CLAIMS

1. A wound dressing apparatus comprising:
a wound contact layer configured to be positioned in contact with a wound; a first cover layer positioned over the wound contact layer;
one or more spacer layers positioned between the wound contact layer and the first cover layer, wherein a spacer layer is positioned on an upper surface of the wound contact layer;
an absorbent layer positioned over the spacer layer positioned on the upper surface of the wound contact layer;
a negative pressure source configured to be in fluid communication with the wound, the negative pressure source configured to draw wound fluid through the one or more spacer layers into the absorbent layer, wherein the negative pressure source is located in:
a pocket or chamber defined between the first cover layer and a second cover layer placed over the first cover layer; and a first filter provided in a flow path between the negative pressure source and the wound contact layer.

2. The wound dressing apparatus of Claim 1, wherein the negative pressure source is further located in a recess in the absorbent layer.

3. The wound dressing apparatus of any of the preceding claims, wherein the absorbent layer is positioned between the wound contact layer and the first cover layer.

4. The wound dressing apparatus of any of the preceding claims, wherein the first filter is located in the first cover layer.

5. The wound dressing apparatus of Claim 1, comprising a spacer layer or absorbent layer between the first cover layer and the second cover layer.

6. The wound dressing apparatus of Claim 1 or 5, further comprising a second filter in the second cover layer.

7. The wound dressing apparatus of any of the preceding claims, further comprising a third cover layer positioned over the second cover layer, the third cover layer defining a chamber between the second cover layer and the third cover layer.

8. The wound dressing apparatus of Claim 7, further comprising a further absorbent and/or spacer layer within the chamber defined between the second cover layer and the third cover layer.

9. The wound dressing apparatus of Claim 7 or 8, further comprising a third filter in the third cover layer.

10. The wound dressing apparatus of any of the preceding claims, wherein the first cover layer is positioned on an upper surface of the absorbent layer.

11. The wound dressing apparatus of any of the preceding claims, wherein the first cover layer is sealed to the wound contact layer.

12. The wound dressing apparatus of any of the preceding claims, comprising one or more ultrasonic oscillators.

13. The wound dressing apparatus of any of the preceding claims, wherein the one or more spacer layers comprise a recess or pouch for receiving the absorbent layer and/or the negative pressure source.

14. The wound dressing apparatus of any of the preceding claims, comprising a pressure fuse configured to discontinue operation of the negative pressure source if the pressure exceeds a threshold pressure.

15. The wound dressing apparatus of any of the preceding claims, further comprising channels around a perimeter of the absorbent layer and across a middle of the absorbent layer to expose portions of an underlying spacer layer.

16. The wound dressing apparatus of any of the preceding claims, further comprising a tube filled with magnetic fluid for creating negative pressure in the apparatus.

17. The wound dressing apparatus of any of the preceding claims, wherein electronic components associated with the negative pressure source are positioned in separate recesses within the absorbent layer and/or spacer layers.