HEMPWO D

Tom Mathys Licensing Director





Murray, Kentucky



block



flooring

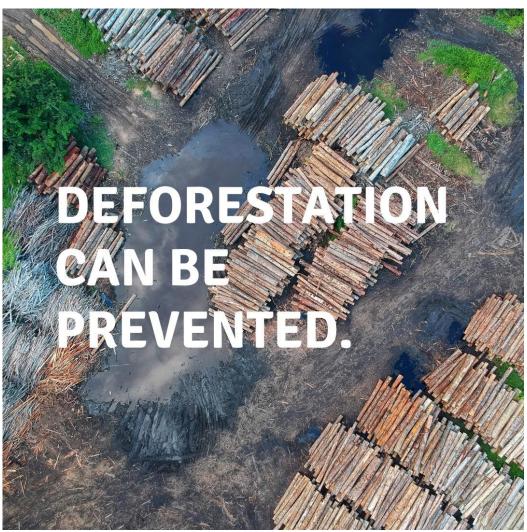




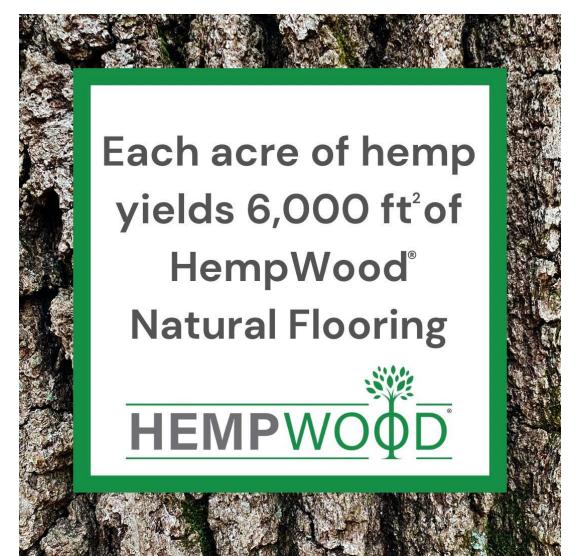
Main goals:

- fight deforestation plant/4 months vs trees/100-150 years
- offer healthy, high-quality alternative to regular wood
- reduce CO2 levels HempWood® Organic Flooring
 only carbon-negative wood flooring in the US
- ❖ license program set up HempWood® factories worldwide









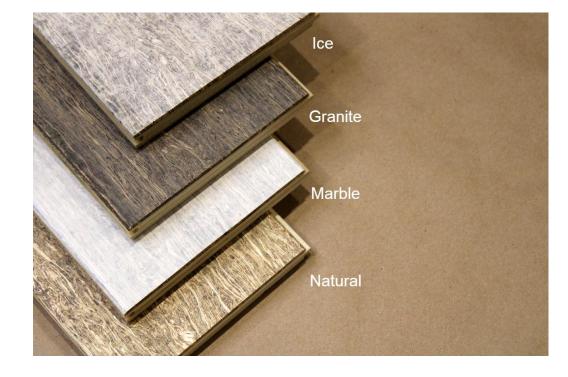
1 hectare of hemp =

1400m² of HempWood flooring



Murray, Kentucky





block flooring

INTELLECTUAL PROPERTY



(12) United States Patent Wilson

(54) SYSTEM FOR AND METHOD OF MANUFACTURING HEMP PRODUCTS

(71) Applicant: Gregory A. Wilson, Edgewater, MD (US)

(72) Inventor: Gregory A. Wilson, Edgewater, MD (US)

(73) Assignee: Gregory A. Wilson, Edgewater, MD (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 55 days.

(21) Appl. No.: 15/338,298

(22) Filed: Oct. 28, 2016

(65) Prior Publication Data US 2018/0119338 A1 May 3, 2018

(51) Int. CL

B32B 5/12 (2006.01)

D04H 3015 (2012.01)

D04H 304 (2012.01)

D04H 307 (2012.01)

D04H 372 (2006.01)

B27N 302 (2006.01)

(52) U.S. Cl.

 (10) Patent No.: US 10,240,285 B2 (45) Date of Patent: Mar. 26, 2019

(58) Field of Classification Search

CPC . Y10T 428/249925; Y10T 428/249942; Y10T 428/249944; Y10T 428/31978; Y10T 428/31982; Y10T 428/31989; D06N 2701045

See application file for complete search history.

