Claims

1. A medical infusion device (1) comprising
   - a reservoir (2) that is configured for holding a liquid medicament,
   - a cannula assembly (3),
   - a fluid line (4) that is in fluid communication with the reservoir (2) and the cannula assembly (3),
   - a drive mechanism (5),
   - a dispensing member (6) that when being actuated by the drive mechanism (5) dispenses liquid medicament out of the reservoir (2) through the fluid line (4) and the cannula assembly (3), and
   - a leakage determining module (7) that is configured for determining leakage of the liquid medicament out of at least one of the reservoir (2), the fluid line (4) or the cannula assembly (3),

   wherein
   - the leakage determining module (7) comprises an electronic probe (8) that is configured for receiving odor molecules and/or flavor molecules of the liquid medicament and in that the leakage determining module (7) further comprises evaluation electronics (9) that is configured to determine presence of odor and/or flavor of the liquid medicament based on readings of the at least one electronic probe (8).

2. The medical infusion device (1) according to claim 1, wherein the at least one electronic probe (8) is located at one or more locations on or at the outside of the reservoir (2), and/or at one or more locations on or at the outside of the cannula assembly (3), and/or at one or more locations on or at the outside of the fluid line (4).

3. The medical infusion device (1) according to claim 1 or 2, wherein the medical infusion device (1) comprises at least one drain channel (10) that is configured for guiding liquid medicament that is leaking from at least one of the reservoir (2), the fluid line (4) or the cannula assembly (3) towards the at least one electronic probe (8).

4. The medical infusion device (1) according to any one of claims 1 to 3, wherein the medical infusion device (1) comprises at least one drain chamber (11) that is configured for collecting liquid medicament that is leaking out of at least one of the reservoir (2), fluid line (4) or cannula assembly (3), wherein the drain chamber (11) comprises the at least one electronic probe (8) of the leakage determining module (7).

5. The medical infusion device (1) according to any one of claims 1 to 4, wherein the leakage determining module (7) comprises at least one electronic reference probe (12) that is configured and arranged for receiving odor molecules and/or flavor molecules of the liquid medicament outside of the medical infusion device (1) and wherein the evaluation electronics (9) is further configured to determine presence of odor and/or flavor of the liquid medicament based on readings of the at least one electronic reference probe (12) and the readings of the at least one electronic probe (8).

6. The medical infusion device (1) according to any one of claims 1 to 5, wherein the medical infusion device (1) comprises a user interface (13) that is configured to indicate to the user of the medical infusion device (1) presence of a leakage of liquid medicament based on the determination of the leakage determining module (7).

7. The medical infusion device (1) according to any one of claims 1 to 6, wherein the medical infusion device (1) comprises a disposable portion (1a) and a reusable portion (1b), wherein the disposable portion (1a) comprises at least the reservoir (2), the fluid line (4), the cannula assembly (3) and the at least one electronic probe (8) of the leakage determining module (7) and/or the at least one electronic reference probe (12) of the leakage determining module (7).

8. The medical infusion device (1) according to claim 7, wherein the reusable portion (1b) comprises the evaluation electronics (9).

9. The medical infusion device (1) according to claim 7, wherein the disposable portion (1a) comprises the evaluation electronics (9).

10. The medical infusion device (1) according to any one of claims 1 to 9, wherein the leakage determining module (7) is reversibly separable from the medical infusion device (1).

11. The medical infusion device (1) according to any one of claims 1 to 10, wherein the evaluation electronics (9) is configured to pause determining a leakage of liquid medicament out of at least one of the reservoir (2), the fluid line (4) or the cannula assembly (3) for a predetermined period of time subsequent to a determination of a leakage of liquid medicament out of at least one of the reservoir (2), the fluid line (4) or the cannula assembly (3).

12. The medical infusion device (1) according to any one of claims 1 to 11, wherein the at least one electronic probe (8) and/or the at least one electronic reference probe (12) comprises a gas-permeable membrane (13) that is permeable for gaseous odor molecules and/or gaseous flavor

molecules of the liquid medicament and impermeable for liquid components of the liquid medicament.

13. The medical infusion device (1) according to any one of claims 1 to 12, wherein the medical infusion device (1) is a body-wearable medical infusion pump, preferably a body-wearable medical patch pump.

14. A medical infusion system comprising a medical infusion device and a remote control (17), wherein the medical infusion device comprises a reservoir (2) that is configured for holding a liquid medicament, a cannula assembly (3), a fluid line (4) that is in fluid communication with the reservoir (2) and the cannula assembly (3), a drive mechanism (5), and a dispensing member (6) that when being actuated by the drive mechanism (5) dispenses liquid medicament out of the reservoir (2) through the fluid line (4) and the cannula assembly (3), wherein the medical infusion device is operatively coupled to the remote control (17), wherein
the remote control (17) comprises a leakage determining module (7) that is configured to determine leakage of the liquid medicament out of at least one of the reservoir (2), the fluid line (4) or the cannula assembly (3) of the medical infusion device, wherein the leakage determining module (7) comprises an electronic probe (8) that is configured for receiving odor molecules and/or flavor molecules of the liquid medicament originated from outside the remote control (17), and an evaluation electronics (9) that is configured to determine presence of odor and/or flavor of the liquid medicament based on readings of the at least one electronic probe (8).