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(12) **United States Patent**
Bagha

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(54) **MULTIPLE COMMUNICATION INTERFACE MEDICAL EXAMINATION APPARATUS, SYSTEM, AND/OR METHOD**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1468 days.

This patent is subject to a terminal disclaimer.

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(51) **Int. Cl.**

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A61B 7/00 (2006.01)
A61B 7/04 (2006.01)
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(52) **U.S. Cl.**

CPC *A61B 7/04* (2013.01); *A61B 5/0002* (2013.01); *A61B 5/0245* (2013.01); *A61B 5/0472* (2013.01); *A61B 7/003* (2013.01)

(58) **Field of Classification Search**

CPC A61B 7/04; A61B 5/0002; A61B 5/0245; A61B 7/003; A61B 5/0472
USPC 181/131; 381/67, 509; 600/300, 513, 600/528, 586

See application file for complete search history.

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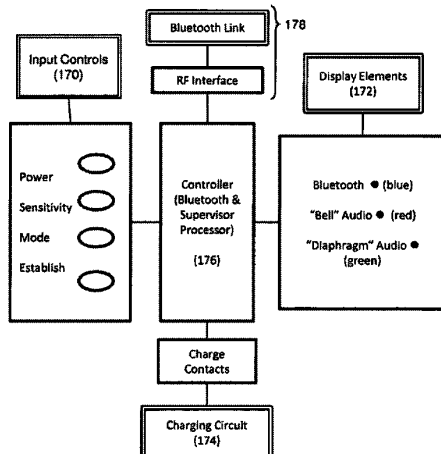
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(57) **ABSTRACT**

An embodiment of an auscultation device can be constructed using, at least in part, electronic components to provide improved acquisition, processing, and communication of sound signals. An input device can be used for detecting sounds, and electrical signals representing the sounds can be processed and transmitted via one or more of a plurality of substantially contemporaneously available wired and/or wireless communications interfaces. Bluetooth and/or another form of wireless communication can be employed. Such embodiments can employ, at least in part, one or more of several commercially available wired and/or wireless receiver devices, such as, without limitation, headsets and headphones, mobile phones, PDAs and/or other handheld devices, desktop, laptop, palmtop, and/or tablet computers, speakers and/or other conventional and/or specifically configured computer devices and/or electronic devices.

