

Title (en)
PNEUMATIC TIRE COMPRISING LOW-CARBON CARCASS REINFORCING CORDS AND HAVING REDUCED THICKNESSES OF RUBBER MIXTURES

Title (de)
LUFTREIFEN MIT KARKASSENVERSTÄRKUNGSFASERN MIT GERINGEM KOHLENSTOFFGEHALT UND KAUTSCHUKMISCHUNGEN MIT REDUZIERTER DICKE

Title (fr)
PNEUMATIQUE COMPORTANT DES CABLES D'ARMATURES DE CARCASSE PRESENTANT UN BAS TAUX DE CARBONE ET DES EPAISSEURS DE MELANGES CAOUTCHOUTEUX REDUITES

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Application
EP 16759796 A 20160902

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Abstract (en)
[origin: WO2017037226A1] The invention relates to a pneumatic tire (1) having a radial carcass reinforcement (2) consisting of at least one ply of metal reinforcement elements, said pneumatic tire comprising a top reinforcement (5) which is radially covered with a tread (6), said tread being joined to two beads (4) via two sidewalls. According to the invention, the metal reinforcement elements of at least one ply of the carcass reinforcement are cords consisting of a plurality of steel wires that have a percentage by weight of carbon C of $0.01\% < C < 0.4\%$, said wires having a maximum flow rate of 20 cm³/min in the permeability test; furthermore, the thickness of the rubber mixture between the inner surface of the tire cavity and that point of a metal reinforcement element of the carcass reinforcement which is closest to said inner surface of the tire cavity is less than 3.2 mm, and the steel wires have a tensile strength R, in MPa, such that $R > 175 + 930.C - 600.1n(d)$ and $R > 1500$ MPa.

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Citation (search report)
See references of WO 2017037226A1

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