

Title (en)
METHOD FOR HYDROPHILIC MODIFICATION OF A SUBSTRATE USING A TREATMENT IN AN AQUEOUS MEDIUM WITH A WATER SOLUBLE AND HEAT-SENSITIVE POLYMER

Title (de)
VERFAHREN ZUR HYDROPHILEN VERÄNDERUNG EINES SUBSTRATES DURCH BEHANDLUNG IN WÄSSRIGEM MILIEU MIT EINEM WASSERLÖSLICHEN, WÄRMEEMPFINDLICHEN POLYMEREN

Title (fr)
PROCEDE DE MODIFICATION HYDROPHILE D'UN SUBSTRAT METTANT EN JEU UN TRAITEMENT EN MILIEU AQUEUX PAR UN POLYMERE SOLUBLE DANS L'EAU ET THERMOSENSIBLE

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Abstract (en)
[origin: WO0178907A1] The invention concerns a method which consists in treating in an aqueous medium with a water soluble modifying (co)polymer having heat-sensitive properties, in particular a LCST between 3 and 100 DEG C. The method consists in treating the substrate in an aqueous medium by the heat-sensitive modifying (co)polymer at a temperature not less than the LCST of the heat-sensitive (co)polymer to precipitate the latter onto the substrate while it is being treated on account of its hydrophobic character in this temperature domain. In the case where the substrate to be treated cannot be subjected to temperature exceeding a value T, the method consists in treating the substrate in an aqueous medium at a temperature < T, the water soluble and heat-sensitive (co)polymer being then selected among those having a LCST not higher than treatment temperature. In the case where the substrate is treated in an aqueous medium at a temperature not higher than the LCST of the water soluble heat-sensitive (co)polymer, the (co)polymer is selected among those having functional, ionic or compatibility units enabling to fix it on the substrate.

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Cited by
CN107216430A; CN109487561A

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