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Abstract

A Highly-Directional Sound Projection System

5 An ultrasonic speaker includes a flexible piezoelectric film having electrodes for applying a voltage signal to the film. The film is fixed to a substrate 20 and maintained in corrugations 31 by fixing portions 21a, 21b at different positions in the thickness direction of the substrate. The power amplifier of the speaker is designed to have an electrical resonance, with a bandpass range controlled by a variable resistor 86.

[Fig. 2]