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<p>(51) International classification :H04L0067120000, H04L0045000000, H04W0004700000, H04L0041089300, H04L0067510000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. S. Sekar Address of Applicant :Guest Lecturer, Department of Commerce (CA), Government Arts College (Autonomous), Salem-636007, Tamil Nadu, India. Salem ----- 2)Sudhakar Deivasigamani 3)Dr. D. Elamparuthi 4)S. M. Faisal 5)Dr. Prem Pal Singh Tomar 6)Santhosh T Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. S. Sekar Address of Applicant :Guest Lecturer, Department of Commerce (CA), Government Arts College (Autonomous), Salem-636007, Tamil Nadu, India. Salem ----- 2)Sudhakar Deivasigamani Address of Applicant :Scrum Master, Digipulse technologies Inc, 811 Church Road, Suite-169, NJ, 08002, Georgia-30097, United States of America. ----- 3)Dr. D. Elamparuthi Address of Applicant :Assistant Professor, Department of Business Administration, Annamalai University, Annamalai Nagar, Chidambaram, Cuddalore-608002, Tamil Nadu, India. Chidambaram ----- 4)S. M. Faisal Address of Applicant :Assistant Professor, Department of Computer Engineering, Sandip Foundation, Trimbak Road, Nashik-422213, Maharashtra, India. Nashik ----- 5)Dr. Prem Pal Singh Tomar Address of Applicant :Professor, Department of Computer Science and Engineering, Mangalamay Institute of Engineering and Technology, Knowledge Park- 2, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Greater Noida ----- 6)Santhosh T Address of Applicant :Assistant Professor, Department of Information Science and Engineering, Bapuji Institute of Engineering and Technology, Davangere-577004, Karnataka, India. Davangere -----</p>
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(57) Abstract :
EVALUATION TOWARDS SMART AND SOFTWARE DEFINED IOT ABSTRACT The invention offers an overview of the Internet of Things (IoT) and the need for advancements in network architecture to better accommodate the growing number of IoT devices. The Internet of Things is described as a network of interconnected objects with unique identifiers, capable of transmitting data and communicating with each other autonomously. These objects can be simple devices or even phenomena in the environment. It emphasizes that IoT has brought us closer to a futuristic world where a wide range of objects and phenomena can be connected to the internet. Traditional IoT network architectures are criticized as "primitive" and inadequate for meeting the demands of a rapidly growing network of IoT devices. These limitations include difficulties in scaling to accommodate the increasing data generation and challenges related to security and efficiency. The invention introduces Software-Defined Networking (SDN) and Network Function Virtualization (NFV) as two promising technologies to address the shortcomings of traditional IoT architectures. SDN is a network architecture that separates the control plane from the data plane, allowing for centralized control and programmable network management. NFV involves virtualizing network functions and services, which were traditionally implemented in dedicated hardware appliances. The invention discusses how SDN and NFV can be applied in various ways to improve IoT. It likely delves into specific use cases, benefits, and challenges of implementing these technologies in IoT scenarios. These technologies offer more scalable, efficient, and secure solutions for managing the ever-expanding IoT infrastructure.

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