

# Apple Inc. and Fitbit, Inc. v. Valencell, Inc.

P.T.A.B. Proceeding No. IPR2017-00321<sup>1</sup>

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

February 27, 2018

# Instituted Grounds ('941 Patent)

Ground	Claims	Type	Primary Reference	Secondary Reference(s)
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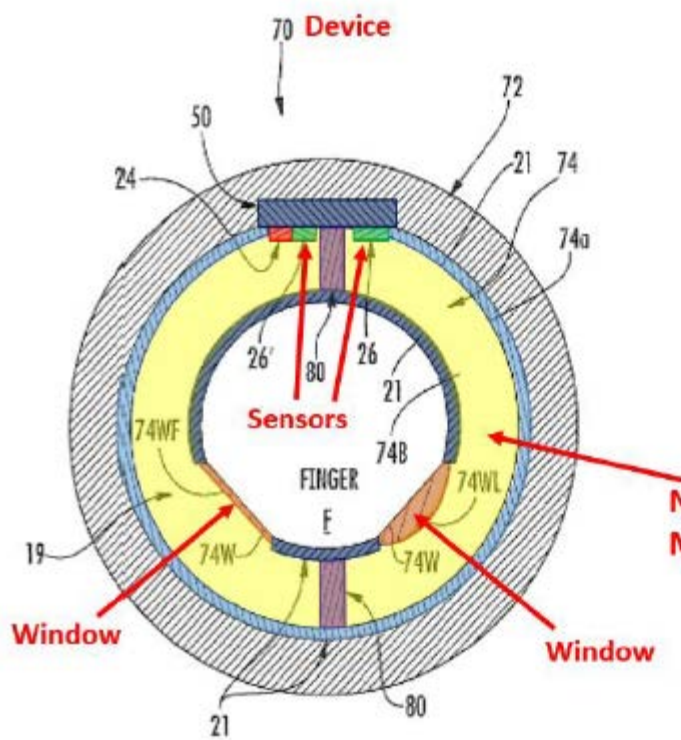
IPR2017-00321 ('941 Patent)				
1	14, 15, 21	§ 103	Kosuda	Maekawa
2	18-20	§ 103	Kosuda	Maekawa, Han
3	14-19, 21	§ 103	Aceti	Fricke
4	20	§ 103	Aceti	Fricke, Comtois

## Claim 14

14. A wearable device, comprising:  
a housing; and  
a chipset enclosed within the housing, the chipset comprising at least one PPG sensor, at least one motion sensor, and at least one signal processor configured to process signals from the at least one motion sensor and signals from the at least one PPG sensor to reduce motion artifacts from the PPG signals;  
wherein the housing comprises at least one window that optically exposes the at least one PPG sensor to a body of a subject wearing the device, and wherein the housing comprises non-air light transmissive material in optical communication with the at least one PPG sensor and the window.

**PO contends that claim 14 is embodied by Fig. 22B of the '941 Patent**

**14.** A wearable device, comprising:  
 a housing; and  
 a chipset enclosed within the housing, the chipset comprising at least one PPG sensor, at least one motion sensor, and at least one signal processor configured to process signals from the at least one motion sensor and signals from the at least one PPG sensor to reduce motion artifacts from the PPG signals;  
 wherein the housing comprises at least one window that optically exposes the at least one PPG sensor to a subject wearing the device, and wherein the housing comprises non-air light transmissive material for communication with the at least one PPG sensor through the window.



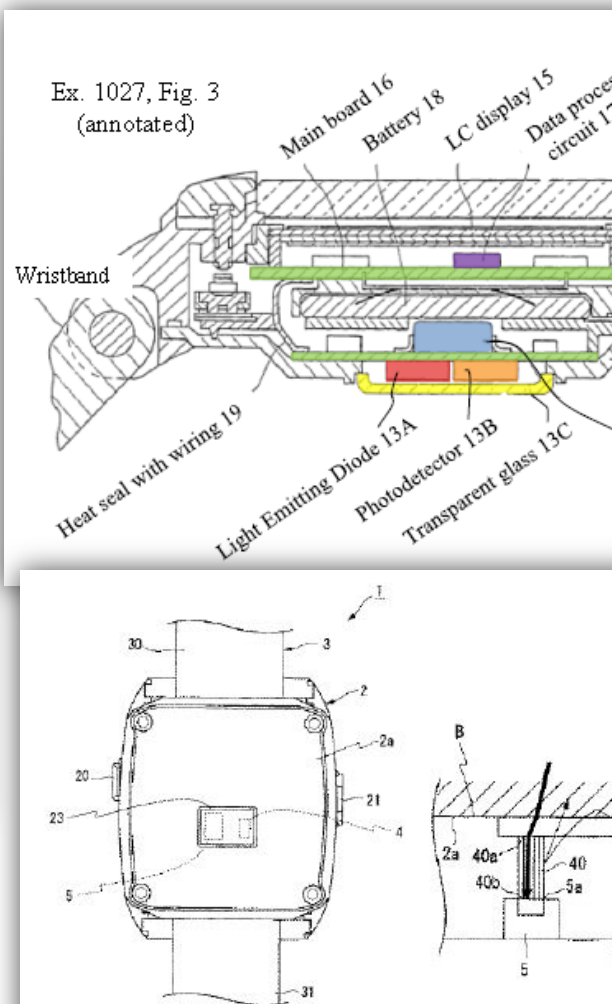
**Non-air Transmissive Material (e.g. silicone)**

**Window**

**Window**

## Ground 1 - Claims 14–15 and 21 are unpatentable over Kosuda in view of Maekawa

**14.** A wearable device, comprising:  
 a housing; and  
 a chipset enclosed within the housing, the chipset comprising at least one PPG sensor, at least one motion sensor, and at least one signal processor configured to process signals from the at least one motion sensor and signals from the at least one PPG sensor to reduce motion artifacts from the PPG signals;  
 wherein the housing comprises at least one window that optically exposes the at least one PPG sensor to a body of a subject wearing the device, and wherein the housing comprises non-air light transmissive material in optical communication with the at least one PPG sensor and the window.



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