Patent Owner Masimo Co
Demonstratives For Tria

Patents-At-Issue

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1. A physiological measurement system comprising:
a physiological sensor device comprising:
   one or more emitters configured to emit light into tissue
      of a user;
   a first set of photodiodes, wherein:
      the first set of photodiodes comprises at least four
         photodiodes,
      the photodiodes of the first set of photodiodes are
         connected to one another in parallel to provide a
         first signal stream, and
      each of the photodiodes of the first set of photo-
         diodes has a corresponding window that allows
         light to pass through to the photodiode;
   a second set of photodiodes, wherein:
      the second set of photodiodes comprises at least four
         photodiodes,
      the photodiodes of the second set of photodiodes are
         connected to one another in parallel to provide a
         second signal stream, and
      each of the photodiodes of the second set of photo-
         diodes has a corresponding window that allows
         light to pass through to the photodiode;

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13. The physiological measurement sy
wherein the protruding convex surface p
between 1 millimeter and 3 millimeters.

17. The physiological measurement sy
wherein the protruding convex surface p
greater than 2 millimeters and less than 1

29. The physiological measurement sys
wherein the protruding convex surface p
greater than 2 millimeters and less than 3

1. A user-worn physiological measurement device that defines a plurality of optical paths, the physiological measurement device comprising:

one or more emitters configured to emit light into tissue of a user;

a first set of photodiodes positioned on a first surface and surrounded by a wall that is operably connected to the first surface, wherein:

the first set of photodiodes comprises at least four photodiodes, and

the photodiodes of the first set of photodiodes are connected to one another in parallel to provide a first signal stream;

a second set of photodiodes positioned on the first surface and surrounded by the wall, wherein:

the second set of photodiodes comprises at least four photodiodes, and

the photodiodes of the second set of photodiodes are connected to one another in parallel to provide a second signal stream; and

a cover locate[d]
protruding [...]
between tiss[ue...]
of photodio[...]
device is wo[...]

wherein the ph[ysiological...]
plurality of [...]
paths:

exits an emi[tter...]
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passes throu[gh...]
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ted by the [...]
correspondin[g...]
paths and af[...]
user.

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