CLAIMS

1. A motorized retractable screen system, comprising:

a screen;

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

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

a bottom bar;

the bottom bar connected to the lower end of the screen;

a roller tube;

the upper end of the screen connected to the roller tube;

a motor;

the motor operatively connected to the roller tube;

wherein operation of the motor causes rotation of the roller tube thereby opening or closing the screen;

a first track assembly;

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

the first track assembly having an elongate channel and a screen receiver;

wherein the screen receiver of the first track assembly is magnetically attracted toward an end wall of the elongate channel of the first track assembly;

a second track assembly;

the second track assembly positioned adjacent the second side of the screen;

the second track assembly having an elongate channel and a screen receiver;

wherein the screen receiver of the second track assembly is magnetically attracted toward an end wall of the elongate channel of the second track assembly;

wherein the magnetic attraction of the screen receiver of the first track assembly toward the end wall of the elongate channel of the first track assembly, as well as the magnetic attraction of the screen receiver of the second track assembly toward the end wall of the elongate channel of the second track assembly provides tension on the screen;

wherein the screen receiver of the first track assembly is inserted into a compartment of the elongate channel of the first track assembly by turning the screen receiver at an

angle relative to the elongate channel and moving the screen receiver into the compartment.

2. The system of claim 1, wherein the screen receiver of the first track assembly is held within the compartment of the elongate channel of the first track assembly; wherein the screen receiver is configured to laterally move within the compartment between an outward-most position and an inward-most position.

3. The system of claim 1, wherein the screen receiver of the first track assembly is held within the compartment of the elongate channel of the first track assembly; wherein the screen receiver is configured to laterally move within the compartment between a front partition and a back partition.

4. The system of claim 1, wherein the screen receiver of the first track assembly is held within the elongate channel between a front partition and a back partition.

5. The system of claim 1, wherein the screen receiver of the first track assembly is free floating within the compartment of the elongate channel of the first track assembly.

6. The system of claim 1, wherein the screen receiver of the first track assembly includes at least one magnet.

7. The system of claim 1, wherein the elongate channel of the first track assembly includes at least one magnet.

8. The system of claim 1, wherein the screen receiver of the first track assembly includes at least one magnet, wherein the elongate channel of the first track assembly includes at least one magnet; wherein the at least one magnet of the screen receiver of the first track assembly and the at least one magnet of the elongate channel of the first track assembly attract toward one another.

9. A motorized retractable screen system, comprising:

a screen;

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

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

a bottom bar;

the bottom bar connected to the lower end of the screen;

a roller tube;

the upper end of the screen connected to the roller tube;

a motor;

the motor operatively connected to the roller tube;

wherein operation of the motor causes rotation of the roller tube thereby opening or closing the screen;

a first track assembly;

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

the first track assembly having an elongate channel and a screen receiver;

a second track assembly;

the second track assembly positioned adjacent the second side of the screen;

the second track assembly having an elongate channel and a screen receiver;

wherein the first track assembly and the second track assembly provide tension on the screen through magnetic attraction;

wherein the screen receiver of the first track assembly is inserted into a compartment of the elongate channel of the first track assembly by turning the screen receiver at an angle relative to the elongate channel and moving the screen receiver into the compartment.

10. The system of claim 9, wherein the screen receiver of the first track assembly is held within the compartment of the elongate channel of the first track assembly; wherein the screen receiver is configured to laterally move within the compartment between an outward-most position and an inward-most position.

11. The system of claim 9, wherein the screen receiver of the first track assembly is held within the compartment of the elongate channel of the first track assembly; wherein the screen receiver is configured to laterally move within the compartment between a front partition and a back partition.

12. The system of claim 9, wherein the screen receiver of the first track assembly is held within the elongate channel between a front partition and a back partition.

13. The system of claim 9, wherein the screen receiver of the first track assembly is free floating within the compartment of the elongate channel of the first track assembly.

14. The system of claim 9, wherein the screen receiver of the first track assembly includes at least one magnet.

15. The system of claim 9, wherein the elongate channel of the first track assembly includes at least one magnet.

16. The system of claim 9, wherein the screen receiver of the first track assembly includes at least one magnet, wherein the elongate channel of the first track assembly includes at least one magnet; wherein the at least one magnet of the screen receiver of the first track assembly and the at least one magnet of the elongate channel of the first track assembly attract toward one another.

17. The system of claim 9, wherein the screen receiver of the first track assembly is magnetically attracted toward an end wall of elongate channel of the first track assembly.

18. A motorized retractable screen system, comprising:

a screen;

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

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

a bottom bar;

the bottom bar connected to the lower end of the screen;

a roller tube;

the upper end of the screen connected to the roller tube;

a motor;

the motor operatively connected to the roller tube;

wherein operation of the motor causes rotation of the roller tube thereby opening or closing the screen;

a first track assembly;

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

the first track assembly having an elongate channel and a screen receiver;

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

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

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

wherein the screen receiver of the first track assembly is inserted into a compartment of the elongate channel of the first track assembly by turning the screen receiver at an angle relative to the elongate channel and moving the screen receiver into the compartment.

19. The system of claim 18, wherein the magnetic bond formed between the first magnet and the first magnetic member of the first track assembly provides tension on the screen.