References Cited

U.S. PATENT DOCUMENTS

5,939,209 A 8/1999 Shibuya et al. 6,037,049 A 5/2000 Tingley (Continued)

OTHER PUBLICATIONS

International Search Report and Written Opinion for International Appl. No. PCT/US2017/058571 issued by USPTO/ISA dated Jan. 4, 2018

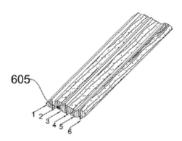
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Primary Examiner — Alexander S Thomas (74) Attorney, Agent, or Firm — Steven M. War, Esq.

ABSTRACT

A manifectured heury product comprising a plurality of adhesively board and present heury strands where the nasjority of the heury strands are of generally the same length and comprise a naturally-occurring, generally elements in terror to receive the same threat the strand that has been at least permetted by one acts of the strand that has been at least permetted by an adhesive. The heury strands are occurred roughly portfulled so one nother along their length. The manufactured heury product comprises an amount of industries between about 5% to shout 45% by usight. The manufactured heury product comprises an amount of industries between about 5% to shout 45% by usight. The manufactured heury products can be used as a wood substitute in terms of appearance and performance. The manufactured heury products may have aesthetic and structural qualities that are wishable for high traffic, high visibility applications such as boards, blocks, bearns, ponels, flooring, finantine, building materials and other wood products.

11 Claims, 12 Drawing Sheets



TIS010843374R2

(12) United States Patent Wilson

(10) Patent No.: US 10,843,374 B2 (45) Date of Patent: *Nov. 24, 2020

(54) SYSTEM FOR AND METHOD OF MANUFACTURING HEMP PRODUCTS

(71) Applicant: Gregory A. Wilson, Edgewater, MD (US)

(72) Inventor: Gregory A. Wilson, Edgewater, MD

(*) Notice: Subject to any disclaimer, the term of this potent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: 16/364,089

(22) Filed: Mar. 25, 201

(65) Prior Publication Data
US 2019/0283269 A1 Sep. 19, 2019

Related U.S. Application Data

(63) Continuation-in-part of application No. 15/338,298, filed on Oct. 28, 2016, now Pat. No. 10,240,285.

(51) Int. Cl. B32B 5/12 B27N 3/04

328 5/12 (2006.01) 27N 3/04 (2006.01) (Continued)

(58) Field of Classification Search CPC . Y10T 428/249925; Y10T 428/249942; Y10T 428/249944; Y10T 428/31978; (Continue).

References Cited

U.S. PATENT DOCUMENTS

5.939,209 A \$1999 Shibuya et al. 6.037,049 A 5/2000 Tingley (Continued)

FOREIGN PATENT DOCUMENTS

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OTHER PUBLICATIONS

International Search Report and Written Opinion for International Appl. No. PCD/US2017/058571 issued by USPTO/ISA-dated Jun. 4,

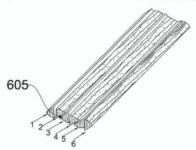
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Primary Examiner — Alexander S Thomas (74) Attorney, Agent, or Firm — Steven M. War, Esq.

ABSTRACT

A manufactured bemp product comprising a plurality of adhosively bonded and pressed hemp strands where the unjectivy of the hemp strands are of generally the same kergth and comprise a narmally-occurring, generally clonges internal structure extending generally along one cases of this strand that has been at least partially is terrilly presion and least permeated by an adhesive. The hemp strands are at least partially along the strands are and least permeated by an adhesive. The hemp strands are and the strands are along the strands are along the strands and the strands are along the strands are along the strands are along the strands and the strands are along the strands are along the strands are along the strands are strands and the strands are strands and the strands are strands and strands are strands and strands are strands as a strands and strands are strands and strands are strands as a strands and strands are strands and strands and strands are strands and strands are strands and strands and strands are strands and strands and strands are strands and strands are strands and strands and strands are strands and strands and strands are strands and strands are strands and strands and strands are strands and strands and strands are strands and strands are strands and strands and strands are strands are strands and strands are strands are strands are strands are strands are

24 Claims, 17 Drawing Sheets



Trademarks:

HempWood®



Patents:

10,843,374

10,240,285

LICENSE AGREEMENT

BETWEEN

FIBONACCI LLC, having its registered office at 301 Rockwood Rd, Murray, Kentucky, 42071 United States of America, represented by Gregory A. Wilson, CEO, and Tom Mathys, Licensing Director,

hereinafter referred to as "Licensor".

