

CLAIMS

1. A needle subassembly comprising:
 - a needle including a shaft having a magnetized portion, wherein the needle is magnetized during the manufacture process;
 - a sterile, disposable cover sized to provide a protective closure over the magnetized portion of the shaft; and
 - a shielding material composed of 77% nickel, 16% iron, 5% copper and 2% chromium or molybdenum that prevents the magnetized portion of the shaft from being de-magnetized upon exposure to external static magnetic fields, when the cover is positioned to cover the shaft.
2. The needle subassembly of claim 1, wherein the shielding material is a highly conductive material that prevents the magnetized portion of the shaft from being de-magnetized upon exposure to a high frequency magnetic field.
3. The needle subassembly of claim 1, wherein the shielding material has a high magnetic permeability.
4. The needle subassembly of claim 3, wherein the shielding material includes a ferromagnetic metal coating.
5. The needle subassembly of claim 1, wherein the shielding material includes a highly conductive material and includes a ferromagnetic metal coating.
6. The needle subassembly of claim 5, wherein the highly conductive material comprises copper.
7. The needle subassembly of claim 1, wherein the cover is selected from a needle cover, catheter packaging or a shipping container.
8. The needle subassembly of claim 1, wherein the shielding material is spray-coated onto an interior surface of the cover.

9. The needle subassembly of claim 1, wherein the shielding material is spray-coated onto an exterior surface of the cover.
10. The needle subassembly of claim 1, wherein the shielding material is spray-coated onto an interior surface and exterior surface of the cover.
11. The needle subassembly of claim 1, wherein the shielding material is insert-molded into the cover.
12. The needle subassembly of claim 1, wherein the cover is molded from a plastic having conductive additives.
13. The needle subassembly of claim 1, wherein the cover is molded from a plastic having magnetic additives.
14. The needle subassembly of claim 1, wherein the cover is made of a magnetic shielding material.
15. The needle subassembly of claim 14, wherein the shielding material is a highly conductive material.
16. The needle subassembly of claim 14, wherein the shielding material has a high magnetic permeability.
17. A medical device comprising:
 - a tissue-penetrating device having a magnetized portion, wherein the tissue penetrating device is magnetized during the manufacture process; and
 - a disposable cover sized to provide a protective closure over the magnetized portion of the tissue-penetrating medical device, wherein the cover comprises a shielding material composed of 77% nickel, 16% iron, 5% copper and 2% chromium or molybdenum that prevents the magnetized portion of the tissue-penetrating medical device from being de-magnetized upon

exposure to external magnetic and/or electromagnetic fields when the cover is positioned to cover the tissue-penetrating medical device.

18. The medical device of claim 17, wherein the shielding material is a highly conductive material.
19. The medical device of claim 17, wherein the shielding material has a high magnetic permeability.
20. The medical device of claim 17, wherein the shielding material includes a ferromagnetic metal coating.
21. The medical device of claim 17, wherein the shielding material includes a highly conductive material and has a ferromagnetic metal coating.
22. The medical device of claim 17, wherein the shielding material is spray-coated onto a surface of the cover.
23. The medical device of claim 22, wherein the surface of the cover is an interior surface.
24. The medical device of claim 22, wherein the surface of the cover is an exterior surface.
25. The medical device of claim 17, wherein the shielding material is insert-molded into the cover.
26. The medical device of claim 17, wherein the tissue-penetrating device comprises an introducer needle having a length and a tip, and the cover is sized to cover the tip and the length of the introducer needle.
27. The needle subassembly of any one of claims 8 to 10, wherein the shielding material is spray-coated to a thickness of 1/1000th of an inch.