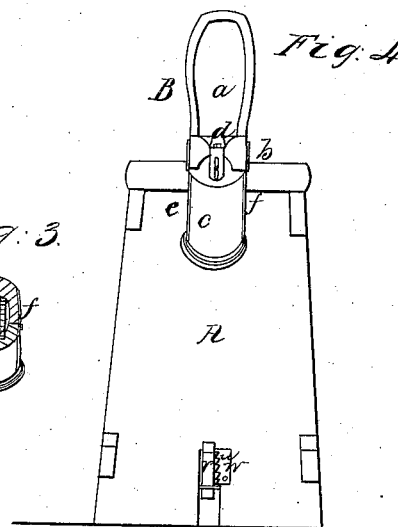
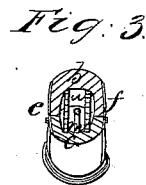
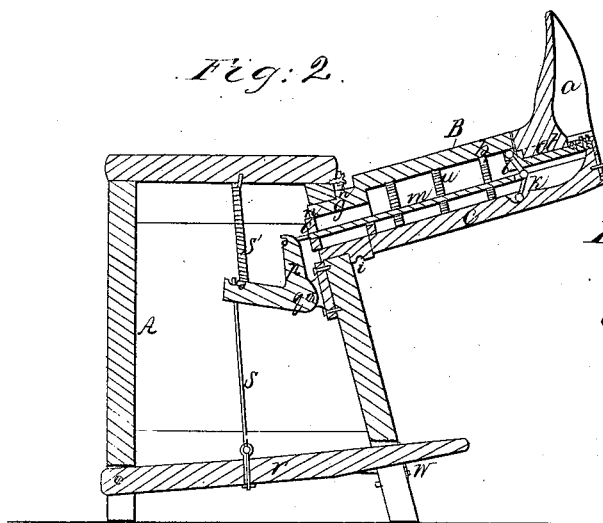
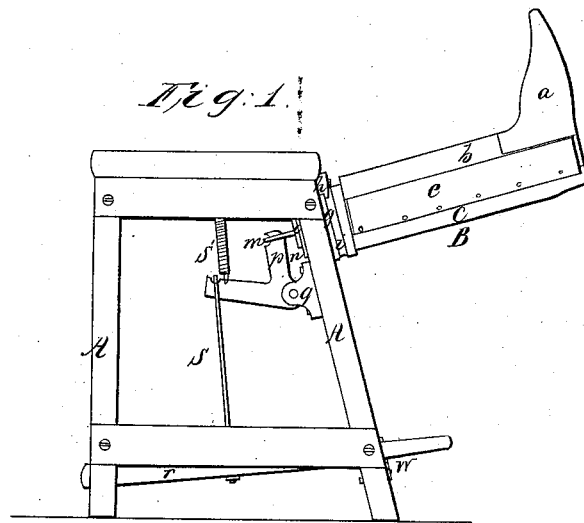


J. Howe,
Boot Tree.

N^o 5876.

Patented Oct. 24, 1848.



UNITED STATES PATENT OFFICE.

JARVIS HOWE, OF WORCESTER, MASSACHUSETTS.

BOOT-TREE.

Specification of Letters Patent No. 5,876, dated October 24, 1848.

To all whom it may concern:

Be it known that I, JARVIS HOWE, of Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Machinery for Treeing Boots; and I do hereby declare that the same is fully described and represented in the following specification and accompanying drawings, letters, figures, and references thereof.

Of the said drawings Figure 1, denotes an external or side elevation of my improved boot tree and stand, Fig. 2, is a central vertical and longitudinal section of it. Fig. 3, is a transverse section of the boot tree, and Fig. 4, is an end view of the same and its stand.

A, in said drawings exhibits a stand or table and B the boot tree, extended from it. The foot part *a*, of the said boot tree is applied to the part *b* of the leg in the usual manner, that is to say, it is constructed in a separate piece and has a dovetailed tenon *d*, (see Fig. 2,) which is made to fit and slide into a corresponding groove formed in the part *b*. In this respect the construction of the boot tree does not differ from others in use.

The leg of the boot tree is composed of two parts *b*, and *c*, arranged together as seen in the drawings, and having two metallic side plates, *e*, *f*, attached to the lower one, or one of them, and made to extend over the other and the space or joint between them. The part *b*, of the leg, has a cylindrical head or journal *g*, applied to it, the same being inserted and made to revolve in a bearing, in the side frame A, and kept in position by a projection *h*, from the frame, being made to enter a circular groove *i*, turned or made in and around the outer surface of the journal.

