

Title (en)
POLYSACCHARIDE DERIVATIVES, THEIR PRODUCTION AND USE

Title (de)
POLYSACCHARID-DERIVATE, DEREN HERSTELLUNG UND VERWENDUNG

Title (fr)
DERIVES DE POLYSACCHARIDES, LEUR PRODUCTION ET LEUR UTILISATION

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Application
EP 04819665 A 20041207

Priority

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Abstract (en)
[origin: WO2005054300A1] The invention relates to polysaccharide derivatives consisting of a biopolysaccharide skeleton and organic groups with a molecular weight <5 000 that are connected to said skeleton via ether bridges. The organic groups have the general formula (Ia) or (Ib). Preferably, alpha - or beta -(1,4)- and/or alpha or beta -(1,3)-glucan units are used as the biopolysaccharide component, such as e.g. xyloglucans, glucomannans such as guar gum or locust bean gum, xanthan gum, carrageenans, alginates and pectins. The invention also relates to a method for producing said polysaccharide derivatives, according to which the biopolysaccharide component is reacted with an N-alkyl maleamic acid or a salt thereof in the presence of a base catalyst, whereby the maleamide component can also be cyclised prior to or following the reaction with the biopolysaccharide component. A wide variety of polysaccharide derivatives can thus be obtained, said derivatives being especially suitable for bonding to cellulose fibres, a fact that is of particular interest for the treatment of textiles and that makes the inventive polysaccharide derivatives particularly suitable as bio-degradable fabric softeners.

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