

(12) PATENT APPLICATION PUBLICATION

(21) Application No.3888/DEL/2015 A

(19) INDIA

(22) Date of filing of Application :28/11/2015

(43) Publication Date : 22/12/2017

(54) Title of the invention : WIRELESS COMMUNICATION DEVICE FOR IMPROVED WIFI (WIRELESS FIDELITY) SIGNAL

(51) International classification	:H04W88/04
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(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

(71)**Name of Applicant :**
1)CHITKARA UNIVERSITY
Address of Applicant :CHITKARA UNIVERSITY
Chandigarh-Patiala National Highway(NH-64) Tehsil Rajpura,
Distt. Patiala Punjab,India Punjab India
(72)**Name of Inventor :**
1)SONANSHU
2)SINGLA TRINKUSH
3)DR. SOHAL HARSH

(57) Abstract :

The inventors of the present invention have developed a wireless communication device for improved Wi-Fi (Wireless Fidelity) signal having large frequency, high data transfer rate and low rate of error. The device has the capacity to eliminate the need of two three Wi-Fi routers. The increased signal strength is due to the presence of inbuilt amplifiers, repeaters, multipliers, dividers, omnidirectional antennas. Data is modulated from 600MHz to their respective frequencies i.e. 2.4GHz and 5.0GHz. The data modulated is divided using the dividers to get the required data rate from the device. The data is transmitted through the antennas having omnidirectional operation for better signal propagation. The data rate is considerably boosted from 800Mbps to around 3000Mbps. Signal has strength of overcoming obstructions in the way of signal.

No. of Pages : 16 No. of Claims : 5