

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claim 1 (previously presented): An exercise monitoring system, comprising:

- (a) a data acquisition unit comprising an electronic positioning device and a physiological monitor, said data acquisition unit configured to be worn by a subject performing a physical activity; and
- (b) a display unit configured for displaying real-time data provided by said electronic positioning device and said physiological monitor, said display unit separate from said data acquisition unit;

wherein said display unit is configured to be worn by the subject, worn by someone other than the subject, or attached to an apparatus associated with the physical activity being performed by the subject so as to be visible to the subject while performing the physical activity, and further wherein said system is configured such that said display unit displays real-time data comprising at least one of a subject's location, altitude, velocity, pace, and distance traveled.

Claim 2 (original): The exercise monitoring system of claim 1, wherein said electronic positioning device is configured to receive electromagnetic signals from three or more sources so that said monitoring system can determine at least one of a subject's location, altitude, velocity, pace, and distance traveled.

Claim 3 (previously presented): The system of claim 1, wherein said electronic positioning device comprises a GPS device.

Claim 4 (original): The system of claim 1, wherein said physiological monitor is chosen from the group consisting of: an oximeter and a heart rate monitor.

Claim 5 (original): The system of claim 4, wherein said electronic positioning device comprises a GPS device.

Claim 6 (canceled)

⁶
Claim ~~7~~ (previously presented): The system of claim 1, wherein said electronic positioning device comprises a GPS device, and further wherein said data acquisition unit further comprises a support member, and said GPS device and said physiological monitor are provided on said support member.

⁷
Claim ~~8~~ (original): The system of claim ~~7~~⁶, wherein said GPS device and said physiological monitor are removably secured to said support member.

⁸
Claim ~~9~~ (previously presented): The system of claim 1, wherein said data acquisition unit is configured to be worn about a human user's waist.

⁹
Claim ~~10~~ (previously presented): The system of claim 1, wherein said data acquisition unit is configured to be worn about a human user's chest.

¹⁰
Claim ~~11~~ (original): The system of claim 1, wherein said display unit is configured to be worn about a human user's wrist.

¹¹
Claim ~~12~~ (original): The system of claim 1, wherein said display unit is configured to be mounted to a bicycle.

Claim 13 (canceled)

¹²
Claim ~~14~~ (original): The system of claim 1, wherein said physiological monitor includes a probe configured for acquiring physiological data from a user.

¹³
Claim ~~15~~ (original): The system of claim 4, wherein said physiological monitor comprises an oximeter.

¹⁴
Claim ~~16~~ (original): The system of claim 4, wherein said physiological monitor comprises a heart rate monitor.

¹⁵
Claim ~~17~~ (original): The system of claim 1, wherein said system further comprises an alarm which is activated when data provided by at least one of said electronic

positioning device and said physiological monitor does not meet a predetermined target.

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Claim ~~18~~ (currently amended): An exercise monitoring system, comprising:

- (a) an electronic positioning device configured to receive electromagnetic signals from three or more sources so that said monitoring system can determine at least one of a subject's velocity or pace, wherein said electronic positioning device is provided as part of a data acquisition unit;
- (b) a physiological monitor;
- (~~b~~)(c) a display unit configured to be worn by a user and for simultaneously displaying real-time data provided by said electronic positioning device and said physiological monitor, wherein said display unit is separate from said electronic positioning device; and
- (~~e~~)(d) an alarm, wherein said alarm is activated when a subject's velocity or pace does not meet a predetermined target.

Claims 19-59 (canceled)

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Claim ~~60~~ (previously presented): The exercise monitoring system of claim 1, wherein said display unit comprises a heads-up type display unit configured to display said data by projecting the data onto glasses, goggles or a visor, or by projecting the data onto a display screen positioned such that the data will be visible to a user.

Claim 61 (canceled)

18

Claim ~~62~~ (previously presented): The exercise monitoring system of claim 1, wherein said system is configured such that the display unit simultaneously displays: at least one of a subject's velocity, pace and distance traveled; and physiological data provided by said physiological monitor.

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Claim ~~63~~ (previously presented): The exercise monitoring system of claim 1, wherein said system further comprises at least one memory, and at least one

processor for processing acquired data in accordance with instructions stored in said at least one memory.

²⁰
Claim ~~64~~ (previously presented): The exercise monitoring system of claim ~~68~~,¹⁹ wherein said data acquisition unit includes memory, and at least one processor for processing acquired data in accordance with instructions stored in said memory of the data acquisition unit, and further wherein said display unit includes memory, and at least one processor for processing acquired data in accordance with instructions stored in said memory of the display unit.

²¹
Claim ~~65~~ (previously presented): The exercise monitoring system of claim ~~63~~,¹⁹ wherein said at least one memory is configured for storing acquired data for later retrieval.

²²
Claim ~~66~~ (previously presented): The exercise monitoring system of claim 1, wherein said display unit is configured for communication with said data acquisition unit via a wired or wireless link, such that data indicative of at least one of a subject's velocity or pace can be transmitted to said display unit.

²³
Claim ~~67~~ (previously presented): The exercise monitoring system of claim ~~66~~,²² wherein said display unit is configured for communication with said data acquisition unit via radio waves.

²⁴
Claim ~~68~~ (previously presented): The exercise monitoring system of claim 1, wherein said system is configured for computing a subject's workload based on the subject's velocity and altitude changes, and displaying the computed workload.

²⁵
Claim ~~69~~ (previously presented): The exercise monitoring system of claim ~~68~~,²⁴ wherein said system is configured for the input of a subject's weight, and said system is configured for computing a subject's workload based on the subject's velocity, altitude changes and inputted weight.

²⁶
 Claim ~~70~~ (previously presented): The exercise monitoring system of claim 1, wherein said system is configured for electrical communication with an external computer such that acquired data may be stored in the computer.

²⁷
 Claim ~~71~~ (previously presented): The exercise monitoring system of claim ~~11~~¹⁵, wherein said physiological monitor comprises an oximeter, and wherein said system is configured such that said alarm is activated when a subject's blood oxygen level does not meet a predetermined target.

²⁸
 Claim ~~72~~ (previously presented): The exercise monitoring system of claim ~~71~~²⁷, wherein said system is configured such that a plurality of predetermined targets for blood oxygen level may be input into said system.

¹⁶
 Claim ~~73~~ (previously presented): The exercise monitoring system of claim 1, wherein said physiological monitor comprises an oximeter, and wherein said system is configured for computing and displaying the time variability of a subject's blood oxygen level.

²⁰
 Claim ~~74~~ (previously presented): The exercise monitoring system of claim ~~18~~²⁹, wherein said electronic positioning device comprises a GPS device.

Claim 75 (canceled)

³¹
 Claim ~~76~~ (previously presented): The exercise monitoring system of claim ~~74~~³⁰, wherein said data acquisition unit further comprises a support member, and said GPS device is removably secured to said support member.

³²
 Claim ~~77~~ (new): The exercise monitoring system of claim ~~18~~²⁹, wherein said physiological monitor comprises a heart rate monitor configured to be worn about a subject's chest and to wirelessly transmit data indicative of a subject's heart rate to said display unit.