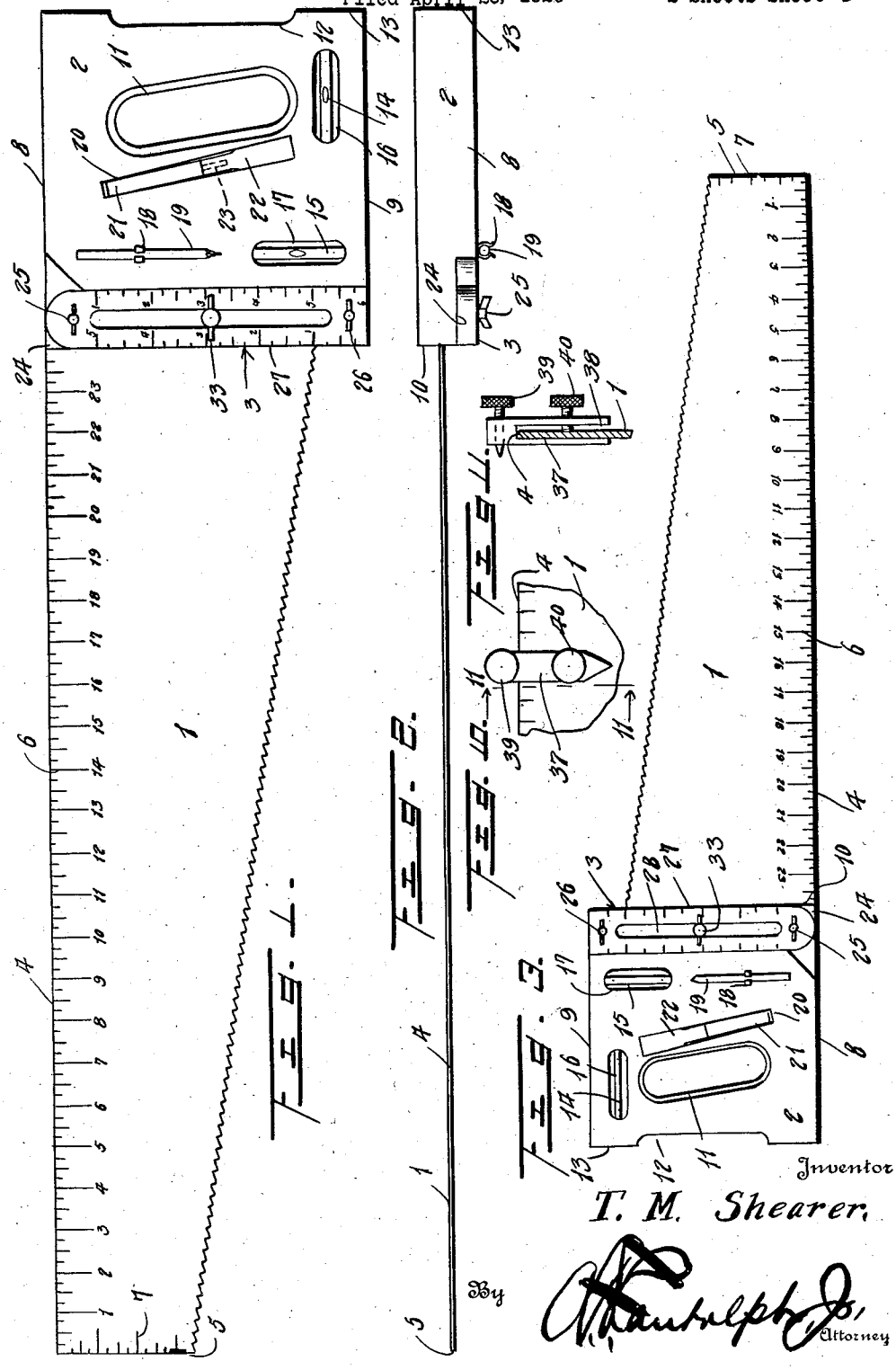
Sept. 6, 1927. 1,641,831

T. M. SHEARER

CARPENTER'S COMBINATION TOOL

Filed April 29, 1926 2 Sheets-Sheet 1



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FIG. 4.

