

Title (en)  
DELAY COEFFICIENT CALCULATOR

Publication  
**EP 0314487 B1 19931013 (EN)**

Application  
**EP 88310140 A 19881028**

Priority  
US 11481587 A 19871029

Abstract (en)  
[origin: EP0314487A2] 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,  $D = R - 2\sqrt{(X-X_0)^2 + Y_0^2}$  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.

IPC 1-7  
**G10K 11/34**

IPC 8 full level  
**A61B 8/14** (2006.01); **G01N 29/04** (2006.01); **G01N 29/44** (2006.01); **G01S 7/523** (2006.01); **G10K 11/34** (2006.01)

CPC (source: EP)  
**G10K 11/346** (2013.01)

Cited by  
EP0782126A3; US5669384A; ES2277473A1; WO9624288A1; WO2005073957A1

Designated contracting state (EPC)  
DE FR GB

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**EP 0314487 A2 19890503; EP 0314487 A3 19891011; EP 0314487 B1 19931013**; DE 3884905 D1 19931118; DE 3884905 T2 19940505; JP 2654130 B2 19970917; JP H01193679 A 19890803

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**EP 88310140 A 19881028**; DE 3884905 T 19881028; JP 27433988 A 19881028