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(54) **Title:** SYSTEM AND METHOD FOR AMUSEMENT ATTRACTION INTERFERENCE DETECTION

(57) **Abstract:** An amusement park attraction system includes one or more travel paths configured to guide one or more ride vehicle assemblies thereon. The amusement park attraction system also includes an interference detection assembly comprising one or more drones, a sensor assembly disposed on the drone, one or more memories, and one or more processors. The one or more memories include instructions stored thereon. The one or more processors are configured to execute the instructions to control a path of the one or more drones relative to the one or more travel paths, receive sensor data from the sensor assembly and corresponding to an environment surrounding the one or more drones, detect an overlap between a reach envelope corresponding the one or more ride vehicle assemblies and at least one additional component of the amusement park attraction system based on the sensor data, and generate one or more notifications indicative of the overlap.

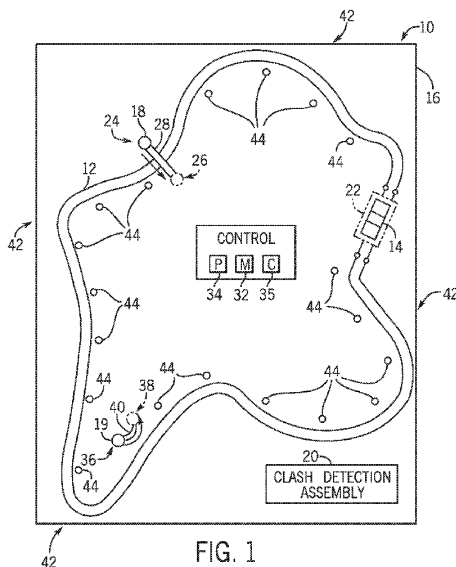


FIG. 1

[Continued on next page]

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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