

CLAIMS:

1. A ride vehicle for an amusement park, comprising:
a restraint system, comprising:
a first conformable component configured to be disposed over a first lower portion of a guest's body;
a behind-the-knee component configured to be disposed behind a leg of the guest; and
a linkage mechanism configured to move the first conformable component, the behind-the-knee component, or a combination thereof, to secure the restraint system to the guest.
2. The ride vehicle of claim 1, wherein the first lower portion of the guest's body comprises a thigh portion, a knee portion, a shin portion, or a combination thereof.
3. The ride vehicle of claim 1, wherein the restraint system comprises a second conformable component configured to be disposed over a second lower portion of the guest's body.
4. The ride vehicle of claim 1, comprising a control system and wherein the restraint system comprises a sensor configured to transmit a signal representative of a pressure applied by the first conformable component to the guest, applied by the behind-the-knee component to the guest, or a combination thereof, wherein the control system is configured to control the linkage mechanism to move the first conformable component, the behind-the-knee component, or the combination thereof, based on the signal.
5. The ride vehicle of claim 4, wherein the restraint system comprises an actuator configured to move the first conformable component, the behind-the-knee component, or the combination thereof, and wherein the control system is configured to actuate the actuator based on the signal.

6. The system of claim 1, wherein the restraint system comprises a handle configured to be manually actuated by the guest to open the restraint system, to close the restraint system, or a combination thereof.

7. The system of claim 6, wherein the handle is disposed on the first conformable component.

8. The system of claim 7, wherein the first conformable component is mechanically coupled to the behind-the-knee component via the linkage mechanism so that moving the first conformable component also moves the behind-the-knee component when the handle is actuated.

9. The system of claim 1, wherein the first conformable component comprises a shape suitable to be disposed over a knee area of the guest.

10. The system of claim 1, comprising a second conformable component configured to be disposed over a second lower portion of the guest's body and wherein the linkage mechanism is configured to move the first conformable component, the behind-the-knee component, the second conformable component, or a combination thereof, to secure the restraint system to the guest.

11. A method, comprising:

actuating a first conformable component included in a restraint system of a ride vehicle for an amusement park, wherein the first conformable component is configured to be disposed over a first lower portion of a guest's body;

actuating a behind-the-knee component included in the restraint system, wherein the behind-the-knee component is configured to be disposed behind a leg of the guest; and

sensing if the first conformable component, the behind-the-knee component, or a combination thereof, is secured to the guest.

12. The method of claim 11, wherein sensing if the first conformable component, the behind-the-knee component, or the combination thereof, is secured to the guest comprises receiving a pressure signal from a sensor configured to sense a pressure between at least the first conformable component and the guest or the behind-the-knee component and the guest.

13. The method of claim 11 wherein actuating the first conformable component, the behind-the-knee component, or a combination thereof, comprises controlling the restraint system via a control system, via a manual device, or a combination thereof.

14. The method of claim 13, wherein the manual device comprises a handle disposed on the first conformable component.

15. The method of claim 11, comprising actuating a second conformable component included in the restraint, wherein the second conformable component is configured to be disposed over a second lower portion of a guest's body.

16. A restraint system of an amusement park ride, comprising:
a first conformable component configured to be disposed over a first lower portion of a guest's body;
a behind-the-knee component configured to be disposed behind a leg of the guest; and
a linkage mechanism configured to move the first conformable component, the behind-the-knee component, or a combination thereof, to secure the restraint system to the guest.

17. The system of claim 16, comprising a sensor configured to transmit a signal representative of a pressure applied by the first conformable component to the guest, applied by the behind-the-knee component to the guest, or a combination thereof, to a control system, wherein the control system is configured to control the linkage mechanism to move the first conformable component, the behind-the-knee component, or the combination thereof, based on the signal.

18. The system of claim 17, comprising an actuator configured to move the first conformable component, the behind-the-knee component, or the combination thereof, and wherein the control system is configured to actuate the actuator based on the signal.

19. The system of claim 16, comprising a handle configured to be manually actuated by the guest to open the restraint system, to close the restraint system, or a combination thereof.

20. The system of claim 16, comprising a second conformable component configured to be disposed over a second lower portion of the guest's body and wherein the linkage mechanism is configured to move the first conformable component, the behind-the-knee component, the second conformable component, or a combination thereof, to secure the restraint system to the guest.