CLAIMS

1. A cap comprising:

a substantially cylindrically shaped housing having a distal wall, an open proximal end and a sidewall, the sidewall having an inner surface and an outer surface, the inner surface, the distal wall and the open proximal end defining a cavity of the housing;

a substantially cylindrically shaped insert having an open proximal end a closed distal end, the closed distal end defining a distal wall having an inner surface and an outer surface, the insert being removably disposed within the cavity of the housing, the outer surface of the distal wall of the insert abutting the distal wall of the housing;

one or more cantilevered prongs protruding from the inner surface of the insert, the one or more cantilevered prongs having a sidewall, the one or more cantilevered prongs being configured to bend to facilitate interference fit between the insert and a mating feature of a needleless connector;

a cavity of the insert defined by the inner surface of the insert, the sidewall of the one or more cantilevered prongs and the open proximal end of the insert; and

an absorbent material having a disinfectant absorbed within the absorbent material,

characterized in that

one or more ledges extending perpendicularly at essentially a right angle from the one or more cantilevered prongs, the one or more ledges being configured to push against the sidewall of the housing to resist further bending of the one or more cantilevered prongs upon advancement of the needleless connector.

2. The cap of claim 1, further comprising a centering feature of the housing disposed within the cavity of the housing.

3. The cap of claim 2, wherein the centering feature protrudes from the distal wall of the housing, the centering feature of the housing configured to interdigitate with a corresponding centering feature of the insert upon insertion of the insert into the cavity of the housing.

4. The cap of claim 2, further comprising a centering feature of the insert disposed on the outer surface of the distal wall of the insert, wherein the centering feature of the insert extends the outer surface of the insert partially into the distal wall of the insert, the centering feature being a ring-shaped channel.

5. The cap of claim 1, wherein the one or more cantilevered prongs are separated by gaps.

6. The cap of claim 1, wherein the one or more cantilevered prongs are of a unitary cylindrical body.

7. The cap of claim 1, wherein the absorbent material is disposed within the cavity of the housing.

8. The cap of claim 7, wherein advancement of the insert into the cavity of the housing causes compression of the absorbent material, whereby disinfectant is released.

9. The cap of claim 1, wherein the absorbent material is disposed within the cavity of the insert.

10. The cap of claim 9, wherein advancement of a needleless connector into the cavity of the insert causes compression of the absorbent material, whereby disinfectant is released.

11. The cap of claim 1, wherein a diameter of the cavity of the housing is larger than the diameter of the insert.

12. The cap of claim 11, wherein disinfectant escapes between the inner surface of the sidewall of the housing and the insert.

13. The cap of claim 1, wherein the distal wall of the insert has a diameter R2 and the one or more cantilevered prongs have a diameter R1, the diameter R2 of the distal wall is greater than the diameter R1 of the one or more cantilevered prongs.

14. The cap of claim 13, wherein a collar of a needleless connector is inserted in a gap formed between the one or more cantilevered prongs and the sidewall of the housing.

15. The cap of claim 1, wherein the insert is configured to engage a female connector with respect to its inner sidewall, and engage a male connector with respect to its outer sidewall.

16. The cap of claim 15, wherein an inner sidewall of the one or more cantilevered prongs includes at least one inner thread configured to mate with a thread of a needleless connector.

17. The cap of claim 1, wherein the one or more ledges are disposed at least partially the length of the one or more cantilevered prongs.

18. The cap of claim 1, wherein the one or more ledges include a support rib positioned under the one or more ledges and affixed on the one or more cantilevered prongs, the support rib being configured to provide rigidity to the one or more ledges.