

Title (en)  
DEVICE FOR CONTINUOUSLY MEASURING DEFORMATIONS IN A TYRE DURING THE TRAVEL MOVEMENT OF A MOTOR VEHICLE

Title (de)  
VORRICHTUNG ZUM KONTINUIERLICHEN MESSEN VON DEFORMATIONEN IN EINEM REIFEN WÄHREND DER FAHRT EINES KRAFTFAHRZEUGES

Title (fr)  
DISPOSITIF DE MESURE EN CONTINU DES DEFORMATIONS D'UN PNEU D'AUTOMOBILE EN COURS DE ROULAGE

Publication  
**EP 1163136 A1 20011219 (EN)**

Application  
**EP 01902352 A 20010124**

Priority  
• EP 0100815 W 20010124  
• EP 00830041 A 20000125  
• US 19938500 P 20000425

Abstract (en)  
[origin: WO0154955A1] A device (20) for continuously measuring deformations in a tyre (1), which is mounted on a rim (5), comprises at least one first emitter (7) of a first direct light beam (8), at least one first optical sensor (9) of the luminous intensity and at least one first reflecting element (13, 113) applied to a first portion (21) of an inner surface (4) of the tyre (1); the first emitter (7) is mounted on the rim (5) and is capable of sending the first direct light beam (8) towards the first reflecting element (13, 113); the first optical sensor (9) is also mounted on the rim (5) and is capable of receiving a first reflected light beam from the first reflecting element (13, 113), measuring a first prechosen physical parameter associated with the first reflected light beam and providing a first signal representing the deformation affecting the tyre (1) along the first surface portion (21) during one revolution of the tyre (1).

IPC 1-7  
**B60T 8/00**

IPC 8 full level  
**B60C 23/06** (2006.01); **B60R 16/02** (2006.01); **B60T 8/172** (2006.01); **B60T 8/1755** (2006.01); **G01B 11/16** (2006.01)

CPC (source: EP KR)  
**B60C 23/00** (2013.01 - KR); **B60C 23/066** (2013.01 - EP); **B60T 8/172** (2013.01 - EP); **B60T 2240/04** (2013.01 - EP)

Citation (search report)  
See references of WO 0154955A1

Citation (examination)  
• DE 19744611 A1 19990415 - MAGORI VALENTIN DR ING [DE], et al  
• WO 0111330 A2 20010215 - CONTINENTAL TEVES AG & CO OHG [DE], et al

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**EP 0100815 W 20010124**; AU 3020801 A 20010124; EP 01902352 A 20010124; JP 2001554916 A 20010124; KR 20017012154 A 20010924