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(54) Title: RIDE VEHICLE TRACKING AND CONTROL SYSTEM USING PASSIVE TRACKING ELEMENTS

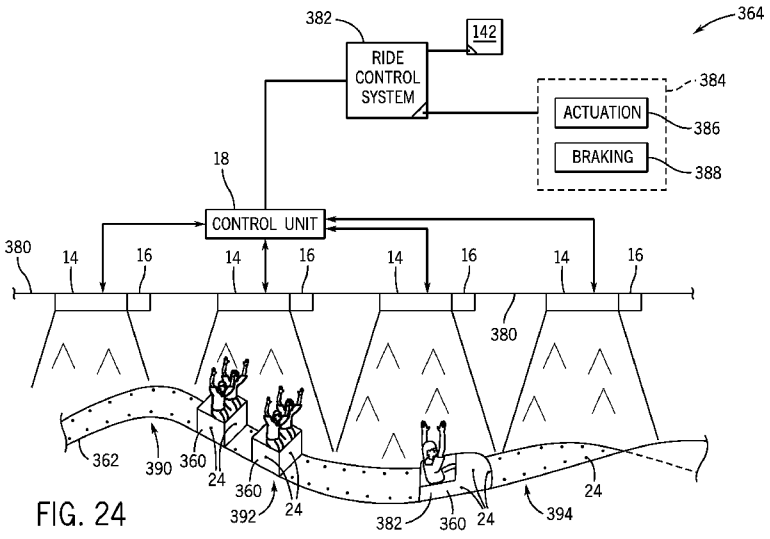


FIG. 24

(57) Abstract: A dynamic signal to noise ratio tracking system (10) enables detection and tracking of ride vehicles (26), (170, 360) within the field of view of the tracking system (10). The tracking system (10) may include an emitter configured to emit electromagnetic radiation within an area (30), a detector (16) configured to detect electromagnetic radiation reflected back from within the area (30), and a control unit (18) configured to evaluate signals from the detector (16) and control the ride vehicles (26, 170, 360) or other equipment (12) as a result of this evaluation.

WO 2015/179682 A1