

CLAIMS:

1. A ride system, comprising:
 - a plurality of ride vehicles, wherein each ride vehicle of the plurality of ride vehicles comprises:
 - a rider support configured to carry a rider;
 - a support actuator coupled to the rider support and a base of the ride vehicle, wherein the support actuator is configured to move the rider support relative to the base;
 - a ride vehicle movement system integrated with the base and configured to move the ride vehicle relative to a ride area; and
 - a controller configured to control the support actuator of each ride vehicle of the plurality of ride vehicles individually and the ride vehicle movement system of each ride vehicle of the plurality of ride vehicles individually based at least in part on:
 - instructions, stored in memory, for performing a choreographed routine for the plurality of ride vehicles; and
 - an input received from a selected ride vehicle of the plurality of ride vehicles, wherein the input is indicative of an adjustment to the support actuator of each ride vehicle of the plurality of ride vehicles, the ride vehicle movement system of each ride vehicle of the plurality of ride vehicles, or both, and wherein the input is based on a correlative adjustment to the support actuator of the selected ride vehicle, the ride vehicle movement system of the selected ride vehicle, or both.
2. The ride system of claim 1, wherein the choreographed routine comprises

choreographed riding support movement instructions for each rider support and each ride vehicle movement system of each ride vehicle of the plurality of ride vehicles.

3. The ride system of claim 1, wherein the choreographed routine comprises a designation of the selected ride vehicle of the plurality of ride vehicles based at least in part on a time sequence of the choreographed routine, and wherein the selected ride vehicle is a first ride vehicle of the plurality of ride vehicles in a first time period during the time sequence, and the selected ride vehicle is a second ride vehicle of the plurality of ride vehicles in a second time period during the time sequence.
4. The ride system of claim 1, comprising a plurality of linkages coupled to one another, wherein a first linkage of the plurality of linkages is coupled to the support actuator and a second linkage of the plurality of linkages is coupled to the rider support.
5. The ride system of claim 4, wherein the plurality of linkages are configured to move relative to one another and relative to the base to move the rider support vertically and longitudinally relative to the base.
6. The ride system of claim 1, wherein the input is received from a rider controller configured to be controlled by the rider positioned on the rider support of the selected ride vehicle.
7. The ride system of claim 6, wherein the input comprises a shift in weight, an input to a hand controller of the rider controller, or both.
8. The ride system of claim 1, comprising a ride station configured to accommodate the plurality of ride vehicles.
9. The ride system of claim 8, wherein the controller is configured to receive an input

indicative of a party size and to dispatch a subset of the plurality of ride vehicles from the ride station into the ride area based at least in part on the party size, and wherein the subset of the plurality of ride vehicles comprises some or all of the ride vehicles of the plurality of ride vehicles.

10. The ride system of claim 1, wherein each ride vehicle of the plurality of ride vehicles further comprises:

a roll system configured to move the rider support or the base angularly relative to the ride area, wherein the controller is further configured to control the roll system of each ride vehicle of the plurality of ride vehicles based upon the instructions and the input.

11. The ride system of claim 10, further comprising:

a display system configured to provide a cinematic presentation for viewing by the rider of each ride vehicle; and

a controller configured to:

instruct the display system to provide the cinematic presentation; and

control the support actuator, the ride vehicle movement system, and the roll system of each ride vehicle of the one or more ride vehicles individually based on a choreographed routine of the one or more ride vehicles that corresponds to the cinematic presentation and an input received from a selected ride vehicle of the one or more ride vehicles, wherein the input is indicative of an adjustment to the movement of the rider support, the ride vehicle, or both, of the selected ride vehicle.

12. The ride system of claim 1, wherein the controller is configured to control the cinematic presentation based at least in part on the input received from the selected ride vehicle, and wherein the cinematic presentation comprises a plurality of unique

storylines, each unique storyline of the plurality of unique storylines corresponding to a unique choreographed routine of the one or more ride vehicles.

13. The ride system of claim 1, wherein the choreographed routine comprises a designation of the selected ride vehicle of the plurality of ride vehicles based at least in part on a time sequence of the choreographed routine, and wherein the selected ride vehicle is a first ride vehicle of the plurality of ride vehicles in a first time period during the time sequence, and the selected ride vehicle is a second ride vehicle of the plurality of ride vehicles in a second time period during the time sequence.
14. The ride system of claim 1, wherein the one or more ride vehicles comprise a plurality of ride vehicles, and wherein the controller is configured to control the movement of one or more other ride vehicles of the plurality of ride vehicles different from the selected ride vehicle based at least in part on the input received from the selected ride vehicle.
15. The ride system of claim 1, comprising a ride station configured to accommodate the one or more ride vehicles, wherein the one or more ride vehicles are configured to transition from the ride station to a position proximate to a screen of the display system.
16. A ride system, comprising:

a track;

a ride vehicle configured to travel along the track, wherein the ride vehicle comprises:

a plurality of rider supports, wherein each rider support of the plurality of rider supports is configured to carry a respective rider;

a plurality of support actuators, wherein each support actuator of the plurality of support actuators is coupled to a respective rider support of the plurality of rider supports and a base of the ride vehicle, and each support actuator of the plurality of support actuators is configured to move the respective rider support relative to the base;

a ride vehicle movement system integrated with the base and configured to move the ride vehicle along the track; and

a roll system configured to move the base and the plurality of rider supports angularly relative to the track; and

a controller configured to control the plurality of support actuators, the ride vehicle movement system, and the roll system based at least in part on:

instructions, stored in memory, for performing a choreographed routine of the plurality of rider supports; and

an input received from a selected rider support of the plurality of rider supports of the plurality of ride vehicles, wherein the input is indicative of an adjustment to each support actuator of the plurality of support actuators of the plurality of ride vehicles, each ride vehicle movement system of the ride vehicle of the plurality of ride vehicles, or both, and wherein the input is based on a correlative adjustment to the support actuator coupled to the selected rider support.

17. The ride system of claim 16, wherein the choreographed routine comprises choreographed movement instructions for each support actuator of the plurality of support actuators, the ride vehicle movement system, and the roll system.
18. The ride system of claim 16, comprising a plurality of linkage assemblies, wherein each support actuator of the plurality of support actuators is coupled to a respective linkage assembly of the plurality of linkage assemblies and to the base of the ride

vehicle, and each linkage assembly of the plurality of linkage assemblies is coupled to a respective rider support of the plurality of rider supports.

19. The ride system of claim 16, wherein the controller is configured to control movement of one or more other rider supports of the plurality of rider supports different from the selected rider support based at least in part on the input received from the selected rider support.
20. The ride system of claim 16, wherein the selected rider support comprises a rider controller configured to receive the input from a rider riding the selected rider support, and wherein the rider controller comprises a joystick, a hand controller, or both.