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(54) Title: SYSTEMS AND METHODS FOR VISUAL SCENE MONITORING

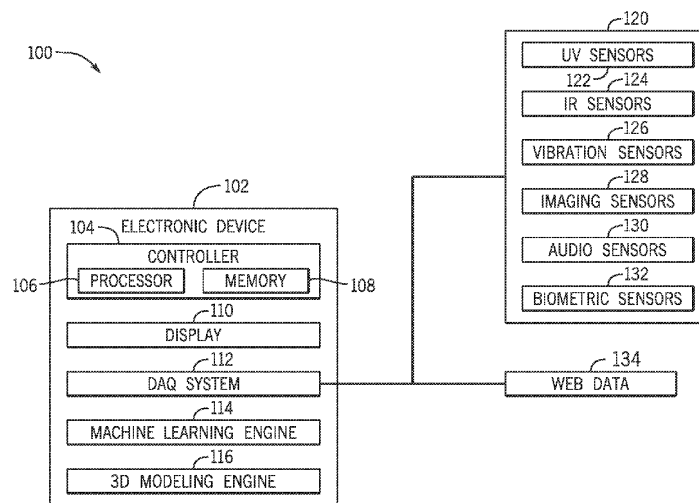


FIG. 1

(57) **Abstract:** The present application is directed to systems and methods of performing anomaly detection, predictive maintenance, and anomaly correction in an amusement park experience. Specifically, the present application is directed to a method for monitoring an amusement park experience. The method may include receiving, via a sensor network, multiple layers of first sensor data indicative of characteristics of the experience. The method may also include generating a profile of the experience based on the first sensor data, wherein the profile includes a baseline and a threshold indicating an acceptable range of the characteristics. The method may also include receiving second sensor data and third sensor data via the sensor network. The method may further include determining, in response to identifying characteristics of the second sensor data that deviate from the baseline but do not exceed the threshold, that the experience is operating properly; and may include performing a particular corrective action in response to identifying characteristics

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of the third sensor data that deviate from the baseline and exceed the threshold.