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(54) Title: ACTIVE PIEZOELECTRIC SHEET WITH PIEZOELECTRIC MICROSTRUCTURES

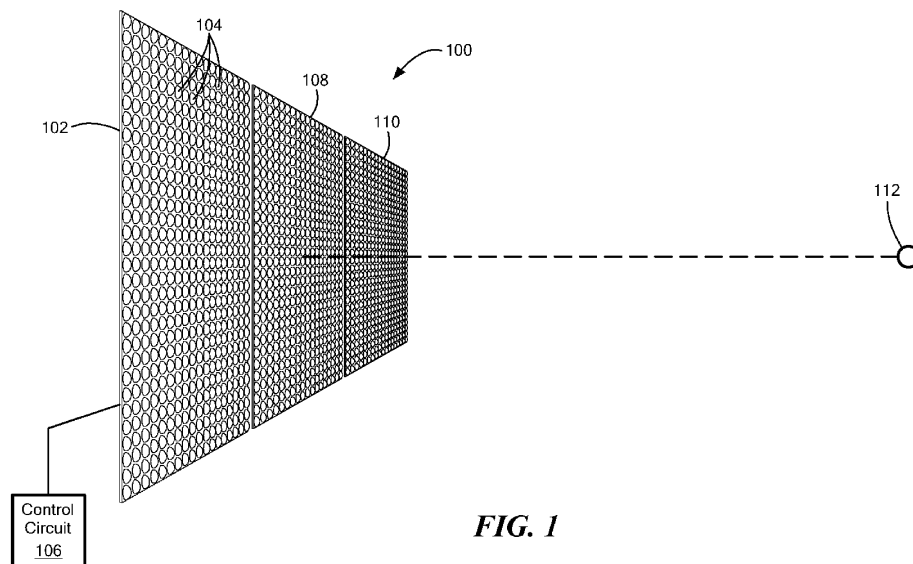


FIG. 1

(57) Abstract: An active acoustic system includes a thin-film sheet having an array of piezoelectric microstructures embossed in the film. Each piezoelectric microstructure may act as a speaker and/or a microphone. A control circuit is configured to individually address the piezoelectric microstructures to provide a separate voltage signal to, or receive a separate voltage signal from, each piezoelectric microstructure.

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