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(54) **Audio signal reproducing apparatus.**

(57) In an audio signal processing apparatus information on the transfer characteristics from virtual sound sources to both ears of a listener for each given rotational angle depending upon the movement of the head M of the listener is stored in storing means 62. The rotational angular position of the head of the listener is detected by detecting means 45L, 45R and 53 at a solution higher than that of the information of the transfer characteristics stored in said storing means. The information on at least two transfer characteristics in the vicinity of the rotational angular position represented by the detection out-

puts from detecting means is read from the storing means. The information on the transfer characteristics in the rotational angular position of the head represented by the detection output is interpolation operated by interpolation operating means 61. Based upon the information on the transfer characteristics determined by the interpolation operation means, left and right channel audio signals are processed by audio signal processing means 63 for achieving a proper binaural reproduction relative to the virtual sound sources.

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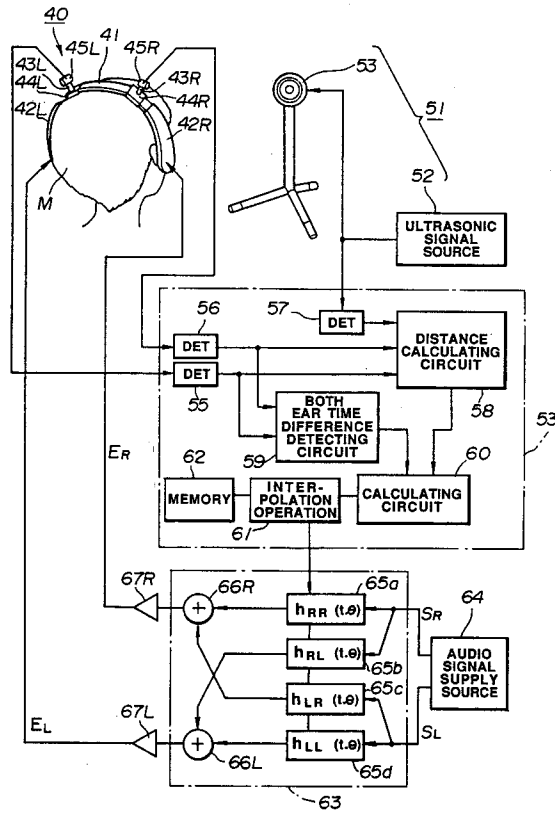


FIG. 6



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EUROPEAN SEARCH REPORT

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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 (Int.Cl.5)
A	PATENT ABSTRACTS OF JAPAN vol. 7 no. 226 (E-202) ,7 October 1983 & JP-A-58 116900 (SONY KK) 12 July 1983, * abstract *	1,2,4,5	H04S1/00 H04R5/033
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A	--- WO-A-89 03632 (COOPER ET AL.) * page 9, line 28 - page 11, line 32; figures 1A, 1B *	3	
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
			H04S H04R
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 13 June 1995	Examiner Lambley, S
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			
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