

(No Model.)

A. A. HAWLEY.

ART OF MANUFACTURING FOOT WEAR MADE OF COMBINED TEXTILE
AND FELTING MATERIAL.

No. 322,285.

Patented July 14, 1885.

Fig. 1.

A

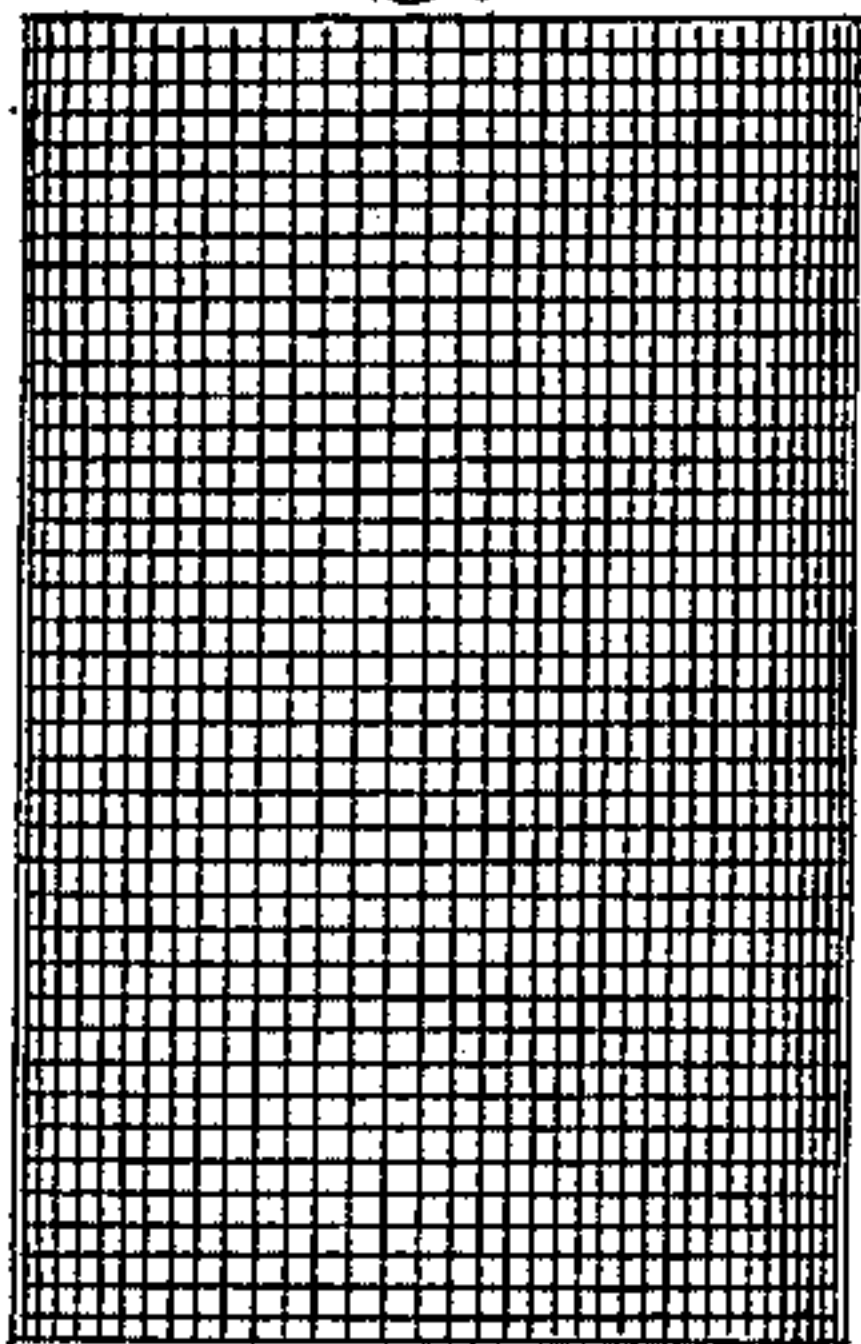


Fig. 2.

