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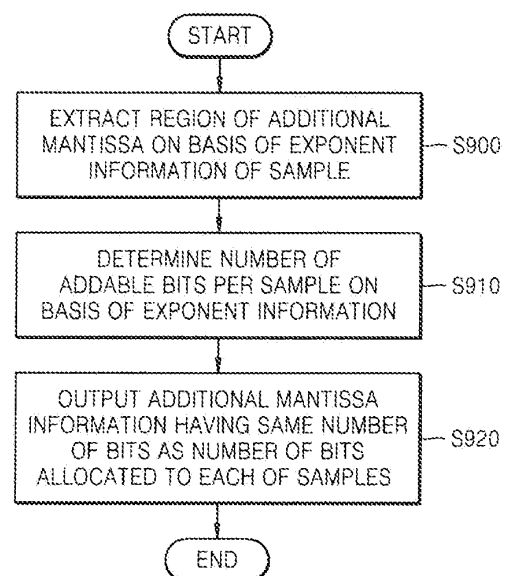
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(54) **Apparatus and method for encoding and decoding enhancement layer**

(57) Provided is a method and apparatus for encoding and decoding an enhancement layer to reduce quantization error in a G.71 codec. Exponent indices of additional mantissa information of each samples are calculated based upon exponent information of each samples in a frame. A process of allocating 1 bit to each sample with a current exponent index is repeated, the exponent index starting from the maximum value while decreasing by 1 at every repetition until the total number of bits allocated to the samples is equal to the total number of available bits in the frame. And the most significant bits, as many as the number of bits allocated to each sample, are extracted from the additional mantissa information of each samples in the frame.

FIG. 9



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EUROPEAN SEARCH REPORT

Application Number
EP 10 15 3693

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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A	HIWASAKI Y ET AL: "A G.711 EMBEDDED WIDEBAND SPEECH CODING FOR VOIP CONFERENCES", IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS, INFORMATION & SYSTEMS SOCIETY, TOKYO, JP, vol. E89D, no. 9, 1 September 2006 (2006-09-01), pages 2542-2552, XP001542710, ISSN: 0916-8532 * p. 2544, section 2.3, "Lower-Band Enhancement Subcodec" *	1-8	TECHNICAL FIELDS SEARCHED (IPC) G10L
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 13 December 2011	Examiner Chétry, Nicolas
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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