

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111017606 A

(19) INDIA

(22) Date of filing of Application :15/04/2021

(43) Publication Date : 24/02/2023

(54) Title of the invention : COMPACT BLUETOOTH AND X-BAND MULTIBAND ANTENNA

(51) International classification	:H01Q0009040000, H01Q0001480000, H01Q0001240000, H01Q0021060000, H01Q0005500000	(71)Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SHARMA, Manish
(33) Name of priority country	:NA	2)MALHOTRA, Shivani
(86) International Application No	:NA	3)KUMAR, Rajeev
Filing Date	:NA	4)BANSAL, Aarti
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to an antenna device (100) for wireless communication, the device includes a rectangular slotted ground, a radiating patch (102) configured on a substrate, the radiating patch that includes a rectangular stub (104) coupled to a feed line, the feed line is integrated with a SMA connector to receive an input signal, a T-shape stub (106) is formed on the substrate by merging the feed line and the rectangular stub and an anchor-shaped stub (108) is embedded in a ground plane, wherein, on receipt of the input signal, the T-shape stub (106) and the anchor-shaped stub (108) generate a plurality of frequency bands for wireless communication.

No. of Pages : 28 No. of Claims : 9