No. 888,476. PATENTED MAY 26, 1908.

J. F. DAVIS.

SHOE.

APPLICATION FILED APR. 3, 1907.

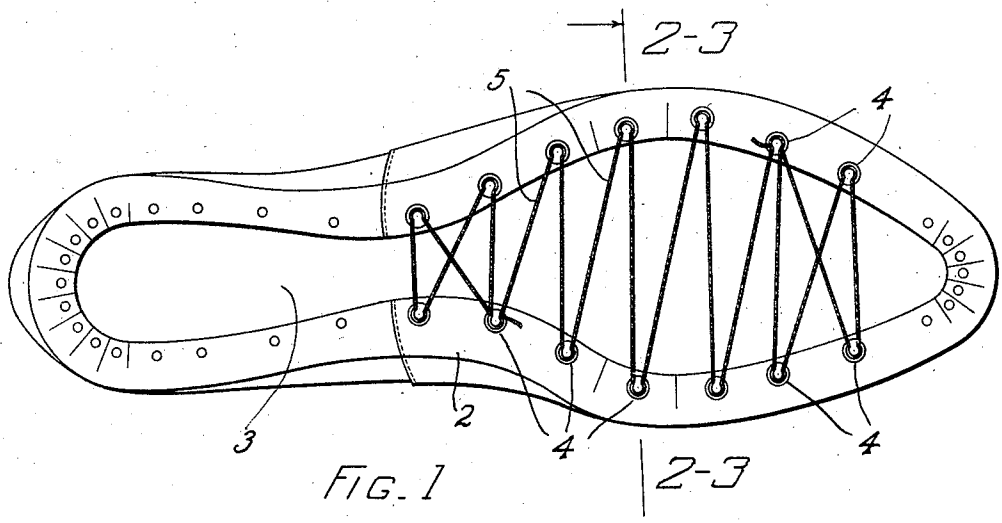


FIG. 1

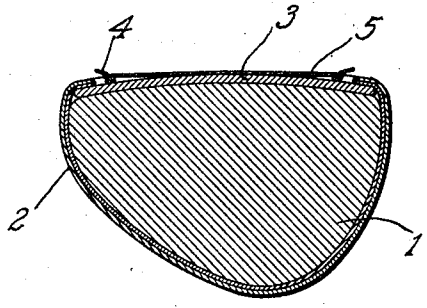


FIG. 2

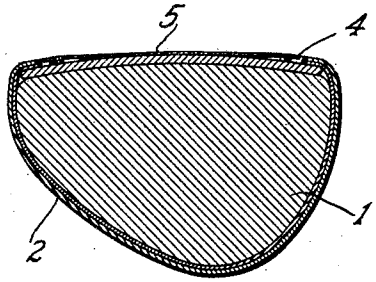


FIG. 3

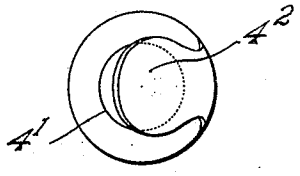


FIG. 4

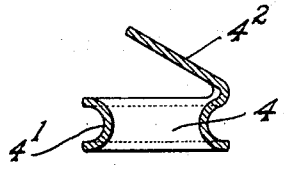


FIG. 5

WITNESSES
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UNITED STATES PATENT OFFICE.

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SHOE.

No. 888,476. Specification of Letters Patent. Patented May 26, 1908.

Application filed April 3, 1907. Serial No. 366,101.

To all whom it may concern:

Be it known that I, JOHN F. DAVIS, a citizen of the United States, residing at Freeport, county of Cumberland, and State of Maine, have invented certain new and useful Improvements in Shoes, of which the following is a specification.

This invention relates to shoes and particularly to the forming of the upper on the last prior to the application of the outer sole thereto.

It has been customary heretofore to hold the edges of the upper after it was drawn about the last by tacks, clamps or stitches, but such methods have either involved too great expense or not been sufficiently efficient in their work.

My present invention contemplates an arrangement whereby the upper may be laced securely over the last by a cord drawn over binding hooks which prevent any relative play between the parts and afford a rapid and permanent arrangement for holding the shoe.

The particular structure of these parts and their method of use will be more fully set forth in the specification which follows and are shown in the accompanying drawings which form a part thereof and in which;

Figure 1, shows a plan view of a last with an upper held thereon by my invention. Fig. 2, is a section on the line 2—3 Fig. 1 with the hooks up. Fig. 3, is a similar view with the hooks depressed. Fig. 4, is a plan view of a hook, and Fig. 5, is a section thereof.

1 is a last having an upper 2 drawn over an inner sole 3 thereon.

4 are a series of eyelet hooks having short tubular shanks 4^1 and inclined hooks 4^2. The angle between the hook 4^2 and the top of the shank 4^1 is acute enough to bind the lasting cord 5 which is employed in lacing the upper on the last. The hook 4^2 is a flat disk shaped member and is just enough smaller than the shank 4^1 to fit therein when the hook is bent down in leveling the shoe.

In operation the uppers are set with series of hooks on each edge, the sets being relatively staggered. The upper is then drawn about the last and tacked at toe and heel. The operative then takes the lasting cord 5 and laces the edges over the hooks 4, drawing each turn tight before forcing it into the angle of the hook. As each pull across forces the last turn under its hook the lacing is tightly gripped at each hook and no play of the lasting cord is permitted. This assures stability of form in the shoe and also prevents any cutting effect on the cord by movement on the hook.

After the upper is laced the hooks may be knocked flat with a mallet, with the circular disk of the hook entering the barrel, or this may be left to the leveling process which accomplishes the same result. By using light stock for the hooks and short shanks, they will when leveled lie perfectly flat in the shoe. The disk entering the tubular shank leaves the flattened rivet smooth and even and the shoes thus made are more permanent in shape as well as more cheaply made.

What I therefore claim and desire to secure by Letters Patent, is:—

1. In a shoe, an upper, a lacing and a plurality of hooks suitably spaced apart on the sole edges of said upper and adapted to slidingly engage said lacing during the lasting operation but capable of compression to prevent it from slipping after the shoe is lasted.

2. In a shoe, an upper, a lacing, a plurality of hooks suitably spaced apart on the sole edges of the upper, each of said hooks comprising a tubular shank and a head of less diameter capable of compression therein, and a lasting cord alternately engaging said hooks.

3. In a shoe an upper, a lacing, means on the sole edges of the upper adapted to slidingly engage said lacing during the lasting operation and capable of permanently engaging the lacing and preventing it from slipping after the shoe is lasted.

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

JOHN F. DAVIS.

Witnesses:

J. B. RANDALL,

FRED LIBBY.