A

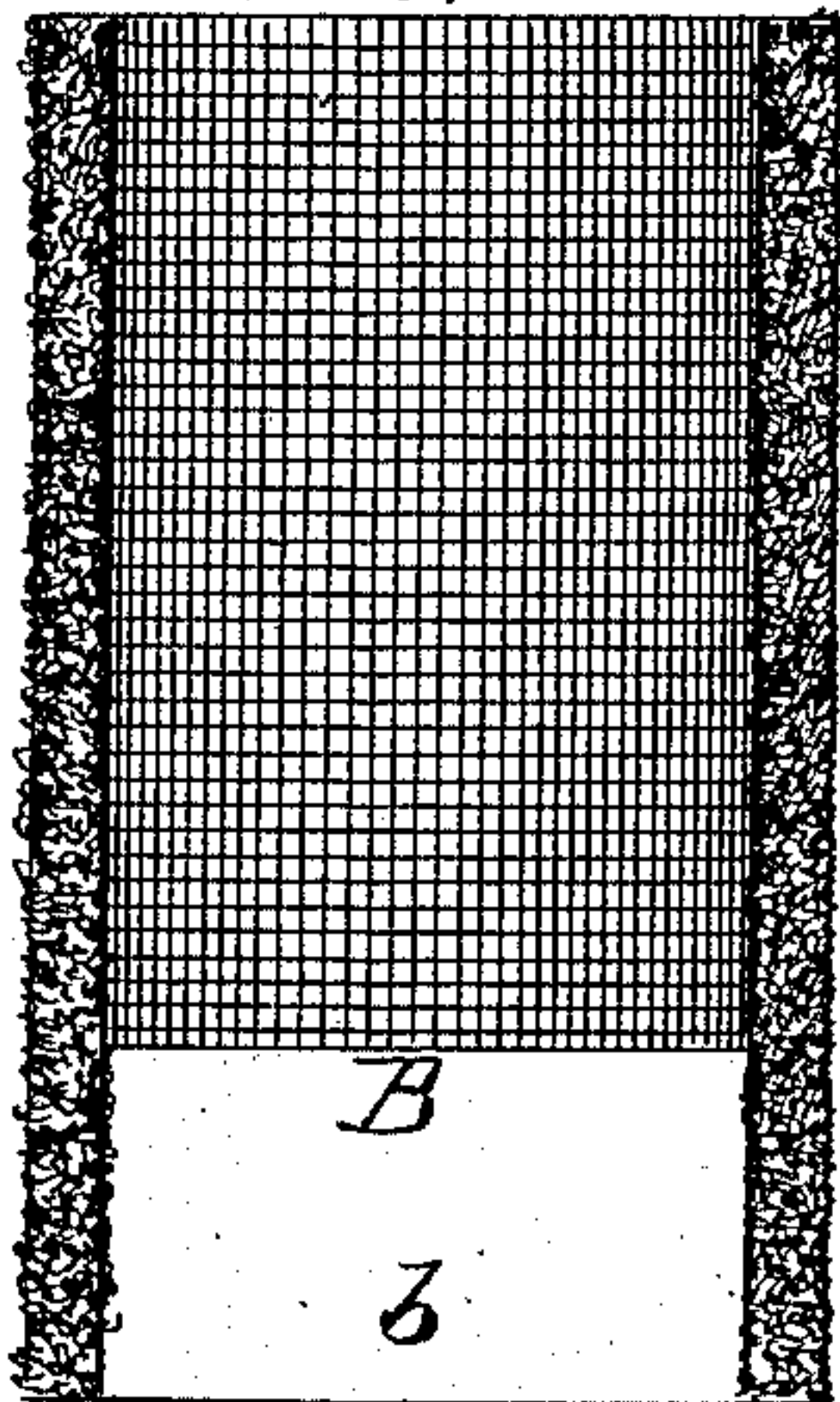


Fig. 3.

