

Title (en)

Ultrasonic transducer using ultra high frequency.

Title (de)

Ultra-Hochfrequenz verwendender Ultraschallwandler.

Title (fr)

Transducteur ultrasonore utilisant une très haute fréquence.

Publication

**EP 0033751 A1 19810819 (EN)**

Application

**EP 80100662 A 19800208**

Priority

EP 80100662 A 19800208

Abstract (en)

An ultrasonic transducer comprises an acoustic wave propagation medium (150), a piezoelectric element (145) mounted on a surface of the propagation medium (150), and an ultrasonic lens (155) formed in the opposite surface of the propagation medium (150) and having a predetermined focal distance. The ultrasonic radiation generated from the piezoelectric element (145) is propagated through the propagation medium (150) and focused by the lens (155). The axial length of the propagation medium is selected to be  $1/N$  ( $N$ : odd number) of a Fresnel focal distance.

IPC 1-7

**G10K 11/30**

IPC 8 full level

**G10K 11/30** (2006.01)

CPC (source: EP)

**G10K 11/30** (2013.01)

Citation (search report)

- FR 2261527 A1 19750912 - AMERICAN OPTICAL CORP [US]
- US 3958559 A 19760525 - GLENN WILLIAM E, et al
- PROCEEDINGS OF THE IEEE, Vol. 67, No. 8, August 1979, pages 1092-1114 New York, U.S.A. C.F. QUATE et al.: "Acoustic Microscopy with Mechanical Scanning - A review" \* Page 1094, column 1, line 11 - column 2, line 5; page 1102, column 2, line 14 - page 1105, column 1, line 29 \*

Cited by

CN1111112037A; DE3718972A1; EP0272154A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0033751 A1 19810819; EP 0033751 B1 19830622**; DE 3063803 D1 19830728

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