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(71) Applicant *(for all designated States except US)*: **LG ELECTRONICS INC.** [KR/KR]; 20, Yeouido-dong, Youngdeungpo-gu, Seoul 150-721 (KR).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **OH, Hyen O** [KR/KR]; LG Electronics Inc. IP Group, 16 Woomyeon-Dong, Seocho-gu, Seoul 137-724 (KR). **JUNG, Yang Won** [KR/KR]; LG Electronics Inc. IP Group, 16 Woomyeon-Dong, Seocho-gu, Seoul 137-724 (KR).

(74) Agents: **KIM, Yong In** et al.; KBK & Associates, 7th Floor, Hyundae Building, 175-9, Jamsil-dong, Songpa-gu, Seoul 138-861 (KR).

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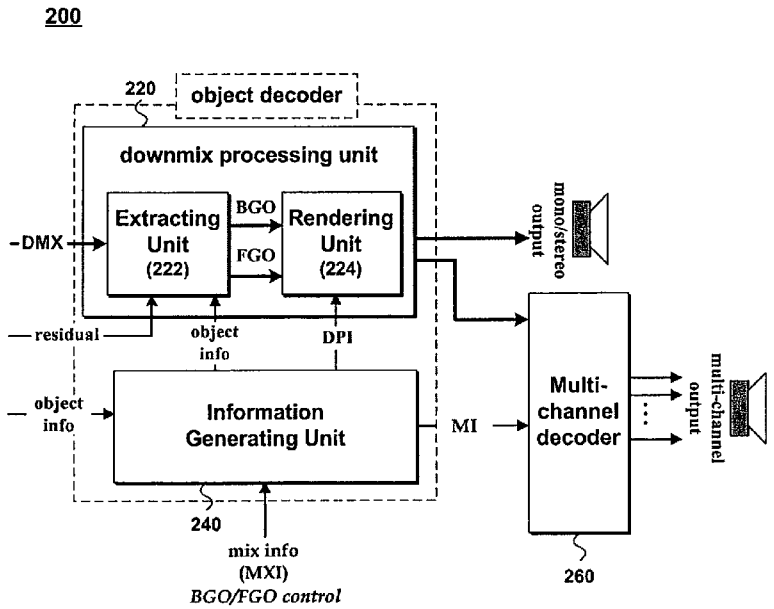
— *with international search report (Art. 21(3))*

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[Continued on next page]

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

FIG. 3



(57) **Abstract**: A method of processing an audio signal, comprising: receiving a downmix signal, a residual signal and object information; extracting at least one of a background-object signal and a foreground-object signal from the downmix signal using the residual signal; receiving mix information comprising gain control information for the background-object signal; generating a downmix processing information based on the object information and the mix information; and, generating a processed downmix signal comprising a modified background-object signal to which an adjusted gain corresponding to the gain control information is applied, by applying the downmix processing information to the at least one of the background-object signal and the foreground-object signal is disclosed.

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A. CLASSIFICATION OF SUBJECT MATTER

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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)

IPC : G10L 19/14; G10L 19/00; H04B 1/00

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

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: background, object, downmix

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	ENGDEGARD, JONAS. et al. "Spatial Audio Object Coding (SAOC) - The Upcoming MPEG Standard on Parametric Object Based Audio Coding" Audio Engineering Society 124th Convention, 17 May 2008 See pages 2 and 9-10.	1-11
Y	US 2008-0205670 A1 (OH, HYEN-O et al.) 28 August 2008 See paragraphs [0058]-[0060], [0063]-[0067], [0072]-[0074], [0105]-[0109], [0167]-[0168]; claims 4 and 13.	1-11
A	WO 2008-063035 A1 (LG ELECTRONICS INC. et al.) 29 May 2008 See paragraphs [73]-[80].	1-11

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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JANG Ho Keun

Telephone No. 82-42-481-8187

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