A

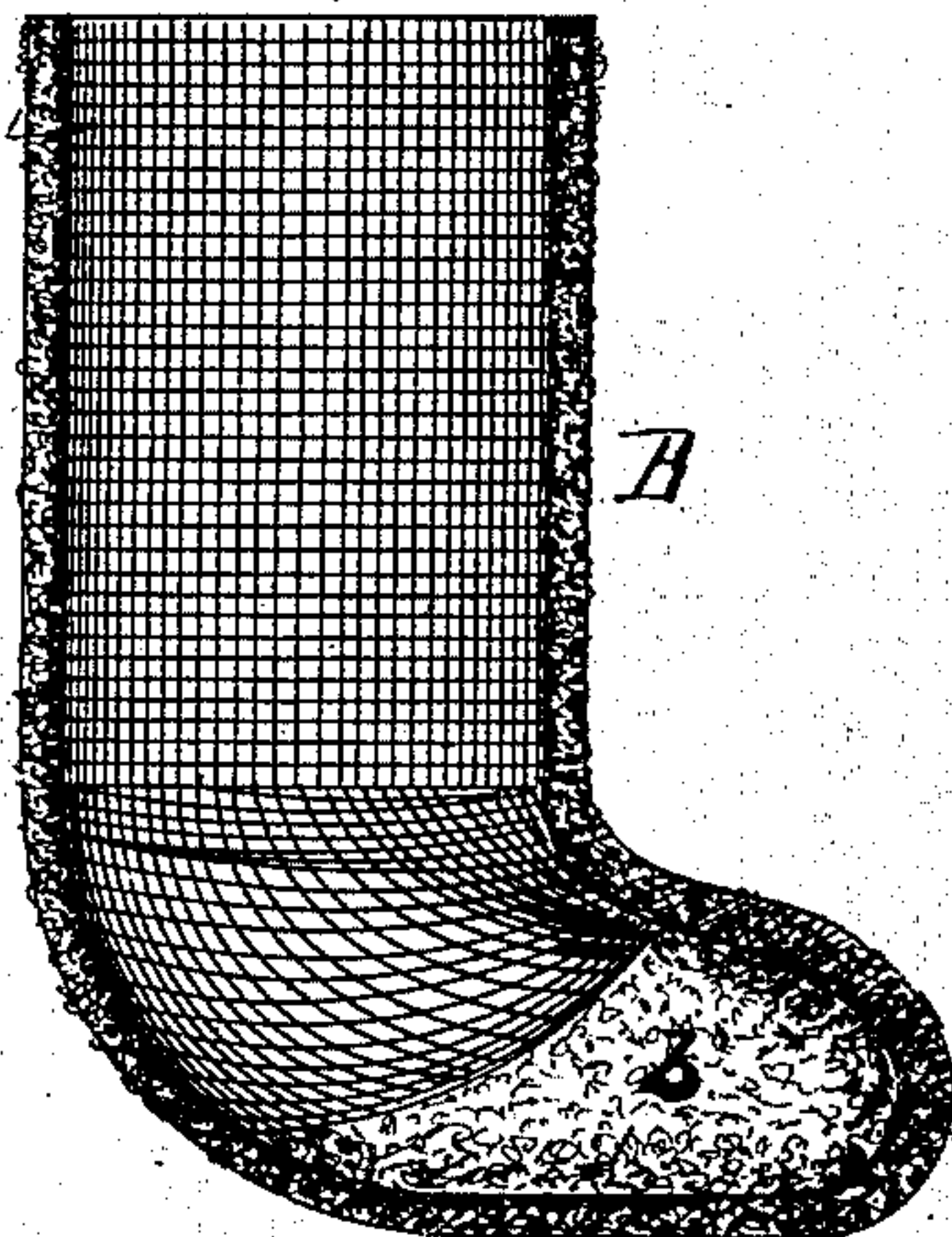
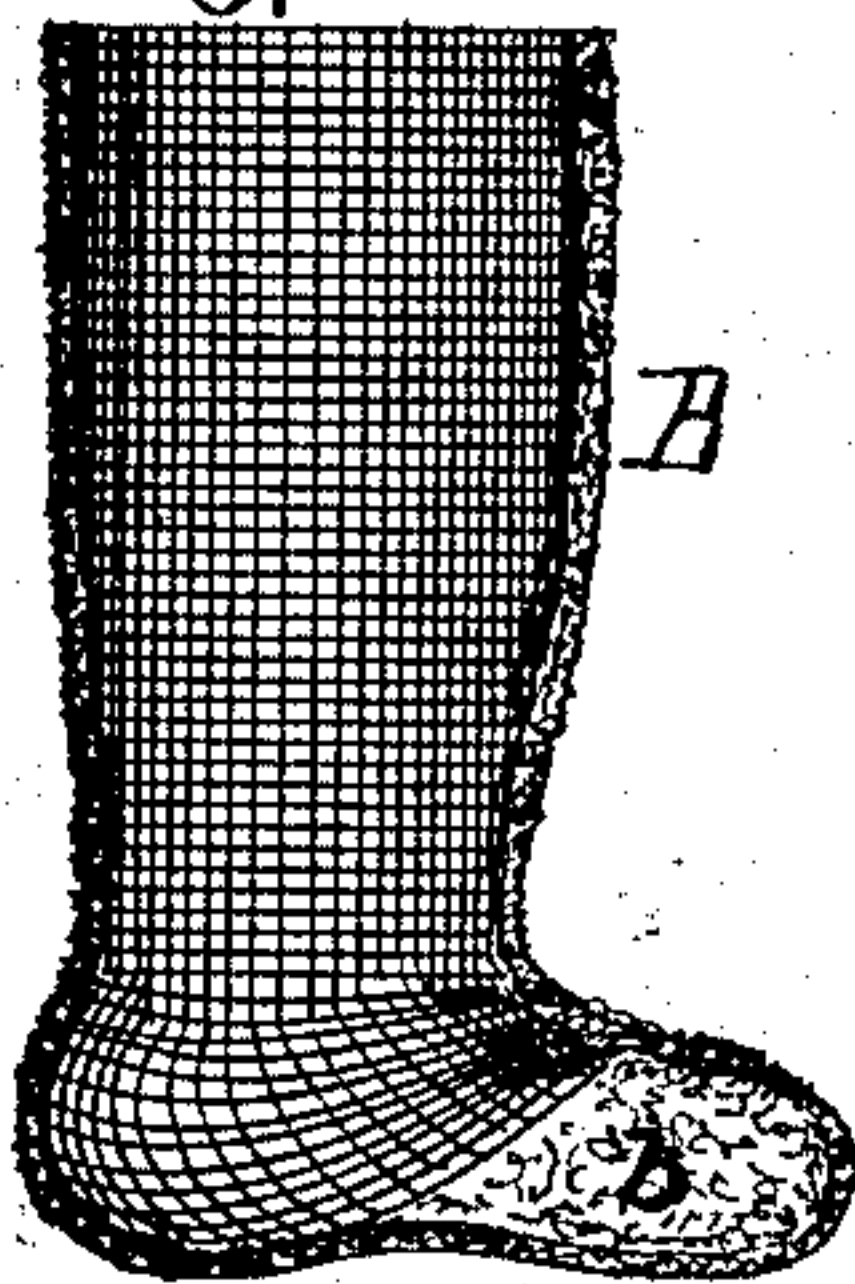


