

CLAIMS

What is claimed is:

1. A catheter assembly for organizing a catheter system, comprising:
a molded hub including at least a pair of hub lumens;
a catheter tube coupled to a distal end of the molded hub, the catheter tube including at least a pair of catheter tube lumens;
a plurality of extension legs, each including a distal end coupled to a proximal end of the molded hub, wherein a fluid pathway is formed between the plurality of extension legs and the catheter tube through the pair of hub lumens; and
a securing mechanism configured to secure the plurality of extension legs together, wherein the securing mechanism is a slidable collar positioned over the plurality of extension legs.
2. The catheter assembly according to claim 1, wherein the slidable collar is a permanent collar comprising a length, a width and a height, having a proximal end with a proximal opening, a distal end with a distal opening, with an outer surface and an inner surface.
3. The catheter assembly according to claim 2, wherein the length is greater than or equal to the width, and the width is greater than or equal to the height.
4. The catheter assembly according to either claim 2 or claim 3, wherein the outer surface slopes towards the inner surface at a longitudinal midpoint, and slopes away from the inner surface towards a longitudinal endpoint.
5. The catheter assembly according to any of claims 2-4, wherein the inner surface is configured to create friction with an exterior of the extension legs, wherein the friction resists movement of the slidable collar in an absence of an external force applied to the slidable collar.
6. The catheter assembly according to any of claims 2-5, wherein the proximal opening and the distal opening have a shape configuration of an oval.
7. A catheter assembly for organizing a catheter system comprising:
a molded hub including at least a pair of hub lumens;

a catheter tube coupled to a distal end of the molded hub, the catheter tube including at least a pair of catheter tube lumens;
a plurality of extension legs each including a proximal and a distal end, wherein the distal end of each extension leg is coupled to a proximal end of the molded hub, wherein a fluid pathway is formed between the plurality of extension legs and the catheter tube through the pair of hub lumens; and
a securing mechanism configured to secure the plurality of extension legs together, wherein the securing mechanism is selected from the group consisting of an adhesion bond between the plurality of extension legs, an attachable slidable collar, and a permanent slidable collar.

8. The catheter assembly according to claim 7, wherein the securing mechanism includes the adhesion bond between the plurality of extension legs.

9. The catheter assembly according to either claim 7 or claim 8, wherein the securing mechanism is the attachable slidable collar.

10. The catheter assembly according to claim 9, wherein the attachable slidable collar is detachably coupled to the molded hub.

11. The catheter assembly according to any of claims 7-10, wherein the attachable slidable collar or permanent slidable is positioned over the plurality of extension legs.

12. The catheter assembly according to any of claims 7-11, wherein the securing mechanism is either of the attachable slidable collar or the permanent slidable collar, and wherein the securing mechanism comprises a length, a width, a height, having a proximal end with a proximal opening, a distal end with a distal opening, a longitudinal midpoint, a longitudinal endpoint and with an outer surface and an inner surface.

13. The catheter assembly according to claim 12, wherein the length is greater than or equal to the width, and the width is greater than or equal to the height.

14. The catheter assembly according to either claim 12 or claim 13, wherein the outer surface slopes towards the inner surface at the longitudinal midpoint, then slopes away from the inner surface towards the longitudinal endpoint.

15. The catheter assembly according to any of claims 12-14, wherein the inner surface is configured to create friction with an exterior of the extension legs, wherein the friction resists movement of the attachable slidable collar in an absence of an external force applied to the attachable slidable collar.

16. The catheter assembly according to any of claims 12-15, wherein the proximal opening and the distal opening are oval shaped.

17. The catheter assembly according to any of claims 12-16, wherein the securing mechanism can be separated axially into two separate sections.

18. The catheter assembly according to claim 17, wherein the securing mechanism is joined at the longitudinal midpoints.

19. The catheter assembly according to claim 18, wherein the securing mechanism is joined together by a clasping mechanism.

20. The catheter assembly according to claim 19, wherein the clasping mechanism includes a clasp having a snap hook disposed on a first section and a groove on a second section, wherein the groove is configured to receive the snap hook.

21. The catheter assembly according to claim 18, wherein the securing mechanism is joined together by a first pair of magnets and a second pair of magnets, opposite the first pair of magnets.

22. A method of making a catheter assembly for organizing a catheter system comprising:

obtaining a molded hub including at least a pair of hub lumens, each of the hub lumens having an entry point adjacent or substantially adjacent to another entry point;

obtaining a catheter tube, the catheter tube including at least a pair of catheter tube lumens;

obtaining a plurality of extension legs;

obtaining a securing mechanism for securing the plurality of extension legs together, wherein the securing mechanism is selected from the group

consisting of an adhesion bond, a permanent slidable collar, and an attachable slidable collar;
coupling the catheter tube to a distal end of the molded hub;
coupling a distal end of each of the plurality of extension legs to a proximal end of the molded hub, wherein a fluid pathway is formed between the plurality of extension legs and the catheter tube through the pair of hub lumens;
securing the plurality of extension legs together using the securing mechanism;
and
packaging the catheter assembly into a single use packaging.

23. The method of making a catheter assembly according to claim 22, wherein securing the plurality of extension legs together using the securing mechanism further comprises curing the plurality of extension legs together with heat to create the adhesion bond.

24. The method of making a catheter assembly according to claim 22, wherein securing the plurality of extension legs together using the securing mechanism further comprises coating the plurality of extension legs with an adhesive and curing with heat, pressure, or a combination thereof to create the adhesion bond.

25. The method of making a catheter assembly according to claim 22, wherein securing the plurality of extension legs using the securing mechanism further comprises attaching the permanent slidable collar.

26. The method of making a catheter assembly according to claim 22, wherein securing the plurality of extension legs using the securing mechanism further comprises attaching the attachable slidable collar.