

# Oral Argument Demonstratives

Patent Owner Valencell, Inc.  
IPR2017-00319 and IPR2017-00321  
U.S. Patent No. 8,923,941

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**United States Patent and Trademark Office  
Patent Trial and Appeal Board**

**Administrative Patent Judges  
McNamara, Arpin, McShane  
*Oral Argument* – February 27, 2018**

# U.S. Patent No. 8,923,941

Filed: February 19, 2014

Issued: December 30, 2014

Title: Methods and Apparatus for  
Generating Data Output Containing  
Physiological and Motion-Related  
Information

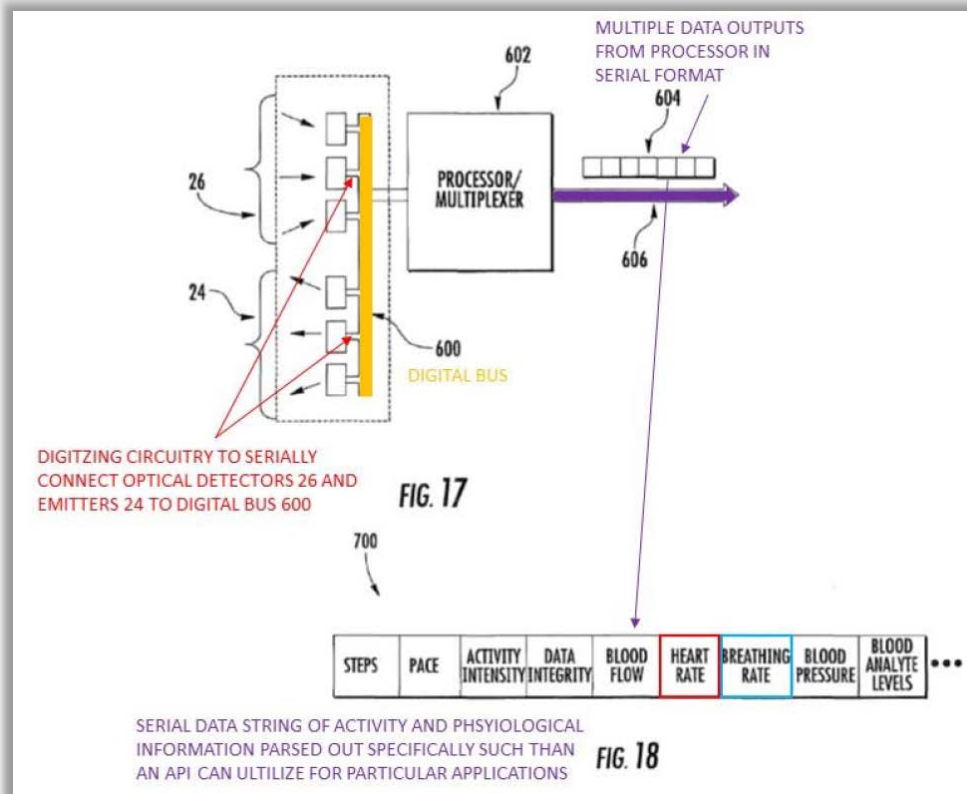
Inventors: Steven Francis LeBoeuf,  
Jesse Berkley Tucker, Michael  
Edward Aumer

Claims: 1-21

Independent Claims: 1 and 14

# The '941 Patent

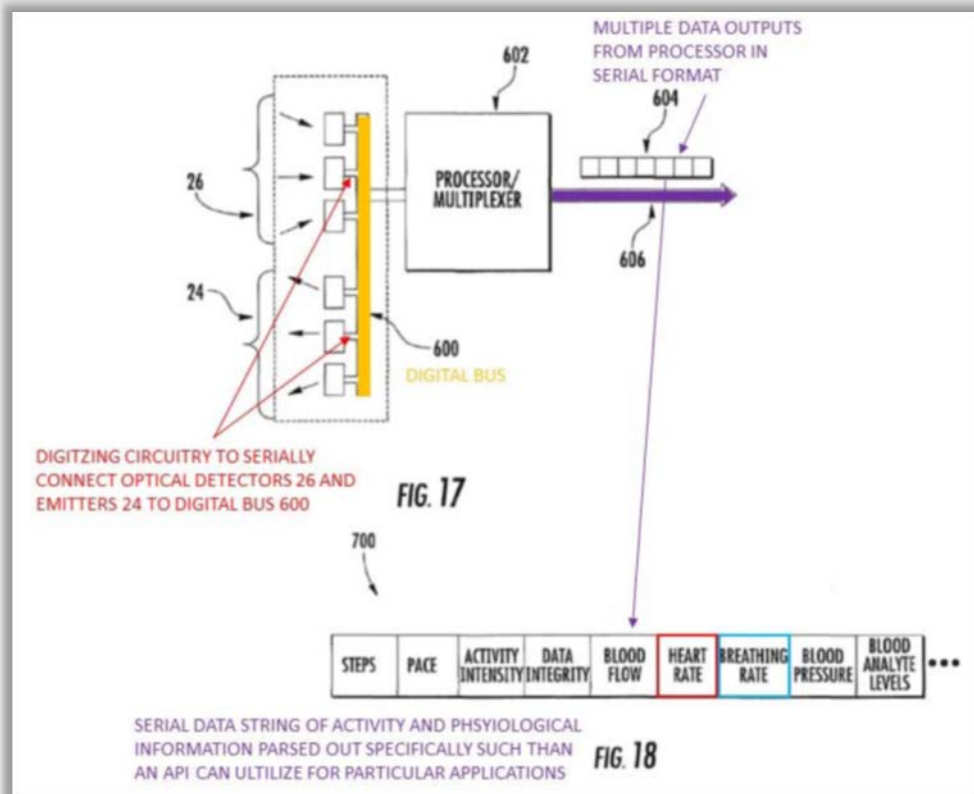
The '941 Patent Is Directed To Novel Methods and Systems for Generating a Serial Data Output Containing Both Physiological and Motion-Related Information.



319 PO Response

- The **serial data output** is created by a single monitoring device physical activity through a motion sensor and physiological through a **photoplethysmography (“PPG”) sensor**. IPR 2017-00319, Paper Response”) at 3, citing Ex. 1001 at 30:38-43.

The '941 Patent Is Directed To Novel Methods and Systems for Generating a Serial Data Output Containing Both Physiological and Motion-Related Information.



319 PO Response

- The serial data output is configured such that a plurality of physiological parameters, including at least heart rate and respiration rate, are of being extracted from the physiological information obtained by sensor.

319 PO Response at 4

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