May 27, 1947. R. L. GREENLEAF 2,421,260

WORK TABLE FOR STAMPING AND EMBOSSING MACHINES

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Fig. 1.

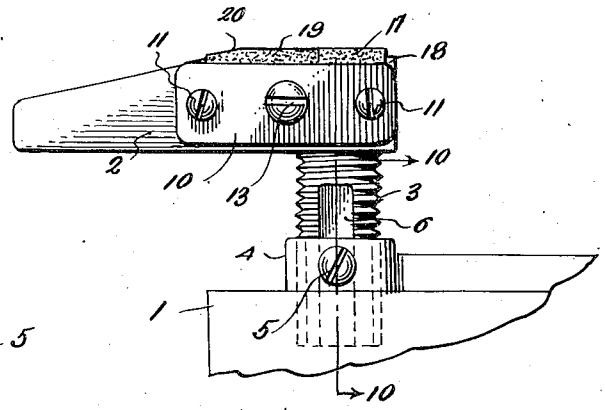


Fig. 1a.

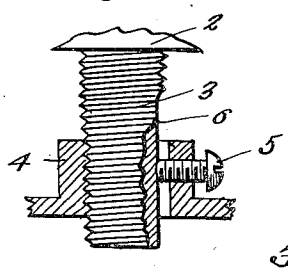


Fig. 2.

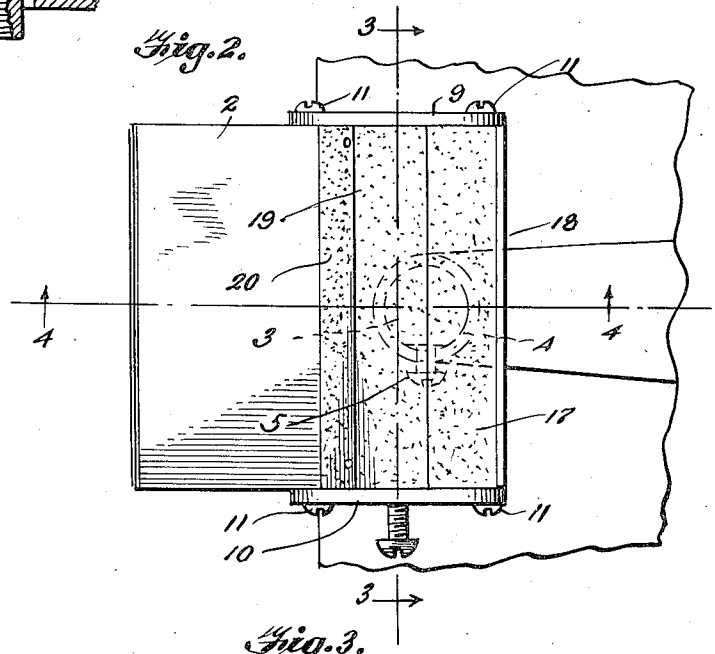
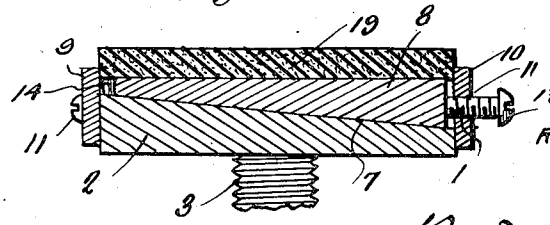


Fig. 3.



Inventor
RUPERT L. GREENLEAF

By Robert J. Woodward
Attorney

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Fig. 4.

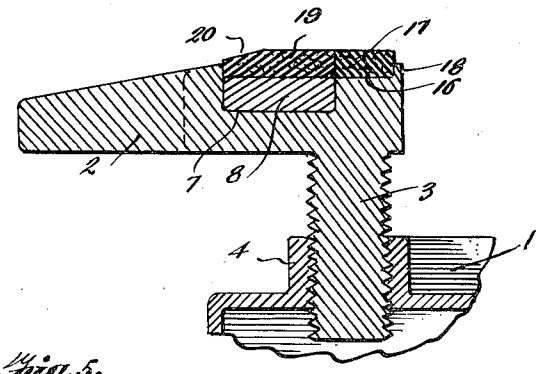


Fig. 5.

