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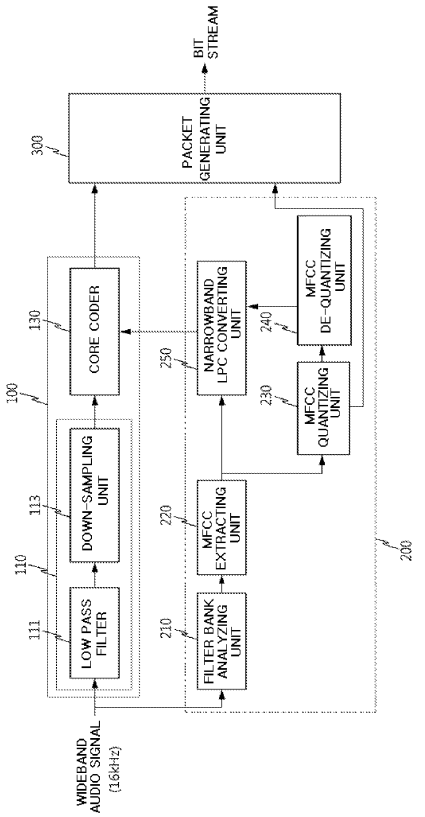
## (54) Wideband audio signal coding/decoding device and method

(57) Disclosed is a wideband audio signal coding/decoding device and method that may code a wideband audio signal while maintaining a low bit rate.

The wideband audio signal coding device includes an enhancement layer (200) that extracts a first spectrum parameter from an inputted wideband signal having a first bandwidth, quantizes the extracted first spectrum parameter, and converts the extracted first spectrum parameter into a second spectrum parameter; and a coding unit (130) that extracts a narrowband signal from the inputted wideband signal and codes the narrowband signal based on the second spectrum parameter provided from the enhancement layer, wherein the narrowband signal has a second bandwidth smaller than the first bandwidth.

The wideband audio signal coding/decoding device and method may code a wideband audio signal while maintaining a low bit rate.

[FIG. 3]

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# EUROPEAN SEARCH REPORT

Application Number
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## DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (IPC) |
|---|---|---|---|
| X | YOUNG HAN LEE ET AL: "Bandwidth Extension of a Narrowband Speech Coder for Music Delivery over IP", 9 November 2006 (2006-11-09), ADVANCES IN HYBRID INFORMATION TECHNOLOGY; [LECTURE NOTES IN COMPUTER SCIENCE], SPRINGER BERLIN HEIDELBERG, BERLIN, HEIDELBERG, PAGE(S) 198 - 208, XP019085866, ISBN: 978-3-540-77367-2 * figures 2, 4-7; table 1 * * page 200, line 5 - page 201, line 13 * * page 203, line 9 - page 203, line 19 * * page 204, line 1 - page 205, line 20 * ----- | 1-16 | INV. G10L21/02 G10L19/24 |
| X | YOUNG HAN LEE ET AL: "Bandwidth Extension of a Narrowband Speech Coder for Music Streaming Services Over IP Networks", SIGNAL PROCESSING SYSTEMS, 2007 IEEE WORKSHOP ON, IEEE, PI, 1 October 2007 (2007-10-01), pages 552-555, XP031164023, ISBN: 978-1-4244-1221-1 * figures 2-6; table 1 * ----- | 1-16 | TECHNICAL FIELDS SEARCHED (IPC) G10L |

The present search report has been drawn up for all claims

| Place of search | Date of completion of the search | Examiner |
|---|---|---|
| The Hague | 3 June 2013 | Taddei, Hervé |

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