

Title (en)

Ultrasonic transducer with a drivable membrane and with a piezo-vibrator arranged on the membrane

Title (de)

Ultraschallwandler mit einer zur Schwingung anregbaren Membran und mit einem auf der Membranfläche angeordneten Piezoschwinger

Title (fr)

Transducteur à ultrasons avec une membrane entraînable et avec un vibreur piézoélectrique disposé sur cette membrane

Publication

**EP 1283516 A3 20080730 (DE)**

Application

**EP 02013779 A 20020621**

Priority

DE 10138892 A 20010808

Abstract (en)

[origin: EP1283516A2] An ultrasonic transducer (10) has an oscillating membrane comprising a thin longitudinal membrane surface (14) on which is located at least one piezo-oscillator (28). The membrane surface (14) has at least one 'nip' or 'pinch' (20,22) on its long sides.

IPC 8 full level

**G10K 9/122** (2006.01); **G10K 9/125** (2006.01)

CPC (source: EP)

**G10K 9/122** (2013.01); **G10K 9/125** (2013.01)

Citation (search report)

- [X] DE 3721209 A1 19890105 - VEGA GRIESHABER GMBH & CO [DE]
- [X] DE 19507650 A1 19960912 - VERPOORTEN GREGOR [DE]
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- [X] DE 19614885 C1 19970904 - BOSCH GMBH ROBERT [DE]

Cited by

EP2221802A1; US7982366B2; WO2005064589A1; WO2007113503A3

Designated contracting state (EPC)

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Designated extension state (EPC)

AL LT LV MK RO SI

DOCDB simple family (publication)

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