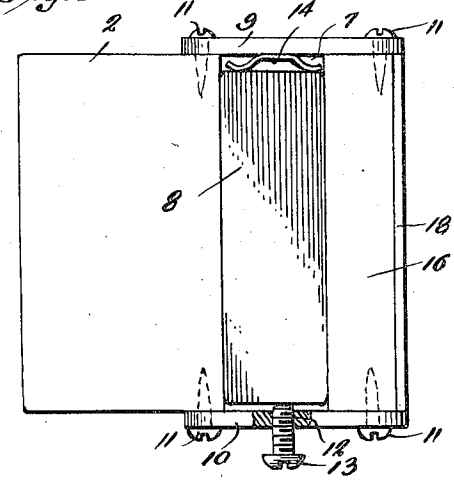


Fig. 9.



Fig. 6.

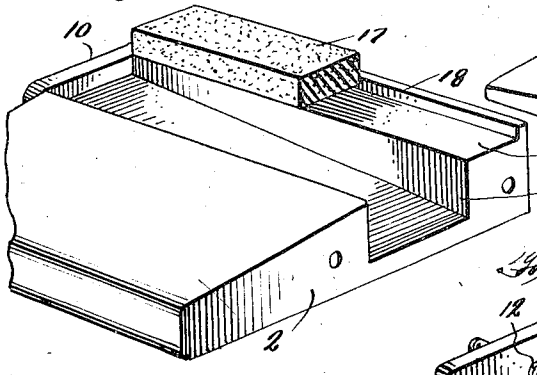


Fig. 7.

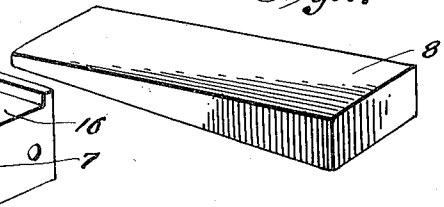
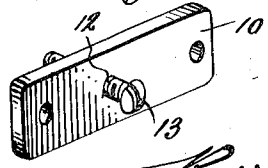


Fig. 8.



Inventor
RUPERT L. GREENLEAF

By Rudolph Woodward
Attorney

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WORKTABLE FOR STAMPING AND EMBOSSING MACHINES

Rupert L. Greenleaf, Auburn, Maine

Application November 8, 1944, Serial No. 562,508

4 Claims. (Cl. 101—407)

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This invention relates to a work table for a stamping machine and it is one object of the invention to provide a table which may be used in a stamping machine of conventional formation and serve very effectively as a backing for a tongue, lining, or other portion of a shoe which is to be stamped with stock numbers, size markings, and other markings.

In a stamping machine of this character the type wheels turn on a sleeve, whereas the stock numbers are inserted in a frame or stock attachment and are more subject to wear. When stock numbers become worn they print lighter than impressions from the wheels and are discarded and new ones applied, thus causing expense by frequent replacements. Therefore, one object of the invention is to provide a table of such construction that it may be vertically adjusted for proper contact of the type wheels with a tongue or lining and including a pad which is disposed under the stock members and independently shiftable vertically to adjusted position so that as the stock numbers become worn such wear may be compensated for and the stock numbers clearly printed.

Another object of the invention is to eliminate use of shims for raising the forward portion of a fiber pad disposed under the stock numbers and permit the vertical adjustment desired to be accomplished very easily and quickly by merely turning an adjusting screw engaging a wedge under the pad.

Another object of the invention is to provide a table including a removable fiber pad of such size that its lower portion will fit in a recess or seat formed in the top of the table, the upper portion of the pad being cut so that it will accommodate a predetermined number of lines of markings.

