

CLAIMS

1. A catheter system, comprising:
a catheter adapter comprising:
a body;
a nose extending distally from the body, wherein the nose is generally cylindrical;
a strain relief rib disposed on the nose, wherein the strain relief rib is constructed of a flexible material; and
a bump disposed on the strain relief rib; and
a catheter secured within the catheter adapter and extending distally beyond the nose.
2. The catheter system of claim 1, wherein the catheter adapter further comprises another bump disposed on the strain relief rib.
3. The catheter system of claim 2, wherein the strain relief rib, the bump, and the other bump are monolithically formed as a single unit.
4. The catheter system of claim 2, wherein the bump is aligned with the other bump.
5. The catheter system of claim 4, wherein the bump is distal to the other bump.
6. The catheter system of claim 1, wherein the distal end of the bump comprises a first side and a second side proximate the strain relief rib, wherein the first side and the second side are angled toward each other.
7. The catheter system of claim 1, wherein a height of a distal end of the bump decreases in a distal direction.

8. The catheter system of claim 1, wherein the strain relief rib and the bump are disposed on a bottom of the catheter assembly and aligned with a longitudinal axis of the catheter adapter.
9. The catheter system of claim 1, wherein the bump is constructed of the flexible material.
10. The catheter system of claim 9, wherein the catheter adapter further comprises another bump disposed on the strain relief rib and aligned with the bump, wherein the other bump is constructed of the flexible material.
11. The catheter system of claim 1, further comprising a needle assembly, comprising a needle hub and an introducer needle secured within the needle hub and extending through the catheter, wherein the needle hub is coupled to the catheter adapter.
12. The catheter system of claim 1, further comprising a needle cover removably coupled to the catheter assembly, wherein an inner surface of the needle cover comprises a plurality of ribs and contacts the bump.
13. The catheter system of claim 12, wherein the needle cover is removably coupled to the catheter assembly via a friction fit.
14. The catheter system of claim 12, wherein the needle cover is tubular.
15. The catheter system of claim 12, wherein the catheter assembly further comprises another bump disposed on the strain relief rib and aligned with the bump, wherein the inner surface of the needle cover comprises a plurality of ribs and contacts the other bump.
16. The catheter system of claim 1, wherein the flexible material comprises an elastomer.

17. The catheter system of claim 1, wherein the nose is constructed of a rigid or semi-rigid material.
18. The catheter system of claim 1, wherein the strain relief rib is generally aligned with a longitudinal axis of the catheter assembly.
19. The catheter system of claim 1, wherein a distal end of the nose is coupled to a strain relief element at least partially surrounding the catheter and constructed of the flexible material.
20. A catheter system, comprising:
 - a catheter adapter comprising a body and a nose extending distally from the body, wherein the nose is generally cylindrical;
 - a catheter secured within the catheter adapter and extending distally beyond the nose; and
 - a needle cover removably coupled to the catheter assembly, wherein an inner surface of the needle cover comprises a plurality of ribs.