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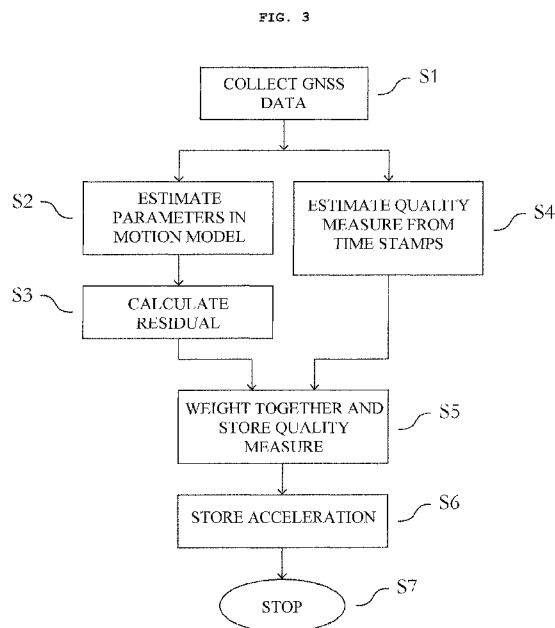
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(54) Title: CALCULATION OF ACCELERATION BASED ON SPEED MEASUREMENT



(57) Abstract: A method for calculation, with high time resolution, of acceleration of an object in motion from a measurement, with low time resolution, of speed of the object, comprises approximation of the speed of the object from the speed measurement and a parametric model describing the motion of the object. The method further comprises estimation of parameters in the parametric model through a parametric estimation method based on the speed measurement and the parametric model. The method also comprises calculation of acceleration of the object from the parametric model and the estimated parameters, and calculation of a quality index representing the quality of the calculated acceleration from a quality measure representing the adaptation of the parametric model to the speed measurement, and a quality measure representing the quality of the speed measurement.

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