

Title (en)

SURFACE-MODIFIED ORGANIC FILLERS AND RUBBER COMPOSITIONS CONTAINING SAME

Title (de)

OBERFLÄCHENMODIFIZIERTE ORGANISCHE FÜLLSTOFFE UND DIESE ENTHALTENDE KAUTSCHUKZUSAMMENSETZUNGEN

Title (fr)

CHARGES ORGANIQUES À SURFACE MODIFIÉE ET COMPOSITIONS DE CAOUTCHOUC LES CONTENANT

Publication

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Application

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Abstract (en)

[origin: WO2022243486A1] The present invention relates to: an organic filler, wherein at least one organic modifier is covalently bonded to the organic filler (i) at least via some of the oxygen atoms of at least one functional group of the filler, which group is selected from phenolic OH groups, phenolate groups, aliphatic OH groups, carboxylic acid groups, carboxylate groups and mixtures thereof and/or (ii) at least via some of the carbon atoms of the filler which are in the ortho-position in relation to phenolic OH groups and/or phenolate groups; a rubber composition comprising at least one rubber and at least said above-mentioned filler; a vulcanizable rubber composition additionally comprising a vulcanization system; a vulcanized rubber composition obtainable therefrom; and a use of the above-mentioned filler for preparing (vulcanizable) rubber compositions for use in the production of tires, preferably pneumatic tires and solid rubber tires, preferably for the tread, side wall and/or inner liner thereof, and/or for use in the production of technical rubber articles, preferably profiles, seals, dampers and/or hoses.

IPC 8 full level

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