

decrease flow of water to the respective water feature as the participant slides away from the water feature.

In some embodiments, the fluid features are water
5 spray sources.

Another aspect of the invention relates to an amusement attraction comprising the amusement attraction fluid control system and a water slide wherein the plurality of fluid
10 features are associated with the water slide.

Another aspect of the invention relates to an amusement attraction comprising the amusement attraction fluid control system and a water play structure wherein the plurality
15 of fluid features are associated with the water play structure.

Disclosed herein is a water play attraction water control system comprising: a water source; a pump; a plurality
20 of water features; a plurality of conduits interconnecting the water sources and pump to the plurality of water features; and each of the plurality of water features having a respective associated valve; wherein the pump is configured to pump water through the conduits to the water features; wherein each
25 respective associated valve is adapted to open to deliver water to each respective water feature.

In some embodiments, the amusement attraction water control system further comprises at least one sensor wherein at
30 least one of the associated valves is movable between open and closed positions based on input from the at least one sensor.

In some embodiments, the method further comprises operating a variable frequency drive to control the rate of the pump.

5 In some embodiments, the channel is upwardly angled, the method comprising operating the fluid spray sources to exert force on the vehicle to boost the vehicle up the channel.

10 In some embodiments, the channel is horizontal, the method comprising operating the fluid spray sources to exert force on the vehicle to accelerate the vehicle along the channel.

Disclosed herein is an amusement ride vehicle
15 comprising: a body and at least one of recesses and protrusions on a perimeter surface of body, the at least one of recesses and protrusions defining fluid impact surfaces, the fluid impact surfaces being at an angle to an intended direction of motion of the vehicle to affect motion of the vehicle when the
20 fluid impact surfaces are impacted by a fluid.

In some embodiments, at least a portion of an underside of the body is adapted to slide on a sliding surface.

25 In some embodiments, the vehicle is adapted to float in a fluid.

In some embodiments, the at least one of recesses and protrusions comprise a plurality of recesses or a plurality of
30 protrusions spaced along opposite sides of the vehicle body.

In some embodiments, the vehicle comprises outer sidewalls and a bottom surface and the plurality of recesses or the plurality of protrusions do not extend outward past the

flow of water to the respective water feature as the participant slides away from the water feature.

12. The amusement attraction fluid control system of any one of claims 1 to 11 wherein the fluid features are water spray sources.

13. An amusement attraction comprising the amusement attraction fluid control system of any one of claims 1 to 12 and a water slide wherein the plurality of fluid features are associated with the water slide.

14. An amusement attraction comprising the amusement attraction fluid control system of any one of claims 1 to 12 and a water play structure wherein the plurality of fluid features are associated with the water play structure.

15. An amusement ride vehicle motion control system comprising:

- a channel;

- a plurality of fluid spray sources positioned to spray fluid over the channel;

- at least one first sensor adapted detect when the amusement ride vehicle enters a zone of the channel;

- at least one pump associated with the plurality of fluid spray sources; and

- a controller adapted to increase the fluid flow by the at least one pump to the respective fluid spray sources in response to an amusement ride vehicle entering the zone.

16. The amusement ride vehicle motion control system of claim 15 further comprising at least one second sensor adapted to detect when the amusement ride vehicle leaves the zone of the channel, the controller being adapted to reduce the pump

output to decrease the flow from the fluid spray source in response to the amusement ride vehicle exiting the zone.

17. The amusement ride vehicle motion control system of claim 16 further comprising:

a second plurality of fluid spray sources positioned to spray fluid over the channel;

at least one third sensor adapted detect when the amusement ride vehicle enters a second zone of the channel at least one second pump associated with the second plurality of fluid spray sources; and

the controller being adapted to increase the fluid flow by the at least one second pump to the respective second plurality of fluid spray sources in response to an amusement ride vehicle entering the zone.

18. The amusement ride vehicle motion control system of any one of claims 15 to 17, wherein the respective pumps are connected to the controller by a variable frequency drive, wherein the respective variable frequency drives are adapted to control the rate of the respective pumps.

19. The amusement ride vehicle motion control system of any one of claims 15 to 18 wherein the channel comprises a sliding surface and the vehicle is adapted to slide on the sliding surface.

20. The amusement ride vehicle motion control system of any one of claims 15 to 18 wherein the channel is adapted to hold sufficient fluid to float the vehicle and the vehicle is adapted to float in the channel.

21. The amusement ride vehicle motion control system of any one of claims 15 to 18 wherein the channel is upwardly angled

and the fluid spray sources are positioned to exert force on the vehicle to boost the vehicle up the channel.

22. The amusement ride vehicle motion control system of any one of claims 15 to 18 wherein the channel is horizontal and the fluid spray sources are positioned to exert force on the vehicle to accelerate the vehicle along the channel.

23. A method of affecting the motion of a vehicle in a sliding on a waterslide comprising:

- providing a channel in the waterslide;
- positioning a plurality of water spray sources to spray water at a vehicle in the channel;
- sensing when the vehicle is enters the channel;
- increasing a rate of a pump to spray water from the water spray sources at a pressure and flowrate to affect motion of the vehicle.

24. The method of claim 23 further comprising sensing when the vehicle is exiting the channel; and decreasing the rate of the pump to reduce the spray water from the water spray sources.

25. The method of claim 23 or claim 24 further comprising operating a variable frequency drive to control the rate of the pump.

26. The method of any one of claims 23 to 25 wherein the channel is upwardly angled, the method comprising operating the fluid spray sources to exert force on the vehicle to boost the vehicle up the channel.

27. The method of any one of claims 23 to 25 wherein the channel is horizontal, the method comprising operating the fluid spray sources to exert force on the vehicle to accelerate the vehicle along the channel.