

*William Henry Towers.*  
*Roll for Clothes Wringers.*

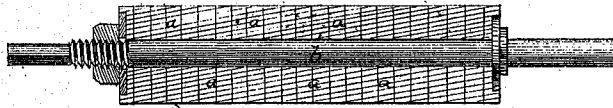
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PATENTED JUN 21 1870

*Fig. 1.*



*Fig. 2.*



Witnesses.

*Fred. Curtis.*  
*Edward Griffith*

Inventor.

*Wm. H. Towers.*

# United States Patent Office.

WILLIAM HENRY TOWERS, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 104,514, dated June 21, 1870.

## IMPROVEMENT IN COMPOSITION ROLLS FOR CLOTHES-WRINGERS.

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

To all to whom these presents shall come:

Be it known that I, WILLIAM HENRY TOWERS, of Boston, in the county of Suffolk and Commonwealth of Massachusetts, have made an invention of a new and useful Manufacture of Clothes wringer Rolls; and do hereby declare the following to be a full, clear, and exact description thereof, due reference being had to the accompanying drawing making part of this specification, and in which—

Figure 1 is a side view, and

Figure 2 a longitudinal section of a roll embodying my improvement.

I have endeavored, in this invention, to combine cheapness, durability, lightness, and efficiency in the rolls of clothes-wringers, and, to this end, I compose the outer body or jacket of such objects of a textile, woven, or fibrous material, permeated or treated with a suitable impervious material or compound, to render it proof against saturation by moisture, the substance I prefer to employ for the purpose being a thick felt, as giving the best results, although I by no means intend to confine myself to this material.

The drawing represents one of the rollers of a clothes-wringer, as composed of a series of continuous rings, *a a*, &c., slipped upon a shaft or mandrel, *b*, and suitably confined thereto, in such manner as to best resist the torsion to which it is subject.

The felt of which the rings *a a*, &c., are composed is saturated or treated, as before stated, with a suitable impervious compound, to render it water-proof.

To water-proof my felt-rolls, I saturate the goods with paraffine, when held in a solution by heat or any well known solvent, or by a rubber cement.

I do not confine myself to the mode last described, of applying a fibrous or textile material to a shaft, as various modes may be adopted, all looking to the same result.

I have adopted the rings of felt, in the present instance, to demonstrate one practical manner of carrying out my ideas.

### Claim.

I claim as my invention—

A roll for clothes-wringers, composed of a suitable shaft, and an outer jacket or body, of a textile or fibrous material, or felt, such body being saturated or treated with an impervious compound, and the whole being produced as and for the purpose explained.

WM. H. TOWERS.

Witnesses:

FRED. CURTIS,  
EDWARD GRIFFITH.