

CLAIMS

1. An apparatus for applying negative pressure to a wound, the apparatus comprising:
a housing;
a negative pressure source configured to provide negative pressure via a fluid flow path to a wound covered by a wound dressing;
a circuit board supported by the housing and comprising a first conductive pathway extending around at least part of a perimeter of a first side of the circuit board, the first conductive pathway being electrically coupled to an electrical ground for the circuit board; and
one or more components mounted on the circuit board, the one or more components being configured to activate and deactivate the negative pressure source,
wherein the first conductive pathway is configured to protect at least some of the one or more components against an electrostatic discharge and
wherein the circuit board comprises a second conductive pathway extending around at least part of a perimeter of a second side of the circuit board opposite the first side and further comprising a plurality of vias electrically connecting the first conductive pathway and the second conductive pathway through the circuit board.
2. The apparatus of claim 1, wherein the first conductive pathway extends around at least half of the perimeter of the first side, and the second conductive pathway extends around at least half of the perimeter of the second side.
3. The apparatus of claim 2, wherein the first conductive pathway extends around at least 75% of the perimeter of the first side, and the second conductive pathway extends around at least 75% of the perimeter of the second side.
4. The apparatus of claim 1, wherein the circuit board comprises at least four layers.
5. The apparatus of claim 1, wherein the circuit board comprises a printed circuit board.
6. The apparatus of claim 1, wherein the circuit board comprises a third conductive pathway extending around at least part of an element on the first side of the circuit board, the third conductive pathway being electrically coupled to the electrical ground.
7. The apparatus of claim 6, wherein the element is a contact of a user interface component.

8. The apparatus of claim 6, wherein the third conductive pathway extends around at least part of a hole through the circuit board.

9. The apparatus of claim 6, wherein the third conductive pathway is electrically coupled to an additional conductive pathway that extends between the circuit board and an outer surface of the housing.

10. The apparatus of claim 1, wherein the one or more components is configured to continue to activate and deactivate the negative pressure source subsequent to the wound dressing being exposed to a defibrillation shock while the negative pressure source is maintaining negative pressure below a negative pressure threshold.

11. The apparatus of claim 1, wherein the one or more components is further configured to output an alarm indicating presence of a leak in the fluid flow path or that pressure in the fluid flow path failed to satisfy a desired pressure threshold, the one or more components being further configured to not erroneously output the alarm as a result of the wound dressing being exposed to a defibrillation shock while the negative pressure source is maintaining negative pressure below a negative pressure threshold.

12. The apparatus of claim 1, wherein the one or more components is further configured to transmit first data to an electronic device or receive second data from the electronic device.

13. The apparatus of claim 1, wherein the negative pressure source is configured to perform negative pressure therapy when a magnitude of negative pressure under the wound dressing is maintained below a negative pressure threshold.