

Title (en)

TYRE OF WHICH THE CROWN AREA IS PROVIDED WITH A SUB-LAYER COMPRISING A THERMOPLASTIC ELASTOMER AND A MAGNETIC FILLER

Title (de)

REIFEN MIT KRONE MIT EINER TEILSCHICHT MIT EINEM THERMOPLASTISCHEN ELASTOMER UND EINEM MAGNETFILTER

Title (fr)

PNEUMATIQUE DONT LA ZONE SOMMET EST POURVUE D'UNE SOUS-COUCHE COMPORTANT UN ÉLASTOMÈRE THERMOPLASTIQUE ET UNE CHARGE MAGNÉTIQUE

Publication

**EP 3148821 A1 20170405 (FR)**

Application

**EP 15725593 A 20150526**

Priority

- FR 1454781 A 20140527
- EP 2015061557 W 20150526

Abstract (en)

[origin: WO2015181148A1] A radial tyre (1) for a motor vehicle, comprising a crown (2) having a tread (3) provided with at least one radially external portion (3a) intended to enter into contact with the road; two inextensible beads (4), two sidewalls (5) linking the beads (4) to the tread (3), a carcass reinforcement (6) passing into the two sidewalls (5) and anchored in the beads (4); a crown reinforcement or belt (7) disposed circumferentially between the radially external portion (3a) of the tread (3) and the carcass reinforcement (6); a radially internal elastomer layer (8), called "sub-layer", different in composition from the composition of the radially external portion (3a) of the tread, said sub-layer itself being disposed circumferentially between the radially external portion (3a) of the tread (3) and the carcass reinforcement (6), characterized in that said sub-layer comprises at least one thermoplastic elastomer, said thermoplastic elastomer being a block copolymer comprising at least one elastomer block and at least one thermoplastic block, the total amount of thermoplastic elastomer being in a range varying from 65 to 100 phr (parts by weight per hundred parts of elastomer), said sub-layer also comprising at least one magnetic filler.

IPC 8 full level

**B60C 11/00** (2006.01); **B60C 11/02** (2006.01)

CPC (source: EP US)

**B60C 1/0016** (2013.01 - EP US); **B60C 11/005** (2013.01 - EP US); **B60C 99/003** (2013.01 - EP US); **C08L 53/02** (2013.01 - EP US); **C08L 2207/04** (2013.01 - US)

Citation (search report)

See references of WO 2015181148A1

Citation (examination)

THOMAS BAYERL ET AL: "Induction Heating of Thermoplastic Materials by Particulate Heating Promoters", POLYMERS & POLYMER COMPOSITES, 1 January 2012 (2012-01-01), Polymers & Polymer Composites, Vol. 20, No. 4, 2012, pages 333 - 341, XP055598787, Retrieved from the Internet <URL:http://www.polymerjournals.com/pdfdownload/1105875.pdf> [retrieved on 20190624]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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