

Title (en)
RUBBER COMPOSITION COMPRISING A CITRACONIMIDO-MALEIMIDE

Title (de)
EIN CITRACONIMIDOMALEINIMID ENTHALTENDE KAUTSCHUKZUSAMMENSETZUNG

Title (fr)
COMPOSITION DE CAOUTCHOUC COMPORTANT UN CITRACONIMIDOMALEIMIDE

Publication
EP 1664180 A1 20060607 (FR)

Application
EP 04765167 A 20040914

Priority
• EP 2004010253 W 20040914
• FR 0310820 A 20030915

Abstract (en)
[origin: FR2859730A1] In a rubber composition based on diene elastomer, reinforcing filler, vulcanization system and maleimide compound, the last component is a citracomaleimide comprising a maleimide unit and a methylmaleimide unit linked at the imide nitrogens by a hydrocarbon residue. A rubber composition suitable for tire production, based on (i) diene elastomer(s), (ii) reinforcing filler, (iii) a vulcanization system and (iv) a maleimide compound, in which (iv) is a citracomaleimide of formula (I): [Image] R : a hydrocarbon residue. Independent claims are also included for: (1) a method for the production of rubber tire compositions as above with an improved resistance to reversion, by thermomechanical mixing of a diene elastomer with reinforcing filler(s) at up to 110-190[deg]C, cooling to below 100[deg]C, adding the vulcanization system and mixing at a maximum temperature below 110[deg]C, with addition of (I) during any one of these stages; (2) finished or semi-finished articles containing such compositions, for use in vehicle tires.

IPC 1-7
C08K 5/3415; **C08L 21/00**

IPC 8 full level
B60C 1/00 (2006.01); **C08K 5/3415** (2006.01)

CPC (source: EP US)
B60C 1/00 (2013.01 - EP US); **C08K 5/3415** (2013.01 - EP US)

Citation (search report)
See references of WO 2005026250A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
FR 2859730 A1 20050318; EP 1664180 A1 20060607; JP 2007505957 A 20070315; JP 4717814 B2 20110706; US 2006247342 A1 20061102; US 7442733 B2 20081028; WO 2005026250 A1 20050324

DOCDB simple family (application)
FR 0310820 A 20030915; EP 04765167 A 20040914; EP 2004010253 W 20040914; JP 2006526573 A 20040914; US 37497806 A 20060315