

(12) **United States Patent**
Shibata et al.

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(54) **SHIFT LEVER POSITION DETERMINATION DEVICE FOR VEHICLE**

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(57) **ABSTRACT**

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A shift lever position determination device is for a vehicle and includes an electronic control device. The electronic control device is configured to perform a majority determination in a case where more than half of the signals from the plurality of position sensors correspond to the same operating position, and configured to determine whether the operating position of the shift lever is on a M operating position side or a N operating position side in a select direction based on the magnitude relationship of the signals in a case where the majority determination is not satisfied. The electronic control device is configured to determine, in the majority determination, that the operating position corresponding to more than half of the signals is the operating position of the shift lever.

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F16H 59/02 (2006.01)

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(58) **Field of Classification Search**
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F16H 59/105; F16H 59/0204
See application file for complete search history.

1 Claim, 8 Drawing Sheets

