July 15, 1947. S. G. SHAPIRO 2,424,060

INDUSTRIAL TABLE

Filed May 21, 1946

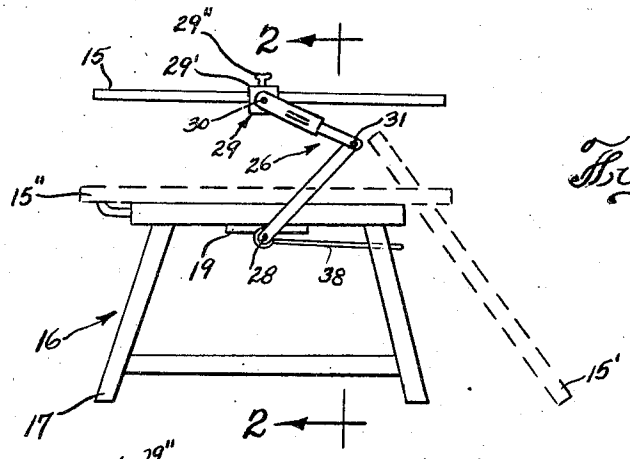


Fig. 1.

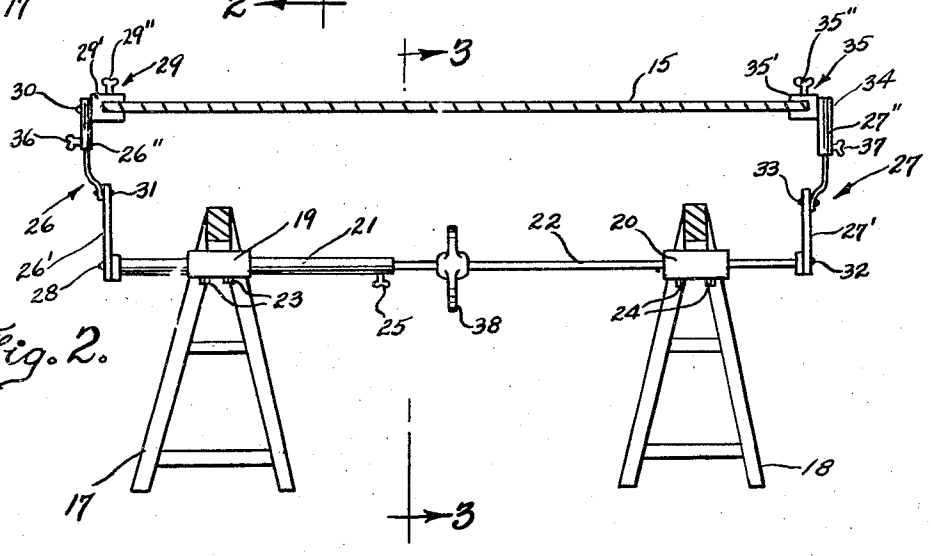


Fig. 2.

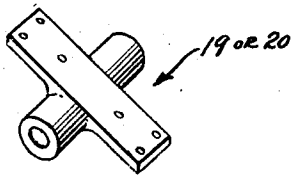


Fig. 4.

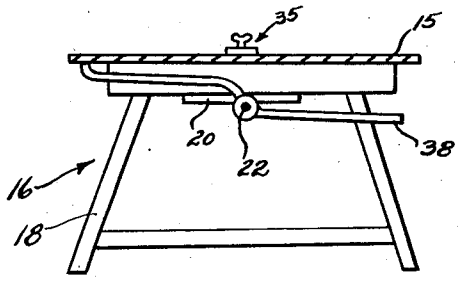


Fig. 3.

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INDUSTRIAL TABLE

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15 Claims. (Cl. 69—19)

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The present invention relates to industrial tables and more particularly to supports for work boards, which, as a matter of example, are suitable for use by furriers.

A use for the device concerned with herein, is where comparatively large boards are used to have fur pelts nailed onto both surfaces thereof. It usually requires two persons to lift such board onto trestles or other table-top supports, turn such board over when required and thereafter remove it from such supports to make room for the next board to be worked on.

An object therefore of this invention is to provide a novel and improved supporting means for a board or the like, whereby it is convenient for one worker to lift the board onto or off the trestles, or turn same over thereon.

A further object hereof is to provide a board supporting means of novel and improved construction, adaptable for boards of various area sizes.

Another object of the present invention is to provide a novel and improved device which enables manipulating the work board as mentioned, and which can be made as an attachment for existing trestle or other supporting structures.

