

Title (en)

METHOD, CONTROL DEVICE, AND SYSTEM FOR DETERMINING A PROFILE DEPTH OF A PROFILE OF A TYRE

Title (de)

VERFAHREN, STEUEREINRICHTUNG UND SYSTEM ZUM ERMITTELN EINER PROFILTIEFE EINES PROFILS EINES REIFENS

Title (fr)

PROCÉDÉ, DISPOSITIF DE COMMANDE ET SYSTÈME PERMETTANT DE DÉTERMINER UNE PROFONDEUR D'UNE SCULPTURE D'UN PNEU

Publication

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Application

**EP 18715518 A 20180320**

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Abstract (en)

[origin: WO2018172317A1] The invention relates to a method for determining a profile depth (td) of a profile (4) of a tyre (2) while a vehicle (1) having the tyre (2) is operating, a control device (20) for a vehicle (1) for determining a profile depth (td) of a profile (4) of a tyre (2) of the vehicle (1), and a system (20, 12) for a vehicle (1), having such a control device (20) and at least one electronic wheel unit (12), wherein there is provision for the profile depth (td) to be determined on the basis of a determined instantaneous dynamic wheel radius ( $r_{1\text{dyn}}$ ) of a wheel (W) of the vehicle (1) having the tyre (2) and a determined instantaneous dynamic internal radius ( $r_{2\text{dyn}}$ ) of the tyre (2). In order to improve the determination of the profile depth (td) with respect to accuracy, a correction variable (F) which is determined in advance for the type of tyre (2) is taken into account, said correction variable (F) characterizing the relationship between, on the one hand, a change in the profile depth (td) and, on the other hand, a resulting change in the difference between the dynamic wheel radius ( $r_{1\text{dyn}}$ ) and the dynamic internal radius ( $r_{2\text{dyn}}$ ).

IPC 8 full level

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