AND

XXXXXX, having its registered office at XXXXX, represented by XXXXX.

hereinafter referred to as "Licensee",

WHEREAS:

FIBONACCI LLC owns the exclusive world-wide right to grant licenses to exploit:

- Know-how for the manufacture of manufactured hemps product comprising a plurality of adhesively-bonded and pressed hemp strands;
- Any and all pending and granted patent rights based upon the priority Patent Applications Numbered US15/338,298 and US16/364,089 for the production of such products; and for
- The registered trademark HempWood®



Licensee wishes to exploit the know-how, industrial designs, patent rights and trademark for the manufacture and sales of Licensor's products;

HEMPWOOD





PRODUCTION PROCESS COLD PRESS TECHNOLOGY



hemp bale



Resin application



unbaling



drying racks



fibre + hurd



pre-press



prep for resin



cold press



prep for resin



finished block

EACH BLOCK GIVES 2 TYPES OF VISUALS





"rift" (more linear)

"live" (more random)

HEMPWOOD® IS A FACE-GRADE INTERIOR HARDWOOD.

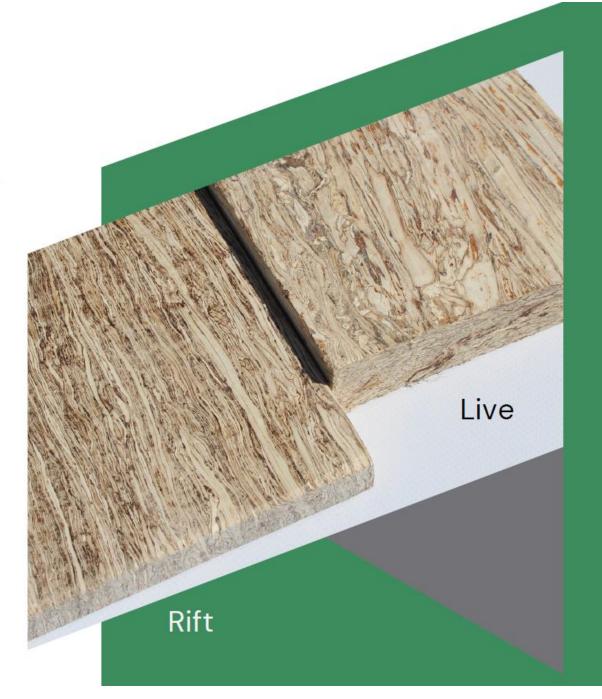
HempWood comes in rift and live sawn. (See the picture to the right for examples)

As a rule of thumb, HempWood® can replace all of the applications of American white oak.

Examples

- cabinets
- counters
- furniture
- shelving
- flooring

You will not frame a house with HempWood®





Lumber



Engineered Hardwood Flooring



Panels



Cabinet Kits



Woodturning Blanks



Table Kits











HempWood® Natural Flooring

The only **carbon-negative** flooring in the USA from cradle to gate





ENERGY

Due to the location of HempWood® Headquarters, all electrical energy is hydropower, meaning fossil fuels were not used to generate the power.



Kentucky Dam

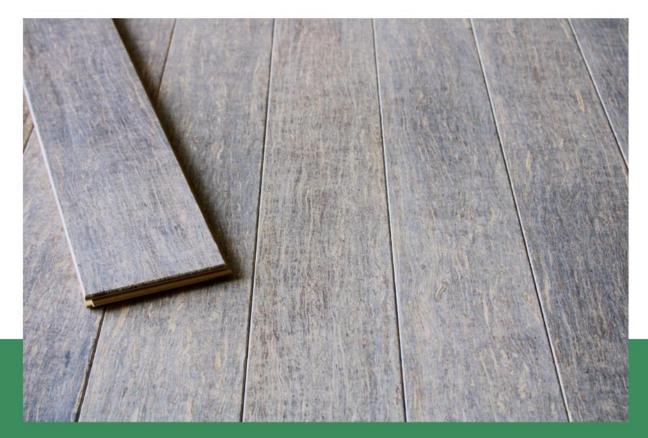


HempWood® converts its waste into energy.

By using a bio-burner, HempWood® is able to take material that would have been wasted and use it for heating the dryers and ovens

On the bio-burner, there is also a scrubber that eliminates carbon emissions into the atmosphere







LET'S GET IN TOUCH

301 Rockwood Road, Murray, KY 42071 888-338-1235 www.hempwood.com sales@hempwood.com @hempwood_