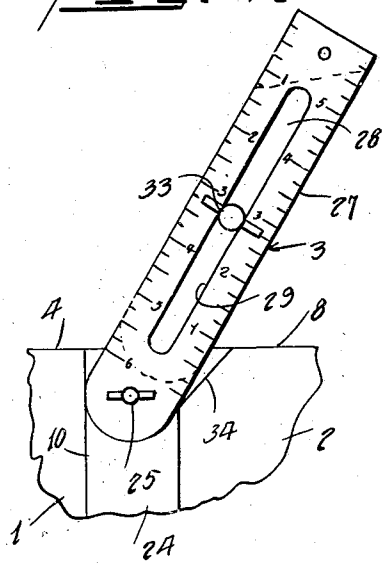
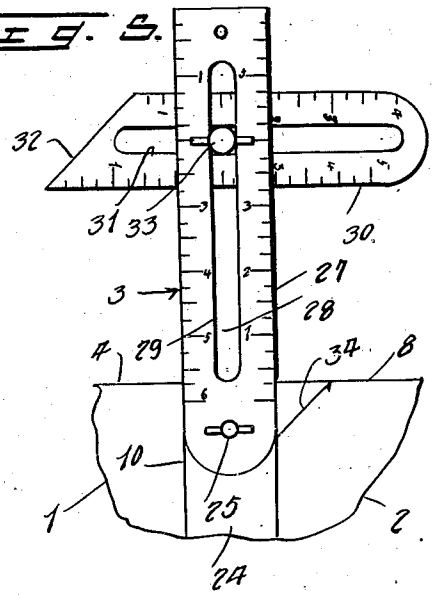


FIG. 5.



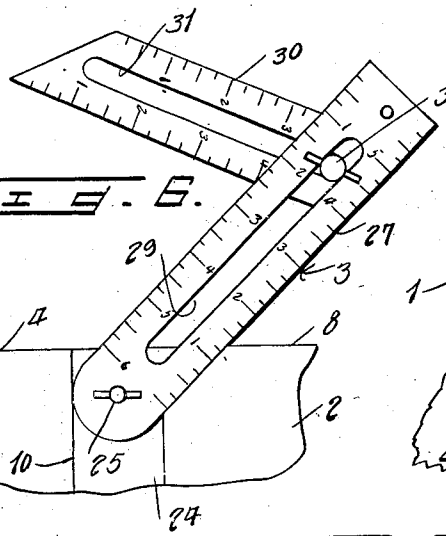


FIG. 6.

FIG. 7.

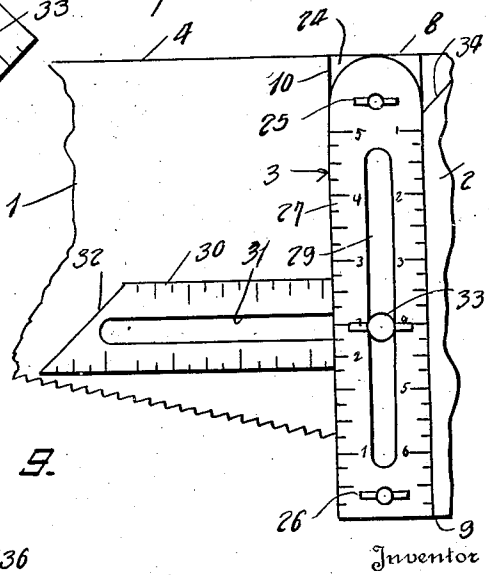


FIG. 8.

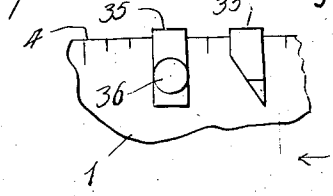
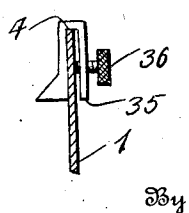


FIG. 9.



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UNITED STATES PATENT OFFICE.

THOMAS M. SHEARER, OF DE LAND, FLORIDA.

CARPENTER'S COMBINATION TOOL.

