

Title (en)

AQUEOUS COAGULATING AGENT FOR LIQUID CRYSTAL SOLUTIONS WITH BASE OF CELLULOSE SUBSTANCES

Title (de)

WÄSSRIGE KOAGULATIONSMITTEL FÜR FLÜSSIGKRISTALLLÖSUNGEN AUF BASIS VON CELLULOSEHALTIGEN MATERIALIEN

Title (fr)

AGENT COAGULANT AQUEUX POUR SOLUTIONS CRISTAL-LIQUIDE A BASE DE MATIERES CELLULOSIQUES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9817848A1] The invention concerns an aqueous coagulating agent for a liquid crystal solution with a base of cellulose substances, characterised by the following: it contains water and at least one additive; when it is contacted with said solution, the diffusion kinetics (diffusion front D) of the coagulating agent and that of precipitation (precipitation front P) of the cellulose substances by the action of said agent, measured under the microscope for the so-called "coagulation test" for an additive proportion of 20 wt.%, comply with the following relationship: $0.55 < K_p/K_d \leq 1$, K_p and K_d being respectively the factors of diffusion and precipitation (respective "Fick" straight line gradients), expressed in $\mu\text{m/s}^{1/2}$. The invention also concerns a method for spinning a solution of liquid crystal solution with a base of cellulose substances, in particular the "dry-jet-wet-spinning" method, using a coagulating agent as per the invention as well as spun articles, fibers or films, obtained by this method.

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