

Title (en)

METHOD FOR DETERMINING COMPONENTS OF FORCES EXERTED ON A TYRE AND THE SELF-ALIGNMENT TORQUE

Title (de)

VERFAHREN ZUR BESTIMMUNG DER BEANSPRUCHUNGSKOMPONENTEN AUF EINEN LUFTREIFEN UND EIN SELBST-AUSRICHTUNGSPAAR

Title (fr)

METHODE DE DETERMINATION DE COMPOSANTES D'EFFORTS SUBIS PAR UN PNEUMATIQUE ET DU COUPLE D'AUTO-ALIGNEMENT

Publication

**EP 1417470 A1 20040512 (FR)**

Application

**EP 02767302 A 20020802**

Priority

- EP 0208619 W 20020802
- FR 0110564 A 20010806

Abstract (en)

[origin: WO03014693A1] The invention concerns a method for determining at least one of the characteristics selected among three components of a resultant of forces exerted by the road surface on the contact zone of a tyre and the self-alignment torque generated by the tyre, which consists in deducing said characteristic from at least two measurements of circumferential expansion or contraction in at least one sidewall of the tyre in two spatially fixed points, located at different azimuths along the circumference.

IPC 1-7

**G01M 17/02**; **G01L 5/00**

IPC 8 full level

**G01L 5/16** (2006.01); **B60T 8/172** (2006.01); **G01B 7/16** (2006.01); **G01L 17/00** (2006.01); **G01M 17/02** (2006.01); **G08C 17/02** (2006.01)

CPC (source: EP KR US)

**B60T 8/1725** (2013.01 - EP US); **G01L 5/00** (2013.01 - KR); **G01M 17/02** (2013.01 - EP US)

Citation (search report)

See references of WO 03014693A1

Citation (examination)

- WO 02057711 A1 20020725 - MICHELIN SOC TECH [FR], et al
- WO 0190714 A2 20011129 - MICHELIN SOC TECH [FR], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

**WO 03014693 A1 20030220**; CN 1245615 C 20060315; CN 1539079 A 20041020; EP 1417470 A1 20040512; JP 2004538459 A 20041224; JP 4479993 B2 20100609; KR 20040023725 A 20040318; US 2004158414 A1 20040812; US 7203603 B2 20070410

DOCDB simple family (application)

**EP 0208619 W 20020802**; CN 02815520 A 20020802; EP 02767302 A 20020802; JP 2003519377 A 20020802; KR 20047001891 A 20020802; US 77301504 A 20040205