UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.,

Petitioner,

v.

OMNI MEDSCI, INC.,

Patent Owner.

Patent No. 9,651,533

IPR2019-00913

DECLARATION OF BRIAN ANTHONY, PH. D. REGARDING U.S. PATENT NO. 9,651,533

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4. Claim 13 44

a) Preamble 45

b) "a wearable measurement device for measuring one or more physiological parameters" 46

(1) "including a light source comprising a plurality of semiconductor sources that are light emitting diodes" 46

(2) "the light emitting diodes configured to generate an output optical beam with one or more optical wavelengths".....47

(3) "wherein at least a portion of the one or more optical wavelengths is a near-infrared wavelength between 700 nanometers and 2500 nanometers" 48

(4) "the light source configured to increase signal-to-noise ratio by increasing a light intensity from at least one of the plurality of semiconductor sources" 48

(5) "and by increasing a pulse rate of at least one of the plurality of semiconductor sources" 50

c) "the wearable measurement device comprising a plurality of lenses configured to receive a portion of the output optical beam and to deliver an analysis output beam to a sample" ...54

d) "the wearable measurement device further comprising a receiver configured to receive and process at least a portion of the analysis output beam reflected or transmitted from the sample and to generate an output signal".....55

e) "wherein the wearable measurement device receiver is configured to be synchronized to pulses of the light source" 56

f) "a personal device comprising a wireless receiver, a wireless transmitter, a display, a microphone, a speaker, one or more buttons or knobs, a microprocessor and a touch screen," 58

(1) "the personal device configured to receive and process at least a portion of the output signal," 62

(2) "wherein the personal device is configured to store and display the processed output signal".....63

(3) "and wherein at least a portion of the processed output signal is configured to be transmitted over a wireless transmission link;" 64

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g) "and a remote device configured to receive over the wireless transmission link an output status comprising the at least a portion of the processed output signal,".....65

(1) "[the remote device configured] to process the received output status to generate processed data and to store the processed data,".....67

(2) "and wherein the remote device is capable of storing a history of at least a portion of the received output status over a specified period of time.".....70

5. Claim 5.....73

a) Preamble.....74

b) "a light source comprising a plurality of … light emitting diodes …".....74

(1) "the light source configured to increase signal-to-noise ratio by increasing a light intensity from at least one of the plurality of semiconductor sources …." 74

(2) "and by increasing a pulse rate of at least one of the plurality of semiconductor sources" 75

c) "an apparatus comprising a plurality of lenses configured to receive a portion of the output optical beam and to deliver an analysis output beam to a sample" 75

d) "a receiver configured to receive and process at least a portion of the analysis output beam reflected or transmitted from the sample and to generate an output signal,".....75

e) 'wherein the receiver is configured to be synchronized to pulses of the light source" 75

f) "a personal device comprising a wireless receiver, a wireless transmitter, a display, a microphone, a speaker, one or more buttons or knobs, a microprocessor and a touch screen" 75

(3) "the personal device configured to receive and process at least a portion of the output signal wherein the personal device is configured to store and display the processed output signal" 76

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(4) "and wherein at least a portion of the processed output signal is configured to be transmitted over a wireless transmission link"....76

g) "a remote device configured to receive over the wireless transmission link an output status comprising the at least a portion of the processed output signal,"....76

(1) "to process the received output status to generate processed data and to store the processed data."....77

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