All parts of the said boot tree, are intended to be made of metal and of such strength as circumstances may require. The leg or portions *b*, *c*, thereof are made hollow, so as to be capable of receiving the mechanism, or a part thereof, by which the two portions are pressed asunder and drawn together as occasion may require. This mechanism consists of two toggles or progressive levers, *k*, *l*, and a pitman rod *m*.

The two toggles are respectively jointed to the two parts *b*, *c*, and are also jointed together and to one end of the rod or pitman

n, and are arranged as seen in Fig. 2. The rod *m*, is cylindrical and extends through the journal *n*, and has a swivel *o*, applied to it, the said swivel being joined to a bent lever *p*, which is disposed as seen in Figs. 1 and 2, and turns on a fulcrum at *q*. The lower arm of the said bent lever is connected to a treddle *r*, by a rod *s*, suitably jointed to both. A counter spring *s'*, is applied to the lever *p*, and frame A, as seen in the drawings, its object being to lift the lever and treddle, so as to permit the spring or springs which draw the parts *b*, *c*, of the boot leg together to operate when necessary. There may be any suitable number of said springs. They are to be applied within the interior of the boot leg, and attached to its parts *b*, *c*, so as to draw them together, when the toggles are suffered to fall back. *u* in Fig. 2 denotes the same.

The treddle *r*, has a projection *v* which engages with a toothed rack *w*, applied to the frame A, the same being for the purpose of holding the treddle down.

When a boot is to be treed, the foot part *a*, is first inserted in the foot of the boot. Next the leg of the boot is pushed on the leg of the tree, and so as to connect the foot and leg of the tree together. This being effected, the attendant presses his foot upon the treddle *r*, and depresses it, and by so doing operates the toggles so as to press the lower part *c*, of the boot tree, away from the fixed part *b*, to the extent required to completely fill the leg of the boot. The boot being thus confined on the tree, the workman can turn the whole about, or revolve the tree to the extent and in the manner as circumstances may require.

Boot trees as heretofore made have had a long wedge, or third part adapted to them to extend the front and back parts of the leg asunder. They have never to my knowledge been applied to a stand, so as to be supported by it, and be under the control of the workman, in the manner hereinbefore described.

What I claim as my invention is—

1. The combination of the swivel and turning journal and its bearing, with the frame boot tree and mechanism for distending the parts of the leg substantially as set forth.

2. I also claim the peculiar arrangement of the boot tree upon its supporting stand,

the same being represented in the drawings.

In testimony whereof I have hereto set my signature this second day of October A. D. 1847.

JARVIS HOWE.

Witnesses:

R. H. EDDY,
FRANCIS B. CROWELL.

Disclaimers.

To the Commissioner of Patents:

The petition of BENJAMIN D. GODFREY, of Milford, in the county of Worcester, respectfully represents that he has by assignment duly recorded in the Patent Office become the owner of certain Letters Patent of the United States which were granted to JARVIS HOWE, of Worcester, in the State of Massachusetts for Improvement in Boot-Trees, dated the 24th of October, 1848; that he has reason to believe that through inadvertence and mistake, the claim made in the specification of said Letters Patent is too broad, including that of which the said patentee was not the first inventor.

Your petitioner, therefore, hereby enters his disclaimer to that part of the claim in the aforementioned specification which is in the following words, to wit: "I also claim the peculiar arrangement of the boot tree upon its supporting stand, the same being represented in the drawings," which disclaimer is to operate to the extent of the interest in said Letters Patent vested in your petitioner, who has paid ten dollars into the Treasury of the United States, agreeably

to the requirements of the act of Congress in that case made and provided.

Boston, 13th June, 1861.

B. D. GODFREY.

To the Commissioner of Patents:

The petition of JARVIS HOWE, of Brookfield, in the county of Worcester and State of Massachusetts, respectfully represents that he is the original patentee of certain Improvements in Boot-Trees, for which Letters Patent of the United States were granted to him, dated October 24, 1848; that he has reason to believe that through inadvertence and mistake the claim made in the specification of said Letters Patent is too broad, including that of which he, the said patentee, was not the first inventor.

Your petitioner, therefore, hereby enters his disclaimer to that part of the claim in the aforementioned specification which is in the following words—(being the second claim in said specification): "I also claim the peculiar arrangement of the boot tree upon its supporting stand," which disclaimer is to operate to the extent of the interest in said Letters Patent now or hereafter to be vested in your petitioner, who has paid ten dollars into the Treasury of the United States agreeably to the requirements of the act of Congress in that case made and provided.

Signed at Brookfield, Mass., this 24th day of October, 1862.

JARVIS HOWE.

Witness:

CAUSTEN BROWNE.