

Feb. 17, 1953

H. C. McCONNELL

2,628,427

SQUARE SAW AND LEVEL

Filed Nov. 2, 1949

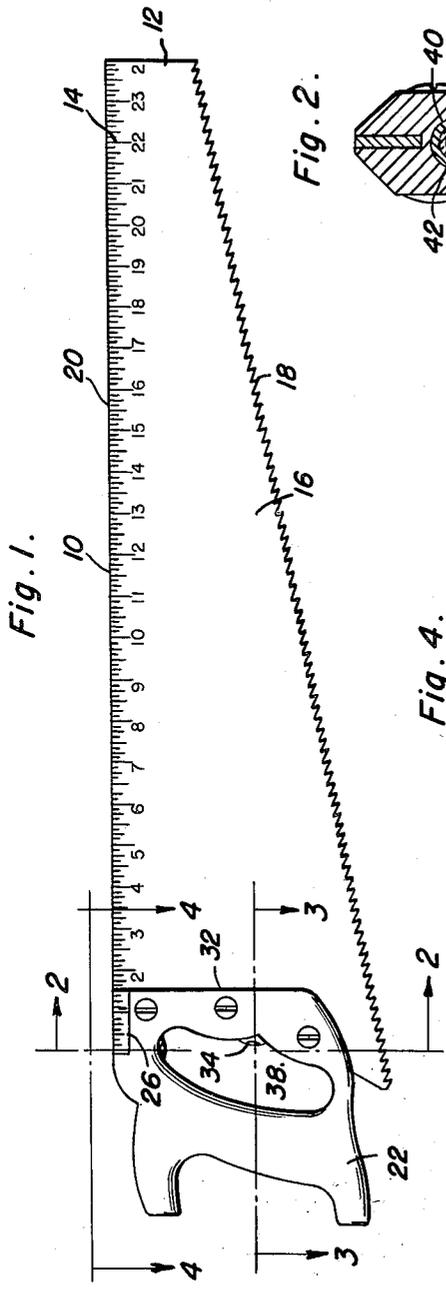


Fig. 2.

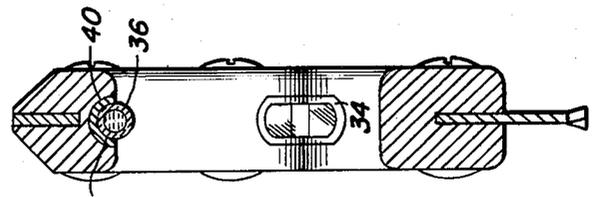


Fig. 4.

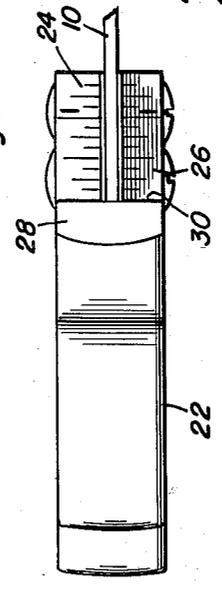


Fig. 3.

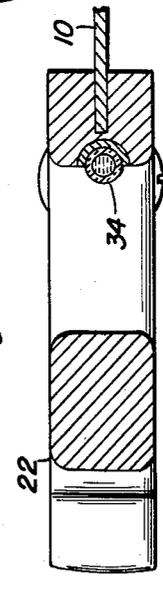
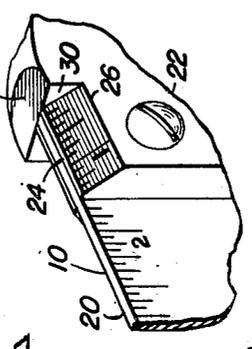


Fig. 5.



Harry C. McConnell  
INVENTOR.

BY *Alance A. Dion*  
*and Horay B. Jacobson*  
Attorneys

# UNITED STATES PATENT OFFICE

2,628,427

## SQUARE SAW AND LEVEL

Harry C. McConnell, Harpster, Idaho

Application November 2, 1949, Serial No. 124,988

1 Claim. (Cl. 33-75)

1

This invention comprises novel and useful improvements in combination tools, and more particularly comprises improvements in hand wood-working tools.

The primary object of this invention is to provide an improved combination tool which is compact and of simple construction, and which will more conveniently perform a multiplicity of functions, especially when the user is in a disadvantageous position such as on a ladder or the like.

A further object of this invention is to provide a means for extending a scale imprinted on the blade of a saw, permitting a longer scale on a standard saw.

A further object of this invention, in accordance with the foregoing objects, is to provide a means for supporting a saw on its smooth edge, permitting utilization of a level attached to the saw, parallel to the smooth edge.

