

Title (en)
HYDROPHOBIC TREATMENT OF WOOD

Title (de)
HYDROPHOBE BEHANDLUNG VON HOLZ

Title (fr)
TRAITEMENT HYDROPHOBE DU BOIS

Publication
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Application
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Abstract (en)
[origin: WO2018224490A1] The present invention relates to a process for the esterification of all or some of the hydroxyl functions of a wood-type material and/or of one of the products derived therefrom, characterized in that said material is brought into contact with a fluid in a supercritical state carrying at least one natural unsaturated plant oil under conditions suitable for carrying out the esterification, and comprising at least the steps of:
i) depositing, within a chamber, a wood-type material preferably having a water content of less than 20% by weight relative to its total weight and at least one natural unsaturated plant oil carried, preferably dissolved, in a liquid fluid capable of changing to a supercritical state under pressure;
ii) subjecting the mixture to pressure conditions that are effective for the impregnation of the material by the oil; and iii) exposing the material impregnated by the oil obtained in step ii) to pressure and temperature conditions that are effective for causing the fluid to change to a supercritical state and carrying out the esterification reaction.

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