This invention is a shoe tree, and the general object of the invention is to provide an adjust-
able shoe tree which may be adjusted to shoes of several different sizes for holding said shoes in shape.

A more particular object is to provide a shoe tree of the character stated which may be easily operated to adjust it to fit shoes of different sizes, or to remove it from a shoe as required.

Other objects and advantages will appear hereinafter as this specification progresses.

The invention is illustrated in the annexed drawing, which forms a part of this specification, and in which:

Fig. 1 is a plan view of my invention shown in its contracted position and showing in outline a shoe of the largest size to which my invention may be adjusted.

Fig. 2 is a plan view of my invention shown expanded to its limit and adjusted to fit the largest size shoe to which it may be fitted, which shoe is shown in outline.

Fig. 3 is a longitudinal section of my invention taken on line 3—3 of Fig. 1.

Fig. 4 is a cross section of my invention taken on line 4—4 of Fig. 2.

Fig. 5 is a cross section of my invention taken on line 5—5 of Fig. 2.

Referring more particularly to the drawing, in which corresponding parts are designated by the same reference numerals in all of the figures, my shoe tree includes a pair of foot forms 1 and 2, a pair of heel forms 3 and 4, a form-adjusting member 5, a foot-form toggle 7 connected to said foot forms 1 and 2, and to the forward end of said adjusting members 5, and a heel-form toggle 1 connected to said heel forms 3 and 4, and to the rear end of said adjusting member 5.

The foot forms 1 and 2 are shaped to fit the inside of the forward portion of a shoe, as shown in outline indicated at 8, and the heel forms 3 and 4 are shaped to fit the inside of the heel of said shoe. The foot forms 1 and 2 are formed in their inner edges with recesses 8 and 16, respectively, to receive the links 11 and 12, respectively, of the foot-form toggle 7. The heel forms 3 and 4 are formed in their inner edges with recesses 13 and 14, respectively, which receive the links 15 and 16, respectively, of the heel-form toggle 7. The links 11 and 12 of the foot-form toggle 7 are pivoted at their outer ends to the foot-forms 1 and 2, respectively, by pivots 19 and 20, in the recesses 13 and 14, respectively, of said heel forms.

The form-adjusting member 5 comprises a threaded adjusting rod 21 formed intermediate its ends with a grip member such as a knurled thumb wheel 22, a forward connecting sleeve 23 threaded on the forward portion of said adjusting rod 21, and a rear connecting sleeve 24 threaded on the rear portion of said adjusting rod. The forward connecting sleeve 23 is formed on its forward end with a fork 25, in which extend, in overlapping relation, the inner ends of the links 11 and 12 of the foot-form toggle 7, which ends of said links are pivoted to said fork 25 by a pivot 26. The rear connecting sleeve 24 is formed on its rear end with a fork 27, into which extend the inner ends of the links 15 and 16 of the heel-form toggle 7, which ends of said links are pivoted to said fork 27 by a pivot 28.

The operation, uses and advantages of my invention are as follows:

The tree being contracted is introduced into a shoe 8, so that the foot forms 1 and 2 fit loosely in the forward part of the shoe and the heel forms 3 and 4 fit loosely in the heel of said shoe, as illustrated in Fig. 1 of the drawing. Upon turning the adjusting screw rod 21 to the right by means of its thumb wheel 22, the forward connecting sleeve 23 is moved forwardly on said rod by the interengaging threads on said rod and in said sleeve and the inner pivoted ends of the links 11 and 12 of the foot-form toggle 7 are moved forwardly by said forward connecting sleeve 23, whereby said links are swung on their pivot 26, and on their pivots 17 and 18, respectively, and the outer ends of said links and the foot forms 1 and 2 are projected outwardly until the outer sides of said foot forms engage the sides of the forward portion of the upper of the shoe 8, while the rear connecting sleeve 24 is moved rearwardly on the adjusting screw rod 21 by the interengaging threads on said rod and in said sleeve; and the inner pivoted ends of the links 15 and 16 of the heel-form toggle 7 are moved rearwardly by said rear connecting sleeve 24, whereby said links are swung on their pivot 28 and on their pivots 19 and 20, respectively, and the outer ends of said toggle links 15 and 16 and the heel forms 3 and 4 are projected outwardly until the outer sides of said heel forms fit the sides of the heel portion of the upper of the shoe, as shown in Fig. 2 of the drawing. The tree thus expanded and fitted to
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the shoe will hold the shoe in proper shape un-

until it is desired to wear the shoe, when the tree

is contracted by turning the thumb wheel 22 to

the left, whereby the above described operations

are reversed and the foot forms 1 and 2 and

the heel forms 3 and 6 are drawn inwardly by

the form adjusting member 5 and the toggles 8

and 7 from the sides of the upper of the shoe

until said forms fit loosely in the shoe, where-

upon the tree may be withdrawn from the shoe.

The construction and arrangement of my shoe

tree is such as to enable it to fit shoes of several

different sizes.

I claim:

A shoe tree including a pair of foot forms, a

pair of heel forms, a toggle connecting said foot

forms, a toggle connecting said heel forms, a

threaded sleeve connected to each of said tog-

gles, an adjusting screw threaded at opposite ends

in said sleeves, respectively, and a grip member

on said adjusting screw for turning said screw

to move said connecting sleeves on said adjust-

ing screw to swing said toggles to move said foot

forms and said heel forms outwardly or in-

wardly.

IRVING KING.

REFERENCES CITED

The following references are of record in the

file of this patent:

UNITED STATES PATENTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,691,054</td>
<td>Galterio</td>
<td>Nov. 13, 1928</td>
</tr>
<tr>
<td>1,889,357</td>
<td>Gwiffre</td>
<td>Nov. 29, 1933</td>
</tr>
</tbody>
</table>