(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/07/2023

(21) Application No.202311048564 A
(43) Publication Date : 11/08/2023

(54) Title of the invention : SYSTEM AND METHOD FOR IMPLEMENTING SECURE COMMUNICATIONS FOR INTERNET OF THINGS

(51) International classification	:G05B 150200, G06F 162200, G06F 162450, H01L 250650, H04L 671200
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)Noida Institute of Engineering and Technology
Address of Applicant :19, Knowledge Park-II Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Vivek Kumar
Address of Applicant :19, Knowledge Park-II Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ---------- ----------
2)Dr. Vinod M. Kapse
Address of Applicant :19, Knowledge Park-II Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ---------- ----------
3)Dr. Kumud axenas
Address of Applicant :19, Knowledge Park-II Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ---------- ----------
4)Aditee Mattoo
Address of Applicant :Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ---------- ----------

(57) Abstract :
SYSTEM AND METHOD FOR IMPLEMENTING SECURE COMMUNICATIONS FOR INTERNET OF THINGS Accordingly, embodiments herein disclose system and method for implementing secure communications for internet of things (IoT). The system comprises a processor; and a non-transitory computer readable medium communicatively coupled to the processor. The non-transitory computer readable medium has stored thereon computer software comprising a set of instructions that causes the computing device to provide connectivity between a first device and a second device over a network by establishing an IoT protocol-based machine-to-machine communication channel between the first and second devices over the network, when executed by the processor. Tthe computing device is to receive an indication from one of the first device and the second device that a data packet will contain sensitive information, and to automatically establish a secure off-the-record (OTR) communication session within the IoT protocol-based, machine-to-machine communication channel between the devices over the network based on receiving the indication from one of the devices.

No. of Pages : 10 No. of Claims : 6