

Title (en)

ULTRASONIC TRANSDUCER WITH DRIVER, CONTROL, AND CLOCK SIGNAL DISTRIBUTION

Title (de)

ULTRASCHALLWANDLER MIT TREIBER, STEUERUNG UND TAKTSIGNALVERTEILUNG

Title (fr)

TRANSDUCTEUR ULTRASONORE DOTÉ D'UNE DISTRIBUTION DE SIGNAUX D'ATTAQUE, DE COMMANDE ET D'HORLOGE

Publication

EP 2974376 A4 20161214 (EN)

Application

EP 14764350 A 20140314

Priority

- US 201313832386 A 20130315
- US 201313832393 A 20130315
- US 201313834323 A 20130315
- US 201313837479 A 20130315
- US 2014028133 W 20140314

Abstract (en)

[origin: WO2014143942A2] An ultrasonic transducer having a membrane and a container having a base and at least one wall element. The ultrasonic transducer can include a driver side and a bias voltage side. A first controller can have a greater number of output lines than a second controller has input lines. The first controller can receive an ultrasonic transducer control signal and provide a first portion of the control signal to the first processor, where the length of the first portion is less than or equal to the number of input lines of the second processor. An array of the ultrasonic transducers can be controlled to produce a steerable beam. Beam steering can be skewed by buffer delays in the distribution of a clock signal.

IPC 8 full level

B06B 1/06 (2006.01); **H01L 29/84** (2006.01); **H04R 19/00** (2006.01)

CPC (source: EP)

B06B 1/0603 (2013.01); **H04R 3/12** (2013.01); **H04R 17/00** (2013.01); **H04R 1/403** (2013.01); **H04R 2201/003** (2013.01)

Citation (search report)

- [Y] US 2001035700 A1 20011101 - PERCIN GOKHAN [US], et al
- [Y] US 2003020376 A1 20030130 - SAKAGUCHI KENJI [JP], et al
- [XA] US 6445108 B1 20020903 - TAKESHIMA TETSUO [JP], et al
- [A] US 2007109064 A1 20070517 - MICKO ERIC S [CN]
- See references of WO 2014143942A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

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DOCDB simple family (application)

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