

Title (en)
RUBBER COMPOSITION FOR TYRES, REINFORCED WITH A CARBON BLACK COATED WITH AN ALUMINOUS LAYER

Title (de)
KAUTSCHUKZUSAMMENSETZUNG FÜR REIFEN, DIE MIT ALUMINIUMBESCHICHTETEM RUSS VERSTÄRKT IST

Title (fr)
COMPOSITION DE CAOUTCHOUC POUR PNEUMATIQUES, RENFORCEE D'UN NOIR DE CARBONE REVETU D'UNE COUCHE ALUMINEUSE

Publication
EP 1034215 A1 20000913 (FR)

Application
EP 98963524 A 19981127

Priority
• EP 9807679 W 19981127
• FR 9715130 A 19971128

Abstract (en)
[origin: WO9928380A1] The invention concerns a sulphur-vulcanisable rubber composition, capable of being used for making tyres, comprising at least a diene elastomer, a reinforcing filler and a coupling agent ensuring the bond between the reinforcing filler and the elastomer. The invention is characterised in that said reinforcing filler consists wholly or partly of a modified carbon black having the following characteristics: (i) it is coated at least partly with an aluminium oxide and/or hydroxide layer; (ii) its specific BET surface ranges between 30 and 400 m²/g; (iii) its average particle size (in volume), marked dw, ranges between 20 and 400 nm; (iv) its deagglomeration rate, marked alpha, measured by the so-called ultrasound-deagglomeration test, at 10 % of the power of an ultrasound probe of 600 watts, is greater than 1.10⁻³ mu m⁻¹/s.

IPC 1-7
C08K 9/02; C08L 21/00

IPC 8 full level
B60C 1/00 (2006.01); **B60C 5/14** (2006.01); **C08K 9/02** (2006.01); **C08K 9/04** (2006.01); **C08L 21/00** (2006.01)

CPC (source: EP KR)
B60C 1/00 (2013.01 - EP KR); **B60C 1/0016** (2013.01 - EP); **C08K 3/013** (2017.12 - KR); **C08K 3/04** (2013.01 - KR); **C08K 3/36** (2013.01 - KR); **C08K 9/02** (2013.01 - EP KR); **C08K 9/04** (2013.01 - EP); **C08L 7/00** (2013.01 - KR); **C08L 9/00** (2013.01 - KR); **C08L 25/10** (2013.01 - KR)

Citation (search report)
See references of WO 9928380A1

Designated contracting state (EPC)
BE DE ES FR GB IT NL

DOCDB simple family (publication)
WO 9928380 A1 19990610; AU 1876199 A 19990616; BR 9814910 A 20001003; CA 2310131 A1 19990610; CN 1284099 A 20010214; EP 1034215 A1 20000913; JP 2001525436 A 20011211; KR 20010032540 A 20010425

DOCDB simple family (application)
EP 9807679 W 19981127; AU 1876199 A 19981127; BR 9814910 A 19981127; CA 2310131 A 19981127; CN 98813247 A 19981127; EP 98963524 A 19981127; JP 2000523268 A 19981127; KR 20007005783 A 20000526