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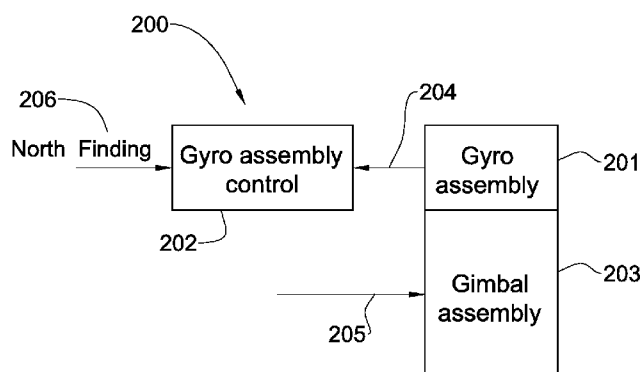


FIG. 2

(57) **Abstract:** A payload including a gimbal assembly and gyro assembly that includes a gyro assembly control associated with the gyro assembly and operable to trigger the gyro assembly to obtain deviation measurements and process the measurements in a first dynamic range for stabilizing the payload utilizing the gimbal assembly. The gyro assembly control is operable to trigger the gyro assembly to obtain instantaneous measurements and process the measurements in a second dynamic range having different sensitivity than the first dynamic range, for finding deviation of the payload from the magnetic north of the earth.