6 Claims, 12 Drawing Sheets



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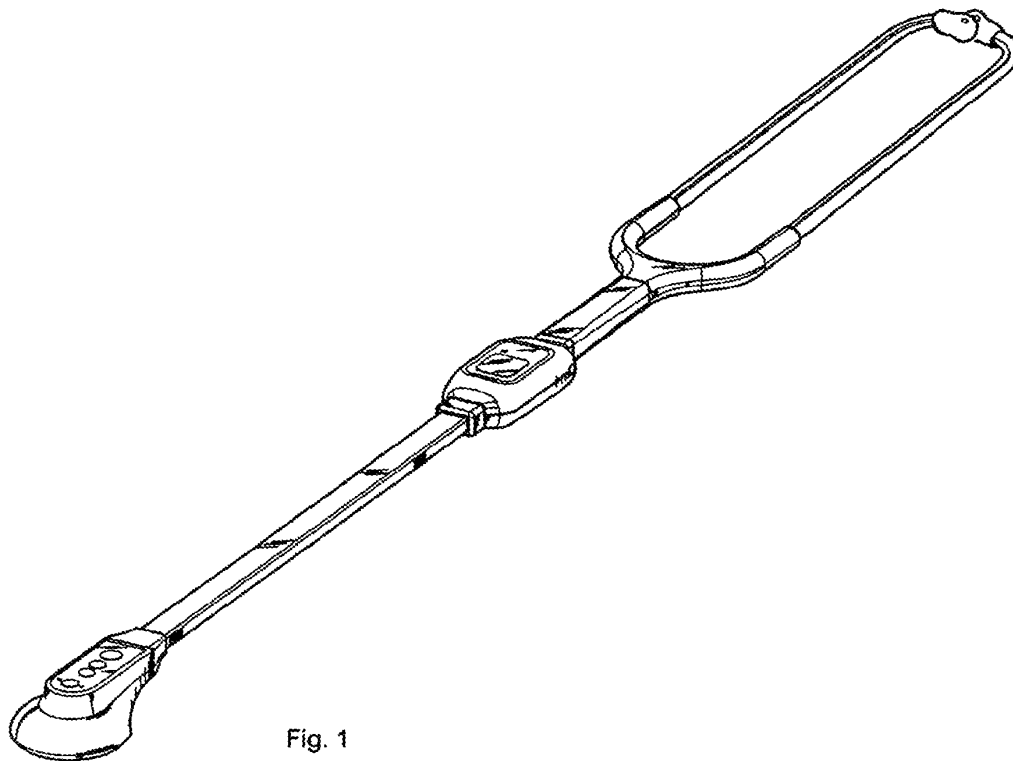
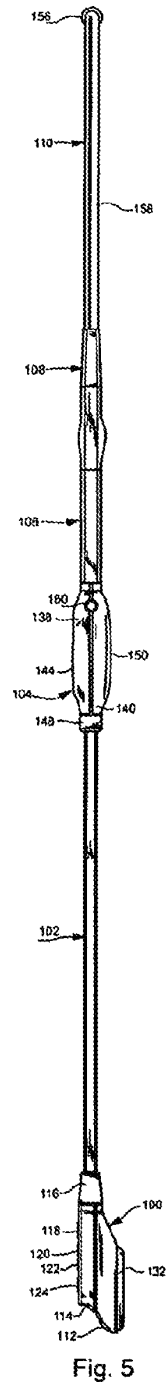
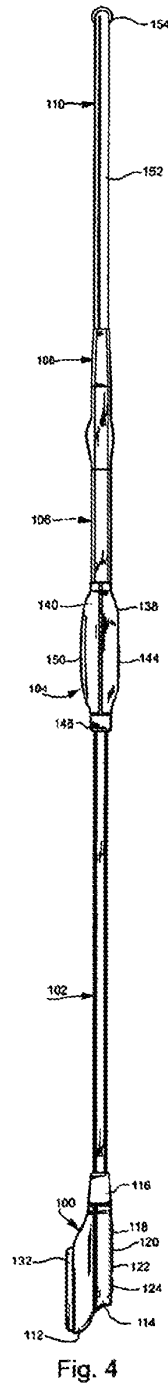
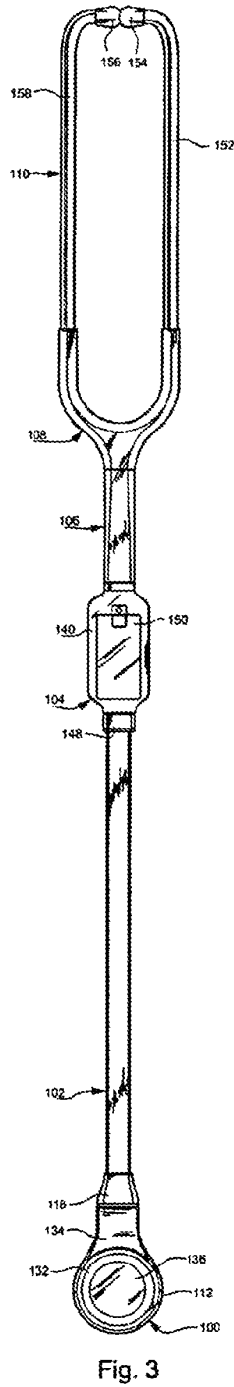
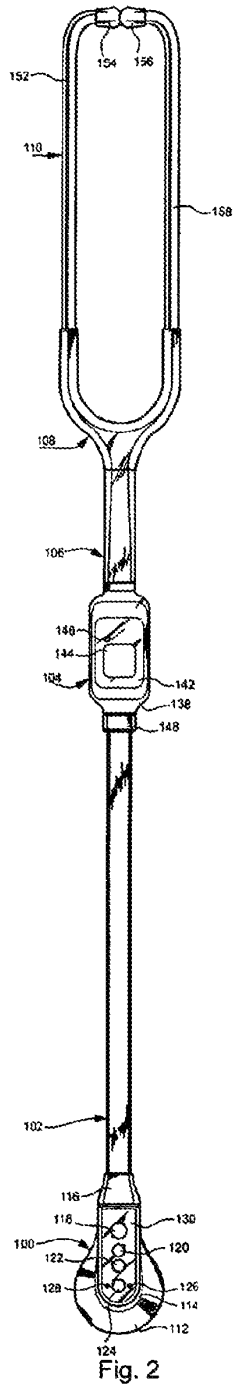


