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Nov. 18, 1924.

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E. B. BINFORD

METHOD AND MEANS FOR FORCING STAIN AND THE LIKE INTO SHINGLES IN BUNDLES

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Filed March 14, 1924

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Edwin B. Binford BY_ TATTOPNEV

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1,516,036 Patented Nov. 18, 1924. UNITED STATES PATENT OFFICE.

EDWIN B. BINFORD, OF PASADENA, CALIFORNIA.

FORCING STAIN AND THE LIKE INTO SHINGLES IN AND MEANS FOR bundles.

Application filed March 14, 1924. Serial No. 699,199.

To all whom it may concern: Be it known that I, EDWIN B. BINFORD, a citizen of the United States, residing in the city of Pasadena, county of Los Angeles, 5 and State of California, have invented certain new and useful Methods and Means for Forcing Stain and the like into Shingles in Bundles, of which the following is a specification.

- In staining shingles with creosote, or other liquid, it is customary to dip a bundle of shingles bodily down into the liquid in order to stain or coat the same and then to subject the bundle of shingles to a whirling 15 motion or other action in order to properly distribute the stain or liquid and to throw off any surplus liquid. This is fully de- back against the outer wall of the vat, in a scribed in my application, filed September 24, 1923, Serial No. 664,414.
- I have invented a new method of forcing

base or support, 6, as illustrated. The motor drives a crank, or eccentric, 7, to which is attached an arm, 8, extended through a suitable box or packing at 9, and has a head, as 10. This is hereinafter referred to as a vi- 60 brator adapted to bear against the side of a bundle of shingles, S, when placed down in the vat or container, edgewise, as illustrated. Pivotally mounted in said vat or container, 2, on a shaft 11, is a holding mem- 65 ber or arm, 12, its shaft, 11, being provided at its opposite end with an arm, 13, the free end of which is attached for operation to a foot pedal, 14, pivotally mounted on the foot of the frame, as at 15. A spring, 16, nor-70 mally holds the arm 13 down, and arm 12 manner which will be easily understood from the drawings.

Adjustably mounted at one end of the 75 the stain into the bundle of shingles when frame, is a swinging arm, 17, carrying an vided, as at 19, sliding in a suitable guide- 85 way, with a cable, 29, attached to the de-The operation of the mechanism above described may be briefly described as follows: 90 The bundle of shingles is placed edgewise down into the vat or container, 2, as indicated. The operator places his foot on the foot pedal, 14, which operates through its 40 derstood, however, that many different connections to move the arm 12, against the 95 forms of mechanism, or instrumentalities bundle of shingles and to press said bundle can be used to carry out the new method con- of shingles against the vibrator, 10, as will be clear. The motor 4, is then started and In the drawings, the figure is a perspective the vibrator is operated rapidly, causing a 45 vew of one type of machine capable of per- rapid vibration transversely through the 100 bundle of shingles and causing the shingles to be compressed and released in such a way Referring now in detail to the drawings, as to actually force, or suck, the liquid or stain into the innermost part of the bundle without releasing the binder of said bundle. 10t Thus I have provided a new and useful method of forcing stain or liquid into a bundle of shingles without taking the same

it is dipped into the liquid and while it is adjustable depresser, 18, having the shinglesubmerged therein, whereby I am able to engaging frame, 18^a, the rack bar, 18^b, adaptthoroughly saturate the shingles in the ed to be engaged by the latch, 18°, for hold-25 bundle and work the liquid or stain into the ing said depressor down on top of the bundle 80 innermost portions of the shingles making of shingles to keep said bundle of shingles up the bundle. I accomplish this by causing immersed, or to be raised to the position a vibration of the bundle of shingles in the shown in full lines and swung out of the liquid, the vibration under power tending way, as indicated. A weight may be pro-30 to cause a sort of bellows action in the bundle of shingles, that is, the shingles are intermittently compressed and released, the pressor, as at 21, for automatically raising compression forcing the air from between the depressor when the latch 18° is released. the shingles and the releasement allowing 35 the liquid to be sucked or forced into the spaces between the shingles.

In order to fully explain my invention, I have illustrated one practical means for accomplishing the desired result, it being unstituting my invention.

forming my new method of forcing stain into a bundle of shingles.

I will describe this particular form of the 50 invention. A suitable base, 1, is provided for supporting a vat or container 2, for the liquid, the back wall of said vat or container being connected to a horizontal floor, 3, thus leaving a space thereunder, designated 4, in apart, making possible a better job of stain-55 which is mounted a motor, 5, on a suitable ing shingles in bundles and doing it faster. 11(

The bundle can then be subjected to a ing stain and the like into a bundle of be desired.

ing here made, except as I may be limited of shingles flatwise thereof. by the hereto appended claims. 5. Means for forcing stain and the like

I claim:

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merging the bundle in the liquid and in com- motor to said bundle for causing an alterpressing and releasing the same flatwise, nate compression and releasing action in

whirling motion to throw off the surplus shingles which consists in submerging the liquid, or can be allowed to drain, as may bundles of shingles into the stain, and causing the rapid vibration thereof while sub-5 I do not limit my invention to the show- merged in a direction through said bundle 35

into a bundle of articles including a con-1. The method of forcing a liquid into a tainer for the liquid and said bundle, a 10 bundle of shingles which consists in sub- motor, and operative connections from the 40 whereby to cause the liquid to enter the said bundle, whereby to cause said liquid to spaces between the shingles. penetrate between and into said articles. 15 2. The method of forcing a staining liquid 6. In combination, a vat to receive liquid 45 against said vibrator, and means for power 3. The herein described method for forc- operating said vibrator, substantially as de-

- into a bundle of shingles which consists in stain and the like, said vat being large submerging the bundle into the liquid and enough to receive a bundle of shingles therethen applying to said bundle of shingles, in, a vibrator in said vat to bear against flatwise thereof, a compressing and releas- said bundle of shingles flatwise thereof, 20 ing action in a vibratory manner, substan- means for holding said bundle of shingles 50 tially as described.
- ing stain and the like into shingles in scribed. bundles which consists in submerging the ²⁵ bundles of shingles in the stain, and applying thereto a vibratory action flatwise thereof, whereby to compress and release alternately the shingles in each bundle, for the purpose described.

30 4. The herein described method for forc-

Signed at Pasadena, Los Angeles County, California, this 8th day of March, 1924.

EDWIN B. BINFORD.

Witnesses:

IRA J. H. SYKES, W. R. LITZENBERG.

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