

Title (en)

ULTRASONIC TRANSDUCER WITH ASTIGMATIC TRANSMISSION-RECEPTION CHARACTERISTICS

Publication

EP 0308899 A3 19900314 (DE)

Application

EP 88115485 A 19880921

Priority

DE 3732410 A 19870925

Abstract (en)

[origin: EP0308899A2] Ultrasonic transducer (1) whose astigmatic transmission/reception characteristic is based on grooves or slots (3, 13) which are aligned in parallel in one direction (4) in the diaphragm (2). <IMAGE>

IPC 1-7

G10K 13/00; **G10K 11/32**

IPC 8 full level

H04R 17/00 (2006.01); **G10K 9/122** (2006.01); **G10K 11/32** (2006.01); **G10K 13/00** (2006.01)

CPC (source: EP)

G10K 9/122 (2013.01); **G10K 11/32** (2013.01); **G10K 13/00** (2013.01)

Citation (search report)

- [Y] EP 0037620 A1 19811014 - PHILIPS CORP [US]
- [YD] EP 0075302 A1 19830330 - GELHARD EGON
- [A] FR 2293844 A1 19760702 - BARCUS LESTER [US]
- [A] US 2716708 A 19550830 - GEOFFREY BRADFELD
- [A] PATENT ABSTRACTS OF JAPAN, Band 102, Nr. 90 (P-503), 2. Oktober 1982; & JP-A-59 230 224 (HITACHI LTD) 28-05-1986

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