

Title (en)

RUBBER COMPOSITION, ELASTOMER, METHOD FOR PRODUCING THE SAME AND USE OF COMPOSITE PARTICLES

Title (de)

KAUTSCHUKZUSAMMENSETZUNG, ELASTOMER, VERFAHREN ZU DEREN HERSTELLUNG UND VERWENDUNG VON VERBUNDEILCHEN

Title (fr)

COMPOSITION DE CAOUTCHOUC, ELASTOMERE, PROCEDE DE FABRICATION DE CES SUBSTANCES ET UTILISATION DE PARTICULES COMPOSITES

Publication

EP 1749054 A1 20070207 (DE)

Application

EP 05741671 A 20050506

Priority

- EP 2005004933 W 20050506
- DE 102004026685 A 20040528

Abstract (en)

[origin: WO2005118704A1] The invention relates to a composition comprising a) rubber, b) a cross-linking agent, c) chalcogenides of metals and/or metals as the cross-linking aids and/or age protecting agent, whereby at least one of the components b) and c) is present as composite particles that are constituted of carrier particles to the surface of which particles from the active material having an average diameter of less than 25 μm or layers thereof having an average layer thickness of less than 25 μm are applied and/or conglomerates from a plurality of carrier particles to the surface of which particles from the active material having an average diameter of less than 25 μm or layers thereof having an average layer thickness of less than 25 μm are applied, and d) optionally additional conventional additives. The inventive composite particles allow to reduce the content in active material while offering comparable properties or to improve the aging resistance of elastomers and/or to increase productivity.

IPC 8 full level

C08K 9/02 (2006.01); **C08K 9/04** (2006.01); **C08K 9/12** (2006.01)

CPC (source: EP US)

C08K 9/02 (2013.01 - EP US); **C08K 9/04** (2013.01 - EP US); **C08K 9/12** (2013.01 - EP US); **Y10T 428/265** (2015.01 - EP US); **Y10T 428/269** (2015.01 - EP US)

Citation (search report)

See references of WO 2005118704A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005118704 A1 20051215; DE 102004026685 A1 20051222; DE 102004026685 B4 20070712; EP 1749054 A1 20070207; JP 2008500412 A 20080110; US 2008014438 A1 20080117

DOCDB simple family (application)

EP 2005004933 W 20050506; DE 102004026685 A 20040528; EP 05741671 A 20050506; JP 2007513731 A 20050506; US 59794806 A 20061128