



US010631765B1

(12) **United States Patent**
Poeze et al.

(10) **Patent No.:** **US 10,631,765 B1**
(45) **Date of Patent:** ***Apr. 28, 2020**

(54) **MULTI-STREAM DATA COLLECTION SYSTEM FOR NONINVASIVE MEASUREMENT OF BLOOD CONSTITUENTS**

(58) **Field of Classification Search**
CPC A61B 5/1455; A61B 5/14551; A61B 5/14552; A61B 5/14532; A61B 5/14546;
(Continued)

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **16/725,478**

(22) Filed: **Dec. 23, 2019**

Related U.S. Application Data

(63) Continuation of application No. 16/534,949, filed on Aug. 7, 2019, which is a continuation of application
(Continued)

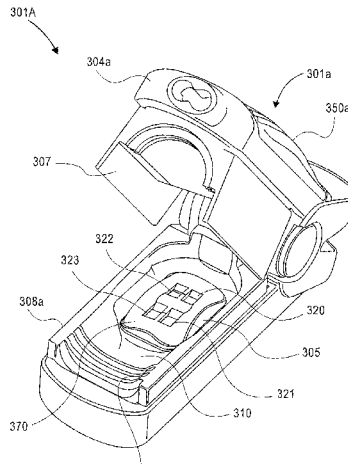
(51) **Int. Cl.**
A61B 5/1455 (2006.01)
A61B 5/00 (2006.01)
A61B 5/145 (2006.01)

(52) **U.S. Cl.**
CPC **A61B 5/1455** (2013.01); **A61B 5/14532** (2013.01); **A61B 5/14546** (2013.01);
(Continued)

(57) **ABSTRACT**

The present disclosure relates to noninvasive methods, devices, and systems for measuring various blood constituents or analytes, such as glucose. In an embodiment, a light source comprises LEDs and super-luminescent LEDs. The light source emits light at at least wavelengths of about 1610 nm, about 1640 nm, and about 1665 nm. In an embodiment, the detector comprises a plurality of photodetectors arranged in a special geometry comprising one of a substantially linear substantially equal spaced geometry, a substantially linear substantially non-equal spaced geometry, and a substantially grid geometry.

29 Claims, 65 Drawing Sheets



Related U.S. Application Data

- No. 16/409,515, filed on May 10, 2019, now Pat. No. 10,376,191, which is a continuation of application No. 16/261,326, filed on Jan. 29, 2019, now Pat. No. 10,292,628, which is a continuation of application No. 16/212,537, filed on Dec. 6, 2018, now Pat. No. 10,258,266, which is a continuation of application No. 14/981,290, filed on Dec. 28, 2015, now Pat. No. 10,335,068, which is a continuation of application No. 12/829,352, filed on Jul. 1, 2010, now Pat. No. 9,277,880, which is a continuation of application No. 12/534,827, filed on Aug. 3, 2009, now abandoned, and a continuation-in-part of application No. 12/497,528, filed on Jul. 2, 2009, now Pat. No. 8,577,431, which is a continuation-in-part of application No. 29/323,408, filed on Aug. 25, 2008, now Pat. No. Des. 606,659, and a continuation-in-part of application No. 29/323,409, filed on Aug. 25, 2008, now Pat. No. Des. 621,516, said application No. 12/829,352 is a continuation-in-part of application No. 12/497,523, filed on Jul. 2, 2009, now Pat. No. 8,437,825, which is a continuation-in-part of application No. 29/323,408, filed on Aug. 25, 2008, now Pat. No. Des. 606,659, and a continuation-in-part of application No. 29/323,409, filed on Aug. 25, 2008, now Pat. No. Des. 621,516.
- (60) Provisional application No. 61/086,060, filed on Aug. 4, 2008, provisional application No. 61/086,108, filed on Aug. 4, 2008, provisional application No. 61/086,063, filed on Aug. 4, 2008, provisional application No. 61/086,057, filed on Aug. 4, 2008, provisional application No. 61/091,732, filed on Aug. 25, 2008, provisional application No. 61/078,228, filed on Jul. 3, 2008, provisional application No. 61/078,207, filed on Jul. 3, 2008.
- (52) **U.S. Cl.**
 CPC *A61B 5/1452* (2013.01); *A61B 5/6816* (2013.01); *A61B 5/6826* (2013.01); *A61B 5/6829* (2013.01); *A61B 5/6838* (2013.01); *A61B 5/6843* (2013.01); *A61B 2562/0233* (2013.01); *A61B 2562/04* (2013.01); *A61B 2562/046* (2013.01); *A61B 2562/146* (2013.01)
- (58) **Field of Classification Search**
 CPC ... A61B 5/6826; A61B 5/6816; A61B 5/6829; A61B 5/6838; A61B 2562/00; A61B 2562/04; A61B 2562/046; A61B 2562/06; A61B 2562/063; A61B 2562/066
 See application file for complete search history.
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