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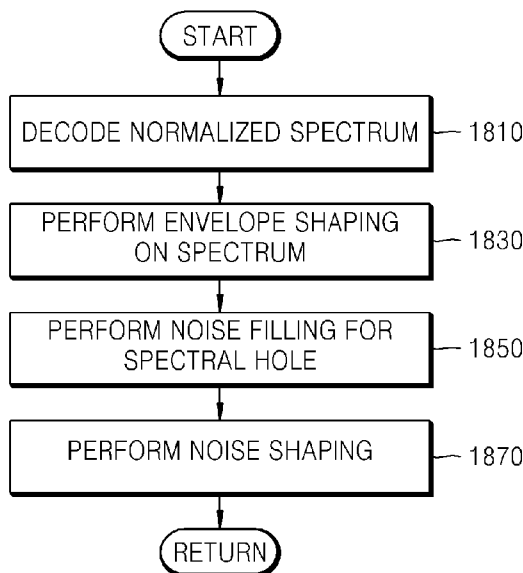
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[Continued on next page]

(54) Title: NOISE FILLING AND AUDIO DECODING

[Fig. 18]



(57) Abstract: A noise filling method is provided that includes detecting a frequency band including a part encoded to 0 from a spectrum obtained by decoding a bitstream; generating a noise component for the detected frequency band; and adjusting energy of the frequency band in which the noise component is generated and filled by using energy of the noise component and energy of the frequency band including the part encoded to 0.

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TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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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)

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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: noise filling, energy, frequency band, and spectral hole

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2010-0241437 A1 (TALEB, A. et al.) 23 September 2010 See Abstract; Paragraphs [0001]-[0081]; Claims 1-22; Figures 1-12.	1-26
A	US 2003-0233234 A1 (TRUMAN, M. M. et al.) 18 December 2003 See Abstract; Paragraphs [0001]-[0101]; Claims 1-45; Figures 1-17.	1-26
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A	US 2010-0114585 A1 (YOON, S. Y. et al.) 06 May 2010 See Abstract; Paragraphs [0003]-[0131]; Claims 1-13; Figures 1-15.	1-26

 Further documents are listed in the continuation of Box C. See patent family annex.

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