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(54) Title: AUTONOMOUS TRACK MONITORING SYSTEM

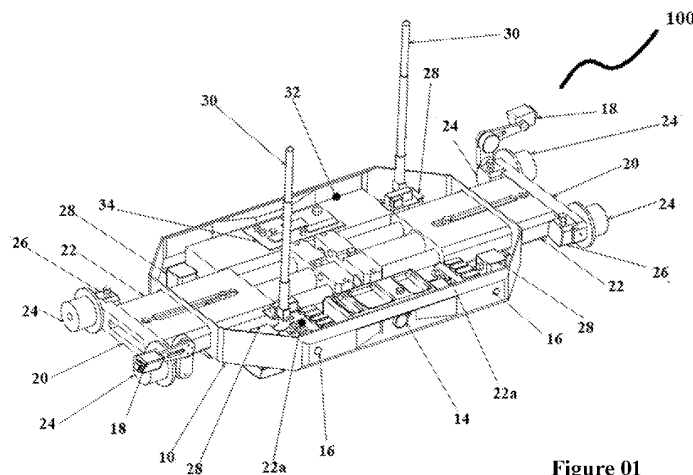


Figure 01

(57) Abstract: Disclosed is autonomous track monitoring system (100). The system (100) of the present invention provides unmanned robotic vehicle, which can run on the railway tracks and inspect the tracks for any irregularities, hindrances, cracks, stone density, deviation, angle of banking of tracks, encroachments and the likes. The system (100) comprises a chassis (10), a sensor assembly configured on the chassis (10), at least two linear actuators (22), at least two wheel assembly (20), at least four vertical linear actuators (28), a microcontroller, a communication means, and a power source for powering the microcontroller, and the sensor assembly. The system (100) can sense upcoming the train on the track (50) and can retract itself to the center of track (50), so that trains don't need to stop and passes over the system (100).

[Continued on next page]

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