Fig. 4.

A



Witnesses

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UNITED STATES PATENT OFFICE.

ALFRED A. HAWLEY, OF BALTIMORE, MARYLAND, ASSIGNOR TO THE
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ART OF MANUFACTURING FOOT-WEAR MADE OF COMBINED TEXTILE AND FELTING MATERIAL.

SPECIFICATION forming part of Letters Patent No. 322,285, dated July 14, 1885.

Application filed May 11, 1885. (No model.)

To all whom it may concern:

Be it known that I, ALFRED A. HAWLEY, a citizen of the United States, residing at Baltimore city, and State of Maryland, have invented certain new and useful Improvements in the Art of Manufacturing Foot-Wear Made of Combined Textile and Felting Material; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

Figure 1 represents a side view of a piece of textile tubing used in this invention. Fig. 2 represents a transverse section through the major axis of the bat. Fig. 3 represents a section through the bat after it is hardened and shaped for a boot. Fig. 4 represents the completed article.

This invention relates to improvements in foot-wear made of combined textile and felting material.

Heretofore in making these articles a large stocking of textile material has been used about which a layer or layers of wool has been placed and hardened.

My invention consists in employing, instead of a stocking, a section or piece of tubular textile material, as hereinafter set forth.

In carrying out this invention I take a piece or section, A, of tubular textile fabric much larger than the article to be made. About this section the layer of wool is placed. This may be done in a number of ways. One way is to draw the section A upon the common cylindrical cone used in this art, and winding about the section the sliver as it comes from the card. In doing this a portion of the sliver should extend at one side beyond the textile fabric, as shown at *b*, Fig. 2, B being the layer of wool wound about the textile material. When removed from the cone, this forms a bat,

as shown in said Fig. 2, A being the section of tubular textile material, and B the layer of wool or felting material. This bat is then manipulated in the ordinary way on the steam-box with the jigger, the portion *b* being closed up to form the foot. When hardened, the bat has the shape shown in Fig. 3. In this figure the textile does not extend the whole length of the article. The exact length of the textile is not material so it passes some little below the ankle and beyond the heel, leaving enough of the wool beyond to easily close up the foot.

With this invention it will be seen that the textile material is crowded together or felted closer at the foot, particularly at the front of the ankle, than when a stocking is used.

The article thus hardened is placed in the fulling-box and fulled, then lasted, dried, and finished in the well-known ways, forming an article such as shown in Fig. 4.

The hardened article, as shown in Fig. 3, may be turned inside out to bring the textile on the outside. In this application I lay no claim to the article made by the method set forth.

Having described my invention, what I claim is—

1. As an improvement in the art of manufacturing foot-wear of combined textile and felting material, a bat consisting of a section or piece of tubular textile material, with a layer of wool combined therewith.

2. As an improvement in the art of manufacturing foot-wear of combined textile and felting material, the method which consists in placing a layer of wool about a section or piece of tubular textile material, hardening the two together, and closing up the foot, fulling, lasting, drying, and finishing, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ALFRED A. HAWLEY.

Witnesses:

HENRIH SUNNE,
WM. H. JONES.