Another object of the invention is to provide a table of this character wherein vertical adjustment of the pad is accomplished by means of a wedge shifted to adjusted positions by an adjusting screw and yieldably held against movement in one direction by a spring so that it will be held in contact with the adjusting screw.

Another object is to provide a table which is simple in construction, easy to install in a machine of conventional type, and very efficient in use.

In the accompanying drawings:

Fig. 1 is a side of the improved table.

Fig. 2 is a top plan view of the table.

Fig. 3 is a sectional view taken transversely through the table on the line 3—3 of Fig. 2.

Fig. 4 is a sectional view on the line 4—4 of Fig. 2.

Fig. 5 is a top plan view of the table with the vertically shiftable fiber pad removed.

Fig. 6 is a perspective view of the table with the adjustable pad and the wedge under the pad, removed.

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Fig. 7 is a perspective view of the wedge for adjustably supporting the pad.

Fig. 8 is a perspective view of the plate carrying the adjusting screw for the wedge.

Fig. 9 is a perspective view of the spring for yieldably resisting movement of the wedge in a direction for raising the pad.

Fig. 10 is a fragmentary view on the line 10—10 of Fig. 1.

The improved table constituting the subject matter of this invention is used in a machine for stamping size markings, stock numbers, and other markings on tongues, linings, and other portions of a shoe. This table is mounted in the machine under the printing wheels and frame for carrying stock numbers and supports the tongue or lining while being marked. A portion 1 of a conventional stamping machine is shown in the drawings and may be referred to as a mounting for the table. This table has a top or body 2 from which extends a depending post 3 located under the rear end portion of the table midway the width thereof. The post is threaded for engagement with threads of the internally threaded socket 4 of the mounting 1 and, in order that the post may be secured against turning after the table has been vertically adjusted to a desired height, there has been provided a set screw 5 engaged through an opening formed in the socket 4 and bearing against a flat face 6 formed longitudinally of the post.

The top 2 of the table is rectangular in top plan and has its rear portion formed with a transversely extending groove 7 forming a seat in which is slidably received a wedge 8, the groove or seat having its bottom extending at an upward incline toward one end of the groove to provide a cam surface so that the wedge will be shifted upwardly as it is moved in the groove toward the high end of the sloping bottom thereof. The under face of the wedge extends at an angle conforming to the slope of the bottom of the groove or seat 7 and its upper surface is in a horizontal plane, and referring to Fig. 3, it will be seen that while shifting of the wedge longitudinally will effect vertical adjustment of the wedge, its upper surface will remain in a horizontal plane. Ends of the groove or seat are closed by plates 9 and 10 which are secured against side faces of the table top by screws 11, the plate 10 being formed midway its length with a threaded opening 12 to receive an adjusting screw 13. This screw 13 has its inner end bearing against the large end of the wedge 8 and when the screw is turned to move it inwardly, the wedge will be shifted longitudinally in the seat toward the high end of the sloping bottom and raised during such movement. A spring 14, formed from a strip of resilient metal, is disposed

in the seat with its intermediate portion bearing against plate 9 and its arms 15 projecting inwardly for engagement with the end of the wedge, and this spring yieldably resists movement of the wedge in a lifting direction and maintains the wedge in contact with the inner end of the adjusting screw. Therefore, when the screw is turned in a loosening direction to move it outwardly, the spring will urge the wedge towards the screw and move it in a lowering direction.

Between the groove or seat and the rear end of the table top, the upper face of the top forms a ledge 16 upon which a pad 17 rests, this pad being cemented upon the ledge and held against rearward movement by an upstanding flange 18 formed along the rear edge of the table top. A second fiber pad 19 rests on the wedge and is of such width and length that it may fit into the groove or seat 7 and be shifted vertically therein by movement of the wedge. The pad 19 is beveled along its forward portion, as shown at 20, thus providing the pad with a flat upper face of predetermined width from its rear edge to the rear edge of the beveled portion 20 so that the pad may be used as a support and backing for a tongue or liner upon which a certain number of lines of markings are to be printed. By accurate adjustment of the screw 13, the pad 19 may be shifted vertically to dispose the upper surface thereof flush with the upper face of the pad 17 and all of the lines of markings printed upon the tongue or liner will be clear. While the pad 19 has been shown formed separate from pad 17, it will be understood that these pads may be formed from a single sheet of fiber if desired.

