

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/11/2021

(21) Application No.202141052319 A

(43) Publication Date : 03/12/2021

(54) Title of the invention : 5G NETWORK ARCHITECTURES TO NEXT-GENERATION TERRESTRIAL BROADCASTING PLATFORM ALIGNED INTERNET

(51) International classification :H04N0021238100, H04H0060070000, H04N0021643000, H04W0028100000, H04N0021238300
(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)Dr.C.Sharanya

Address of Applicant :Assistant Professor, Department of Electronics and Communication, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, P.V. Vaithiyalingam Road, Pallavaram, Chennai - 600 117. -----

2)Mr.K.T.Ilayarajaa

3)Dr. M. Monisha

4)Dr. M. Senthil Kumar

5)Dr.M.Meena

6)Dr.D.Ravikumar

7)Dr. L.Jayanthi

8)Mr. Prasad Yadav Kurikyala

9)Mr.K.Anand

10)Dr.K.Kalaiselvan

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.C.Sharanya

Address of Applicant :Assistant Professor, Department of Electronics and Communication, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Velan Nagar, P.V. Vaithiyalingam Road, Pallavaram, Chennai - 600 117. -----

2)Mr.K.T.Ilayarajaa

Address of Applicant :Assistant Professor, Department of Electronics and Communication, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai, Tamil Nadu 600119. -----

3)Dr. M. Monisha

Address of Applicant :Assistant Professor, Department of ECE, Vels Institute of Science, Technology & Advanced Studies (VISTAS) Pallavaram, Chennai - 638112 -----

4)Dr. M. Senthil Kumar

Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Nalla Malla Reddy Engineering College, Hyderabad - 500088, Telangana, India -----

5)Dr.M.Meena

Address of Applicant :Associate Professor, Department of ECE, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram Chennai - 600117 -----

6)Dr.D.Ravikumar

Address of Applicant :Professor and Head, Department of Electronics and Communication, Kings Engineering College, Irungattukottai, Chennai-602117. -----

7)Dr. L.Jayanthi

Address of Applicant :Dr.L.Jayanthi, Assistant Professor, Department of ECE, Periyar Maniammai Institute of Science & Technology, Vallam, Thanjavur - 613 403. -----

8)Mr. Prasad Yadav Kurikyala

Address of Applicant :Lecturer in (Electrical) & Engineering Department, C/o University of technology and applied sciences-Ibri P O Box : 466, Postal code: 516, Ibri Sultanate of Oman. -----

9)Mr.K.Anand

Address of Applicant :Assistant Professor/ Department of Electronics and Communication Engineering, Gnanamani College of Technology, Namakkal(DT) - 637018 -----

10)Dr.K.Kalaiselvan

Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, Er.Perumal Manimekalai College of Engineering, Hosur-Krishnagiri National Highway, Hosur-635117 -----

(57) Abstract :

It is revealed a Next Generation Broadcast Platform (NGBP) that makes use of 5G software-defined networking (SDN) and network function virtualization (NFV) technologies, as well as other technologies. The NGBP is intended to enable a new paradigm for broadcasters, in which the fixed wireless spectrum access model, in which access is granted only to licensees of the spectrum, is replaced by a more flexible model in which licensed spectrum is pooled together and allocated dynamically to broadcast licensees as well as outside tenants, is enabled. The NGBP is being developed utilizing SDN/NFV technology. It includes a broadcast market exchange (BMX) organization that distributes spectrum amongst tenants by service level agreements (SLAs) with those tenants, among other things. An internet protocol core (IP core) and a broadcast centralized radio access network (BC-RAN) are also included in the NGBP. These networks apply the principal network functions to broadcaster material in line with the BMX's judgments. The deployment of SDN/NFV has numerous notable benefits over the implementation of NGBP using dedicated network hardware.

No. of Pages : 22 No. of Claims : 6