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Narasimhan et al.

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(54) **PRESSURE MEASUREMENT DESIGNS**

(71) Applicant: **Apple Inc.**, Cupertino, CA (US)

(72) Inventors: **Ravi K. Narasimhan**, Sunnyvale, CA (US); **Zijing Zeng**, San Jose, CA (US); **Zhipeng Zhang**, Santa Clara, CA (US)

(73) Assignee: **Apple Inc.**, Cupertino, CA (US)

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See application file for complete search history.

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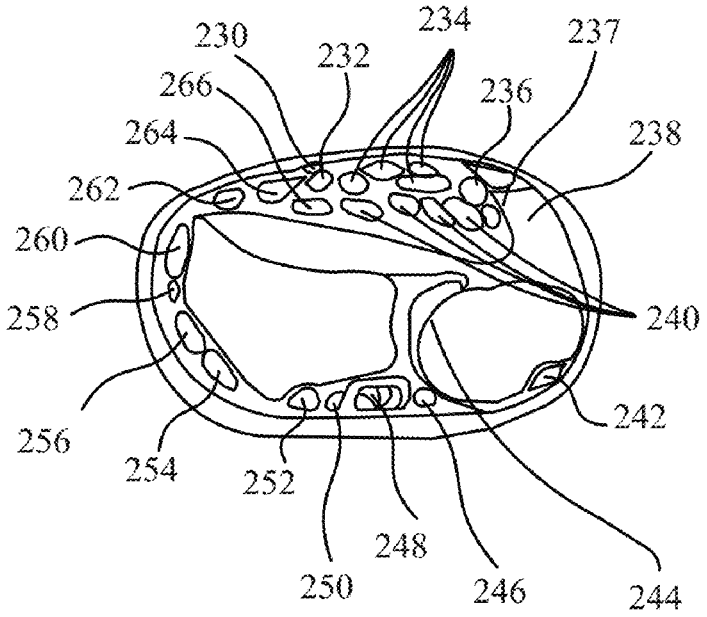
Primary Examiner — Jacqueline Cheng
Assistant Examiner — Tho Q Tran
(74) *Attorney, Agent, or Firm* — Kilpatrick Townsend & Stockton LLP

(57) **ABSTRACT**

The present invention generally relates to the measuring and monitoring of blood pressure. More specifically, embodiments may apply the theory of applanation tonometry for the measurement of blood pressure. Some embodiments provide a method for measuring mean arterial pressure. Some embodiments provide a device that may be worn by a user that may non-invasively measure and monitor blood pressure of a user. In some embodiments, the invention generally relates to sensor arrays for use with a wrist-worn device to measure blood pressure. Embodiments of the sensor array designs described may be configured to improve resolution by decoupling nodes of the sensor array.

39 Claims, 14 Drawing Sheets