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- (54) Title:** GYROSCOPIC SYSTEM IN VEHICLE SUSPENSION

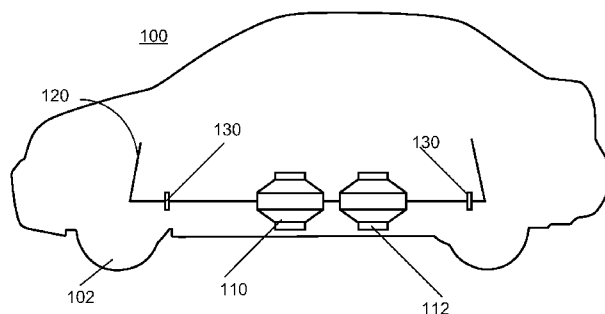


FIG. 1A

(57) Abstract: Embodiments of the invention describe methods, apparatuses, and systems for enhanced vehicle stabilization solutions. Embodiments of the invention may receive sensor information from at least one sensor coupled to a vehicle having two or more wheels, the at least one sensor coupled to at least one of a wheel, a suspension component, or a frame of the vehicle. A tilt angle of the vehicle is determined from the received sensor information, the tilt angle comprising an offset angle from a reference plane for the vehicle. A controller transmits a command to one or more control moment gyroscopes (CMGs) coupled to the frame of the vehicle to produce a total angular momentum based, at least in part, on the tilt angle of the vehicle.