

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

**EP 3398189 A1 20181107 (DE)**

Application

**EP 16829090 A 20161228**

Priority

- EP 15203220 A 20151230
- EP 16164755 A 20160411
- EP 2016082761 W 20161228

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.

IPC 8 full level

**G10D 1/00** (2006.01)

CPC (source: EP US)

**G10D 3/22** (2020.02 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2017114856 A1 20170706**; CN 108604441 A 20180928; EP 3398189 A1 20181107; EP 3398189 B1 20191030; JP 2019502165 A 20190124; US 10388260 B2 20190820; US 2019088235 A1 20190321

DOCDB simple family (application)

**EP 2016082761 W 20161228**; CN 201680077145 A 20161228; EP 16829090 A 20161228; JP 2018533895 A 20161228; US 201616065819 A 20161228