

J. HUNTINGTON.

DEVICE FOR IMPREGNATING TIMBER WITH ANTISEPTIC FLUID.

No. 171,135.

Patented Dec. 14, 1875.

Fig. 1.

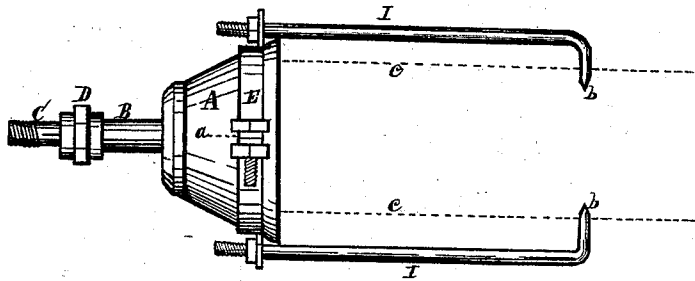


Fig. 2.

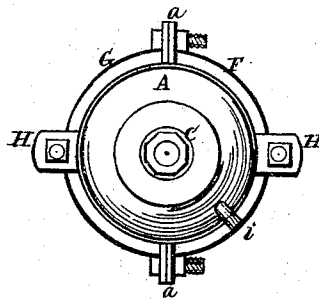
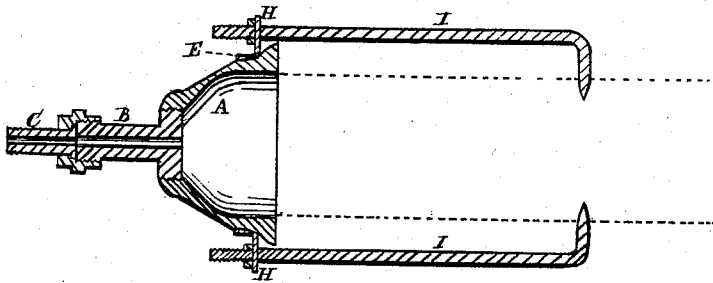


Fig. 3.



Witnesses

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JOHN HUNTINGTON, OF CLEVELAND, OHIO.

IMPROVEMENT IN DEVICES FOR IMPREGNATING TIMBER WITH ANTISEPTIC FLUID.

Specification forming part of Letters Patent No. **171,135**, dated December 14, 1875; application filed December 6, 1875.

CASE A.

To all whom it may concern:

Be it known that I, JOHN HUNTINGTON, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and Improved Device for Impregnating Timber with Antiseptic Fluids; and I do hereby declare that the following is a full, clear, and complete description thereof, reference being had to the accompanying drawings, making a part of the same.

Figure 1 is a side view of the apparatus. Fig. 2 is an end view. Fig. 3 is a transverse section.

Like letters of reference refer to like parts in the several views.

This invention is an apparatus for impregnating timber with antiseptic fluids, or with other chemical agents, for the preservation of the same.

A full and complete description of the apparatus and the operation thereof is as follows:

In the drawings, A represents an elastic cap, constructed of rubber, or it may be made of leather, or of textile fabric of a suitable nature for the purpose designed. In the crown of the cap is firmly secured a tube, B, having a communication with the inside thereof, and to which is attached a pipe, C, by a union-nut, D. Around the base of the cap is a clamp, E, consisting of the straps F and G, Fig. 2, connected to each other by bolts passing through the ears *a* of the straps, as shown in the drawings. From opposite sides of the clamp project lugs H, wherein are held the dogs or draw-rods I. Said rods have nuts on one end, whereby they are secured in the lugs of the clamp. The opposite ends of the rods are turned at right angles, and terminate in points *b*, the purpose of which will presently be shown.

The practical operation of the above-described apparatus is as follows: The cap A is placed on over the end of a log, and thereto secured by the clamp E referred to. Ordina-

narily the clamping-band E will be sufficient to hold the cap to the log; but for further security the dogs or draw-rods I are used in connection with the clamp by adjusting them along the sides of the log and driving the pointed ends into it, as shown in Fig. 1, in which the dotted lines *c* indicate the log, the dogs or draw-rods co-operating with the clamping-band by drawing and holding the cap firmly on the end of the log, so that it cannot pull off by the power applied to force the antiseptic fluid into the pores of the timber. To charge the timber with the fluid the pipe C is connected to that of a force-pump, or to that of any other suitable power, and the antiseptic agent is thereby forced into the cap; from thence into and through the pores of the timber. The elastic nature of the cap, with the thick beveled rim, keeps the fluid from leaking therefrom when the pressure is applied. The tapering shape of the cap admits of its application to timber of different diameters. In the event more than one antiseptic agent is to be used for charging the timber, the first one having been used, the supplies that may remain in the cap can be drawn off through a cock, (indicated at *i*, Fig. 2,) to make room for the application of the succeeding chemical agents, be the number more or less, to be charged into the timber.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the elastic cap A and clamping-band E with tube B, the parts being constructed and arranged substantially as and for the purpose set forth.

2. The combination of the elastic cap A, clamping-band E, tube B, and dogs or draw-rods I, constructed and arranged substantially as and for the purpose set forth.

JOHN HUNTINGTON.

Witnesses:

J. H. BURRIDGE,
E. W. CROSS.