

Title (en)

SOLID TYRE FOR MEASURING ROAD ADHESION OF A VEHICLE EQUIPPED THEREWITH

Title (de)

REIFEN ZUM MESSEN DER BODENHAFTUNG EINES MIT DIESEM AUSGERÜSTETEN FAHRZEUGS

Title (fr)

BANDAGE ELASTIQUE POUR MESURER L ADHERENCE D UN VEHICUL E QUI EN EST EQUIPE SUR UN SOL

Publication

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Application

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Priority

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Abstract (en)

[origin: WO03070492A2] The invention concerns a solid tyre comprising a running tread (1) including at least a unit (3) for measuring the tyre road adhesion, the measuring unit (3) being designed to be in contact with the ground at every turn of the tyre and comprising, viewed on an outer radial surface (5) of the running tread (1), a central zone (10), a surrounding zone (20) around the central zone (10), a sensor (40) responsive to at least a tangential force exerted on the radially outer summit (11) of the central zone (10) being provided opposite the summit (11), the central zone (10) and the surrounding zone (20) fulfilling the two conditions: a) $R_{zzc} < R_{zze}$ b) (i) $R_{xzc}/R_{zzc} > R_{xze}/R_{zze}$ or (ii) $R_{yzc}/R_{zzc} > R_{yze}/R_{zze}$, wherein x, y and z represent the circumferential, axial and radial directions for the tyre, R_{zzc} and R_{zze} represent the rigidity levels of the central zone (10) and of the surrounding zone (20) at a force oriented perpendicularly to the radially outer surface (5), R_{xzc} and R_{xze} represent the rigidity levels of the central zone (10) and of the surrounding zone (20) at a force oriented tangentially to the radially outer surface (5) in the circumferential direction (X) of the tyre, and R_{yzc} and R_{yze} represent the rigidity levels of the central zone (10) and of the surrounding zone (20) at a force oriented tangentially to the radially outer surface (5) in the axial direction (Y).

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