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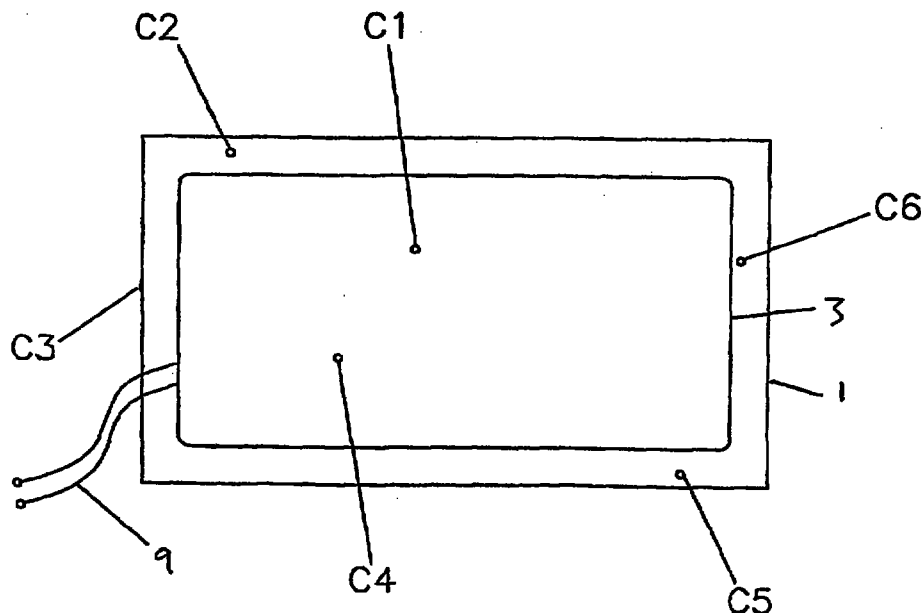
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(54) Title: PANEL DRIVE



(57) Abstract: A loudspeaker is made of a panel (1) supporting bending waves and a transducer (3) covering a substantial portion of the panel surface. At least one constraint, for example a clamp or a mass, is fixed to the panel. Each constraint reduces the mobility of a small area of the panel. Excitation of the transducer excites bending waves in the panel; the constraints discourage simple motion and encourage the production of a plurality of bending waves instead. The constraints can constrain the panel to be excited to produce a good distribution of resonant bending wave modes.

WO 01/05189 A2