

Title (en)

METHOD FOR EVALUATING A COASTDOWN LOAD, AND ASSISTED DRIVING METHOD

Title (de)

VERFAHREN ZUR BEWERTUNG EINER AUSROLLLAST UND VERFAHREN FÜR UNTERSTÜTZTES FAHREN

Title (fr)

PROCÉDÉ D'ÉVALUATION D'UNE LOI DE DÉCÉLÉRATION ET PROCÉDÉ D'ASSISTANCE À LA CONDUITE

Publication

**EP 3990327 A1 20220504 (FR)**

Application

**EP 20734750 A 20200629**

Priority

- FR 1907163 A 20190628
- EP 2020068234 W 20200629

Abstract (en)

[origin: WO2020260691A1] The invention relates to a method for evaluating the coastdown load of a vehicle comprising an accelerator pedal, a brake pedal, and a drivetrain comprising an engine, a gearbox and a disconnect member between the engine and the gearbox, the coastdown load being defined for a discrete state of the drivetrain, and the method for evaluating the coastdown load comprising: - a first step (100) of evaluating driving parameters comprising: measuring the speed (v) of the vehicle, evaluating the selected gearbox ratio, evaluating the state of closure of the disconnect member, detecting the position of the accelerator pedal, detecting the position of the brake pedal, evaluating the slope (a) of the road on which the vehicle is travelling, and evaluating the mass (m) of the vehicle, - if the accelerator pedal and the brake pedal are in a released position, a second step (200) comprising: recording the speed (v) of the vehicle and the slope (a) of the road, - a third step (300) of calculating a first coefficient (f0'), a second coefficient (f1') and a third coefficient (f2') of the coastdown load representing the forces F(v) acting on the vehicle, with the exception of the gravitational forces acting on the vehicle, according to the equation:  $F(v)=f_0' + f_1' \cdot v + f_2' \cdot v^2$ . The invention also relates to an energy-saving assisted driving method using the coastdown load evaluated by means of the above method.

IPC 8 full level

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Citation (search report)

See references of WO 2020260691A1

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