title (fr)

APPAREIL ET PROCEDE DE TRAITEMENT DE SIGNAUX D'ENTREE AUDIO MULTICANAUX POUR PRODUIRE A PARTIR DE CEUX-CI AU MOINS DEUX SIGNAUX DE SORTIE DE CANAUX, ET SUPPORT LISIBLE PAR ORDINATEUR CONTENANT DU CODE EXECUTABLE PERMETTANT LA MISE EN OEUVRE DUDIT PROCEDE

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Application

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Abstract (en)

[origin: WO2006057521A1] An apparatus to process m-channel audio input signals to produce n channel output signals, and n is less than m. This apparatus includes a first filter unit to reduce a correlation between at least two channel audio input signals among the m-channel audio input signals, a virtual sound source generation unit to transform the at least two channel audio input signals output from the first filter unit into virtual sound sources at predetermined positions around a listener position, and an output controller to control channel audio input signals other than the at least two channel audio input signals among the m-channel audio input signals based on gains and delays of the at least two channel audio input signal output from the virtual sound source generation unit. Even when the m-channel audio input signals are reproduced through 2 channels, a surround effect provided by an m-channel speaker system can be obtained. In addition, a localization of a sound is improved, and a presence is formed. Thus, an enhanced surround sound is provided to a listener.

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- [IY] EP 0977464 A2 20000202 - ONKYO KK [JP]
- [Y] US 5657391 A 19970812 - JYOSAKO KATSUNORI [JP]
- [A] EP 1365629 A1 20031126 - SANYO ELECTRIC CO [JP]
- See references of WO 2006057521A1

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