A further object of this invention, in accordance with the foregoing object, is to provide a projection which will mark the beginning of the scale.

An important feature of this invention resides in the provision for a beveled top edge on the handle of a saw, thereby providing means for continuing a scale imprinted upon the blade of a saw.

Another feature of this invention resides in the provision for a transverse wall thereby providing a physically perceptible marker setting forth the beginning of the scale.

A further feature of this invention resides in the provision for a flat portion on the top edge of the handle of the saw for supporting the saw on its edge.

These, together with various ancillary objects and features of the invention which will become evident as the following description proceeds, are attained by this invention, a preferred embodiment of which is shown, by way of illustration only, in the accompanying drawing, wherein:

Figure 1 is a side elevational view of the device, showing the indicia on the blade and the continuation of the indicia, forming a scale, on the handle of the saw.

Figure 2 is a vertical sectional view through the handle of the saw, taken substantially on the plane 2-2 showing the positioning of the level in the handle of the saw.

Figure 3 is a horizontal sectional view of the handle taken substantially on the plane 3-3 of Figure 1, showing a sectional view of the level which lies perpendicular to the edge of the saw blade.

2

Figure 4 is a top view of the handle portion of the saw.

Figure 5 is a perspective sectional view of the handle and the saw blade, showing the means for continuing the scale along said handle, and further showing the physically perceptible means marking the beginning of the scale.

Referring now to the accompanying drawings wherein like numerals designate similar parts throughout, the improved combination tool is indicated generally by the numeral 10, the combination tool comprising a saw having a blade 12, the blade having multiple indicia 14 formed on a side 16, forming a scale. The blade 12 has a toothed edge 18 and a straight edge 20, the multiple indicia 14 lying on the side 16 adjacent said straight edge 20, the blade having a handle 22 attached thereto.

The handle 22, as more clearly shown in Figure 5 of the accompanying drawings, has a top edge, indicated generally by the number 24, the upper edge 24 having a bevelled portion 26 which merges with the edge of the blade 20, and a flat portion 28 which is coplanar with the edge of the blade 20, the flat portion forming a continuation of the top edge 24 of the handle 22. As can be seen from a consideration of the drawings, the bevelled portion 26, of the top edge of the handle 24, provides a means for continuing the scale imprinted upon the blade 16 in an easily readable position.

A transverse wall 30 is formed at the juncture of the flat portion 28 of the top edge of the handle and the bevelled portion 26 of the top edge of the handle. This transverse wall 30, as can be readily understood, can provide a point of beginning for the scale imprinted upon said bevelled edge. The handle 22 is also provided with a side edge 32, which edge is perpendicular to the edge of the blade 20, the edge 32 forming a leg of a T-square formed by the edge 32 and the blade edge 20, and also providing a levelling surface for the level 34 inserted in the handle 22, the level 34 lying parallel to the edge 32 and perpendicular to the edge 20. A second level 36, lying parallel to the edge of the blade 20, is inserted in the handle of the saw 22, preferably so that the exposed part of the level lies in finger aperture 38 of the handle 32 and is thereby protected by the handle. The levels 34 and 36 may be mounted in the handle 32 in any desired manner, but preferably in a recess 40 such as is shown in the drawings, and retained in the recess by any cementitious material 42.

From the foregoing, it is believed that the operation and construction of this device will be

3

readily understood and further discussion is believed to be unnecessary.

Since, obviously, various equivalent arrangements may be resorted to within the spirit of my invention, I do not desire to limit myself to the exact construction shown and described, but may avail myself of any modifications falling within the scope of the appended claim.

Having described the invention, what is claimed as new is:

For use with a saw having a blade, said blade being provided with a longitudinal straight edge and having graduations cooperating with said straight edge and defining the major portion of a scale; a handle constituting a complement for said scale, said handle having first and second marginal edge portions at right angles to each other, said first marginal edge portion being bifurcated and providing furcations adapted to straddle an end of said blade, said second marginal edge being chamfered to provide bevels con-

4

verging toward each other, said bevels being provided with graduations adapted to cooperate with said graduations on said blade, said second marginal edge portion being provided with shoulders at right angles to the last-recited edge portion, said shoulders being disposed adjacent the inner ends of said bevels, said shoulders thus constituting zero points for the graduations on said bevels.

HARRY C. McCONNELL.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,284,591	Carlfield	Nov. 12, 1918
1,305,587	Caldwell	June 3, 1919
1,622,466	Patterson	Mar. 29, 1927
1,665,504	Midgley	Apr. 10, 1928

5

10

15

20