

CLAIMS

1. A canister for a mobile negative pressure wound therapy (NPWT) device associated with a user, the canister adapted to be in fluid communication with a wound site and
5 capable of receiving fluids from the wound site, wherein the canister comprises:

- an inlet port fluidly coupled to an inner volume of the canister at a first position,
- an outlet port fluidly coupled to the inner volume of the canister at a second
position, the second position being arranged at a preset distance from the first position,

- a filter member arranged in a vicinity of the outlet port, and

- a liquid absorbent material arranged inside a portion of the inner volume of the
10 canister, the liquid absorbent material adapted to collect a liquid from the wound site,
wherein:

- the canister further comprises a bypass member formed as a recess in the wall of the
canister,

- the liquid absorbent material is spaced apart from the filter member such that a
15 space (317) is formed there-between, and

- the bypass member is arranged to fluidly connect the inlet port with the space
between the filter member and the liquid absorbent material to at least partly allow passage of air
from the inlet port to the space between the filter member and the liquid absorbent material.

2. The canister according to claim 1, wherein the canister further comprises a spacer
arranged between the liquid absorbent material and the filter member.

3. The canister according to claim 2, wherein the spacer at least partly enclosing the
25 space formed between the filter member and the liquid absorbent material.

4. The canister according to any one of claims claim 2 and 3, wherein the spacer
comprises a plurality of separated finger portions.

5. The canister according to claim 2, wherein the canister comprises a top portion and
a bottom portion, and the spacer encircles the outlet port and extends a predetermined distance from
the filter member in a direction from the top portion towards the bottom portion of the canister.

6. The canister according to claim 5, wherein the predetermined distance is up
35 to 1 cm.

7. The canister according to any one of the preceding claims, further comprising a filter chamber fluidly connected to the outlet port, wherein the filter member covers a portion of the filter chamber.

5 8. The canister according to claim 7, wherein the filter chamber has an oval shape.

9. The canister according to any one of the preceding claims, wherein the filter member comprises a hydrophobic membrane.

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10. The canister according to claim 1, wherein the bypass member is formed as a recess in the wall of the canister.

11. The canister according to any one of claim 1 – 9, wherein the bypass
15 member is arranged as a tubular element.

12. The canister according to claim 11, wherein the tubular element is arranged to pass through or around the liquid absorbent material.

20 13. The canister according to any one of the preceding claims, wherein the liquid absorbent material comprises a hydrophilic polyurethane foam.

14. The canister according to any one of the preceding claims, wherein the liquid absorbent material is a hydrophilic sheet.

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15. The canister according to claim 14, wherein the hydrophilic sheet is folded within the canister.

16. The canister according to any one of the preceding claims, further
30 comprising a baffle arranged between the inlet port and the liquid absorbent material.

17. The canister according to any one of the preceding claims, wherein the inner volume of the canister is between 50 – 300 ml, preferably arranged to collect at least 25 ml of the liquid from the wound site.

18. The canister according to any one of the preceding claims, wherein a tongue portion of the liquid absorbent material is arranged to extend in a direction towards the inlet port and is adapted to be separated from the inlet port with a predetermined separation distance.

19. The canister according to claim 18, wherein the predetermined distance is selected within a range of 5 – 20 mm.

20. A mobile negative pressure wound therapy (NPWT) device, wherein the NPWT device comprises a canister according to any one of the preceding claims.

21. The NPWT device according to claim 20, wherein the canister is detachably connected to the housing.

22. A mobile negative pressure wound therapy (NPWT) device, comprising:

- a housing,
- a negative pressure pump arranged within the housing,
- a canister having an inlet port and an outlet port, wherein the inlet and the outlet port fluidly coupled to an inner volume of the canister, and the outlet port is fluidly connected to the negative pressure pump, wherein the inlet port is adapted to be fluidly connected to a wound cover, the wound cover provided for creating a sealed space defined in part by a wound site,

- a battery arranged within the housing, the battery provided for powering the NPWT device, and

- a control unit arranged within the housing, the control unit electrically connected to the battery and adapted to control an operation of the negative pressure pump to selectively establish a negative pressure within the sealed space,

wherein the canister comprises:

- a filter member arranged in a vicinity of the outlet port,
- a liquid absorbent material arranged inside a portion of the inner volume of the canister, the liquid absorbent material adapted to collect a liquid from the wound site,
- the liquid absorbent material is spaced apart from the filter member such that a space is formed there-between, and

- a bypass member formed as a recess in the wall of the canister and adapted to fluidly connect the inlet port with the space between the filter member and the liquid absorbent material to at least partly allow passage of air from the inlet port to the space between the filter member and the liquid absorbent material.

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23. The NPWT device according to claim 22, wherein the canister is detachably connected to the housing.

24. A wound treatment system, comprising:

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- an NPWT device according to any one of claims 22 – 23, and
- a wound cover.