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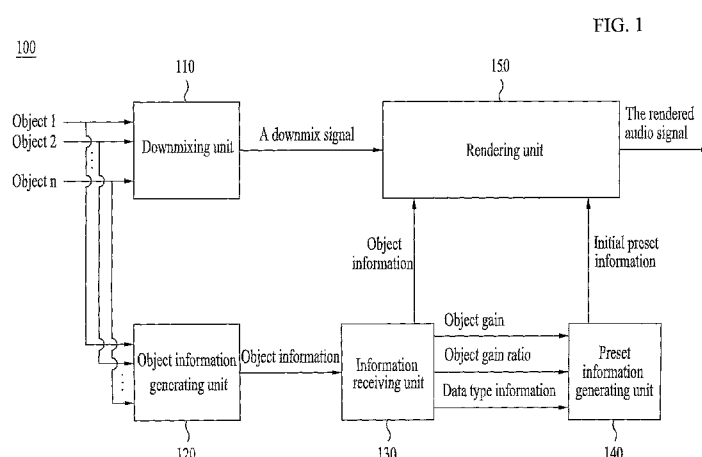
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(54) Title: A METHOD AND AN APPARATUS FOR PROCESSING AN AUDIO SIGNAL



(57) Abstract: An apparatus for processing an audio signal and method thereof are disclosed. The preset invention includes receiving object information and a downmix signal including at least one object, the object information comprising data type information and at least one of object gain and object gain ratio; determining whether preset information to render the object is included in the extension region of the object information, based on the data type information; generating initial preset information to render the object by using at least one of the object gain and the object gain ratio, if the preset information is not included in the object information; and rendering the object being included the downmix signal by using the initial preset information. Accordingly, even if preset information is not received, it is able to reconstruct an audio signal by generating initial preset information using received object information.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2009/002131**A. CLASSIFICATION OF SUBJECT MATTER****G10L 19/00(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G10L 19/00; G06F 17/00; H03G 5/00; H04B 3/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models since 1975.

Japanese utility models and applications for utility models since 1975.

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: audio, downmix, object, rendering, preset, metadata

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO2008039042 A1 (LG ELECTRONICS INC. et al.) 03 April 2008 See abstract, Figs 1-2	1-15
A	WO2006091540 A2 (VERAX TECHNOLOGIES INC. et al.) 31 August 2006 See abstract, Figs. 4, 14A,B, claim 9	1-15
A	US20060122717 A1 (WILSON et al.) 08 June 2006 See abstract, Fig.1, claims 1,2	1-15
A	US06704421 B1 (KITAMURA; JOHN S.) 09 March 2004 See abstract, Fig.1	1-15



Further documents are listed in the continuation of Box C.



See patent family annex.

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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