(No Model.)

J. E. TYLER.

HAND SAW.

No. 262,859. Patented Aug. 15, 1882.

Fig. 1

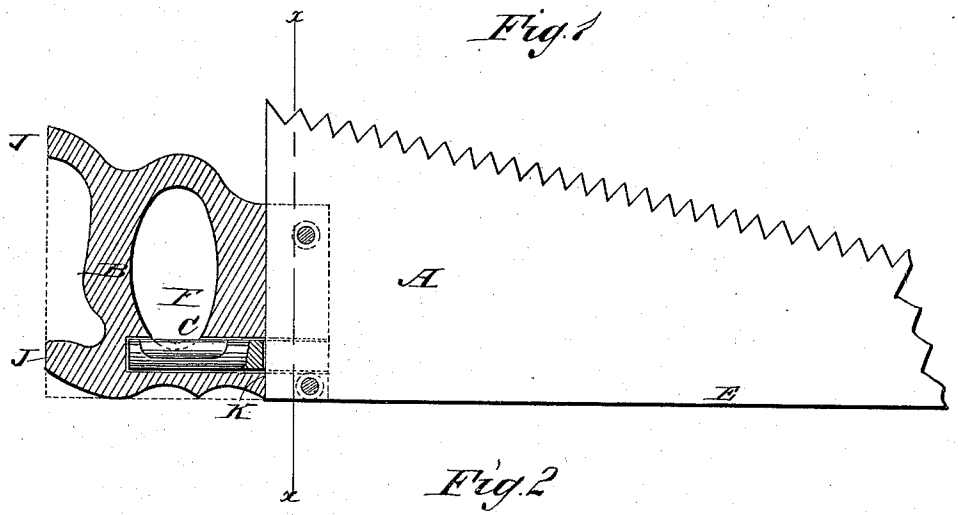


Fig. 2

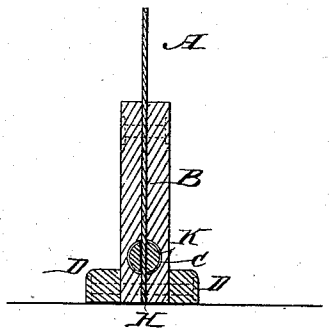
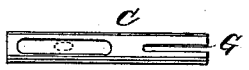


Fig. 3.



WITNESSES:

Francis McArdle

C. Sedgwick

INVENTOR:

J. E. Tyler

BY Munn & Co

ATTORNEYS.

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

JOHN E. TYLER, OF ROXOBEL, NORTH CAROLINA.

HAND-SAW.

SPECIFICATION forming part of Letters Patent No. 262,859, dated August 15, 1882.

Application filed April 25, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN EDWARD TYLER, of Roxobel, in the county of Bertie and State of North Carolina, have invented a certain new and Improved Combined Hand-Saw and Spirit-Level, of which the following is a full, clear, and exact description.

This invention relates to that class of tools comprising a hand-saw and spirit-level in one implement; and it consists in the combination and arrangement of parts, substantially as hereinafter more fully set forth.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal sectional elevation of the saw-handle and side elevation of the saw-blade and the spirit-level. Fig. 2 is a transverse section on line *x x* of Fig. 1, and Fig. 3 is a top view of the spirit-level detached from the saw.

A represents the blade of the saw; B, the handle; C, the spirit-level, and D lateral extensions to the handle, which I apply for holding the saw-handle upright when the tool is used as a level.

In carrying out my invention I bore a hole, K, in the handle from the end to which the saw-blade is attached parallel to the back E of the saw, and in such relation to the hand-hole F of the handle that said bored hole cuts through the wood at one side, so that the level C will be seen from within said hand-hole when the saw lies on its back edge E. Then I make a notch or slit, G, on the end of the spirit-level tube, or some attachment or extension of the same suitable for the saw-plate to enter when fitted in the slit H of the handle, with which the slit G of the level must coincide, when the level is inserted in its place in the handle for the saw to enter said slit and prevent the level from turning in the handle. The handle being suitably prepared, the level fitted in, and the saw attached to the handle, I then adjust the horns J to the back E, previously made perfectly straight, so that said horns J shall be exactly perpendicular to the back, whereby the tool can be used for the plumb-line as well.

The saw forms the stock of the level, thus dispensing with the cumbrous and most expensive part of the level. The connection of the two together economizes room in the workman's chest, it insures the presence of one tool with the other, and when it is desired to use the level immediately after the saw or the saw after the level no time will be lost in putting one away and taking the other.

The saw is equally as useful for its purposes and the level the same for its uses as when the two are not combined.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The spirit-level C, fitted in a hole bored in handle B, from the end to which the blade is attached, and having a slit, G, coincident with the slit H of the handle for the saw-blade, and having said blade entered therein, substantially as described.

JOHN E. TYLER.

Witnesses:
B. F. GUNN,
SOL. CHENY, Jr.