

Title (en)

RUBBER COMPOSITION FOR TYRE COMPRISING A MULTIFUNCTIONAL POLYORGANOSILOXANE AS COUPLING AGENT

Title (de)

KAUTSCHUKZUSAMMENSETZUNG FÜR REIFEN, DIE EIN FUNKTIONALISIERTES POLYORGANOSILOXAN ALS KUPPLUNGSMITTEL ENTHÄLT

Title (fr)

COMPOSITION DE CAOUTCHOUC POUR PNEUMATIQUE COMPORTANT UN POLYORGANOSILOXANE MULTIFONCTIONNEL A TITRE D'AGENT DE COUPLAGE

Publication

**EP 1297055 A1 20030402 (FR)**

Application

**EP 01947362 A 20010613**

Priority

- EP 0106671 W 20010613
- FR 0007879 A 20000616

Abstract (en)

[origin: WO0196442A1] The invention concerns a sulphur crosslinkable elastomer composition, for use in the manufacture of tyres, comprising at least: i) an isoprene elastomer, in particular natural rubber; ii) a reinforcing inorganic filler, in particular silica; and iii) as coupling agent (white filler/ isoprene elastomer), a multifunctional polyorganosiloxane (POS) comprising, grafted on its silicone atoms, part at least of a hydroxyl or hydrolysable function, at least a group bearing at least an activated double ethylene bond. Said POS is in particular a POS with imide, acid or ester function, whereof the double ethylene bond is activated by at least an adjacent carbonyl group (>C=O). The invention also concerns a tyre or semi-finished product, in particular a running tread for tyre comprising said inventive composition.

IPC 1-7

**C08G 77/26**; **C08G 77/388**; **C08K 5/5425**; **C08K 5/544**; **C08L 21/00**; **B60C 1/00**

IPC 8 full level

**B60C 1/00** (2006.01); **C08J 3/20** (2006.01); **C08K 3/00** (2006.01); **C08K 5/5425** (2006.01); **C08K 5/544** (2006.01); **C08K 9/06** (2006.01); **C08L 9/00** (2006.01); **C08L 21/00** (2006.01)

CPC (source: EP KR US)

**B60C 1/00** (2013.01 - EP US); **C08G 77/26** (2013.01 - KR); **C08K 5/5425** (2013.01 - EP US); **C08L 7/00** (2013.01 - US); **C08L 9/06** (2013.01 - EP US); **C08L 21/00** (2013.01 - US); **C08L 83/04** (2013.01 - EP US); **C08L 7/00** (2013.01 - EP); **C08L 21/00** (2013.01 - EP)

Citation (search report)

See references of WO 0196442A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 0196442 A1 20011220**; AU 6907001 A 20011224; BR 0111734 A 20030527; CA 2412360 A1 20011220; CN 100334135 C 20070829; CN 1441821 A 20030910; EP 1297055 A1 20030402; JP 2004503634 A 20040205; JP 5374005 B2 20131225; KR 20030010732 A 20030205; MX PA02012423 A 20030606; US 2003191225 A1 20031009; US 2005059773 A1 20050317; US 6878768 B2 20050412; US 7186776 B2 20070306

DOCDB simple family (application)

**EP 0106671 W 20010613**; AU 6907001 A 20010613; BR 0111734 A 20010613; CA 2412360 A 20010613; CN 01812834 A 20010613; EP 01947362 A 20010613; JP 2002510574 A 20010613; KR 20027017172 A 20021216; MX PA02012423 A 20010613; US 32023602 A 20021216; US 94618804 A 20040922