Jan. 18, 1966 T. C. PARMELEE 3,229,735

FOLDING SAW TABLE

Filed Dec. 19, 1963

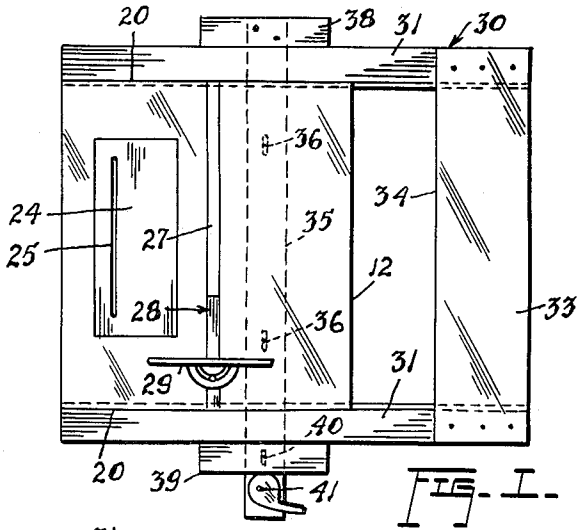


FIG. 1.

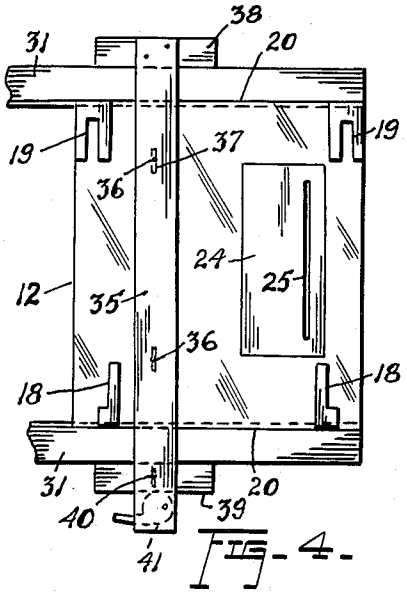


FIG. 4.

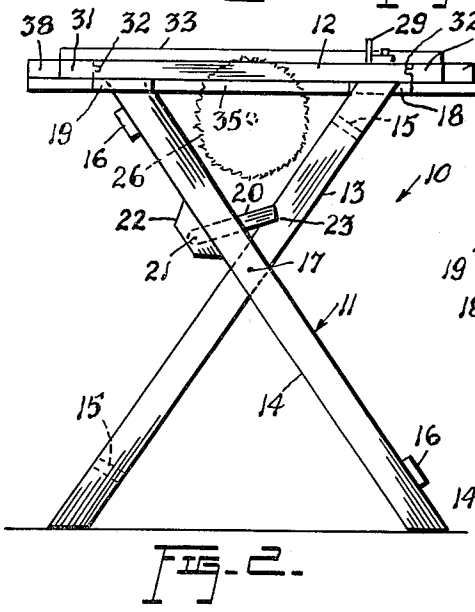


FIG. 2.

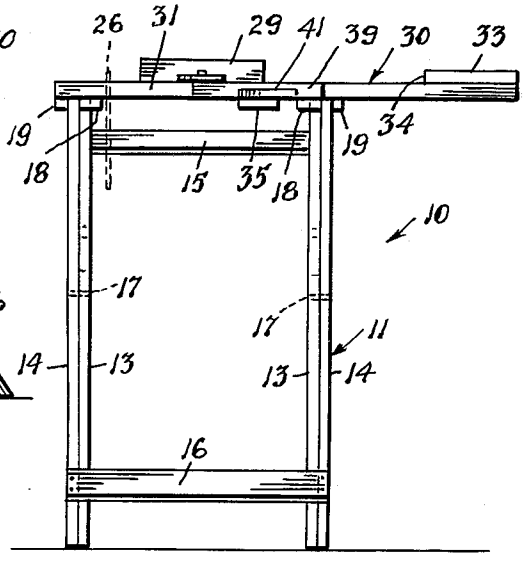


FIG. 3.

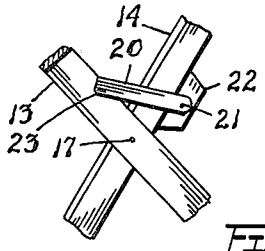


FIG. 5.

