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2		SpecificationClaimsAbstract.pdf	183915 0155b4814347dcd8f69bf60f47b7cdee0a9e0348	yes	33
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	Specification		1	28	
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3	Drawings-only black and white line drawings	Drawings.pdf	3602357 e7daba2dda0e9063f700a0c717c3eed29763ce80	no	7
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## **ADAPTIVE WATCH**

### **CROSS-REFERENCE TO RELATED APPLICATION**

[01] This application is a continuation of U.S. Patent Application No. 12/498,197 filed July 6, 2009, which is a divisional application of and claims priority to co-pending U.S. Patent Application Number 11/690,766, which was filed in the U.S. Patent and Trademark Office on March 23, 2007 and is entitled “Adaptive Watch,” which is a divisional application of U.S. Patent Application Number 10/417,796, which was filed in the U.S. Patent and Trademark Office on April 17, 2003 and is entitled “Adaptive Watch.” Each of these patent applications is entirely incorporated herein by reference.

### **FIELD OF THE INVENTION**

[02] Various aspects of the invention relate to an adaptive watch for athletic use. More particularly, various aspects of the invention relate to a watch or other portable electronic console that allows a user to connect the watch to one or more sensors or other remote electronic devices, such as a heart rate monitor, a speed/distance monitor, a blood pressure monitor, a global positioning device or even a digital music player, such that the watch displays information relating to the connected electronic devices. With particular regard to use with a speed/distance monitor, some aspects of the invention relate to a watch that allows a user to manually change a calibration variable for the speed/distance monitor. Still further, some aspects of the invention relate to a watch that allows the user to configure the display of the information provided by the watch, while still other aspects of the invention relate to a watch that enters into a power save mode when not in use. Various aspects of the invention also relate to a watch that automatically calculates various heart rate zones for a user. Additionally, some aspects of the invention relate to a watch that provides a plurality of different operational modes, with each operational mode including two or more different submodes of operation.

## BACKGROUND OF THE INVENTION

- [03] In order to analyze their performance in a quantifiable manner, athletes will often measure various performance indicators. One class of performance indicators includes time parameters corresponding to an athlete's travel over a distance. For example, a runner may measure the total elapsed time required to run a distance, the elapsed time required to run a segment of a distance, and/or the average time required to run equal segments of a distance. Another class of performance indicator relates to the athlete's own physical parameters. Thus, an athlete may measure his or her heart rate, body temperature, blood pressure, or volumetric expansion of his or her lungs while performing an activity like running or biking.
- [04] To address the needs of such athletes, some watchmakers manufacture watches that work with a remote sensor device to measure one or more of these performance indicators. For example, some watchmakers manufacture watches that work with a distance monitor. The distance monitor may employ, for example, an accelerometer for measuring each step taken by an athlete. From this information, the monitor (or the associated watch) calculates the distance traveled by a user during a measured time. The watch then displays the measured distance and time. Some watchmakers also manufacturer watches that work with a heart rate monitor. The monitor rests on the user's chest, and electronically detects each of the user's heartbeats. The watch then displays the heart rate measured by the heart rate monitor.
- [05] Currently, however, these watches are configured to work with only specific sensors. Thus, if a user with a watch employing a speed/distance monitor also wishes to monitor his or her heart rate or monitor his or her blood pressure, the user cannot add a heart rate monitor or blood pressure monitor for use with his or her watch. Instead, the athlete must separately purchase and use a different watch with a heart rate monitor or blood pressure monitor. If the athlete then desires to measure a third performance indicator, the athlete must separately purchase and use yet another watch with the appropriate sensor. Accordingly, an athlete who wishes to measure multiple performance indicators must

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