(54) **INFORMATION PROCESSING DEVICE, VEHICLE, INFORMATION PROCESSING METHOD, AND STORAGE MEDIUM**

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(57) **ABSTRACT**

An information processing device includes: a memory; and a processor coupled to the memory, the processor being configured to: detect a communication anomaly of communication in a network, based on a predetermined rule, detect a change in a communication specification in the network, and determine whether or not there is an anomaly in the communication based on whether or not a first frequency with which the communication anomaly is detected in a first period of time that is from a first timing until a second timing that is after the first timing, is less than a second frequency with which the communication anomaly is detected in a second period of time that is from the second timing onward, the first timing being on or after a time at which the change in the communication specification is detected.