

W. E. Frost.

Hoop Skirt.

N<sup>o</sup> 2760  
33764

Patented Nov. 19, 1861

Fig: 1.

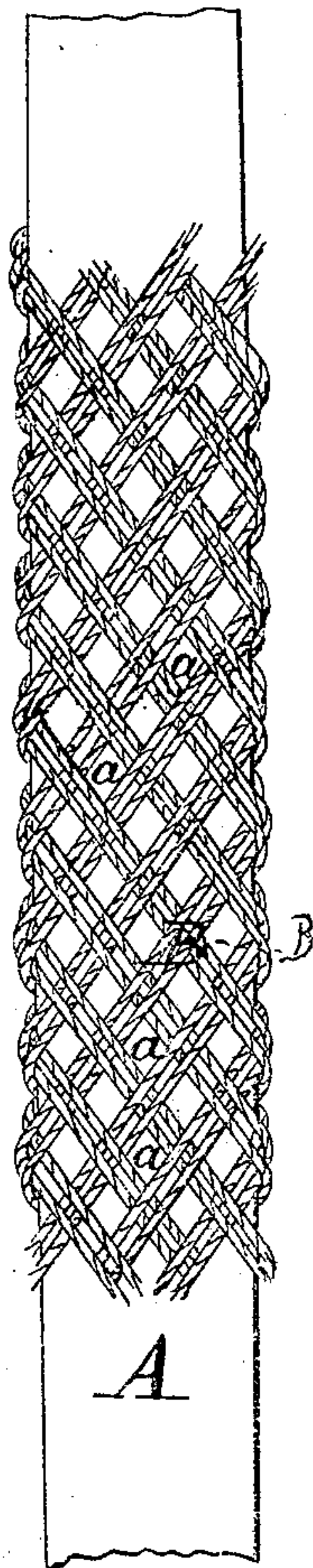


Fig: 2

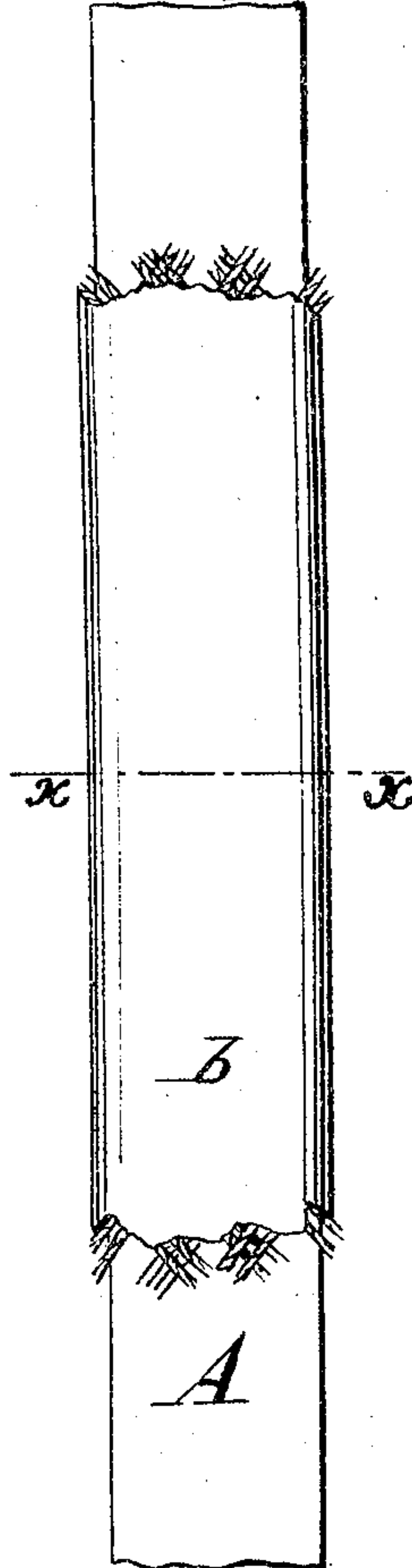


Fig: 3.



Witnesses.

Chas. Livingston.

J. W. Coombs

Inventor.

W. E. Frost

Per.

M. H. Co. Atty's

# UNITED STATES PATENT OFFICE.

W. E. FROST, OF CLINTON, ASSIGNOR TO WASHBURN & MOEN, OF  
WORCESTER, MASSACHUSETTS.

## IMPROVEMENT IN SKIRT-WIRE.

Specification forming part of Letters Patent No. 33,764, dated November 19, 1861.

*To all whom it may concern:*

Be it known that I, W. E. FROST, of Clinton, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Covered Skirt-Wire; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is an enlarged view of a piece of covered skirt-wire partially finished. Fig. 2 is an enlarged view of a piece of the same in a finished state. Fig. 3 is a transverse section of Fig. 2, taken in the line *x x*.

Similar letters of reference indicate corresponding parts in the several figures.

This invention has for its object, first, economy in stock; second, rapidity of construction; third, an improved appearance when in a finished state; fourth, durability, and, fifth, a greater facility than usual in manufacturing the skirts.

The invention consists in braiding the covering on the wire in a more open manner than usual, so as to admit of the stock or braids, which may be of the usual kind, being extended over a much larger surface of the wire than hitherto, and also admit of interstices being between the strands, and using, in connection with the open fabric, a size or glazing to fill up the interstices, and thereby make a smooth surface.

In the accompanying drawings, A represents the wire, and B the braid or covering,

which may be of the usual material and braided on the wire by the machines now used for the purpose. The covering B, however, is braided quite openly on the wire A, so that a given amount of stock will extend over more surface than usual—say twenty per cent. This open braiding of the covering produces quite large interstices *a* between the strands, as shown clearly in Fig. 1. After the wire A is covered the size *b* is applied. Various kinds of size may be used. Starch and white glue will answer a good purpose. This size may be applied by running the covered wire through a roll-box containing the size in a sufficiently liquid state and afterward subjecting it to the action of rolls or brushes.

A fine smooth surface may be produced by passing the sized wire over and under stationary rolls, ironers, or glazers, and a still finer finish may be added by raising a nap upon the covering before it receives the size.

I am aware that coverings have previously been braided upon skirt-wires, and likewise that a woven fabric has been secured to the wire by cement.

I claim as new and desire to secure by Letters Patent—

As an improved article of manufacture, a skirt-wire A, provided with an openly-braided covering B, when combined with a suitable size or glazing *b*, as set forth.

W. E. FROST.

Witnesses:

I. P. SOUTHGATE,  
W. W. RICE.