

**Methods, Medium, IoT Device, Block Chain Platform and IoT System for
Recording Transportation Data of Object**

ABSTRACT

The present disclosure provides methods, medium, an IoT device, a block chain platform and an IoT system for recording transportation data of an object. The IoT device has been one time programmed with a private key in a manufacturing process of the IoT device. The IoT device includes: at least one sensor configured to detect external environment data of the object during transportation of the object; and a processor configured to receive the data from the sensor and generate a data packet based on the data using the private key, the data packet including a unique identification number of the IoT device, the data and a signature generated according to the unique identification number and the data.

Fig. 2