

Title (en)

METHOD FOR GENERATING MECHANICAL WAVES BY CREATING AN INTERFACIAL ACOUSTIC RADIATION FORCE

Title (de)

VERFAHREN ZUR ERZEUGUNG MECHANISCHER WELLEN DURCH HERSTELLUNG EINER AKUSTISCHEN GRENZFLÄCHEN-
STRAHLUNGSKRAFT

Title (fr)

PROCEDE DE GENERATION D'ONDES MECANIKES PAR GENERATION DE FORCE DE RADIATION ACOUSTIQUE INTERFACIALE

Publication

EP 2084702 A2 20090805 (FR)

Application

EP 07866491 A 20071025

Priority

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- US 88323307 P 20070103

Abstract (en)

[origin: FR2907692A1] The method involves generating an interfacial acoustic radiation force (15) within a viscoelastic medium (11) i.e. biological medium, by applying acoustic waves i.e. ultrasonic waves, focused on an interface (13) i.e. artificial membrane, delimiting the medium (11) and an artificial medium (14) that possess distinct acoustic properties. The medium is imaged by using an ultrasonic sensor (12), in a rapid manner. The generation of the force is combined with the imaging of the medium such that propagation of mechanical waves that are generated in the medium, is imaged. An independent claim is also included for an artificial membrane for serving as an interface during implementation of a method of generating a mechanical transverse wave.

IPC 8 full level

G10K 11/30 (2006.01)

CPC (source: EP US)

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Citation (search report)

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