

Title (en)

PNEUMATIC TIRE THE CROWN OF WHICH IS PROVIDED WITH AN INNER LAYER REDUCING ROLLING NOISE

Title (de)

LUFTREIFEN, DESSEN ZENIT MIT EINER INNENSCHICHT ZUR ROLLGERÄUSCHREDUZIERUNG AUSGERÜSTET IST

Title (fr)

BANDAGE PNEUMATIQUE DONT LA ZONE SOMMET EST POURVUE D'UNE COUCHE INTERNE REDUISANT LES BRUITS DE ROULAGE

Publication

EP 2576684 A1 20130410 (FR)

Application

EP 11724384 A 20110517

Priority

- FR 1054097 A 20100527
- EP 2011057923 W 20110517

Abstract (en)

[origin: WO2011147712A1] The invention relates to a radial tire (1) for a motor vehicle, comprising: a crown (2) comprising a tread (3) provided with at least one radially outer portion (3a) intended to come into contact with the road; two inextensible beads (4), two sidewalls (5) joining the beads (4) to the tread (3), a carcass reinforcement (6) running into the two sidewalls (5) and anchored in the beads (4); a crown reinforcement or belt (7) arranged circumferentially between the radially outer portion (3a) of the tread (3) and the carcass reinforcement (6); a radially inner elastomeric layer (8) referred to as an "inner crown layer", of a different composition from the composition of the radially outer portion (3a) of the tread, said inner crown layer being arranged circumferentially either between the radially outer portion (3a) of the tread (3) and the crown reinforcement (7), or between the crown reinforcement (7) and the carcass reinforcement (6), characterized in that said inner crown layer (8), which is capable of reducing the rolling noise of the tire, comprises a rubber composition containing 50 to 100 percent of a styrene and butadiene-based copolymer having a Tg greater than -40 °C, a reinforcing filler, a hydrocarbonated plasticizing resin and a cross-linking system.

IPC 8 full level

C08L 9/06 (2006.01); **B60C 1/00** (2006.01); **B60C 9/18** (2006.01); **C08L 21/00** (2006.01)

CPC (source: EP US)

B60C 1/00 (2013.01 - US); **B60C 1/0016** (2013.01 - EP US); **B60C 11/005** (2013.01 - EP US); **B60C 19/002** (2013.01 - EP US); **C08L 9/06** (2013.01 - EP US); **C08L 21/00** (2013.01 - EP US); **C08L 57/00** (2013.01 - EP US); **Y10T 152/1081** (2015.01 - EP US)

Citation (search report)

See references of WO 2011147712A1

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

DOCDB simple family (publication)

WO 2011147712 A1 20111201; EP 2576684 A1 20130410; FR 2960544 A1 20111202; FR 2960544 B1 20120817; JP 2013528238 A 20130708; US 2013153108 A1 20130620

DOCDB simple family (application)

EP 2011057923 W 20110517; EP 11724384 A 20110517; FR 1054097 A 20100527; JP 2013511609 A 20110517; US 201113699850 A 20110517