

(No Model.)

P. H. HOLMES.
DRAWING ROLL.

No. 480,195.

Patented Aug. 2, 1892.

Fig. 1.

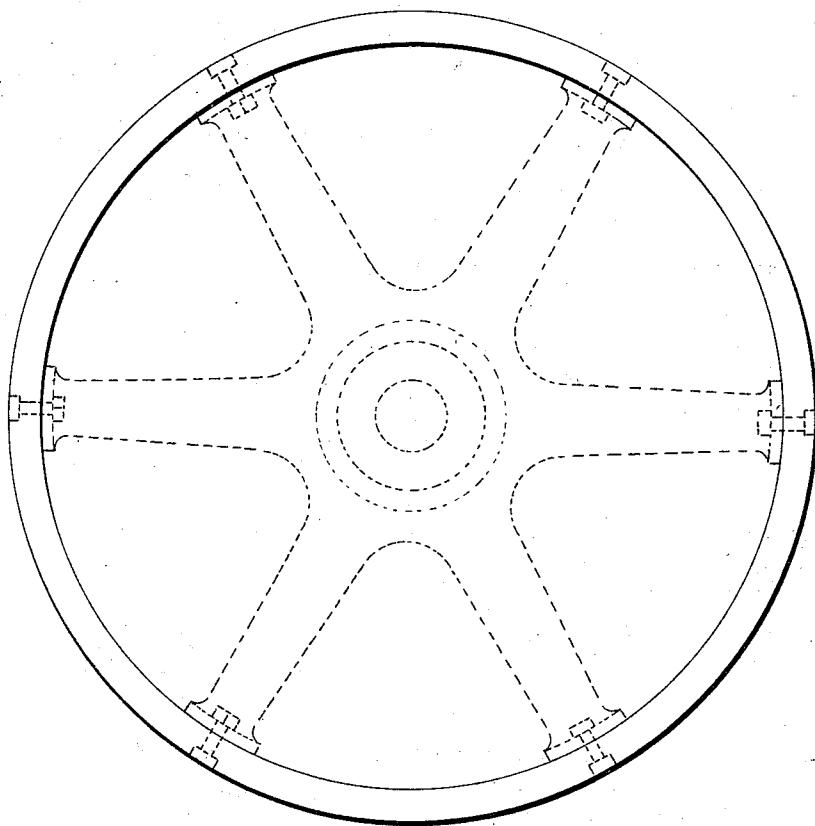
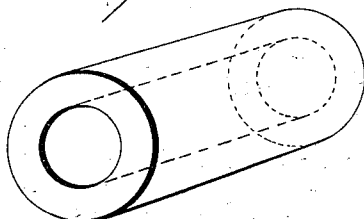


Fig. 2.

Witnesses
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PHILIP HENRY HOLMES, OF GARDINER, MAINE.

DRAWING-ROLL.

SPECIFICATION forming part of Letters Patent No. 480,195, dated August 2, 1892.

Application filed November 6, 1891. Serial No. 411,064. (No model.)

To all whom it may concern:

Be it known that I, PHILIP HENRY HOLMES, of Gardiner, in the county of Kennebec and State of Maine, have invented certain new and useful Improvements in Drawing-Rolls; 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 appertains to make and use the same.

My invention relates to an improvement in drawing-rolls and similar articles, such as pulley-rims and the like; and it consists in a pulley rim or cylinder composed of fiber pressed into shape, hardened or dried, and finally subjected to a bath of shellac varnish, copal varnish, or other hardening and binding substance.

In the accompanying drawings, Figure 1 is a view of the drawing-roll, and Fig. 2 is a view of a pulley-rim.

A pulp is formed, preferably of wood fiber, which is pressed or molded into the shape desired to form a roller or pulley-rim. After being molded by compression into the proper shape the article is removed from the mold and dried and hardened. The article is then in condition for final treatment, which consists in subjecting it to a bath of hardening or binding substance, such as shellac, copal, or other equivalent drying and hardening varnish. The shellac enters and combines with

the entire composition, and when dry the article becomes hard and tough.

Owing to the fact that the article before it is subjected to a bath of varnish is thoroughly dried, a considerable quantity of varnish will flow into the interstices between the fibers, and when hardened such filling will impart to the article such additional solidity as will render it unaffected by dampness and give it increased strength and durability.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A rim or cylinder for pulleys or rollers and the like, consisting of wood fiber compressed into shape, then thoroughly dried, and afterward subjected to a bath of drying and hardening material, substantially as set forth.

2. As an article of manufacture, a rim or cylinder for pulleys or rollers, composed of wood fiber compressed into shape and then dried and hardened and finally treated to a bath of shellac or equivalent drying and hardening varnish, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

PHILIP HENRY HOLMES.

Witnesses:

A. M. SPEAR,
O. B. CLASON.