A further object hereof is to provide a novel and improved device of the character described, which is simple in construction, reasonably cheap to manufacture, easy to use and efficient in carrying out the purposes for which it is designed.

Other objects and advantages will become apparent as this disclosure proceeds.

In the accompanying drawings forming part of this application, similar characters of reference indicate corresponding parts in all the views.

Fig. 1 is an end view of a work board and a supporting means therefor embodying the teachings of this invention; said board being shown in a manually held position.

Fig. 2 is a section taken at line 2—2 in Fig. 1.

Fig. 3 is a section taken at line 3—3 in Fig. 2 with the table resting on the supporting structure.

Fig. 4 is a perspective view showing a bracket included in said embodiment.

In the drawings, the numeral 15 indicates a work board and 16 any suitable supporting means therefor, as for instance the pair of horses 17 and 18 which are in spaced relation thereunder. Mounted underslung on the respective top rails of said horses or trestles 17 and 18, are the brackets 19 and 20 respectively. Bracket 19 carries the tubular member 21, while bracket 20, carries rod member 22; said members 21 and 22

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being in telescopic relation. The numerals 23 and 24 are bolts for securing said telescopic members to the respective brackets, while 25 is a thumb screw to maintain said members in a definite relation. Thus far described, is a telescopically adjustable table-top supporting structure. At the remote ends of such structure are the respective foldable braces designated generally by the numerals 26 and 27. Brace 26 comprises a link 26' pivotally mounted at one end at 28 to member 21, and another link which may be of the extensible type as 26'', pivotally mounted at one end to a board clamp 29 at 30; the other ends of said links being in pivotal relation by pin 31. Brace 27 is of identical structure. The links comprising same are identified by the numerals 27' and 27''. Pivotal connections are 32, 33 and 34, while 35 is the associated board clamp. The clamps 29 and 35, are comprised of the respective channel-pieces 29' and 35', and the respective thumb screws 29'' and 35'', to engage board 15.

For use, the horses 17 and 18 are spaced apart as far as is practical and bolts 23 and 24 tightened, as well as thumb screw 25, so that the clamps 29 and 35 are a proper distance apart to receive board 15 between them. The extensible links 26'' and 27'' are adjusted by means of the respective set screws 36 and 37, so that the total length of the braces 26 and 27 shall be identical when extended and sufficient to permit the board 15 when mounted to be turned to clear the horses 17 and 18. A board 15 to be worked on, is then placed with its forward edge resting on the floor and a surface thereof resting against said horses, meaning a position indicated by the numeral 15' in Fig. 1. The clamps 29 and 35 are mounted substantially centrally onto the side edges of the board 15. The entire assembly being of sturdy construction, board 15 is taken hold of at its side edges near the floor in its position 15' and its lower end lifted, at the same time sliding said board along the top rail of said horses until it lies in position 15''. To reverse the position of the board so that what was its underside shall face uppermost, said board is taken in hand, its forward end is then lifted and pulled forward, and said board can then be turned about while its rear edge slides forward atop the horses. All such manipulation of the board 15, can be accomplished easily by only one person. Once the device is set up for the largest size board, and if the widths of the boards used are not at great variance, the only adjustment which need be made is for length, requiring only adjustment

of the telescopic brace members secured by thumb screw 25.

To aid initial lift of the board 15, a lever 33 may be provided, rotatably mounted on rod 22, intermediate the ends of said lever, and dimensioned so, that it is balanced so that it does not revolve of itself when board 15 is off the trestles 17 and 18.

When the boards used are of uniform size as to their widths, the adjustability afforded by links 26'' and 27'' may be omitted, and if also of uniform length, the adjustability of spacing the horses, may be omitted.

This invention is capable of numerous forms and various applications without departing from the essential features herein disclosed. It is therefore intended and desired that the embodiment shown herein be deemed illustrative and not restrictive and that the patent shall cover all patentable novelty herein set forth; reference being had to the following claims rather than to the specific description and showing herein to indicate the scope of the invention.

I claim:

1. In an industrial table of the character described, a structure adapted to support a board thereon, a board resting on said structure; said board presenting one of its surfaces to be worked on, a member moveably mounted on said supporting structure and positioned laterally of the board; the board being pivotally mounted on said member on an axis substantially parallel to the surfaces of said board, whereby upon movement of the board and said member the line of said axis is moved away from said supporting structure a predetermined distance, said board is revolvable about said axis a half revolution so that when said board is so moved, revolved and then returned to rest on the supporting structure, the other surface of the board is presented to be worked on.

