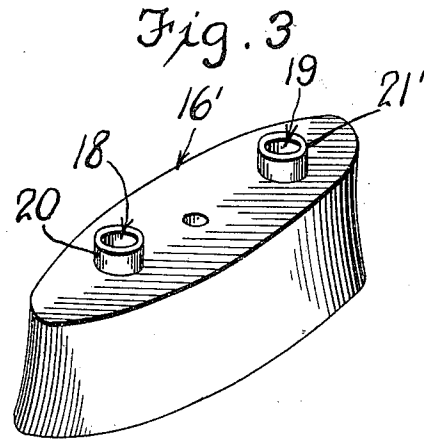
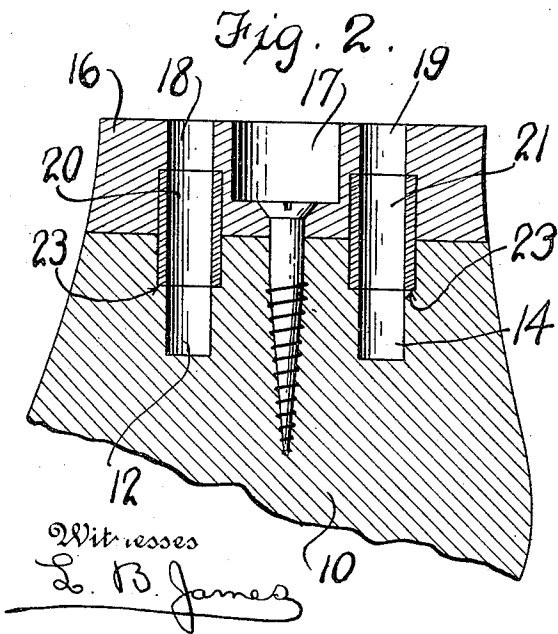
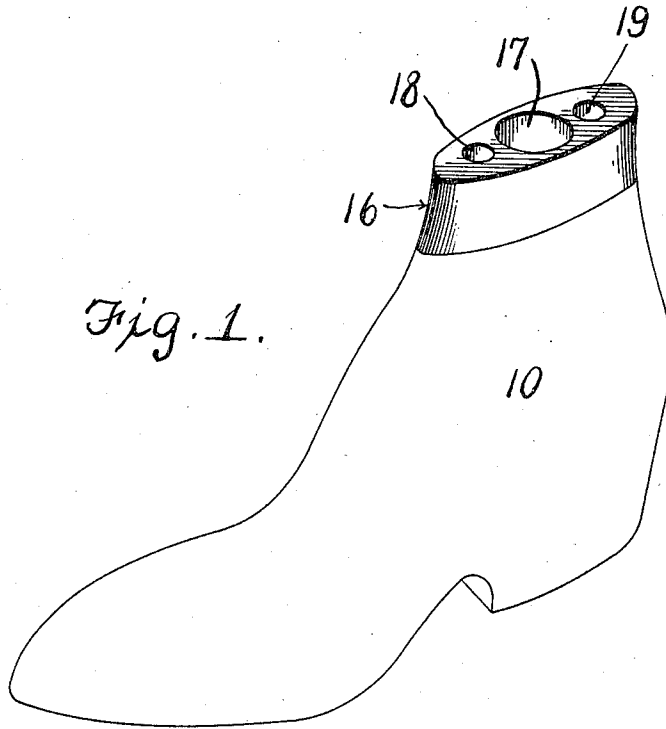


M. C. CHAPMAN.
 LAST.
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1,320,202.

Patented Oct. 28, 1919.



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LAST.

1,320,202.

Specification of Letters Patent.

Patented Oct. 28, 1919.

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To all whom it may concern:

Be it known that I, MELVILLE C. CHAPMAN, citizen of the United States, residing at Framingham, in the county of Middlesex and State of Massachusetts, have invented new and useful Improvements in Lasts, of which the following is a specification.

This invention relates to a last, and more particularly to a last designed for use in the manufacture of arctics, or rubber shoes, the upper portion of which is somewhat high as compared with the upper of an ordinary rubber shoe.

One object is to provide a last formed in two parts, the body portion being cut in the usual manner from a section of the trunk of a tree, the upper portion being formed preferably of aluminum or some similar metal, and being detachable with reference to the body of the last. One of the chief advantages of this construction is that there is an important saving, so far as the piece from which the last is cut, is concerned, as a stick of timber of less cross section is available for making lasts for the purpose herein indicated, wherein the top must project beyond the edge of the shoe upper.

A further advantage is that a head formed of metal, and provided with the usual apertures for the pin, is more serviceable than a head formed of wood, in which the holes will become enlarged through use, producing an imperfect fit so far as the pins are concerned. A series of metallic heads or lasts may be provided, of various sizes, and adapted for use with body portions of various styles and sizes, and the heads may be used indefinitely, being practically indestructible.

The detachable head may be provided with tubular members projecting from one surface of the head and adapted for insertion in bores in the body portion of the last, these bores being larger toward their outer ends than at their inner ends, forming shoulders against which the ends of the tubular members abut. These tubular members therefore constitute the connecting devices, as well as sockets for the pins employed in the usual manner.

The objects have been stated generally and broadly, and with the foregoing and other objects in view, the invention consists

in the novel construction, combination and arrangement of elements hereinafter described and claimed.

In the drawings,

Figure 1 is a perspective view of a last with a detachable metallic head,

Fig. 2 is a vertical section,

Fig. 3 is a perspective view of one form of head, and showing the sleeves projecting from the lower side thereof.

The body portion of the last is designated 10, and is of usual construction, the upper portion being provided with vertically extending bores 12 and 14, the outer portions of these bores being of greater diameter than the inner portions thereof.

As above indicated, it is not necessary that the body portion 10 of the last shall project from the shoe to be formed thereon, in view of the detachable top now to be described. This top or head is designated 16, and in exterior configuration conforms with the body of the last, it being the intention that various styles and sizes of heads shall be manufactured to correspond with different sizes and styles of lasts, or body portions thereof.

The head is preferably formed of aluminum, and is provided with a central bore 17, which reduces the weight and saves metal, and with oppositely located bores 18 and 19. Within the bores last named are fixed tubular members or sleeves 20 and 21, these sleeves projecting from one surface of the head, namely the surface adjacent to the body portion 10. The sleeves project into the bores 12 and 14 previously mentioned, and the ends of the sleeves engage respectively the shoulders 23 at the terminus of the enlarged portions of each bore.

These sleeves therefore constitute connecting elements and provide for the accommodation of the pins usually employed. Since the head is formed of metal, there will be no inconvenience arising from the enlargement of the holes through the head, and no danger of weakening the head when the latter is of limited cross section and the apertures or holes are near the edges thereof.

In the form shown in Fig. 3 the tubes 21' are cast in one piece with the head 16'.

What is claimed is—

In a device of the class described, a body

portion provided with vertical bores in the upper portion, the outer portions of the bores being of greater diameter than the inner portions thereof, a head, the edge portion of which is of the same configuration as the upper portion of the body, the head having bores alining with those first named, sleeves

fixed within the bores of the head, projecting into the enlarged portions of the other bores, and abutting the shoulder formed between the enlarged portion and the remaining portion of each bore. 10

In testimony whereof I affix my signature.

MELVILLE C. CHAPMAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."