CLAIMS

What is claimed is:

1. An infusion set comprising:

a base having an opening to receive a cannula device, the base comprising a lower base part, and an upper base part, wherein the upper base part is coupled to the lower base part and is rotatable relative to the lower base part; and

a connector comprising a fluid connector tube;

wherein the connector prevents the upper base part from substantially rotating relative to the lower base part and the fluid connector tube is in fluid connection with the cannula device when the connector is coupled to the base,

wherein the upper base part comprises rotation guides, wherein the rotation guides receive the lower base part to keep the upper base part connected to the lower base part and guide the rotation of the upper base part relative to the lower base part.

2. The infusion set of claim 1, wherein the lower base part does not substantially move once the cannula device is in place.

3. The infusion set of any one of claims 1-2, wherein the cannula device guides the connector in
place when the connector is coupled to the base.

4. The infusion set of any one of claims 1-3, wherein the upper base part is rotatable at 360 degrees relative to the lower base part.

5. The infusion set of any one of claims 1-2, wherein the upper base part is rotatable to a user-friendly position and the connector is coupled to the base to lock the upper base part in the user-friendly position.

6. The infusion set of any one of claims 1-5, wherein the connector comprises at least one snap hook, wherein the snap hook secures the connector to the base when the connector is coupled to the base.

7. The infusion set of ~~any one of~~ claim~~s~~ ~~2-~~6, wherein the lower base part comprises a guiding
protrusion, wherein the guiding protrusion abuts the snap hook of the connector when the connector is coupled to the base.

8. The infusion set of claim 7, wherein the lower base part comprises at least one guiding protrusion.

9. The infusion set of claim 7, wherein the lower base part comprises at least three guiding protrusions.

10. The infusion set of claim 7, wherein the guiding protrusions are radially symmetric.

11. The infusion set of any one of claims 1-10, wherein the connector comprises at least one locking protrusion.

12. The infusion set of ~~any one of~~ claim ~~s 1-~~11, wherein the lower base part comprises at least one groove, wherein at least one of the grooves receives the locking protrusion of the connector when the connector is coupled to the base.

13. The infusion set of claim 12, wherein the lower base part comprises at least one groove.

14. The infusion set of claim 12, wherein the lower base part comprises at least three grooves.

15. The infusion set of claim 14, wherein the grooves of the lower base part are radially symmetric.

16. The infusion set of any one of claims 1-15, wherein the upper base part comprises a rotatable connection and the lower base part comprises a rotation groove, wherein the rotatable connection sits and rotates in the rotation groove.

~~17. The infusion set of any one of claims 1-16, wherein the upper base comprises at least one rotation guide, wherein the rotation guide receives the lower base to keep the upper base connected to the lower base and guide the rotation of the upper base relative to the lower base.~~

~~18~~17. The infusion set of any one of claims 1-16~~7~~, wherein the upper base part comprises at least two openings in fluid communication with the cannula device and at least two membranes covering the openings.

~~19~~18. The infusion set of claim ~~18~~17, wherein the membranes comprise an elastomeric material.

~~20~~19. The infusion set of any one of claims 1-~~18~~17, wherein the upper base part comprises at least one o-ring, wherein the o-ring provides a fluid seal between the cannula device and the opening of the base, and/or between the cannula device, the upper base part and the lower base part.

~~21~~20. The infusion set of any one of claims 1-~~20~~19, wherein the cannula device is configured to be inserted into the opening in the base.

~~22~~21. The infusion set of any one of claims 1-~~21~~20, wherein the cannula device comprises ~~a~~an cannula housing, wherein the cannula housing is secured by the lower base part and wherein the upper base part is rotatable relative to the cannula housing.

~~23~~22. The infusion set of claim ~~22~~21, wherein an opening to receive the cannula device in the upper base part decreases in diameter from distal to proximal direction toward the lower base part.

~~24~~23. The infusion set of ~~any one of~~ claim~~s~~ 21 or ~~23~~22, wherein the upper base part and the cannula device maintain a fluid seal when the upper base part rotates relative to the cannula housing.

~~25~~24. The infusion set of any one of claims 1-~~24~~23, wherein the lower base part comprises at least one arm to secure the cannula device.

~~26~~25. The infusion set of any one of claims 1-~~25~~24, wherein the cannula device is not rotated when the upper base part is rotated relative to the lower base part.

~~27~~26. The infusion set of any one of claims 1-~~26~~25, wherein the opening in the base for the cannula device is at or near about the center of the base.

~~28~~27. The infusion set of any one of claims 1-~~27~~26, wherein the opening in the base for the cannula device is off-center of the base.

~~29~~28. The infusion set of any one of claims 1-~~28~~27, wherein the cannula device is placed transdermally through skin of a user.

~~30~~29. The infusion set of any one of claims 1-~~29~~28, wherein the fluid connector tube is stainless steel.

~~31~~30. The infusion set of any one of claims 1-~~30~~29, wherein the connector comprises an opening to receive a connection tube.

~~32~~31. The infusion set of any one of claims 1-~~31~~30, wherein the lower base part comprises an adhesive on a proximal surface, wherein the adhesive secures the base to skin of a user.

~~33~~32. The infusion set of any one of claims 1-~~32~~31, wherein the lower base part comprises a clear portion to provide a view of condition of the skin of the user.

~~34~~33. The infusion set of claim ~~23~~22, wherein the opening to receive the cannula device in the upper base part comprises a tapered coned opening.

~~35~~34. The infusion set of claim ~~31~~30, wherein the connection tube connects to at least one of an insulin pump, an external pump, a wearable pump or combinations thereof.

~~36~~35. An infusion set comprising:

a base having an opening to receive a cannula device, the base comprising a lower base part, and an upper base part, wherein the upper base part is coupled to the lower base part and is rotatable relative to the lower base part;

a cannula device; and

a connector comprising a fluid connector tube;

wherein the connector prevents the upper base part from substantially rotating relative to the lower base and the fluid connector tube is in ~~a~~ fluid connection with the cannula device when the connector is coupled to the base part,

wherein the upper base part comprises rotation guides, wherein the rotation guides receive the lower base part to keep the upper base part connected to the lower base part and guide the rotation of the upper base part relative to the lower base part.