CLAIMS:

1. A retractable screen system, comprising:

a screen;

the screen extending a height between an upper end and a lower end;

the screen extending a length between a first side and a second side;

a roller tube;

the roller tube extending a length between a first end and a second end;

the roller tube having an axis of rotation;

the roller tube having an exterior surface;

a first end cap;

the first end cap connected adjacent the first end of the roller tube; and

the first end cap having an exterior surface.

2. The system, of claim 1 wherein the exterior surface of the first end cap has a convex curved shape.

3. The system of claim 2, wherein the convex curved shape of the first end cap extends from a larger diameter adjacent that approximately matches a diameter of the roller tube to a smaller diameter.

4. The system of claim 1 or 2, wherein

the exterior surface of the first end cap extending from an inner end to an outer end;

wherein the exterior surface of the first end cap curves from a larger diameter at the inner end of the first end cap to a smaller diameter at the outer end of the first end cap;

a second end cap;

the second end cap connected adjacent the second end of the roller tube;

the second end cap having an exterior surface;

the exterior surface of the second end cap extending from an inner end to an outer end;

wherein the exterior surface of the second end cap curves from a larger diameter at the inner end of the second end cap to a smaller diameter at the outer end of the second end cap; wherein the upper end of the screen is connected to the roller tube;

wherein the screen is opened by rotating the roller tube in a first direction which causes the screen to wrap around the exterior surface of the roller tube;

wherein the screen is closed by rotating the roller tube in a second direction, opposite the first direction,

which causes the screen to unwrap from around the exterior surface of the roller tube;

wherein when the screen wraps around the roller tube the first side of the screen wraps around the curved exterior surface of the first end cap when the screen wraps around the roller tube; and

wherein when the screen wraps around the roller tube the second side of the screen wraps around the curved exterior surface of the second end cap when the screen wraps around the roller tube.

5. The system of claim 4, wherein the exterior surface of the first end cap and the exterior surface of the second end cap are convex surfaces.

6. The system of claim 4 or 5, further comprising:

a first length adjustment member associated with the first end cap;

a second length adjustment member associated with the second end cap; and

wherein the first length adjustment member is configured and arranged to facilitate the adjustment of the position of the first end cap relative to the first end of the roller tube;

wherein the second length adjustment member is configured and arranged facilitate the adjustment of the position of the second end cap relative to the second end of the roller tube.

7. The system of any preceding claim, wherein at least one of: the larger diameter of the first end cap approximately matches the diameter of the roller tube; and the first end cap is connected to a collar that is connected to the roller tube.

8. The system of any preceding claim, wherein the position of the first end cap is at least one of: adjustable towards and away from the first end of the roller tube; adjustable along the axis of rotation; adjustable along a length of an axle that extends outward from the first end of the roller tube; and adjustable relative to the first end of the roller tube.

9. The system of any preceding claim, wherein at least one of: the first end cap is connected to a collar that is connected to the roller tube; and the position of the first end cap is adjustable towards and away from the first end of the roller tube.

10. The system of any preceding claim, wherein the first end cap is connected to the first end of the roller tube by one or more first features configured and arranged to connect to one or more second features of the first end of the roller tube.

11. The system of any preceding claim, wherein first end cap includes a plurality of flexible arms extending outward from the inner end of the first end cap toward the outer end of the first end cap, and optionally the plurality of flexible arms are configured to flex inward toward the axis of rotation.

12. The system of claim 10, wherein the one of more first features of the first end cap include one of more fingers, the one or more second features of the first end of the roller tube include one or more recesses, and the one or more fingers are configured and arranged to mate with the one or more recesses.

13. The system of any preceding claim, wherein the screen includes a first interlock at the first side of the screen and a second interlock at the second side of the screen, the first interlock and the second interlock having a thickness larger than a thickness of the screen.

14. The system of any preceding claim, further comprising:

a first track assembly positioned adjacent the first side of the screen;

the first track assembly having a first elongate channel and a first screen receiver configured to receive the first interlock;

a first magnet associated with one of the first elongate channel and the first screen receiver of the first track assembly;

a first magnetic member associated with the other of the first elongate channel and the first screen receiver of the first track assembly; and

wherein a magnetic bond is formed between the first magnet and the first magnetic member of the of the first track assembly.

15. The system of claim 1 or 2, further comprising:

a first length adjustment member associated with the first end cap;

wherein the first length adjustment member is configured and arranged to facilitate the adjustment of the position of the first end cap along the axis of rotation relative to the first end of the roller tube.