

Title (en)

Vehicle tire and method of making same.

Title (de)

Reifen und Verfahren zu deren Herstellung.

Title (fr)

Bandage de roue et son procédé de fabrication.

Publication

EP 0000736 A1 19790221 (EN)

Application

EP 78100515 A 19780726

Priority

US 82330477 A 19770810

Abstract (en)

[origin: US4201261A] A vehicular pneumatic tire which, except for bead cores, is composed solely of an elastomeric blend strengthened by molecular orientation. The blend is a monoolefin copolymer rubber with a polyolefin and sufficient curing agents to effect vulcanization when the blend is subjected to heat and pressure. The process for making the tire comprises preforming an annulus of the elastomeric blend with bead cores adjacent the edges, the diameter of the preform being essentially that of the bead diameter of the completed tire and the axial distance between the beads less than the transverse arcuate dimension of the completed tire. The preform is cured and while still hot following curing, is stretched and shaped to final size and the generally toroidal form characteristic of conventional pneumatic tires with resulting biaxial molecular orientation, which orientation is retained in the tire by cooling it below the melting point of the polyolefin before removing the tire from the mold.

IPC 1-7

B29H 17/00; **B60C 7/00**

IPC 8 full level

B29D 30/08 (2006.01); **B29C 67/00** (2006.01); **B29D 30/00** (2006.01); **B60C 1/00** (2006.01); **B60C 5/01** (2006.01); **B60C 7/00** (2006.01)

CPC (source: EP US)

B29D 30/00 (2013.01 - EP US); **B60C 5/01** (2013.01 - EP US); **B60C 7/00** (2013.01 - EP US); **Y10S 152/905** (2013.01 - EP US)

Citation (search report)

- US 3508988 A 19700428 - WALLER ROY ERNEST SYKES
- DE 1795205 A1 19720316 - DUNLOP RUBBER CO
- [A] NL 293125 A 19650726
- [A] US 3229013 A 19660111 - GUY NEWTON, et al
- [A] US 4000341 A 19761228 - MATSON GALE WENDELL
- [A] FR 1325441 A 19630426 - BAYER AG

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SG99384A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0000736 A1 19790221; CA 1091563 A 19801216; IT 1158960 B 19870225; IT 7826553 A0 19780807; JP S5431102 A 19790307; US 4201261 A 19800506

DOCDB simple family (application)

EP 78100515 A 19780726; CA 307416 A 19780714; IT 2655378 A 19780807; JP 9777578 A 19780810; US 82330477 A 19770810