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(54) Title: STATE ESTIMATION OF A TARGET USING SENSOR MEASUREMENTS

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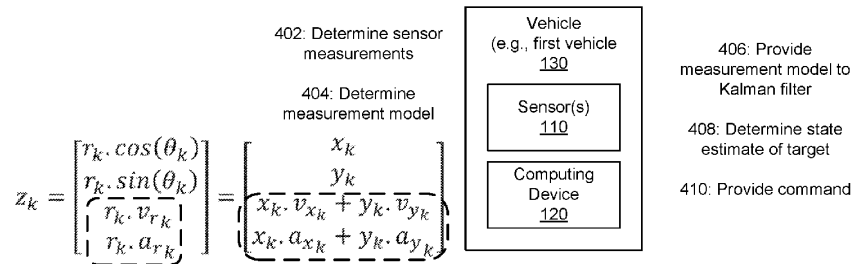


FIG. 4

(57) Abstract: In some aspects, a computing device may determine, via one or more sensors of the computing device, sensor measurements associated with a target, wherein the sensor measurements include a relative radial acceleration. The computing device may determine a measurement model based at least in part on the sensor measurements associated with the target including the relative radial acceleration. The computing device may provide the measurement model to a second order Kalman filter. The computing device may determine, based at least in part on the second order Kalman filter, a state estimate of the target. The computing device may provide a command based at least in part on the state estimate of the target. Numerous other aspects are described.

[Continued on next page]

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