Title (en)
METHOD FOR SCANNING AND ANALYSING A THREE-DIMENSIONAL STRUCTURE

Title (de)
VERFAHREN FÜR DIE UNTERSUCHUNG UND ANALYSE EINER RÄUMLICHEN STRUKTUR

Title (fr)
PROCEDE POUR L'EXPLORATION ET L'ANALYSE D'UNE STRUCTURE VOLUMIQUE

Publication
EP 1629303 A1 20060301 (FR)

Application
EP 04732683 A 20040513

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Abstract (en)
[origin: US2007197912A1] Method for scanning and analysing a three-dimensional structure by suitably processing signals representing waves, particularly ultrasonic waves reflected or transmitted by said three-dimensional structure, which processing involves restoring or analysing the three-dimensional structure on the basis of data read out of a field memory. The method comprises calculating, for each structural point, the field memory positions containing the signals detected by the detection elements, corresponding to the waves reflected or transmitted by said point, and data in the field memory is read out by a decoding curve. The method includes detecting the sign of the detected signals, detecting a useful zone of said decoding curve in which the signals at the same sign, and calculating the position and the point being analysed on the basis of an integration of the amplitude of the signals detected in the useful zone of the decoding curve.

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