

UNITED STATES PATENT OFFICE.

WILLIAM C. GILMER, OF STOCKTON, CALIFORNIA, ASSIGNOR OF ONE-HALF
TO LINCOLN MANNING, OF SAME PLACE.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 492,532, dated February 28, 1893.

Application filed June 7, 1892. Serial No. 435,857. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. GILMER, a citizen of the United States, residing at Stockton, in the county of San Joaquin and State of California, have invented certain new and useful Improvements in Combination-Tools; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to certain improvements in implements used by artificers for laying off lines to which work is to be sawed or cut; and the novelty consists in the construction, arrangement and adaptation of devices as will be hereinafter more fully set forth and claimed.

In the accompanying drawings Figure 1 is a plan view of my implement or improved tool. Fig. 2 is an end view of the same. Fig. 3 is a side view of the flanged gage bar removed from the square. Fig. 4 is a view of the same as seen looking down on Fig. 1 with the square removed showing gage lines to which the square is set.

Similar letters in the different views indicate corresponding parts.

The gage bar consists of the body A and the lateral flanges A' designed for a purpose presently described. The body A is provided with a slot A² and the face or outer side of the flanges A' with a long slot A³ and a short slot A⁴. The square B is provided with a slot B² in its short or tongue section and a slot B' in its long section. The short section of the square B is inserted in the slot A⁴ of the flange A' and the long section in the slot A³. A set screw C is inserted through the slots B' and A² and connects the square B and the gage bar adjustably together. The short section of the square is attached to the body A, of the gage bar by a set screw C'.

In some cases when the gage bar is removed from the square, as shown in Fig. 3, a spirit level as D, may be connected to said gage bar by a set screw C², and the gage bar may be employed as a level.

When my improved implement or tool is used as a rafter or brace cutter the figures stamped on the square indicate the length of all rafters and the figures stamped on the face or outer side of the flanges of the gage bar indicate the bevel or cuts of rafters. The square is set to the desired cut marked on the gage bar and is secured in position by the set screw, thus giving the top and bottom bevels of rafters or braces for one-fourth, one-third, one-half, and two-thirds pitch roofs. When the bevels of hip rafters or jacks is required the square is set to the desired marks as shown on the face or outer side of the flanges of the gage bar, also when the bevel and down cuts are required for planceer or purline butting against hip rafters or sheeting boards on hips or valleys; also the cuts for moldings or a raking cornice with a perpendicular fascia.

When the implement or tool is used in making a bevel, the square is first adjusted with respect to the gage bar as above described, and the wider flange A', of the gage bar is set against the edge of the rafter to be cut, so that the square will rest upon the side of the rafter, when a line may be drawn along the outer edge of the long section of the square to indicate where the rafter is to be cut.

By the provision of the flanges upon the gage bar it will be seen that my implement may be readily squared upon the piece of timber to be cut; and it will be further perceived that the said flanges will serve to prevent movement of the implement when the same is placed upon the rafter as before described.

By means of the two slots when used as a stair fence in laying out stairs, any rise and footing may be obtained that is desired, the set screw C' in such use being inserted in the slot B².

Having thus described my invention, what I claim is—

In an implement or tool for the purpose described, the combination of the graduated square B, having the slots B', and B², in its branches, the gage bar A, comprising the body having the slot A², and the flanges A' graduated upon their outer side and extending laterally from one edge of the body and having the slots A³, and A⁴, designed to receive the

branches of the square, the set screw C', pivotally connecting the gage bar to one branch of the square and the set screw C, taking through the slot B', of the square and the slot
5 A², of the gage bar and adapted to adjustably fix the square and gage bar with respect to each other, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM C. GILMER.

Witnesses:

JOSHUA B. WEBSTER,
JAMES T. SUMMERVILLE.