(No Model.)

G. W. LARAWAY.

MECHANISM FOR USE IN SUPPORTING THE PAPER PULP MOLDED HEADS OF BARRELS WHILE BEING DRIED.

No. 345,705. Patented July 20, 1886.

Fig. 3.

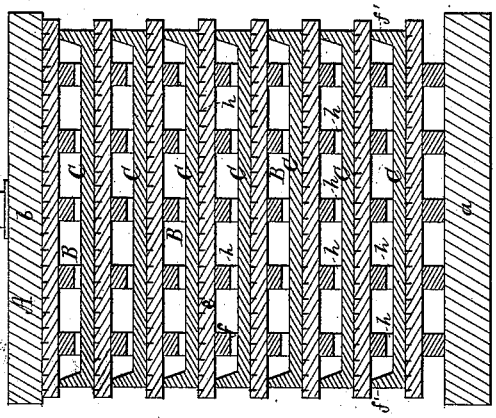


Fig. 6.

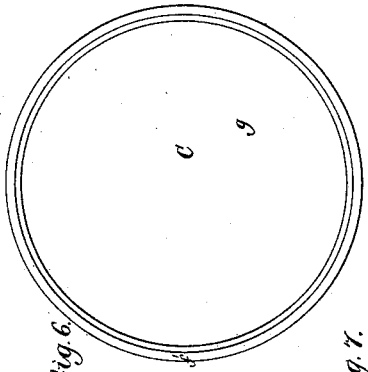


Fig. 7.

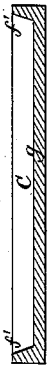


Fig. 2.

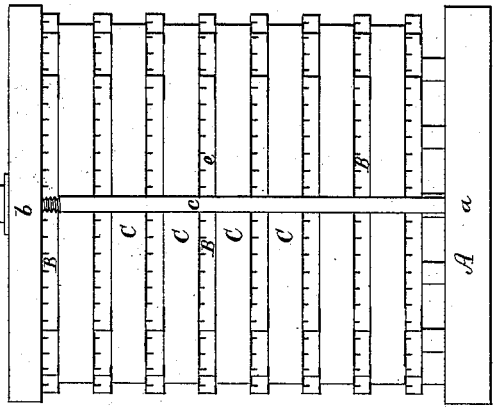


Fig. 4.

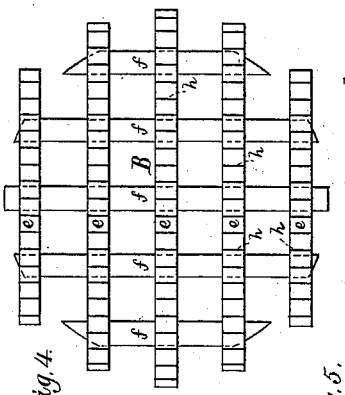
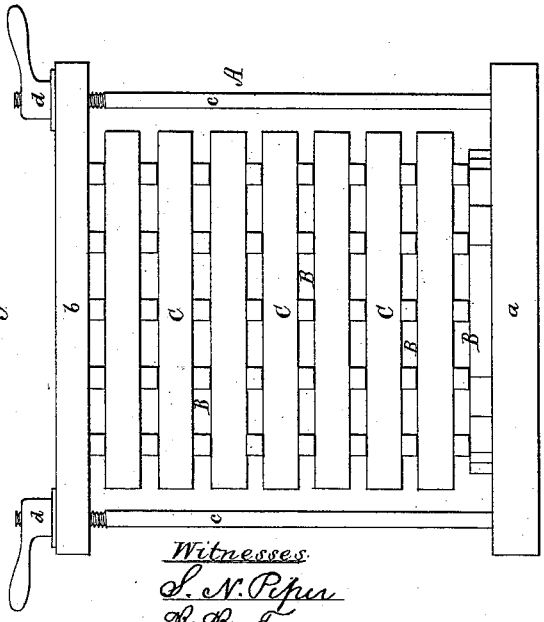


Fig. 5.

Fig. 1.



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UNITED STATES PATENT OFFICE.