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United States Patent Office

3,229,735

Patented Jan. 18, 1966

3,229,735

FOLDING SAW TABLE

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Filed Dec. 19, 1963, Ser. No. 331,837

7 Claims. (Cl. 143—132)

This invention relates to new and useful improvements in saw tables of the general type used by carpenters on construction work, and the principal object of the invention is to provide a portable, foldable saw table which may be quickly and easily erected by one man for instant use, which may be folded with equal expediency, and which in a compactly folded form may be conveniently carried or transported from one location to another, as for example, in the trunk of an automobile.

Another feature of the invention resides in its adaptability for use in conjunction with a conventional motor-driven hand saw, the table having adjustable guide means both for cross cutting and for ripping the work.

Other features of the invention reside in its simple construction, in its durability, and in its adaptability to economical manufacture.

Wth the foregoing more important object and features in view and such other objects and features as may become apparent as this specification proceeds, the invention will be understood from the following description taken in conjunction with the accompanying drawing, wherein like characters of reference are used to designate like parts, and wherein:

FIGURE 1 is a top plan view of a saw table in accordance with the invention;

FIGURE 2 is a side elevational view thereof;

FIGURE 3 is a front elevational view;

FIGURE 4 is a fragmentary underside plan view of the table top; and

FIGURE 5 is a fragmentary perspective detail of the releasable leg locking means.

Referring now to the accompanying drawing in detail, the folding saw table in accordance with the invention is designated generally by the reference numeral **10** and embodies in its construction a foldable leg structure **11** on which is supported a removable table top **12**.

The leg structure **11** comprises two pairs of leg members **13**, **14**, the leg members or legs in each pair being transversely spaced, as shown in FIGURE 3. The legs **13** are connected together by transverse braces **15** which extend between the legs and abut the opposing inner surfaces of the legs, as illustrated. The legs **14** are similarly connected together by transverse braces **16** which abut the outer longitudinal side edges of the legs **14**, as is best shown in FIGURE 2. The two pairs of legs are crossed and pivotally connected together as at **17** at their point of crossing, so that the leg structure may be folded and unfolded, as will be readily apparent.

As illustrated in FIGURE 4 which shows the underside of the top **12**, two pairs of sockets **18**, **19** are secured to the underside of the top adjacent its side edges **20**. The sockets **19** are U-shaped with closed outer ends and open inner ends, and removably receive therein the upper ends of the legs **14** when the top **12** is positioned on the leg structure **11**. The sockets **18** are L-shaped with closed outer ends, open inner ends and open sides, and removably receive the upper ends of the legs **13**. Although the sockets **18** may be U-shaped as are the sockets **19**, the open-sided arrangement of the L-shaped sockets **18** makes it easier for the legs **13** to be placed therein, after the legs **14** have been placed in the sockets **19**.

It will be apparent that when the top **12** is in position on the leg structure **11**, the closed outer ends of the sockets **18**, **19** will abut the legs **13**, **14**, respectively, and will thus limit the extent of unfolding movement of the

legs, in other words, the sockets will prevent the legs from spreading beyond a predetermined limit, for example, beyond the position shown in FIGURE 2. In addition, means are provided for locking the legs against folding, these means comprising a pair of latches **20** which are pivoted as at **21** to blocks **22** affixed to the legs **14**. The blocks **22** are coplanar with the legs **14** and the latches **20** are pivoted to the inside surfaces of the blocks so that they are coplanar with the legs **13** which are pivoted to the inside surfaces of the legs **14** at **17**. The free end portions of the latches **20** are received in notches **23** formed in the legs **13**, whereby the leg structure is releasably locked in its unfolded or erected form. Of course, by simply disengaging the latches from the notches, the leg structure may be folded so that the legs **13** and **14** are coplanar and the latches **20** are unobtrusively disposed adjacent the legs **13**.

The table top **12** is provided with a removable panel **24** which is held in place in any suitable manner and is formed with a slot **25** to accommodate the circular blade **26** of a conventional motor-driven hand saw (not shown), which may be mounted below the table top in any suitable manner. It will be noted that the slot **25** extends at right angles to the side edges **20** of the top.

The top **12** is provided in its upper surface with a groove **27** in parallel with the slot **25**, and a work guide **28** is slidably adjustable in the groove. The work guide **28** includes an angularly adjustable portion **29**, against which a piece of work (not shown) may be positioned while being cross cut or angle cut by the blade **26**.