20. The system of claim 18, wherein the elongate channel and the screen receiver are formed of a non-metallic material, and wherein the first magnetic member is attached to one of the elongate channel and the screen receiver.

21. The system of claim 18, wherein the first magnetic member is formed of a material having magnetic properties.

22. The system of claim 18, wherein the first magnetic member is formed of a ferric material.

23. The system of claim 18, wherein the screen receiver of the first track assembly is held within the compartment of the elongate channel of the first track assembly; wherein the screen receiver is configured to laterally move within the compartment between an outward-most position and an inward-most position.

24. The system of claim 18, wherein the screen receiver of the first track assembly is held within the compartment of the elongate channel of the first track assembly; wherein the screen receiver is configured to laterally move within the compartment between a front partition and a back partition.

25. The system of claim 18, wherein the screen receiver of the first track assembly is held within the elongate channel between a front partition and a back partition.

26. The system of claim 18, wherein the screen receiver of the first track assembly is free floating within the compartment of the elongate channel of the first track assembly.

27. The system of claim 18, wherein the screen receiver of the first track assembly is magnetically attracted toward an end wall of elongate channel of the first track assembly.

28. A motorized retractable screen system, comprising:

a track assembly;

the track assembly having an elongate channel and a screen receiver;

the elongate channel having a compartment;

the screen receiver positioned within the compartment of the elongate channel;

wherein the elongate channel and the screen receiver are magnetically attracted toward one another;

wherein the elongate channel includes a first side wall, a second side wall, and an end wall;

wherein the screen receiver is movable within the compartment of the elongate channel between a first pair of partitions and a second pair of partitions;

wherein the first pair of partitions constrain movement of the screen receiver in the compartment away from the end wall and prevent the screen receiver from being moved out of the elongate channel;

wherein the second pair of partitions constrain movement of the screen receiver toward the end wall in the compartment;

a first pair of liners connected to the first pair of partitions;

wherein the first pair of liners are configured to reduce noise generated between engagement of the screen receiver and the first pair of partitions when the screen receiver is pulled away from the end wall.

29. The system of claim 28, wherein the first side wall is positioned in parallel to the second side wall.

30. The system of claim 28, wherein the first side wall and the second side wall are positioned on opposite sides of the elongate channel.

31. The system of claim 28,

wherein the first pair of partitions are positioned on opposite sides of the elongate channel

wherein the first pair of liners are positioned on the opposite sides of the elongate channel.

32. The system of claim 28, wherein the first pair of liners cover at least a portion of each of the first pair of partitions.

33. The system of claim 28, wherein the first pair of liners and at least one second liner is formed of a noise-reducing non-metallic material.

34. The system of claim 28, wherein the first pair of liners and at least one second liner is formed of a material selected from the group consisting of rubber, plastic, synthetic rubber, fiberglass, an ultra-high molecular weight material (UHMW), a composite material, a foam material and a compressible material.

35. A motorized retractable screen system, comprising:

a track assembly;

the track assembly having an elongate channel and a screen receiver;

the elongate channel having a compartment;

the screen receiver positioned within the compartment of the elongate channel;

wherein the elongate channel and the screen receiver are magnetically attracted toward one another;

wherein the elongate channel includes a first side wall, a second side wall, and an end wall;

wherein the elongate channel includes a first pair of partitions and a second pair of partitions;

wherein the first pair of partitions includes a first partition extending into the compartment from the first side wall and a second partition extending into the compartment from the second side wall;

wherein the second pair of partitions includes a third partition extending into the compartment from the first side wall and a fourth partition extending into the compartment from the second side wall;

wherein the screen receiver is movable within the compartment of the elongate channel between the first pair of partitions and the second pair of partitions;

wherein the first pair of partitions constrain movement of the screen receiver in the compartment away from the end wall and prevent the screen receiver from being moved out of the elongate channel;

wherein second pair of partitions constrain movement of the screen receiver toward the end wall in the compartment;

a first pair of liners connected to the first pair of partitions;

wherein the first pair of liners are configured to reduce noise generated between engagement of the screen receiver and the first pair of partitions when the screen receiver is pulled away from the end wall;

at least one second liner positioned in the compartment between the end wall and the screen receiver;

wherein the at least one second liner is configured to reduce noise generated when the screen receiver is pulled toward the end wall.

36. The system of claim 35, wherein the first pair of partitions is positioned adjacent an inward open end of the elongate channel.

37. The system of claim 35, wherein the second pair of partitions is positioned adjacent an outward closed end of the elongate channel.

38. The system of claim 35, further comprising at least one magnet connected to the screen receiver that is configured to magnetically attract toward the elongate channel.

39. The system of claim 35, further comprising at least one magnet connected to the elongate channel that is configured to magnetically attract toward the screen receiver.

40. The system of claim 35, wherein the elongate channel and screen receiver are formed of a metallic material and the first pair of liners are formed of a nonmetallic material that reduces noise generated when the elongate channel and screen receiver engage one another.

41. The system of claim 35, wherein the at least one second liner is formed of a noise-reducing non-metallic material.

42. The system of claim 35, wherein the first pair of liners and the at least one second liner is formed of a material selected from the group consisting of rubber, plastic,

synthetic rubber, fiberglass, an ultra-high molecular weight material (UHMW), a composite material, a foam material and a compressible material.