

(12) **United States Patent**
Park

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- (54) **METHOD AND SYSTEM FOR LEARNING OPERATION OF ENGINE CLUTCH OF HYBRID VEHICLE**
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 298 days.

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See application file for complete search history.

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(57) **ABSTRACT**

A method and a system for learning an operation of an engine clutch using a hydraulic pressure sensor and a motor of a vehicle. The method includes determining, by a controller, whether power transmission of a transmission that transmits output from the engine and the motor has been interrupted and increasing, by the controller, pressure of the engine clutch to a target pressure with a predetermined ratio when the power transmission has been interrupted. In addition, measuring, by the controller, actual pressure of the engine clutch using a hydraulic pressure sensor when pressure of the engine is increased with the predetermined ratio to the target pressure and calculating, by the controller, a difference value between the measured actual pressure and target pressure. Furthermore, adjusting, by the controller, pressure of the engine clutch to correlate the actual pressure of the engine clutch to the target pressure based on the difference value.

8 Claims, 10 Drawing Sheets

