Patents information and communications

براءات الاختراع (المعلومات و الاتصالات)

S.N.	Inventors Name	Patent No.	Issue Date	Title	Abstract	Patent Office	Patent Document
1	MUHAMMAD KHURRAM KHAN WAZIR ZADA KHAN	11874752	16/1/2024	Methods and systems for facilitating cyber inspection of connected and autonomous electrical vehicles using smart charging stations	A method of facilitating cyber inspection of connected and autonomous electrical vehicles using smart charging stations. Accordingly, the method comprises receiving an information associated with a connected and autonomous electrical vehicle (CAEV) connected to a smart charging station, identifying an operation comprising a scanning operation based on the information, generating a request for facilitating the scanning operation comprising a cyber security threats scan, a cyber-attacks scan, an antivirus scan, an antimalware, an anti-ransomware, and a security scan, transmitting the request to a service provider device of a service provider comprising a cyber security provider, receiving a scanning operation information from the service provider device, performing the scanning operation on ECUs of the CAEV for facilitating the cyber inspection of the CAEV using the scanning information, generating a status of the CAEV based on the performing, transmitting the status to a device, and storing the status.	USPTO	US 11874752
2	HISHAM NASSER A ALMAJED Ahmad Saad Hamad AlMogren HISHAM NASSER A ALMAJED	10858	18/9/2022	A SYSTEM TO SECURE ENCODING AND MAPPING FOR PLAINTEXT ON ELLIPTIC CURVE CRYPTOGRAPHY (ECC)	A system in Elliptic Curve Cryptography (ECC) that offers secure encoding and mapping of a message to the curve E against encryption attacks, such Chosen Plaintext Attack (CPA) and Chosen Ciphertext Attack (CCA). The system includes, a method to convert the text message to numerical values with manipulation using Initial Vector IV. In addition, the system provides, a method to revert the manipulated values to their original value. Figure 9 depicted the overall design of the proposed system.	SAIP	SA 10858
3	Muhammad Khurram Khan Wazir Zada Khan	11271971	8/3/2022	Device for facilitating managing cyber security health of a connected and autonomous vehicle (CAV)	Disclosed herein is a device for facilitating managing cyber security health of a connected and autonomous vehicle (CAV). Accordingly, the device may include a communication interface configured for transmitting a request for updating an electronic control unit (ECU) to a connected and autonomous vehicle (CAV) manufacturer server and receiving a security update and a security patch for the ECU from the CAV manufacturer server. Further, the device may include a processing device communicatively coupled with the communication interface. Further, the processing device may be configured for applying the security update and the security patch to the ECU for updating the ECU, determining an update status for each ECU, and generating a cyber security health status report of the CAV. Further, the device may include a storage device communicatively coupled with the processing device. Further, the storage device may be configured for storing the cyber security health status report.	USPTO	US 11271971