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(54) **Delay coefficient calculator.**

(57) Apparatus for calculating the delay coefficients to be used for the transducer of a linear array at successive focal points along each radial line of a sector along which ultrasonic pulses are transmitted comprising a plurality of clocked accumulators connected in series (AC3, AC2, AC1) said accumulators being preloaded with appropriate combination of the coefficients of the successive terms of a series expressing an approximation of the formula, $D = R - \sqrt{(X - X_0)^2 + Y_0^2}$ where R is the distance of a focal point from a given point in the sector, X is the number of the accumulator from the origin and X_0 , Y_0 are the coordinates of the focal point.

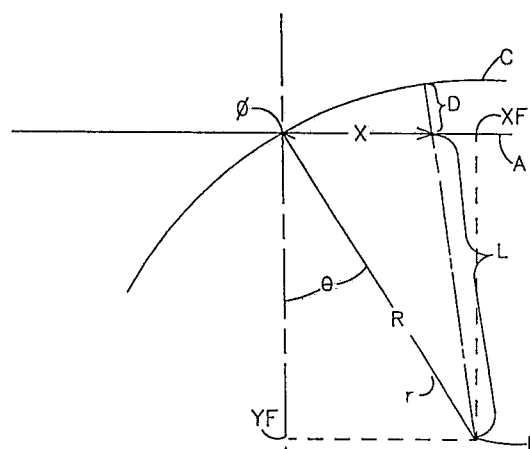


FIG 1



EP 88 31 0140

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	ACTA ELECTRONICA, vol. 22, no. 2, 1979, pages 119-127; M. AUPHAN: "Les transducteurs à réseau annulaire focalisant en poursuite d'échos" * Page 121, column 1, line 46 - page 123, column 1, line 19 *	1	G 10 K 11/34
A	GB-A-2 011 075 (GENERAL ELECTRIC CO.) * Page 4, lines 35-47; figure 4 *	1	
A	FR-A-2 394 803 (MEDICOTEKNISK INSTITUT) * Claim 1 *	1	
A,D	US-A-4 140 022 (MASLAK)		
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			G 10 K G 01 S
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11-07-1989	Examiner ANDERSON A. TH.
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			