

Title (en)  
ACOUSTIC TRANSDUCER SHAPED AS A PRESTRESSED RING

Title (de)  
VORGESPANNTEN RING AKUSTISCHER WANDLER

Title (fr)  
TRANSDUCTEUR ACOUSTIQUE EN ANNEAU PRECONTRAINTE

Publication  
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Application  
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Priority  
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Abstract (en)  
[origin: WO9620046A1] Acoustic ring-shaped transducers comprising a set of piezoelectric prestressed segments are described. According to the invention, said segments (101) are grouped to form a set of sectors (102) separated by clamping wedges (109). The set of sectors is placed in a forming ring (108) and the wedges are drawn towards the centre by screws (111) so as to urge the sectors against said forming ring and to prestress the segments. Stress gauges (107) are used to control and adjust the resulting stress to a required value while minimising dispersion between sectors. The invention is useful for producing low frequency, powerful, detachable acoustic transducers.

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