

Title (en)

ULTRASOUND SYSTEM WITH IMPROVED COUPLING FLUID

Publication

EP 0359546 B1 19930811 (EN)

Application

EP 89309295 A 19890913

Priority

US 24612688 A 19880916

Abstract (en)

[origin: EP0359546A2] An ultrasound system (101), includes an electronics module (103) and a probe (105). The electronics module (103) controls delays in the transmission and reception between individual elements of the annular phased array transducer (131) to control focussing. The coupling fluid (127) provides for ultrasonic coupling between the transducer (131) and the probe window (123) and the subject while permitting the steering movement of the transducer (131). The coupling fluid (127) is a mixture of 1-Butanol in Glycerol. The attenuation of that mixture can be adjusted without impairing velocity matching by adding suitable amounts of 2-Hydroxyethyl ether.

IPC 1-7

G10K 11/00; G10K 11/02

IPC 8 full level

G01N 29/28 (2006.01); **A61B 8/00** (2006.01); **G01S 7/52** (2006.01); **G01S 7/527** (2006.01); **G01S 7/536** (2006.01); **G10K 11/02** (2006.01); **G10K 11/35** (2006.01)

CPC (source: EP)

G10K 11/02 (2013.01); **G10K 11/355** (2013.01)

Cited by

WO2013139849A1; EP0749722A3; EP0589082A1; US5400790A; US9078593B2; US9945816B2

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0359546 A2 19900321; EP 0359546 A3 19900502; EP 0359546 B1 19930811; DE 68908307 D1 19930916; DE 68908307 T2 19940317; JP H02116356 A 19900501

DOCDB simple family (application)

EP 89309295 A 19890913; DE 68908307 T 19890913; JP 23834189 A 19890913