

Title (en)
ULTRASOUND TRANSDUCER WITH IMPROVED VIBRATIONAL MODES

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Application
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Abstract (en)
[origin: EP0142215A2] The transducer of the present invention is diced into subelements which have a height-to-width ratio which determines the modality of their vibration. The subelements are then electrically connected to provide a transducer having the desired electrical configuration, i.e., an annular array transducer. Using the present invention, the electro-acoustic characteristics of the transducer are not determinative of the vibrational characteristics of the individual subelements.

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G10K 11/34; H01L 41/08

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CPC (source: EP)
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Citation (search report)

- [X] EP 0025092 A1 19810318 - SIEMENS AG [DE]
- [X] FR 2485858 A1 19811231 - COMMISSARIAT ENERGIE ATOMIQUE [FR]
- [XP] US 4434384 A 19840228 - DUNNROWICZ CLARENCE J [US], et al
- [E] FR 2544577 A1 19841019 - CENTRE NAT RECH SCIENT [FR]
- [A] EP 0006623 A2 19800109 - SIEMENS AG [DE]
- [A] US 4122725 A 19781031 - THOMPSON ROBERT B
- [XP] ACOUSTICAL IMAGING, Minneapolis, Minnesota, US, 26th-28th October 1983, pages 357-368, vol. 13; P. CHALLANDE et al.: "A new technique for realizing annular arrays or complex shaped transducers"

Cited by
EP0589396A3; EP0480045A4; JP2021023395A; US11338156B2; US10046181B2; WO8908508A1; WO03002272A1; US10795042B2; US10537304B2; US11123039B2; US11723622B2; US9694211B2; US9802063B2; US11724133B2; US11883688B2; US11944849B2; US9827449B2; US10010724B2; US10265550B2; US10610705B2; US10888718B2; US9895560B2; US10046182B2; US10328289B2; US10532230B2; US11400319B2; US11697033B2; US9694212B2; US9833640B2; US10010726B2; US10252086B2; US10610706B2; US11167155B2; US10420960B2; US11207548B2; US11224895B2; US11235179B2; US11517772B2; US9713731B2; US9833639B2; US10010721B2; US10238894B2; US10603519B2; US10888716B2; US11179580B2; US11241218B2; US9707412B2; US9827450B2; US9974982B2; US10010725B2; US10245450B2; US10525288B2; US10603523B2; US10603521B2; US10864385B2; US10888717B2; US10960236B2; US11207547B2; US11235180B2; US11351401B2; US11717707B2

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