

Title (en)

Ultrasound converter with acoustic impedance adjustment

Title (de)

Ultraschallwandler mit akustischer Impedananzpassung

Title (fr)

Transducteur à ultrasons doté d'une adaptation d'impédance acoustique

Publication

EP 1911530 B1 20090722 (DE)

Application

EP 07405233 A 20070813

Priority

CH 16072006 A 20061009

Abstract (en)

[origin: EP1911530A1] The transducer (1) has a matching layer (5) that is made of a cross linked polyurethane hard foam and is connected to a piezo-ceramic disc (3). The hard foam has a hollow ball made of glass or plastic and is filled with a light filler material. The matching layer has a density in a range of 400 to 900 kilogram per meter cube, and is stable up to a temperature of 120 degree Celsius. The matching layer or transducer is coated with a protected layer in an area of a sonic radiation surface (8).

IPC 8 full level

B06B 1/06 (2006.01); **G10K 9/122** (2006.01)

CPC (source: EP)

G10K 11/02 (2013.01)

Cited by

DE102010063050B4; US11842517B2; US11553295B2; US10531212B2; US11704983B2; US11098951B2; US11740018B2; US10497358B2; US10921890B2; US11531395B2; US11921928B2; US11374586B2; US11742870B2; US10444842B2; US11204644B2; US11656686B2; US11768540B2; US10101814B2; US10930123B2; US11378997B2; US11550432B2; US11886639B2; US10101811B2; US10685538B2; US11276281B2; US11550395B2; US11830351B2; US10943578B2; US11360546B2; US11715453B2; US11955109B2; US12002448B2; US10818162B2; US11727790B2; US11816267B2; US12100288B2; US10268275B2; US10496175B2; US10915177B2; US11169610B2; US11307664B2; US11714492B2; US12001610B2; DE102013110900A1; US10281567B2; US10755538B2; US10911861B2; DE102013110900B4; US11189140B2; US11529650B2; US11543507B2; US11624815B1; US11883847B2

Designated contracting state (EPC)

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