

Title (en)
LIGNIN BASED COLLOIDAL COMPOSITIONS

Title (de)
AUF LIGNIN BASIERENDE KOLLOIDZUSAMMENSETZUNGEN

Title (fr)
COMPOSITIONS COLLOIDALES A BASE DE LIGNINE

Publication
EP 1058713 A1 20001213 (EN)

Application
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Priority
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Abstract (en)
[origin: WO9942526A1] A lignin based colloidal dispersion into lubricating oil or bitumen is prepared from black liquor residue. In one process, in the first step, the black liquor is converted from its aqueous colloidal system to an anhydrous colloidal dispersion in a re-refined lubricating oil medium in which a surfactant, such as DDBSA (dodecylbenzene sulfuric acid), is used to promote the colloidal dispersion. In second step, bitumen is mixed with the product obtained from said first step. In another process, bitumen first is treated with an inorganic acid, such as sulfuric acid, at elevated temperature. The alkaline black liquor is then added slowly to the acid-treated bitumen under agitation for de-watering at a controlled rate to form a stable, substantially anhydrous, colloidal dispersion in the bitumen.

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IPC 8 full level
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