

Title (en)

Device for ultrasonic echography to scan sectorially

Title (de)

Vorrichtung für Ultraschall-Echographie zur Sektorabtastung

Title (fr)

Dispositif d'échographie ultrasonore à balayage sectoriel

Publication

EP 0069677 B2 19951213 (FR)

Application

EP 82401291 A 19820708

Priority

FR 8113445 A 19810708

Abstract (en)

[origin: US4516583A] The device, particularly useful for B echographic examination of an organ or of an internal anatomical structure, comprises a line array of N identical transducer elements ($12i, \dots, 12N$) distributed at equal intervals and operating at a predetermined frequency f, means for storing at least one distribution of delays of n successive transducers (n being less than N) corresponding to focussing at a predetermined distance from the line for frequency f, switch means enabling a group of n transducers to be connected temporarily to signal emitting or receiving means with delays corresponding to the distribution and the group of n transducers to be shifted so as to effect scanning. The transducers are arranged along a circular line with the convex side turned toward said medium so as to cause sector scanning around the axis of the circular line on operation of switch commutator means and the time delays are arranged to ensure focussing along the radius corresponding to the middle transducer of the group.

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