L. H. Whitney

Roller Shaft for Wringers.

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PATENTED DEC 13 1870

Fig 1.

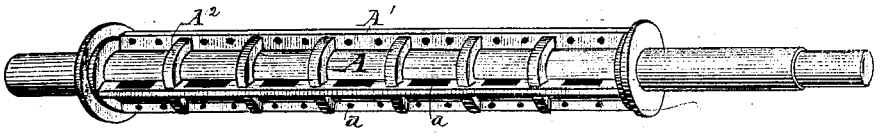
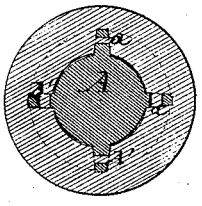


Fig. 2.



Witnesses.
A. E. Puffer
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LEVI H. WHITNEY, OF WASHINGTON, DISTRICT OF COLUMBIA.

Letters Patent No. 110,098, dated December 13, 1870; antedated November 26, 1870.

IMPROVEMENT IN ROLLER-SHAFTS FOR WRINGERS.

The Schedule referred to in these Letters Patent and making part of the same.

I, LEVI H. WHITNEY, of Washington, in the District of Columbia, have invented certain Improvements in Roller-Shafts for Wringers, of which the following is a specification, reference being had to the annexed drawing making part thereof, in which—

Figure 1 represents a perspective view of my improved shaft as it appears before the rubber is molded around to form the rubber roller.

Figure 2 is a transverse section of a complete roller constructed with my improved shaft.

The same letters are used in both figures to indicate identical parts.

This invention relates to that class of rollers for wringing-machines which is constructed with a metallic shaft covered by a cylinder of India rubber; and

My improvement consists in the construction of the shaft, as will be more fully set forth hereinafter.

To enable those skilled in the art to make and use my invention I will proceed to describe it specifically.

In the annexed drawing—

A represents the metallic shaft, around which the rubber is to be molded and afterward vulcanized.

That portion which is covered by the rubber I propose to construct with longitudinal ribs A^1 and transverse ribs A^2 upon its surface, giving it a cellulated appearance.

In molding the rubber around it will fill the cells, and in order to make the attachment of the rubber still more secure I provide the longitudinal ribs with slots or perforations *a a*, through which the rubber passes to bind it to the shaft.

Shafts of this character have been heretofore constructed with longitudinal ribs, but it was found that as the rubber could have a lateral movement on such a shaft it would eventually work loose. This is entirely avoided by the peculiar cellulated construction of my shaft, whereby all lateral movement is effectually prevented.

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

A rubber roller, the shaft A of which is constructed with perforated and slotted longitudinal ribs A^1 *a* and transverse ribs A^2, substantially as set forth.

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

L. H. WHITNEY.

Witnesses:
EDM. F. BROWN,
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