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(54) Title of the invention : 4×4 FRACTAL MIMO ANTENNA INCLUDING HIGH DIVERSITY PERFORMANCE FOR HIGH-SPEED WIDEBAND WIRELESS APPLICATIONS AND ELIMINATING TWO INTERFERING BANDS

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(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SHARMA, Manish
(33) Name of priority country	:NA	2)AHUJA, Rakesh
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(57) Abstract :

The present disclosure relates to a multiple input multiple output (MIMO) antenna. The antenna includes a substrate made of dielectric material and the one or more radiating elements configured on a first side of the substrate. The one or more radiating elements are configured with a ground on an opposite second side of the dielectric substrate. The one or more radiating elements are positioned orthogonal to one another, and are configured to operate in one or more bands. The one or more radiating elements include one or more stop band filters for mitigating interference between one or more bands. The one or more stop band filters can include an inverted T-shaped stub and a etched C-shaped slot.

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