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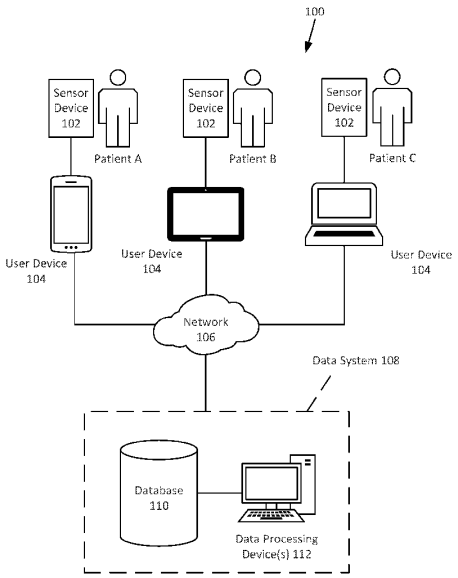
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(54) Title: CONTINUOUS OBSERVATION AND MONITORING FOR PATIENT ASSESSMENT USING A SENSOR-BASED SYSTEM

FIG. 1



(57) Abstract: A system for continuous monitoring and assessment of patient health includes: at least one wearable sensor device attached non-invasively to a patient, the sensor device configured to continuously generate new sensor data associated with the patient; and a data system comprising a database and at least one data processing device. The data processing device is configured to: collect historical data associated with other patients from the database; train and validate at least one predictive model based on the historical data; extract features from the new sensor data received from the sensor device; assess, using the trained and validated model, clinical outcomes associated with the patient based on the extracted features; and transmit the clinical outcomes to be reviewed by the patient or a clinician of the patient.

WO 2025/193905 A1

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