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EUROPEAN PATENT APPLICATION

21 Application number: 89302481.0

51 Int. Cl.4: **G 10 L 9/14**

22 Date of filing: 14.03.89

30 Priority: 16.03.88 GB 8806185

43 Date of publication of application:
20.09.89 Bulletin 89/38

84 Designated Contracting States:
AT BE CH DE ES FR GB GR IT LI LU NL SE

88 Date of deferred publication of search report:
07.02.90 Bulletin 90/06

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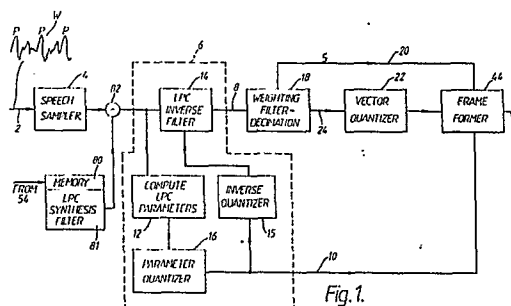
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54 **Speech coding.**

57 Speech for transmission over a low bit rate channel of a telecommunications link is digitally sampled and subjected to linear predictive coding in a coder (6). The LPC residual signal is passed through a weighting filter (18) and the output down sampled by decimation factor d resulting in d sequences of which the maximum energy sequence is selected for vector quantization. The data output from the vector quantizer (22) is formed into an output frame together with an index (s) identifying the selected decimation sequence and the quantized LPC parameters. The frame transmitted over the telecommunications link (46) is decoded by means of an inverse vector quantizer (50) which restores the decimated sequence. An interpolator (52) interpolates zeros to restore an excitation signal for an LPC synthesis filter (54) from which the voice signal can be reconstructed.





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.4)
A	ELECTRONICS LETTERS, vol. 23, no. 24, 19th November 1987, pages 1286-1288, Hitchin, GB; A. KONDOZ et al.: "Vector-quantised transform coder for speech coding at 9.6kbit/s and below" * Figure 1 *	1,4,6-8,11	G 10 L 9/10
A	PROCEEDINGS ICASSP 87, INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, Dallas, Texas, 6th-9th April 1987, vol. 3, pages 1637-1640, IEEE, New York, US; R.C. ROSE et al.: "Quality comparison of low complexity 4800 bps self excited and code excited vocoders" * Page 1637, left-hand column, lines 27-31 *	5	
A	EP-A-0 125 423 (TEXAS INSTRUMENTS INC.) * Abstract *	2	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			G 10 L 9/10
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30-10-1989	Examiner ARMSPACH J. F. A. M.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p> <p>..... & : member of the same patent family, corresponding document</p>			