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(51) International classification :H04B0007060000, H01Q0001520000, H01Q0001380000, H01Q0021280000, H04B0007041300 (86) International Application No :PCT// Filing Date :01/01/1900 (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)Dr.A.Aranganathan Address of Applicant :Associate Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai Pin :600 119 State: Tamilnadu Country:India ----- 2)Mr.Megalan Leo.L 3)Dr.V.Vedanarayanan 4)Mrs.Poonguzhali S 5)Mrs.T Gomathi Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.A.Aranganathan Address of Applicant :Associate Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai Pin :600 119 State: Tamilnadu Country:India ----- 2)Mr.Megalan Leo.L Address of Applicant :Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai Pin :600 119 State: Tamilnadu Country:India ----- 3)Dr.V.Vedanarayanan Address of Applicant :Associate Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai Pin :600 119 State: Tamilnadu Country:India ----- 4)Mrs.Poonguzhali S Address of Applicant :Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai Pin :600 119 State: Tamilnadu Country:India ----- 5)Mrs.T Gomathi Address of Applicant :Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai Pin :600 119 State: Tamilnadu Country:India -----
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(57) Abstract :

A Novel Highly Incorporated MIMO Antenna Unit for Mobile Phone Terminals Abstract: This illustration shows a MIMO antenna with a wide bandwidth. A neutralising line is used to connect the radiating elements of an antenna in order to prevent them from interacting. For the 4.4GHz, 6.2GHz, 8.9GHz, and 9.6GHz x bands, the device used folded monopoles and bevelled rectangular metal patches as radiating elements. CPW lines connect each coplanar waveguide (CPW) line to 50 other coplanar waveguide lines. Four slits have been etched into the ground plane to reduce coupling. This is due to the advancement of MIMO (Multiple Input Multiple Output) processing. Digital communication ushered in a new era of wireless systems that has altered the course of human history. All wireless technologies face similar limitations, including limited spectrum and faded signals. MIMO technology enables you to increase the amount of data that can be transmitted and received without increasing the number of available radio frequencies. Foschini and Gans discovered that by utilizing MIMO systems, network efficiency could be increased. A multi-transmitter and multi-receiver antenna system must be at least as large as a single transmitter and receiver system in a large area. When Antenna Diversity is used in MIMO Systems, the signal's Strength to Noise Ratio (SNR) can be significantly increased (SNR). As a result, data can be transferred more quickly when spatial multiplexing is used in MIMO systems. Beamforming can be used to improve the quality of signals or the speed of data transfer. MIMO technology is applicable to a wide range of applications.

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