

Title (en)
Ultrasonic transducers

Title (de)
Ultraschallwandlern

Title (fr)
Transducteurs ultrasonores

Publication
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Application
EP 99305633 A 19990715

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Abstract (en)
Sonic transducers utilize resonant cavities of varying depths to achieve wide operational bandwidth. The transducers (29) may include a conductive membrane (38) spaced apart from one or more backplate electrodes (32a,32b). In one approach, spacing is achieved using a dielectric spacer (34) having a series of depressions (36) arranged in a pattern, the depressions forming cavities each resonant at a predetermined frequency. In another approach, the conductive membrane (62) is piezoelectrically active, and the transducer is simultaneously driven in both piezoelectric and electrostatic modes. <IMAGE>

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IPC 8 full level
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CPC (source: EP)
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Cited by
CN112073884A; EP2114085A1; CN105636711A; EP1247350A4; CN100411968C; EP1403212A3; EP3815794A4; EP2743919A3; US7319763B2; US8731226B2; WO2013158348A1; WO2009134127A1; WO2007029134A3; US8027488B2; US9036827B2; WO2007029134A2; US7391872B2; US8953821B2; WO2013188514A3; WO2014202248A1; US10182297B2; US10587960B2; US11076242B2; US11706571B2; US7657044B2; US6771785B2; US8369546B2; US8472651B2

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