Having thus described the invention, what is claimed is:

1. A work table for a stamping machine comprising a table top formed in spaced relation to its rear edge with a transverse groove constituting a seat and having its bottom sloping upwardly toward one end, plates secured against side faces of said table top and constituting end walls for the seat, a wedge of less length than the seat fitting in said seat and having a flat horizontally extending upper face and a sloping under face in flat contacting engagement with the sloping bottom of the seat, an adjusting screw threaded through an opening in the plate closing the deep end of the seat and abutting the large end of said wedge for shifting the wedge longitudinally when the screw is turned in a direction to move it inwardly, a spring in the other end of said seat formed from a strip of resilient material having its intermediate portion bearing against the plate closing the shallow end of the seat and its end portions bent to form arms extending inwardly from the plate and engaging the small end of the wedge and urging the wedge toward said screw, a flange extending upwardly along the rear edge of the table top, a pad upon the surface of the table top between the rear edge of said seat and said flange and projecting upwardly above the flange, and a pad of the same length and width as the seat resting upon said wedge and shiftable vertically in the seat with the wedge, the second pad having the forward portion of its upper surface beveled to provide a flat surface of predetermined width between the rear edge of the beveled surface and the rear edge of the pad.

2. A table for a stamping machine comprising a table top having mounting means, said table top being formed across its upper surface with a transversely extending groove spaced from the rear edge of the table top, the portion of the upper face of the table top between its rear edge and said groove constituting a ledge having a flat horizontal surface and the portion of the upper face of the table between the groove and the front edge of the table top extending forwardly at a downward incline, a flange along the rear edge of the table top, said groove having its bottom extending at an upward incline toward one end, plates at opposite sides of said table top closing ends of said groove, a wedge in said groove having a sloping under surface resting upon the bottom thereof and being shiftable longitudinally therein, an adjusting screw threaded through one plate and engaging the large adjacent end of the wedge for moving the wedge longitudinally in the groove, a spring in the other end of the groove engaging the small end of the wedge and yieldably resisting movement of the wedge by the adjusting screw, a pad upon said ledge between said flange and the rear edge of said groove, an a pad supported upon said wedge and shiftable vertically with the wedge in the groove when the wedge is shifted longitudinally and moved vertically.

3. A table for a stamping machine comprising a table top formed across its upper surface with a transverse groove spaced from the rear edge of the table top and having a sloping bottom, end walls for said groove, an adjusting screw threaded through one end wall, a spring in the groove having an intermediate portion bearing against the other end wall and end portions spaced inwardly from the last mentioned wall, a wedge in said groove shiftable longitudinally and moved vertically therein by action of the sloping bottom and having one end engaging the inner end of the adjusting screw and its other end engaged by the end portions of said spring to yieldably hold the wedge against the inner end of the screw, and a pad resting on said wedge and shiftable vertically with the wedge.

4. A table for a stamping machine comprising a table top having mounting means, said table top being formed across its upper surface with a groove spaced from the rear edge of the table top, a plate removably secured against a side edge face of the table top and constituting a closure for one end of said groove, the bottom of the groove sloping upwardly toward the other end and forming a cam surface, a wedge in said groove resting upon the cam surface and moved vertically thereby of the sloping bottom of the groove when shifted longitudinally in the groove, a screw threaded through said plate and engaging the adjacent end of the wedge for shifting the wedge longitudinally, a spring in the other end of the groove engaging the adjacent end of the wedge and yieldably resisting movement of the wedge by the screw, and a pad resting upon said wedge and shifted vertically thereby when the wedge is moved longitudinally and shifted vertically.

RUPERT L. GREENLEAF.

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