Application filed April 29, 1926. Serial No. 105,491.

This invention relates to combination tools of that type employed by carpenters; and has for one of its objects to improve and simplify the general construction of tools of this character and to provide one that may be conveniently used as a saw, rule, square, try-square, miter square, sliding T bevel square, plumb, level, depth gage, marker, scriber, screwdriver, wood chisel, and pencil holder.

With the above and other objects in view, the invention consists of the construction, combination, and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, wherein:

Fig. 1 is a view in side elevation of a combination tool constructed in accordance with my invention;

Fig. 2 is a top plan view of the combination tool;

Fig. 3 is a view in side elevation illustrating the manner in which the tool is adapted to be used as a level;

Fig. 4 is a view of a fragmentary portion of the tool illustrating the same adapted for use as a miter square;

Fig. 5 is a view in side elevation of a fragmentary portion of the tool illustrating the same adapted for use as a sliding T bevel square;

Fig. 6 is a view in side elevation of a fragmentary portion of the tool illustrating the same adapted for use as a double sliding T bevel square;

Fig. 7 is a view in side elevation of a fragmentary portion of the tool illustrating the same adapted for use as a depth gage;

Fig. 8 is a view in side elevation of a fragmentary portion of the saw blade illustrating the manner in which the tool may be equipped with markers;

Fig. 9 is a sectional view taken on the vertical plane indicated by the line 9—9 of Fig. 8;

Fig. 10 is a view similar to Fig. 8 illustrating the tool equipped with a scriber; and

Fig. 11 is a sectional view taken on the vertical plane indicated by the line 11—11 of Fig. 10.

Corresponding and like parts are referred to in the following description and designated in the several views of the accompanying drawings by similar reference numerals.

The combination tool comprises a saw blade 1, a handle 2, and a square 3.

The saw blade 1 is of the usual construction with the exception that its top or plain edge 4 and front edge 5 are graduated as shown at 6 and 7, respectively.

The handle 2 which may be made of wood, metal or other suitable material, is square and may be secured to the saw blade 1 in any suitable manner. The top side 8 of the handle 2 is in longitudinal alinement with the top edge 4 of the saw blade 1. The bottom side 9 of the handle 2 is located below the bottom or toothed edge of the saw blade 1. The front side 10 of the handle 2 is at right angles to the top edge 4 of the saw blade 1 to provide straight edges adapted to cooperate with said top edge to form a square. To permit it to be readily grasped, the handle 2 is provided with an opening 11 and a recess 12, the latter being located in the rear side 13 of the handle. A spirit level 14 adapting the tool for use as a level, and a spirit level 15 adapting the tool for use as a plumb, are arranged at right angles with relation to each other and are suitably fixed in openings 16 and 17, respectively, in the handle 2. The spirit level 14 is arranged parallel to the top side 8 and bottom side 9 of the handle 2, and the spirit level 15 is arranged parallel to the front side 10 and rear side 13 of the handle. The top edge 4 of the saw blade 1 and top side 8 of the handle 2 may be, as shown in Fig. 3, held in contact with the work when the tool is being employed as a level. If desired any of the other sides of the handle 2 may be held in contact with the work when the tool is being employed as a level. The top edge 4 of the saw blade 1 and the top side 8 of the handle 2 or any of the other sides of the handle may be held in contact with the work when the tool is being employed as a plumb. The handle 2 is provided at one of its lateral sides with a clip or other suitable holder 18 for a pencil 19, and in said side with a pocket 20 for the reception of a screwdriver 21 and a work chisel 22. The chisel 22 is provided with a socket 23 for the reception of the shank of the screwdriver 21, as shown by dotted lines in Fig. 1, whereby to permit these parts to be compactly assembled for storage in the comparatively short pocket 20.