Fig. 1



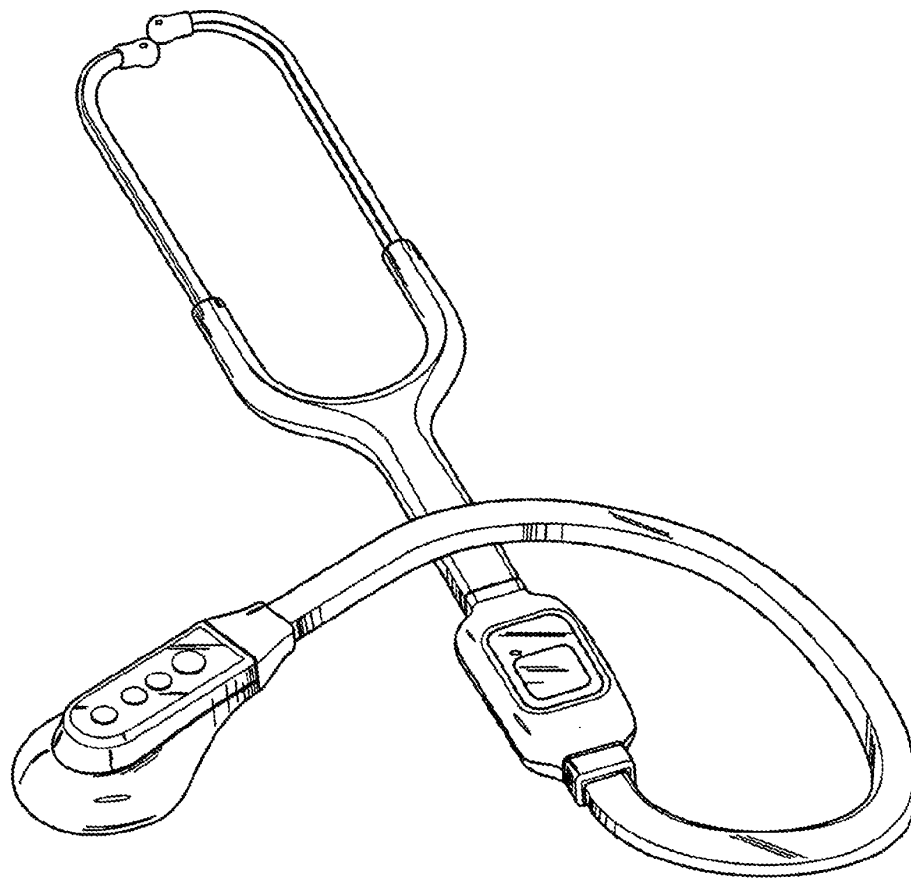


Fig. 8

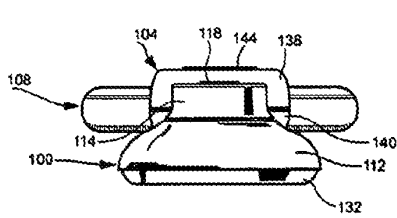


Fig. 6

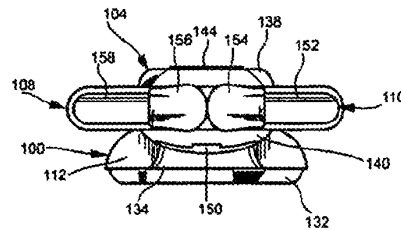


Fig. 7

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