(12) **United States Patent**
Haynes

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(54) **BENCH, PERPETUAL SHOE**

(76) Inventor: **Samuel Haynes**

Samuel Haynes
Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Samuel Haynes himself of his improvement in the art of Manufacturing Boots and Shoes which he calls "The perpetual Shoe Bench."

To all persons to whom these presents shall come

Samuel Haynes of Malden in County of Middlesex and State of Massachusetts, Manufacturer of Boots and Shoes sends greeting. Be it known, that I, the said Samuel Haynes have invented, constructed, made and applied to use a new and useful improvement in the art of Manufacturing Boots and shoes which I call "The perpetual Shoe Bench." My said invention or improvement is plainly and fully described and described in the words and figures following, to wit: My Bench and any part of it may be made of Mahogany, oak or any other wood, or of iron or any other Metal. My Benches are about three feet high, or they may be made of any other height to suit the taste of the operator. The lower part of the Bench is a Plank or other platform as is represented by the letter A. drawing No. 1 of the width of about three feet, and of the desired length of the Bench. it lies on the floor of the work shop and must be of sufficient thickness to receive and hold firmly the standards, shafts, uprights that proceed from it to support the upper platform or working Bench. B. B. B. are the standards, shafts or uprights standing at right angles on the lower platform on the centre of it extending to one third of its width, well secured to and through it about four inches in width and proceeding upright from the lower platform up to and through the upper platform or working bench grooved in the front a. a back part in that portion of it that rises above the working bench. in a convenient manner to receive and hold firm the heel and fore part of the shoe. The centre parts of these standards, shafts or uprights are to a convenient distance, below the working bench cut down so that the straps may be attached to the shoe and plag easily and freely. C. C. C. is the upper platform or working bench. It is about two inches thick in my apparatus and proceeds from the front side of the standards, shafts or uprights back to a line even with the

the back side of the lower platform. Through this in notches or slots of suitable dimensions, the standards proceed and are well secured therein. A, is a board descending 6 or 8 inches from the front side of the working bench and on the front sides or edges of the uprights or standards and securely fastened to the front side of the working bench, and to the uprights. b, is a ledge on the back side of the working bench two or three inches high made merely for the convenience of the operator to prevent his tools & materials from falling off on the opposite side. D, D, D, &c are the shoes or boots placed on the grooves of the uprights and arranged at a convenient distance above the working bench for the operator. C, C, C, &c are leather straps attached at the upper end to the projecting parts of the lasts by hooks inserted into holes bored through the projecting parts of the lasts, or by proceeding through loops of leather temporarily fastened to the shoe or boot & last over the instep and hanging down as the shoe is placed & projecting downward far enough for the straps to pass through it. The straps then passes down to and around the bars or levers d, d, d, &c The bars or levers d, d, d, &c are fastened to the lower platform on the back side by leathern or other hinges and on the front side they play up and down at pleasure. e, e, e, &c are catches or flanches, fastened to the standards or uprights under which the bar, d, is brought at pleasure by the foot of the operator. The straps c, must be so adjusted that when the front of the bar, d, is brought down it may readily pass under the catch e, so that the shoes will be held firmly in the grooves of the uprights above the working bench. The uprights and of course the shoes thus firmly secured in the grooves above the working bench are placed one foot apart. The number of the shoes placed on the bench for one operation as represented in the plans and model herewith sent is ten, — but it is obvious that they may be multiplied to any desired number by increasing the length of the bench. Figures or drawings N°1 & 2 represent the bench and its prominent parts - and the shoes and boots or the lasts with the leather on them fit for operation in different positions which cannot be mistaken by any mechanic on inspecting the drawings. Some parts of the machinery herein represented and described have been heretofore known and used. I believe some parts of it are new, but not being sure of this, I herein claim no particular part of the machinery as constituting my invention. But my invention which I hereby

claim

claim and for the exclusive right to use which I now desire Letters Patent, is a Combination of Machinery to produce a new and useful result. The decided utility of my invention consists in this. When the bench is prepared with ten or more places for shoes on it, the lasts with the leather placed thereon, in its finish state for Manufacture should be secured in the grooves. The operator should then successively stitch the upper leather to the inner soles on all of them - next the soles should be placed on all the shoes, and the operator should peg on the soles successively, and so of the heels, polishing and finishing. In this mode with my combination of Machinery, by working on many shoes successively in each part of the Manufacture, and in avoiding the frequent changes of the materials and the positions of the shoes by the operator, he will be able in a given time to manufacture and finish, and complete, in a thorough and workman like manner more than double the number of shoes or boots, that he could finish in the usual modes of manufacture now in use. For making boots the front of the standard or upright, from below where it passes through the working bench, must be detached therefrom sufficiently to let the boot leg descend over it while the boot is in the operation of Manufacture.

In testimony that the above is a true specification of my said invention or improvement I have hereunto set my hand this thirteenth day of August in the year of our Lord one thousand eight hundred and thirty four. Enrd

Witnesses
George W. Adams
Augustus Peabody

Sam Waynes

Drawing

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