

(No Model.)

A. DAVIS.
TIP FOR INSOLES.

No. 263,486.

Patented Aug. 29, 1882.

Fig. 2.

Fig. 1.

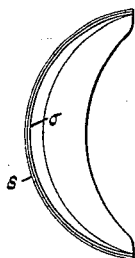


Fig. 3.

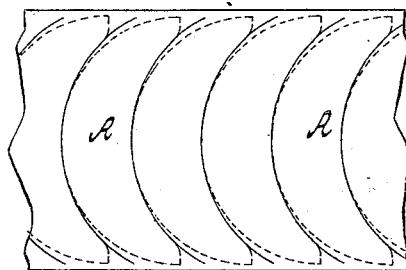


Fig. 4.



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TIP FOR INSOLES.

SPECIFICATION forming part of Letters Patent No. 263,486, dated August 29, 1882.

Application filed February 10, 1882. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM DAVIS, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Tips for Insoles, of which the following is a specification.

This invention relates to tips for insoles of boots or shoes, and is an improvement on Letters Patent of the United States granted to me conjointly with Michael Shuter May 31, 1881, No. 242,382.

It consists in a tip composed of paper-board and textile material united by an adhesive substance and pressed into shape, as hereinafter more fully set forth.

This invention is illustrated in the accompanying drawings, in which Figure 1 represents a vertical cross-section of the tip. Fig. 2 is a plan view thereof. Figs. 3 and 4 illustrate the process of making the tip.

Similar letters indicate corresponding parts.

In carrying out my invention I take a piece of paper-board, *o*—as, for example, that known as “leather-board”—and a piece of textile material, *s*—such as muslin—and unite the same by an adhesive substance, such as gum. I then subject the compound or double fabric thus obtained to the action of heated dies adapted to press the same into the general shape of a series of tips, *A*, Figs. 3 and 4, and then separate the adhering tips by suitable cutters, as described in the patent above mentioned. In pressing the said double fabric I place the same in such a position that the textile material forms the outer layer of the tip.

The advantages gained by making the tip of the two layers *o s* are as follows: As compared with a tip made entirely of paper-board it is not liable to rip or tear, especially when, as is usual, the article is fastened to the insole by stitching, and it is less liable to be affected by the moisture to which it is subjected in use, while, as compared with a tip made entirely of textile material, it possesses superior stiffness, tending to increase its durability, and is less expensive, because a number of layers of textile material is usually needed to produce a tip of the required stability. Furthermore, by placing the textile material outer-

most upon the tip the article is rendered proof against moisture when it is placed in the shoe, inasmuch as the meshes of such textile material are closed up by the adhesive substance used to unite the same with the paper-board.

Heretofore molded boxes for the toes of boots and shoes have been formed of leather-board waterproofed by being saturated with paraffine. The waterproofing, however, does not strengthen the paper-board to any extent, and it cannot give to the article the toughness and stiffness which I impart to my tip by uniting a layer of textile material to the paper-board by an adhesive substance. I obtain the combined advantages of paper-board and of textile material saturated with a water-proof cement, and also the conjoint results derived by a union of the two. In another instance a heel-stiffener has been composed of old rubber sufficiently adhesive and cohesive to unite with muslin or cotton fabric, a layer of which is placed on each side of the rubber; but old rubber is more expensive than new paper-board, and it has not sufficient rigidity to answer my present purpose.

As to the Letters Patent referred to in the first part of this specification, it will be seen that the tip as made under said patent is composed solely of textile material stiffened with shellac and pressed into shape; but in the present instance, by employing paper-board with an outer covering of textile material, a stronger stiffer article is produced and but one layer of the textile material rendered necessary.

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

An improved manufacture consisting of an insole-tip pressed into shape, composed of paper-board, with an outer layer of textile fabric secured thereto by an adhesive substance, all substantially as set forth.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

ABRAHAM DAVIS. [L. S.]

Witnesses:

W. HAUFF,
CHAS. WAHLERS.