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(54) **POSITION SENSOR SYSTEM AND METHOD
FOR DETECTING AN ERROR OF A
POSITION SENSOR SYSTEM**

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(57) **ABSTRACT**

A method and position sensor system for detecting an error of a position sensor system are provided. The method and position sensor system implementing the steps of: determining the period length of three previous signal periods of the position signal, comparing the period lengths of the three previous signal periods of the position signal to detect a constant velocity position signal, a constant accelerating or decelerating position signal or position signal with a constant jerk, predicting the period length of the next signal period of the position signal, transferring the predicted period length of the next signal period to a predicted position signal for the next signal period, and comparing the predicted position signal with the actual position signal to detect errors in the position signal of the next signal period.