Title (en)
METHOD FOR CONTROLLED METATHESIS DEPOLYMERIZATION OF SYNTHETIC RUBBER IN A SOLUTION

Title (de)
VERFAHREN ZUR KONTROLLIERTEN METATHESEN-DEPOLYMERISATION VON SYNTHETISCHEM KAUTSCHUK IN EINER LÖSUNG

Title (fr)
PROCÉDÉ DE DÉPOLYMÉRISATION CONTRÔLÉE D'UN CAOUTCHOUC SYNTHÉTIQUE EN SOLUTION PAR MÉTATHÈSE

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Application
EP 14825152 A 20141222

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Abstract (en)
[origin: WO2015097192A1] The invention relates to a method for the depolymerization of a block copolymer comprising a polyisoprene block and at least one polybutadiene block for the preparation of a modified polyisoprene mainly comprising the species functionalized on the at least one polybutadiene block by one or more functional groups, wherein said method comprises the following steps: i) a step of preparing a block copolymer solution comprising the block copolymer and one or more organic solvents, then ii) a step of adding, to the block copolymer solution, one or more transfer agents comprising said functional group or groups, iii) a step of adding, to the block copolymer solution, one or more metathesis catalysts exhibiting higher activity on disubstituted carbon-carbon double bonds than on tri- and tetra-substituted carbon-carbon double bonds. The invention also relates to a modified polyisoprene obtainable using the aforementioned method. Lastly, the invention relates to an elastomeric composition made from the aforementioned modified polyisoprene.

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