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Method and device for controlling the vibration modes of a vibrating support

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Abstract of GB2489700 (A)

The method concerns determining the position and the dimensions of at least one vibration controlling member 20 placed on a vibrating support 22, e.g. a loudspeaker diaphragm, that is liable to vibrate according to a plurality of vibration modes when excited. The method

includes (i) providing a plurality of pairs of position and dimensions of at least one vibration controlling member placed on the vibrating support; (ii) obtaining for each pair at least one value of a physical magnitude produced by the vibrating support, the vibration controlling member, or the vibrating support when the vibrating support is subjected to an excitation; and (iii) from the at least one value of physical magnitude obtained for each pair, determining at least one pair for which a first vibration mode is distinguishable from at least one second vibration mode. The vibration controlling member 20 may be a piezoelectric material, PZT or PVDF, operating in either an active or passive manner.

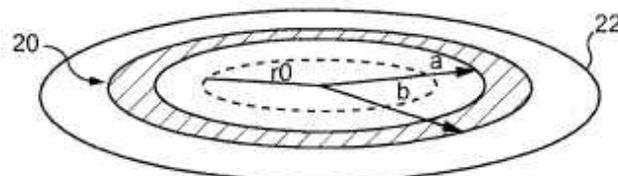


Fig. 6