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(54) **SUPERSENSITIVE LINEAR PRESSURE TRANSDUCER**

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See application file for complete search history.

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(57) **ABSTRACT**

Apparatus and methods for a MEMS-fabricated variable capacitor. In one embodiment the capacitor is a comb drive comprising a plurality of plates interdigitated with a corresponding blades. As the plates move relative to the blades, the capacitance of the sensor changes. The capacitor is sufficiently sensitive to measure respiratory pressure in an animal.

6 Claims, 23 Drawing Sheets