An additional work guide **30** is provided for use in ripping the work. The guide **30** consists of a pair of parallel bars **31** which are juxtaposed to the side edges **20** of the top in coplanar relation therewith and are longitudinally slidable in a tongue-and-groove connection indicated at **32**. The bars **31** project longitudinally beyond the table top and are rigidly connected together at the projecting ends thereof by a guide member **33** having a work guiding edge **34** which is parallel to the saw slot **25**, so that work guided by the edge **34** may be ripped by the saw. It will be noted that by sliding the bars **31** along the table top edges **20**, the guide member **33** may be moved toward and away from the saw slot, even to a position where the member **33** overlies the table top itself. Of course, the cross cut guide **28**, **29** is removed from the table top when ripping work is to be done.

Means are provided for releasably locking the work guide **30** in an adjusted position, these means comprising a cross strap **35** which extends under the table top **12** and under the bars **31**, being movably attached to the table top by bolts or screws **36** extending through longitudinal slots **37** in the strap. One end portion of the strap **35** has secured thereto a fixed shoe **38**, while a movable shoe **39** is mounted on the other end portion of the strap by a slot and screw connection **40**. The shoes **38**, **39** engage the outer side edges of the bars **31** and may be frictionally urged thereagainst by the action of a cam **41** which is pivotally mounted on the strap **35** so as to engage the movable shoe **39**. When the cam is moved to its locking position, the shoes **38**, **39** are pressed against the bars **31** and the latter in turn are pressed against the side edges **20** of the table top **12**, thus locking the work guide **30** in a predetermined set position relative to the saw blade.

When the saw table is not being used, the table top may be readily separated from the leg structure and the latter folded as already explained, so that the entire device may be easily and unobtrusively carried, transported, or stored.

While in the foregoing there has been described and shown the preferred embodiment of the invention, various modifications may become apparent to those skilled in

the art to which the invention relates. Accordingly, it is not desired to limit the invention to this disclosure, and various modifications and equivalents may be resorted to, falling within the spirit and scope of the invention as claimed.

What is claimed as new is:

1. In a saw table, the combination of a table top having a pair of parallel side edges and provided at right angles to said edges with a slot adapted to have a saw blade projecting therethrough, a work ripping guide comprising a pair of spaced parallel bars juxtaposed to said side edges in coplanar relation with the top and projecting longitudinally beyond the top, a guide member rigidly secured to the projecting end portions of said bars and having a guiding edge parallel to said slot, said guide bars being slidable on said side edges of said top whereby said guide member may be moved toward and away from said slot, and means for releasably clamping said guide bars against said side edges.

2. The device as defined in claim 1 wherein said clamping means comprise a cross strap extending under said table top and under said guide bars, means movably attaching said cross strap to the underside of the top, a fixed shoe secured to one end portion of said strap and engaging one of said guide bars, a movable shoe mounted on the other end portion of the strap and engaging the other guide bar, and cam means on said strap in engagement with said movable shoe.

3. The device as defined in claim 1 together with coacting tongue and groove means provided at said side edges of said top and at said guide bars.

4. In a saw table, the combination of a table top having a pair of parallel side edges and provided at right angles to said edges with a slot adapted to have a saw blade projecting therethrough, a work ripping guide comprising a pair of spaced parallel bars juxtaposed to said side edges in coplanar relation with the top, a guide member rigidly secured to said bars and having a guiding edge parallel to said slot, said guide bars being slidable on said side edges of said top whereby said guide member may be moved toward and away from said slot, and means for releasably clamping said guide bars against said side edges.

5. The device as defined in claim 4 wherein said clamping means comprise a cross strap extending across said table top and guide bars, a fixed shoe secured to one end of said cross strap and engaging one of said guide bars, a movable shoe mounted on the other end portion of the strap and engaging the other guide bar, and cam means on said strap in engagement with said movable shoe.

6. The device as defined in claim 4 together with coacting tongue and groove means provided at said side edges of said top and at said guide bars.

7. In a saw table, the combination of a table top having a pair of parallel side edges and provided at right angles to said edges with a slot adapted to have a saw blade projecting therethrough, a work ripping guide comprising a pair of spaced parallel bars juxtaposed to and slidable along said side edges in coplanar relation with the top, a guide member secured at its ends to said guide bars and disposed in a plane above said top whereby it may move over the top when said guide bars are slid along said side edges, said guide member having a guiding edge parallel to said slot, and means for releasably clamping said guide bars against said side edges.

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