

Title (en)

SYSTEM FOR ESTIMATING THE MAXIMUM ADHERENCE COEFFICIENT BY MEASURING STRESSES IN A TYRE TREAD

Title (de)

SYSTEM ZUR BERECHNUNG DES MAXIMALEN HAFTKOEFFIZIENTEN MITTELS BELASTUNGSMESSUNG BEI EINEM REIFENPROFIL

Title (fr)

ESTIMATION DU COEFFICIENT D'ADHÉRENCE MAXIMAL À PARTIR DE LA MESURE DE CONTRAINTES DANS LA BANDE DE ROULEMENT D'UN PNEU

Publication

**EP 1763663 A1 20070321 (FR)**

Application

**EP 05760878 A 20050627**

Priority

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Abstract (en)

[origin: WO2006010680A1] The invention relates to a system for estimating the maximum adherence coefficient ? in the area of a tyre that comes into contact with a roadway. The inventive system comprises a tyre having a tread which is equipped with at least one tread sensor which can be used to measure at least the tangential stresses that are experienced locally by the tread while the tyre travels along the ground. The system also comprises a signal-processing unit and means for transmitting at least one signal provided by the tread sensor to the processing unit, whereby said processing unit comprises means for indicating the values in the signal that correspond to the passage of the sensor through the above-mentioned contact area between the tyre and the ground. The system further comprises means for calculating an instantaneous value for a pre-selected criterion as a function of a series of values chosen from those relating to the passage of the sensor through the contact area and means for extracting an estimation of the maximum adherence coefficient ? using said instantaneous value.

IPC 8 full level

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