

(54) Title of the invention : METHOD FOR FABRICATING TRIPLE BAND UWB MIMO ANTENNA AND TRIPLE BAND UWB MIMO ANTENNA

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(57) Abstract :

ABSTRACT METHOD FOR FABRICATING TRIPLE BAND UWB MIMO ANTENNA AND TRIPLE BAND UWB MIMO ANTENNA The present disclosure discloses method (100) for fabricating a triple band notched ultra-wideband, UWB, multiple-input multiple-output, MIMO, antenna (200), wherein the method includes arranging a printed circuit board, PCB (202) including a dielectric layer, a first conducting layer, and a second conducting layer. The method (100) further includes creating one or more radiating patches (204A-204B) on the first conducting layer, and optimizing the one or more radiating patches (204A-204B), by etching one or more slots on the first conducting layer. And by optimizing a resonating frequency by using equation:  $f_r = (K_{nm} * c) / (2 * \pi * a_e * v_r)$ . In addition, optimizing one or more feed locations (206A-206B) for the one or more radiating patches (204A-204B) based on an optimized resonating frequency, connecting one or more feeding slots on the one or more radiating patches (204A-204B), and characterizing the triple band notched UWB MIMO antenna (200). FIG. 1

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