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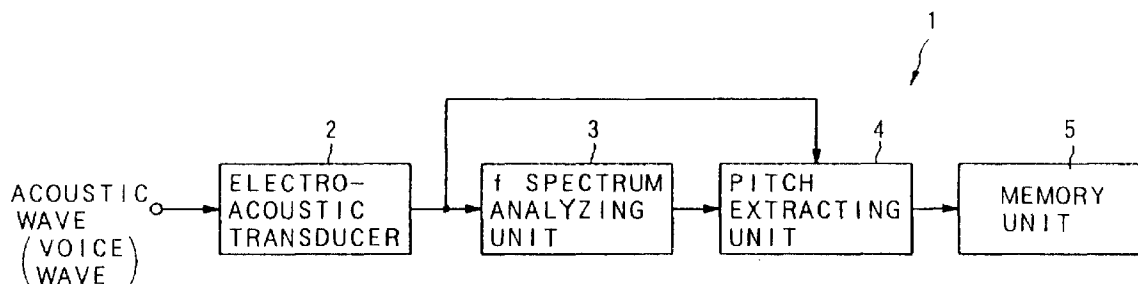
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(54) **Pitch detection apparatus and method for acoustic waveform**

(57) An acoustic waveform is inputted to a pitch detection apparatus (1) for detecting a pitch of a fundamental wave of the acoustic waveform. The pitch detection apparatus (1) is provided with: an orthogonal function component output device (3) for taking, out of orthogonal function components for every cycle which compose the acoustic waveform, a plurality of orthogonal function components one after another in an order

from one orthogonal function component having a greater energy contribution for the acoustic waveform than other orthogonal function components, and outputting the taken out orthogonal function components; and a pitch extract device (4) for extracting as a pitch one of the outputted orthogonal function components, on the basis of a mutual relationship between cycles of the outputted orthogonal function components.

FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			G01H G10G
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 6 November 1997	Examiner Haasbroek, 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			

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