CLAIMS

1. A protective ~~liner~~ barrier positioned within a shipping container, comprising:

a protective liner having an inner surface defining a chamber, an outer surface on an opposing side of the inner surface, and one or more tabs positioned on ~~a perimeter~~ the outer surface of the protective liner, the one or more tabs configured to interlock with a notch on an inner surface of the shipping container; [[and]]

a temperature sensor channel ~~on a side~~ that runs along a longitudinal length of the outer surface of the protective liner and configured to guide a temperature sensor lead wire; and

an accessory holder configured to couple to the protective liner, the accessory holder having a channel extending the longitudinal length of the outer surface and in parallel with the temperature sensor channel.

2. The protective ~~liner~~ barrier of claim 1, wherein the protective liner is a ~~thin walled~~ disposable liner that is placed inside the shipping container prior to shipment.

3. The protective ~~liner~~ barrier of claim 1, wherein the temperature sensor channel is configured to protect the temperature sensor lead wire from abrasion when a commodity or product is loaded into or unloaded out of the protective liner.

4. The protective ~~liner~~ barrier of claim 1, wherein the protective liner is flexible or collapsible.

5. The protective ~~liner~~ barrier of claim 1, wherein the one or more tabs interlock with the notch to prevent accidental removal when loading or unloading the shipping container.

6. The protective ~~liner~~ barrier of claim 1, further comprising:

a base positioned at a bottom of the protective liner and having one or more rigid protrusions to form a shape of the protective liner, wherein the base is configured to interlock with [[an]] the accessory holder that is configured to hold one or more accessories.

~~7. A cryogenic storage device, comprising:~~

~~a dewar for storing or transporting cryogenic material, the dewar having an inner surface and a notch on the inner surface;~~

~~a protective barrier positioned within the inner surface of the dewar and configured to prevent contact between cryogenic material stored within the protective barrier and the inner surface of the dewar; and~~

~~an accessory holder positioned within the protective barrier and configured to accommodate a plurality of accessories.~~

~~8. The cryogenic storage device of claim 7, wherein the protective barrier has one or more dimples, wherein the accessory holder is configured to snap or fasten to the one or more dimples to prevent accidental removal of the accessory holder.~~

~~9. The cryogenic storage device of claim 7, wherein the protective barrier has a protective liner that includes:~~

~~one or more tabs positioned on a perimeter of the protective liner, the one or more tabs configured to interlock with the notch; and~~

~~a temperature sensor channel on a side of the protective barrier and configured to guide a temperature sensor lead wire.~~

~~10. The cryogenic storage device of claim 9, wherein the protective liner is a thin walled disposable liner that is placed inside the dewar prior to shipment.~~

~~11. The cryogenic storage device of claim 9, wherein the temperature sensor channel is configured to protect the temperature sensor lead wire from abrasion when the cryogenic material is loaded into or unloaded out of the protective liner.~~

~~12. The cryogenic storage device of claim 9, wherein the one or more tabs interlock with the notch to prevent accidental removal when loading or unloading the dewar.~~

~~13. The cryogenic storage device of claim 9, wherein the protective liner is flexible or collapsible.~~

~~14. The cryogenic storage device of claim 9, wherein the dewar has a first transition area positioned between a neck tube and a payload area of the dewar and a second transition area positioned within the neck tube or a top of the dewar.~~

~~15. The cryogenic storage device of claim 14, wherein the one or more tabs include a first row of tabs and a second row of tabs, wherein the first row of tabs snap into the first transition area and the second row of tabs snap into the second transition area.~~

~~16. The cryogenic storage device of claim 7, wherein the protective barrier includes:~~

~~a base positioned at a bottom of the protective barrier and having one or more rigid protrusions to form the shape of the protective barrier, wherein the base is configured to interlock with the accessory holder that is configured to hold the plurality of accessories.~~

~~17. A protective barrier, comprising:~~

~~a protective liner having a base;~~

~~one or more container attachment devices positioned on a perimeter of the protective liner; and~~

~~one or more accessory attachment devices configured to attach to an accessory holder.~~

~~18. The protective barrier of claim 17, wherein the one or more accessory attachment devices are positioned at the base of the protective liner and is integrally formed with the base of the protective liner.~~

~~19. The protective barrier of claim 17, wherein the protective liner is cylindrically shaped and has a diameter of between approximately 8-9 inches or 3-4 inches.~~

~~20. The protective barrier of claim 17, wherein the one or more accessory attachment devices is a connector, a groove, a tab, a lip, a notch, a dimple or other indentation, fastener or protrusion that locks, interlocks, connects or otherwise attaches with the accessory holder, wherein the one or more container attachment devices is a connector, a groove, a tab, a lip, a notch, a dimple or other indentation, fastener or protrusion that locks, interlocks, connects or otherwise attaches with a corresponding barrier attachment device on a shipping container.~~