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(54) Title: OBJECT ORIENTATION DETECTION SYSTEM

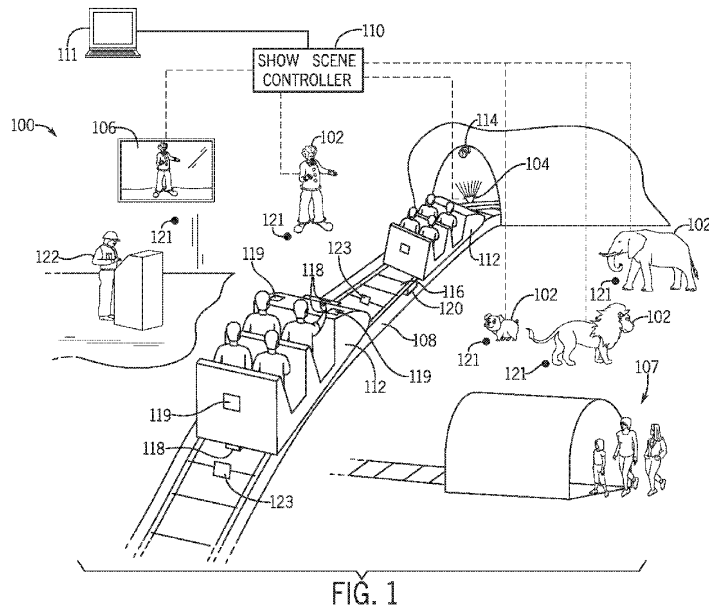


FIG. 1

(57) Abstract: A face orientation system of a ride that includes one or more sensors and a controller. The controller receives ride cart data from the one or more sensors indicative of a presence and position of the ride cart on the ride, determines ride cart orientation based on the ride cart data, receives position data of a guest from the one or more sensors indicative of a position of a body, a face, or a combination thereof, of the guest, determines face orientation, face rotation, or a combination thereof, of the guest based on the ride cart orientation and position data, and transmits data indicative of the determined face orientation, face rotation, or a combination thereof to a downstream controller for subsequent control based upon the determined face orientation, face rotation, or the combination thereof.

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