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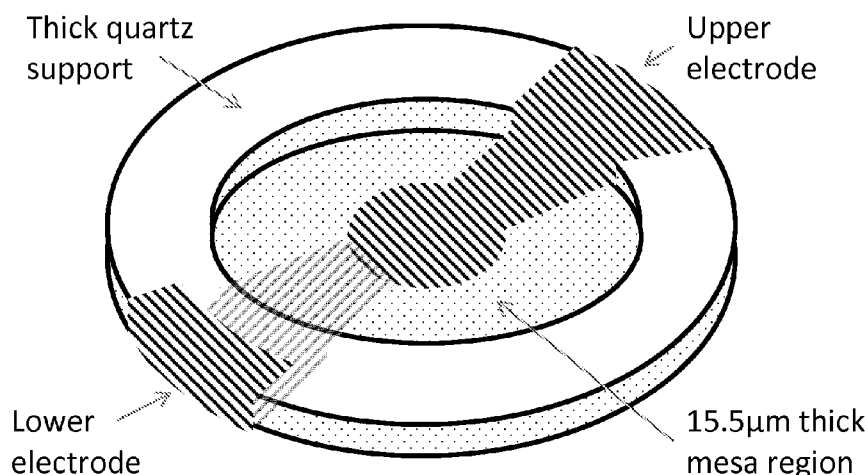


FIGURE 2

(57) Abstract: An antenna for wireless telecommunication comprises a piezoelectric material layer, the piezoelectric material layer being formed such that when an electromagnetic wave is applied thereto, the first piezoelectric material layer is excited at the frequency of the electromagnetic wave. The antenna also comprises an acoustic cavity layer arranged to collect the acoustic energy received from the first piezoelectric layer and first and second electrode layers positioned on either side of the acoustic cavity layer, the electrode layers being arranged to transfer electrical energy to and from both the piezoelectric material layer and the acoustic cavity layer.

