

Title (en)

CHEMICAL FUNCTIONALIZATION OF POLYMERS

Title (de)

CHEMISCHE FUNKTIONALISATION VON POLYMEREN

Title (fr)

CHANGEMENT DE LA FONCTIONNALITE CHIMIQUE DES POLYMERES

Publication

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Application

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Abstract (en)

[origin: WO9422053A1] Methods for covalently modifying polymeric substances, and various so modified polymers, are disclosed. The methods require a functionalizing reagent comprising molecules each having a nitrenogenic group and a functionalizing group. The functionalizing-reagent molecules are brought into reactive proximity to the polymer molecules and exposed to a reaction-energy source such as photons, electrons, or heat, which converts the nitrenogenic groups to nitrene intermediates that covalently react with -CH, -NH, -OH, -C=C-, C-C, and other groups to cause nitrene addition or insertion of the functionalizing groups to the polymer molecules. Functionalization can be via a one- or multiple-stage process.

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