

Title (en)
ACCURATE INTERACTIVE ACOUSTIC PLATE

Title (de)
INTERAKTIVE AKUSTISCHE BERÜHRUNGSEMPFINDLICHE PRÄZISIONSPLATTE

Title (fr)
PLAQUE ACOUSTIQUE INTERACTIVE DE PRECISION

Publication
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Application
EP 01949585 A 20010629

Priority
• FR 0102088 W 20010629
• FR 0008372 A 20000629

Abstract (en)
[origin: WO0201490A1] The invention concerns a device for acquiring the position co-ordinates of a source of mechanical waves optionally generated by impacting the surface of a plate (PLQ) of finite dimensions comprising a set of acoustic sensors (PZT00 to PZT11) each formed by a pair of piezoelectric transducers (PZTa, PZTb) facing each other on either side of the plate, the device including processing means for determining the co-ordinates of the source by analysing the difference in propagation time of the acoustic waves generated by the source to the different sensors. Said device is characterised in that the processing means comprise combined with each sensor (PZT00 to PZT 11) a respective electronic circuit including means mounted in cascade for digitizing the amplified signal around a predetermined frequency, associated with means for limiting the digitization to a time window starting before the acoustic waves reach a sensor and ending when the acoustic waves have reached said sensor.

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B32B 17/10036 (2013.01 - EP US); **B32B 17/10761** (2013.01 - EP US); **G06F 3/0433** (2013.01 - EP US)

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See references of WO 0201490A1

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