

Title (en)

Ultrasonic array with trapezoidal vibration elements, and method and device for its manufacture.

Title (de)

Ultraschall-Array mit trapezförmigen Schwingerelementen sowie Verfahren und Vorrichtung zu seiner Herstellung.

Title (fr)

Transducteur ultrasonore à éléments de vibration trapézoïdaux, et procédé et dispositif pour leur fabrication.

Publication

**EP 0383972 B1 19931215 (DE)**

Application

**EP 89103112 A 19890222**

Priority

EP 89103112 A 19890222

Abstract (en)

[origin: EP0383972A1] The array (2) preferably comprises a number of adjacently located vibration elements (4) having a trapezoidal cross-section. Incisions (22) separate the individual vibration elements (4) from one another. They extend from the input coupling layer (24) via the first electrode (8), the piezoelectric material (6), the second electrode (10) into the damping body (20). The incisions (22) are preferably produced by means of an excimer laser (42), the laser light (44) of which is focused via a focusing device (46) in the form of a cylindrical lens in a line focus (54) onto the prepared layer material (40) to be cut. The layer material (40) contains piezoceramics as the piezoelectric material (6). <IMAGE>

IPC 1-7

**B06B 1/06**

IPC 8 full level

**A61B 8/00** (2006.01); **B06B 1/06** (2006.01); **G01N 29/24** (2006.01); **H04R 17/00** (2006.01)

CPC (source: EP US)

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