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23.03.94 Bulletin 94/12(71) Applicant: **NEC CORPORATION**

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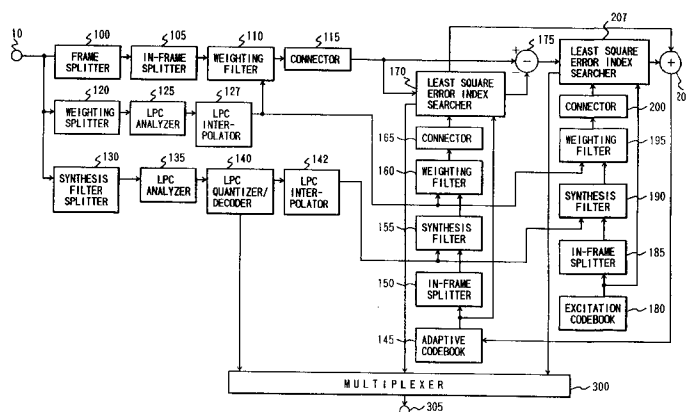
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(54) **Speech coding system.**

(57) An input speech signal is splitted into a time section and the splitted signal is generated as a speech vector and LPC coefficient sets are developed by linear prediction analysis for every time section of the speech vector. The speech vector is weighted based on the developed LPC coefficient sets, then a plurality of the weighted speech vectors are connected and the connected speech vector having a predetermined frame length is generated. An excitation codevector whose weighted synthesized signal is the most similar to the weighted speech vector is determined among from a plurality

of excitation vectors each having the frame length which are previously stored as a sound source. A plurality of adaptive codevectors each having the frame length and obtained by cutting out a sound source signal produced from the determined excitation vectors at predetermined timing points are stored in an adaptive codebook (145). An adaptive codevector whose weighted synthesized signal is the most similar to the weighted speech vector is determined among from the plurality of adaptive codevectors.

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EUROPEAN SEARCH REPORT

Application Number
EP 93 10 2794

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
X Y	EP-A-0 342 687 (NEC) * page 5, line 37 - page 6, line 10; figure 2B * ---	1-3,5-7 4	G10L9/14
Y	US-A-4 975 956 (LIU ET AL.) * column 3, line 24 - column 4, line 30; figures 1A,1B * ---	4	
X	EP-A-0 443 548 (NEC) * page 7, line 16 - page 8, line 13; figure 1 * ---	1-3,5-7	
D,A	INTERNATIONAL CONFERENCE N ACOUSTICS, SPEECH, AND SIGNAL PROCESSING 85 vol. 3 , 26 March 1985 pages 937 - 940 SCHROEDER ET AL 'Code-excited linear prediction (CELP): high-quality speech at very low bit rates' -----	1,4-6	
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
			G10L
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 24 January 1994	Examiner Lange, J
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			