GEORGE WASHINGTON LARAWAY, OF BOSTON, MASS., ASSIGNOR, BY MESNE ASSIGNMENTS, TO HIMSELF AND JOHN SEIBERLING, OF AKRON, OHIO.

MECHANISM FOR USE IN SUPPORTING THE PAPER-PULP MOLDED HEADS OF BARRELS WHILE BEING DRIED.

SPECIFICATION forming part of Letters Patent No. 345,705, dated July 20, 1886.

Application filed October 14, 1885. Serial No. 179,903. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WASHINGTON LARAWAY, of Boston, in the county of Suffolk, of the Commonwealth of Massachusetts, have invented a new and useful Improvement in Mechanism for Use in Supporting the Paper-Pulp Molded Heads of Barrels While in the Act of Being Dried; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a side elevation, Fig. 2 an end view, and Fig. 3 a transverse section, of the mechanism constituting my invention as applied to a series of barrel-heads. Fig. 4 is a top view, and Fig. 5 an edge elevation, of one of the skeleton frames to be described. Fig. 6 is a top view, and Fig. 7 a transverse section, of one of the molded paper-pulp barrel-heads which my invention is designed to support while such head or heads may be in the act of drying.

In such drawings, A denotes a press, of which *a* is the base or bed; *b*, the platen or follower, and *c c*, &c., a series of screw-threaded rods extending upward from the bed through the platen, and provided above the latter with nuts *d*, screwed upon them, such nuts and screws being for forcing the platen downward toward the bed.

With this press is used a series of skeleton frames, B, each of which consists of two sets of bars, *e* and *f*, those of each set being in one plane and parallel to each other at suitable distances apart. One set is arranged upon the other with the bars of each crossing those of the other at right angles. The ends of the bars *f* of the lower set are in the circumference of a circle having a diameter equal to that of the inner periphery of the flange *f'* of the barrel-head C when such head is dry, and such bars have a depth corresponding to those of such flange. The bars *e* of the upper set, when used, project over and upon the upper edge of the said flange.

Each barrel-head consists of a disk, *g*, and an annulus or flange, *f'*, extending upward therefrom at its periphery, the outer curved surfaces of the disk and flange being alike in diameter, and either cylindrical or slightly tapering or conical as occasion may require. Furthermore, each of the bars *e* of the upper set has in its upper edge, crosswise thereof, a series of grooves, *h*, each of the bars *f* of the lower set being similarly grooved in its lower edge, such grooves being to facilitate the escape of moisture when the barrel-heads are being dried.

In using the described devices, a series of the lower skeleton frames B is first laid on the base or bed of the press, the lower bars, *f*, of each resting on such bed, and on each of such frames a molded and moist barrel-head, of the kind described, is placed flange upward. This having been done, there is inserted within each of the said heads one of the skeleton frames, so that its lower set of bars thereof shall be within the head and be encompassed by its flange. Next, on each of the skeleton frames another head is to be placed, flange upward, and to receive within it a skeleton frame in manner as described, and so on. Having thus completed a pile or piles of the heads and skeleton frames, the platen is to be forced downward by the nuts, so as, with the bed, to firmly compress such pile or piles. In this state the whole is to be placed in a drying chamber or kiln, or is to be exposed, so as to have the heads dried by the surrounding atmosphere. By such means each of the heads, in shrinking in drying, will be prevented from warping, and it will be reduced to its proper diameter.

I do not claim drying-cases and rim-formers constructed and applied as represented in the United States Patent No. 318,741, as I have for supporting each barrel-head in the press no such drying-cases, nor any rim-formers arranged therein; but I have other and simpler devices—viz., skeleton frames—each consisting of two sets of bars grooved and arranged as hereinbefore described. Besides, in my arrangement of the barrel-heads and the skeleton frames, the barrel-heads are unsupported on their entire peripheries, whereby air can have free access thereto, each

barrel-head being between two of the said frames.

I claim—

1. The combination of a press, a series of barrel-heads, as described, molded from paper-pulp, and a series of skeleton frames, arranged, substantially as decribed, with such heads and press, as set forth.

2. A skeleton frame consisting of two sets of bars, grooved and arranged substantially as set forth.

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