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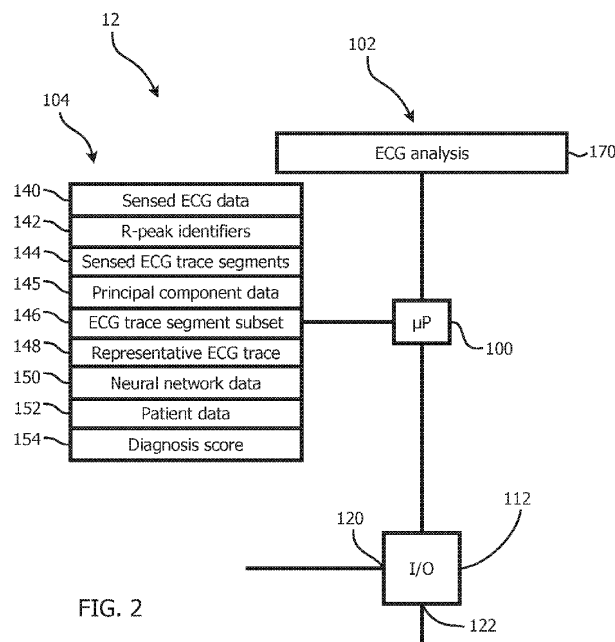


FIG. 2

(57) **Abstract:** A computer-implemented method of facilitating electrocardiogram ("ECG") analysis involves receiving one or more sensed ECG traces for a patient, each of the sensed ECG traces representing sensed patient heart activity over a sensed time period, and, for each of the one or more sensed ECG traces: identifying a plurality of corresponding sensed ECG trace segments, each of the sensed ECG trace segments representing sensed patient heart activity for the patient over a segment of the sensed time period, and determining a representative ECG trace based on at least one of the identified corresponding sensed ECG trace segments. The method involves causing at least one neural network classifier to be applied to the one or more determined representative ECG traces to determine one or more diagnostically relevant scores related to at least one diagnosis of the patient. Other methods, systems, and computer readable media are disclosed.

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