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(54) Title: LTE ANTENNA PAIR FOR MIMO/DIVERSITY OPERATION IN THE LTE/GSM BANDS

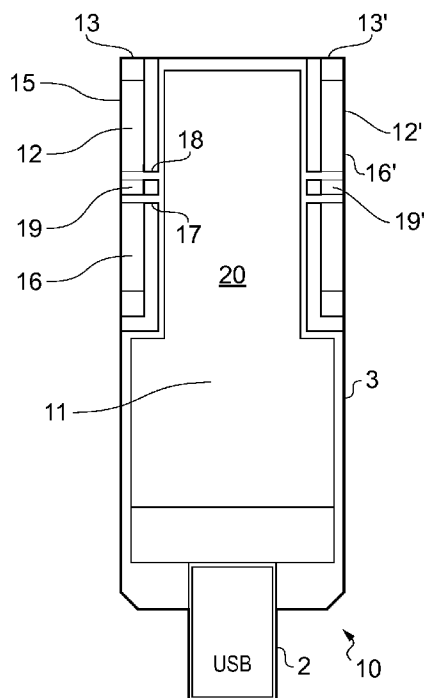


FIG. 3

(57) Abstract: There is disclosed a multiple - input multiple - output (MIMO) antenna system comprising first and second folded or compacted loop antennas (12, 121). The antennas each have a longitudinal extent and are mounted substantially parallel to each other on a dielectric substrate (3) having a conductive groundplane (31, 32). The groundplane extends between the first and second antennas, and the first and second antennas are mounted on the substrate in areas where there is no groundplane. The first and second antennas, in use, generate first and second radiation patterns (31, 32) and also cause currents (30) to flow in the groundplane between the antennas so as to skew the first and second radiation patterns relative to each other by an angle greater than zero, and preferably at an angle of around 50 degrees.



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