

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.
2. The system of claim 1, wherein the screen receiver of the first track assembly is held within a 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 a 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 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.
 5. 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.
 6. The system of claim 1, wherein the screen receiver of the first track assembly is free floating within a compartment of the elongate channel of the first track assembly.
 7. The system of claim 1, wherein the screen receiver of the first track assembly includes at least one magnet.
 8. The system of claim 1, wherein the elongate channel of the first track assembly includes at least one magnet.
 9. 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.
 10. 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.
11. The system of claim 10, wherein the screen receiver of the first track assembly is held within a 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.
 12. The system of claim 10, wherein the screen receiver of the first track assembly is held within a 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.
 13. The system of claim 10, 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.
 14. The system of claim 10, wherein the screen receiver of the first track assembly is held within the elongate channel between a front partition and a back partition.
 15. The system of claim 10, wherein the screen receiver of the first track assembly is free floating within a compartment of the elongate channel of the first track assembly.

16. The system of claim 10, wherein the screen receiver of the first track assembly includes at least one magnet.
17. The system of claim 10, wherein the elongate channel of the first track assembly includes at least one magnet.
18. The system of claim 10, 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.
19. The system of claim 10, wherein the screen receiver of the first track assembly is magnetically attracted toward an end wall of elongate channel of the first track assembly.
20. 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.

21. The system of claim 20, wherein the magnetic bond formed between the first magnet and the first magnetic member of the first track assembly provides tension on the screen.
22. The system of claim 20, 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.
23. The system of claim 20, wherein the first magnetic member is formed a material having magnetic properties.
24. The system of claim 20, wherein the first magnetic member is formed a material having magnetic properties.
25. The system of claim 20, wherein the screen receiver of the first track assembly is held within a 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.
26. The system of claim 20, wherein the screen receiver of the first track assembly is held within a 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.
27. The system of claim 20, 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.
28. The system of claim 20, wherein the screen receiver of the first track assembly is held within the elongate channel between a front partition and a back partition.
29. The system of claim 20, wherein the screen receiver of the first track assembly is free floating within a compartment of the elongate channel of the first track assembly.

30. The system of claim 20, wherein the screen receiver of the first track assembly is magnetically attracted toward an end wall of elongate channel of the first track assembly.
31. 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 screen receiver is movable within the compartment of the elongate channel;
a first partition;
wherein the first partition extends into the compartment;
wherein movement of the screen receiver within the elongate channel is constrained by engagement between the screen receiver and the first partition;
a first liner;
wherein the first liner covers at least a portion of the first partition;
wherein when the screen receiver engages the first partition, the first liner reduces noise generated between engagement of the screen receiver and the first partition.
32. The system of claim 31, further comprising a second partition, wherein the second partition extends into the compartment, wherein movement of the screen receiver within the elongate channel is constrained by engagement between the screen receiver and the second partition.
33. The system of claim 31, further comprising a second partition, wherein the second partition extends into the compartment, wherein the first partition and the second partition are on the same side of the elongate channel.
34. The system of claim 31, further comprising a second partition, wherein the second partition extends into the compartment, wherein the first partition and the second partition are on the opposite sides of the elongate channel.

35. The system of claim 31, further comprising a second partition, wherein the second partition extends into the compartment, a second liner; wherein the second liner covers at least a portion of the second partition.
36. 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 screen receiver is laterally movable within the compartment of the elongate channel between a first partition and a second partition;
a first liner;
wherein the first liner covers at least a portion of the first partition;
a screen connected to the screen receiver;
wherein when the screen receiver moves within the compartment due force placed upon the screen, and the screen receiver engages the first partition, the first liner reduces noise generated between engagement of the screen receiver and the first partition.
37. The system of claim 36, wherein the first partition is a front partition positioned adjacent an inward open end of the elongate channel.
38. The system of claim 36, wherein the first partition is a rear partition positioned adjacent an outward closed end of the elongate channel.
39. The system of claim 36, further comprising at least one magnet connected to the screen receiver that is configured to magnetically attract toward the elongate channel.
40. The system of claim 36, further comprising at least one magnet connected to the elongate channel that is configured to magnetically attract toward the screen receiver.
41. The system of claim 36, wherein the elongate channel and screen receiver are formed of a metallic material and the first liner is formed of a nonmetallic material

that reduces noise generated when the elongate channel and screen receiver engage one another.

42. The system of claim 36, further comprising a second liner, wherein the second liner covers at least a portion of the second partition; wherein when the screen receiver moves within the compartment due force placed upon the screen, and the screen receiver engages the second partition, the second liner reduces noise generated between engagement of the screen receiver and the second partition.