

Title (en)

DEVICE FOR IMPROVING THE ACOUSTIC PROPERTIES OF SPRUCE TONE WOOD

Title (de)

VERFAHREN ZUR VERBESSERUNG DER AKUSTISCHEN EIGENSCHAFTEN VON FICHTEN-KLANGHOLZ

Title (fr)

PROCÉDÉ DESTINÉ À L'AMÉLIORATION DES PROPRIÉTÉS ACOUSTIQUES DU BOIS DE RÉSONANCE D'ÉPICEA

Publication

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Application

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Abstract (en)

[origin: WO2017114856A1] The invention relates to a method for improving the acoustic properties of spruce resonance wood for musical instruments. At least one resonance wood blank undergoes a treatment with *Physisporinus vitreus* under controlled sterile conditions. The previously sterilized resonance wood blank is immersed into a liquid medium enriched with fungus mycelium and held therein in the dark for a working time and finally sterilized. During the working time, a temperature of 18 to 26 °C and a relative humidity of approximately 60% to approximately 80% are set. Because the liquid medium contains nanofibrillated cellulose (NFC) in a quantity of 200 to 300 g per liter, a reproducible, consistent improvement of the acoustic properties of the resonance wood is ensured without local defects.

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