

(54) Title of the invention : CONGESTION AVOIDANCE AND CONTROL IN 5G WIRELESS SENSOR NETWORK FOR CHAIN TOPOLOGY

(51) International classification :H04W0084180000, H04L0012801000, H04W0052020000, H04W0028020000, H04L0012835000

(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. M. Senthil Kumar
 Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, NallaMalla Reddy Engineering College, Hyderabad – 500088, Telangana, India - -----
2)Dr. M. Monisha
3)Dr. R Palson Kennedy
4)Mr. P. Nelson Kingsley Joel
5)Mr. Mahaboob Subani Shaik
6)Dr. A Selva Reegan
7)Dr. Alagu Thillaivanan
8)Dr. K. Arulanandam
9)Mr. MDR. Shivkhumar
10)Mrs. V. Revathy
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Dr. M. Senthil Kumar
 Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, NallaMalla Reddy Engineering College, Hyderabad – 500088, Telangana, India - -----
2)Dr. M. Monisha
 Address of Applicant :Assistant Professor Department of ECE Vels Institute of Science Technology & Advanced Studies (VISTAS) Pallavaram, Chennai - 638112 -----
3)Dr. R Palson Kennedy
 Address of Applicant :Professor,& Principal, Department of Computer Science and Engineering, PERI Institute of Technology Mannaivakkam, Chennai -----
4)Mr. P. Nelson Kingsley Joel
 Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, JP College of Engineering, Tenkasi – 627852, Tamil Nadu, India -----
5)Mr. Mahaboob Subani Shaik
 Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Bapatla Engineering College, Mahatmajipuram, Bapatla, Andhra Pradesh 522102 -----
6)Dr. A Selva Reegan
 Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Stella Mary's College of Engineering, Aruthenganvilai, Kanyakumari District - 629202 -----
7)Dr. Alagu Thillaivanan
 Address of Applicant :Professor/Mechanical engineering and Director Research and Development, Shadan College of engineering and Technology, Peerancheru, Hyderabad, India Pin 500 086 -----
8)Dr. K. Arulanandam
 Address of Applicant :Assistant professor, Department of Computer Applications Govt. Thirumagal Mills College, Gudiyattam -----
9)Mr. MDR. Shivkhumar
 Address of Applicant :Managing Director, Comfort Elevatronics India Ltd Bangalore -----
10)Mrs. V. Revathy
 Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Arasu Engineering College, Kumbakonam-612501 -----

(57) Abstract :
 The present invention relates to a congestion avoidance and control in 5g wireless sensor network for chain topology. In Wireless Sensor Networks (WSNs) there are one or more sinks or base stations and many sensor nodes distributed over wide area. Sensor nodes have restricted power. Sensor nodes gather specific data and transmit gathered data to sink when a particular event is occurred. These sensor nodes can transmit large volume of data towards the sink. It can result in buffer overflow at the nodes. Hence there is congestion in the sensor network around the sink. Congestion in the network may cause packet drops and energy waste. Hence it shortens the lifetime of sensor nodes. So congestion in sensor network needs to be controlled to decrease the waste of energy and also to increase the lifetime of sensor nodes.

No. of Pages : 6 No. of Claims : 1