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BA-WALS1215	DATE: 7/20/2021	
BLACK BRASS	SALES REP: LW	
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U.S. Patent    Jul. 20, 2021    Sheet 1 of 10    US 11,064,948 B2

The  
United  
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America

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(12) **United States Patent**  
**Peabody**

(54) **MEDICAL DIAGNOSTIC DEVICE, SYSTEM, AND METHOD OF USE**

(71) Applicant: **Steven R. Peabody**, Zionsville, IN (US)

(72) Inventor: **Steven R. Peabody**, Zionsville, IN (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 427 days.

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*A61B 5/00* (2006.01)  
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(52) **U.S. Cl.**  
CPC ..... *A61B 5/6898* (2013.01); *A61B 5/0022* (2013.01); *A61B 5/02055* (2013.01);  
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(45) **Date of Patent:** **Jul. 20, 2021**

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*Primary Examiner* — Eugene T Wu  
(74) *Attorney, Agent, or Firm* — Roberts IP Law; John Roberts, Esq.

(57) **ABSTRACT**  
Provided in various example embodiments a mobile device integrated in a body that is sized and shaped to be held in a palm of a hand of a user, the mobile device configured to take a plurality of physiological measurements of a patient, including electrocardiographic measurements, blood oxygen saturation level measurements, pulse rate measurements, body temperature measurements, blood pressure measurements when connected with a removable inflatable cuff, and blood glucose measurements when connected with an elongated test strip, and to display and wirelessly communicate data corresponding to said physiological measurements. The mobile device may comprise some or all of the features of an Internet enabled smartphone. The mobile device may be provided with selectable modes of operation for use with one or more patients. Wireless peripherals may provide additional physiological data to the device. Systems are provided for secure communication and storage of data.

**18 Claims, 10 Drawing Sheets**