2. In an industrial table of the character described, a structure adapted to support a board thereon, a board resting on said structure; said board presenting one of its surfaces to be worked on, a member moveably mounted on said supporting structure and positioned laterally of said board, a board clamping means detachably mounted on the board; said clamping means being pivotally mounted on said movable member on an axis substantially parallel to the surfaces of said board, whereby upon movement of the board and said member the line of said axis is moved away from the supporting structure a predetermined distance, said board is revolvable about said axis a half revolution so that when said board is so moved, revolved and then returned to rest on the supporting structure, the other surface of the board is presented to be worked on.

3. An industrial table as defined in claim 2, wherein the moveable member is pivotally mounted on the supporting structure about an axis parallel to the axis of rotation of the clamping means, whereby the board is moveable to a position in front of and against the supporting structure.

4. In an industrial table of the character described, a structure adapted to support a board thereon, a board resting on said structure; said board presenting one of its surfaces to be worked on, a pair of foldable braces, each comprising a pair of linked elongated members; said board being positioned between said braces and pivotally mounted to an end of each of said braces about a common axis substantially parallel to the surfaces of said board; said braces being pivotally mounted at their other ends to the supporting structure about a common axis; all pivotal connections being parallel; said braces when extended in a direction away from said supporting structure, permitting free revolution of the board at least a half turn, so that when said board is so moved, revolved and then returned to rest on the supporting structure, the other surface of the board is presented to be worked on.

5. In an industrial table of the character described, a structure adapted to support a board thereon, a board resting on said structure; said board presenting one of its surfaces to be worked on, a pair of foldable braces, each comprising a pair of linked elongated members; said board being positioned between said braces, a pair of board clamping means, one such means being pivotally mounted at one end of each of said braces respectively and detachably mounted on the board at opposite ends of the board; the axis of pivotal connection of the clamping means being a common one and parallel substantially to the surfaces of the board; said braces being pivotally mounted at their other ends to the supporting structure; all pivotal connections being parallel; said braces when extended in a direction away from said supporting structure, permitting free revolution of the board at least a half turn, so that when the board is so moved, revolved and then returned to rest on the supporting structure, the other surface of the board is presented to be worked on.

6. An industrial table as defined in claim 5, wherein when the braces are in extended condition, the board is moveable to a position in front of and against the supporting structure.

7. An industrial table as defined in claim 1, wherein the moveable member is pivotally mounted on the supporting structure about an axis parallel to the axis of rotation of the board, whereby the board is moveable to a position in front of and against the supporting structure.

8. An industrial table as defined in claim 4, wherein one of the elongated members of each of the braces is longitudinally extensibly adjustable.

9. An industrial table as defined in claim 5, wherein one of the elongated members of each of the braces is longitudinally extensibly adjustable.

10. An industrial table as defined in claim 4, including a lever pivotally mounted on the supporting structure, adapted upon movement thereof to swing the board to a tilted position on the supporting structure.

11. An industrial table as defined in claim 5, including a lever pivotally mounted on the supporting structure, adopted upon movement thereof to swing the board to a tilted position on the supporting structure.

12. A device of the character described, comprising a pair of foldable braces, means carried at one end of each of said braces respectively for pivotally attaching same to a board positioned on a supporting structure and means carried at the other end of each of said braces respectively for pivotally attaching same to the supporting structure; all axes of the pivotal connections being parallel.

13. A device as defined in claim 12, wherein each of the board pivotal connection means comprises a clamp pivotally mounted on the respective braces; said clamps being adapted to be detachably mounted on the board.

14. A device as defined in claim 12, including

a telescopically adjustable brace adapted to be mounted onto a pair of spaced parts of the supporting structure; said supporting structure being comprised of two separate parts; the pivotal connections of the foldable braces on the supporting structure being respectively at the ends of said telescopically adjustable brace.

15. A device as defined in claim 12, including a telescopically adjustable brace adapted to be mounted onto a pair of spaced parts of the supporting structure; said supporting structure being comprised of two separate parts; the pivotal connections of the foldable braces on the supporting structure being respectively at the ends of said telescopically adjustable brace, and including a lever swingably mounted on said telescopically adjustable brace adapted when moved to tilt the board on the supporting structure.

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