

C. R. TAYLOR.

Apparatus for Steaming and Treating Lumber.

No. 146,370.

Patented Jan. 13, 1874.

Fig. 1.

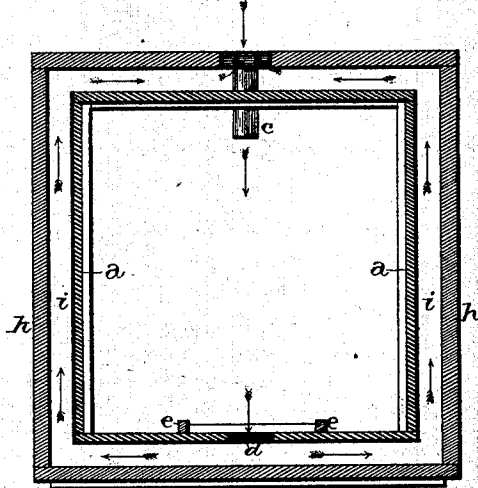


Fig. 2.

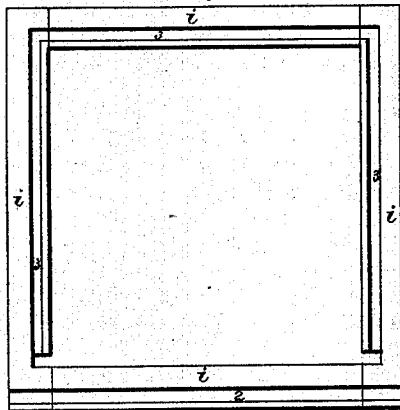
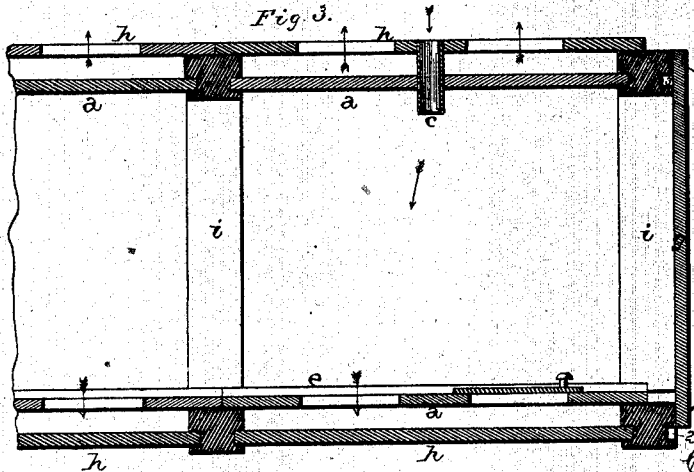


Fig. 3.



WITNESSES:

Wm. Hale
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INVENTOR.

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per
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att'y

UNITED STATES PATENT OFFICE.

CARLO R. TAYLOR, OF IONIA, MICHIGAN.

IMPROVEMENT IN APPARATUS FOR STEAMING AND TREATING LUMBER.

Specification forming part of Letters Patent No. **146,370**, dated January 13, 1874; application filed December 23, 1873.

To all whom it may concern:

Be it known that I, CARLO R. TAYLOR, of Ionia, in the county of Ionia and State of Michigan, have invented certain new and useful Improvements in Boxes for Steaming Lumber; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

The nature of my invention relates to an improvement in steam-boxes for steaming lumber; and it consists in making the boxes in sections, so that they can be increased and decreased in size at pleasure.

Figure 1 represents a cross-section of my invention; Fig. 2, detail view of the same, and Fig. 3 a longitudinal section.

a represents an ordinary rectangular box or chamber of any desired dimensions, which has an opening through its top for the admission of exhaust or live steam through the pipe *c*, and one or more openings, *d*, through its bottom for the escape of the steam after it has acted upon the lumber placed upon the car on the track *e*. One end of this box is provided with a door, *g*, while the other end is sealed up air-tight; or, if so desired, both ends may have a door, either of a single thickness, or they may have air-chambers within them, so as to exclude the effects of the atmosphere from the box as much as possible. Around this box *a*, so as to surround it completely on four sides, is placed an outer box, *h*, having openings through its top for the escape of the steam which passes up through the space left between the two boxes. By thus surrounding the inner box during the whole process of

steaming, it is kept enveloped in a constant vapor of steam, thus protecting it from the atmosphere, and keeping the temperature in the box at a much higher degree than could otherwise be done. These two boxes are secured together, leaving any desired space between them, by means of the rectangular frame *i*. This frame, grooved alike on both sides, has the outer box, with the exception of its bottom piece, secured around its edges; the bottom piece having its edges secured in the groove 2, cut along the lower edge of the frame. The inner box *a* has the edges of each one of its sides held in the grooves 3, cut in the sides of this frame, as shown. As this frame is constructed on both sides alike, section after section can be put together, so as to make any desired size of box; or the sections may be taken apart, so as to reduce the size of the box at will. Where two or more sections are put together, the frames *i* will separate the spaces between the two boxes, and then, by closing the openings for the escape of the steam by means of a slide or cover, the steam can be sent in any desired direction.

Having thus described my invention, I claim—

1. A box for steaming lumber composed of sections, so that the size of the box or chamber can be increased or decreased at will, as shown.

2. The combination of the boxes *a* *h* and frame *i*, substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of December, 1873.

CARLO R. TAYLOR.

Witnesses:

HENRY C. SESSIONS,
SYLVESTER TAYLOR.