The handle 2 is provided with a vertical

recess or rabbet 24 which opens out through the top, bottom, front, and one lateral side thereof. This recess is provided for the reception of the square 3 which is secured therein by a thumb-screw 25 and a thumb-set-screw 26 and which when not in use is located wholly within the recess 24 with its front side in alinement with the front side 10 of the handle 2. The square 3 comprises a graduated stock 27 having a pocket 28 and slot 29, and a graduated blade 30 having a slot 31 and a beveled end 32, said end being preferably arranged at an angle of 45°. One side of the stock 27 is solid and in the other side thereof the slot 29 is formed. When the square 3 is not in use, the blade 30 is located wholly within the pocket 28 and is secured therein by a thumb-screw 33 which has threaded engagement with the solid side of the stock 27 and passes through the slots 29 and 31.

The withdrawal of the set-screw 26 from engagement with the handle 2 and the loosening of the thumb-screw 25 permit the square 3 to be swung on the thumb-screw 25 as a pivot into different angular positions with respect to the top edge 4 of the saw blade 1 and the top side 8 of the handle. To permit the square 3 to be swung into and supported in a 45° position with respect to the top side 8 of the handle 2, when it is desired to use the tool as a miter square, the top edge of the rear wall of the recess 24 is beveled off at an angle of 45° as shown at 34. After the square 3 has been swung into this position, as clearly shown in Fig. 4, the thumb-screw 25 is tightened to hold it against casual movement. With the square 3 in this position, the top edge 4 of the saw blade 1 and the adjacent edge of the stock 27, or the top side 8 of the handle 2 and the adjacent edge of the stock 27, may be used in forming the miter.

By swinging the part 3 into and securing it in an upwardly extending right-angular position with respect to the top edge 4 of the saw blade 1 and the top side 8 of the handle 2, as clearly shown in Fig. 5, the tool will be adapted for use as a T bevel square. When the tool is to be used for this purpose the blade 30 is secured at right angles with respect to the stock 27 and with portions thereof projecting beyond opposite edges of the stock. By arranging and securing the stock 27 in an angular position of 45° with respect to the top side 8 of the handle 2, and by arranging and securing the blade 30 in an upwardly extending right-angular position with respect to the stock 27, as shown in Fig. 6, the tool will be adapted for use as a double sliding T bevel square. The tool can also be adapted for use as a depth gage and when it is to be used for this purpose the stock 27, if not already in such position, is swung into and secured in depending position within the recess 24 and the blade 30 is swung into and secured in a position at an angle with respect to the stock 27, as shown in Fig. 7.

The thumb-screw 25 is detachably connected to the handle 2, and due thereto the square 3 may be removed from the handle whenever it is desired to use it independently of the handle and saw blade 1.

As shown in Figs. 8 and 9 the tool may be provided with markers 35. These parts are of U-form to permit them to straddle the graduated top edge 4 of the saw blade 1 and are adjustably secured to the saw blade by set-screws 36. Any number of markers may be used, the number used depending solely on the nature of the work to be done, as for instance in laying out a 1⅞″ joist with 16″ centers two markers would be used. One of the markers would be placed at 14⅛″ and the other at 16″ from the front edge 5 of the saw blade 1, and after they have been secured in place by the set-screws 36 the first mark would be made at the end of sill. After this has been done the tool is grasped in the right hand and placed nearly flat on sill with front edge 5 of saw blade 1 in alinement with the mark. By imparting a small movement to the tool at right-hand both marks for the joist will be given.

As shown in Figs. 10 and 11 the tool may be provided with a scriber 37 which is provided with a slot 38 to permit it to be applied to the graduated top edge 4 of the saw blade 1. The scriber is provided with an adjustable marking screw 39 and a retaining screw 40, the latter removably securing the scriber to the saw blade 1.

From the foregoing description, taken in connection with the accompanying drawings, the advantages of the tool will be readily apparent to those skilled in the art to which it appertains. While I have described the manner in which the invention is adapted to be used, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the invention as claimed.

What is claimed is:

A combination tool comprising a saw blade, a handle secured to the saw blade and having its top side located in the plane of the top edge of the saw blade, said handle being provided with a vertical recess opening out through the top, bottom, front, and one lateral side thereof, the top edge of the rear wall of the recess being beveled off at an angle of 45°, a graduated stock pivoted at one end within the recess, and a graduated blade adjustably secured to the stock.

In testimony whereof I affix my signature.

THOMAS M. SHEARER.