No. 652,814. Patented July 3, 1900.

M. SETZER.

COMBINATION SQUARE AND BEVEL.

(Application filed July 2, 1898.)

(No Model.)

Fig. 1.

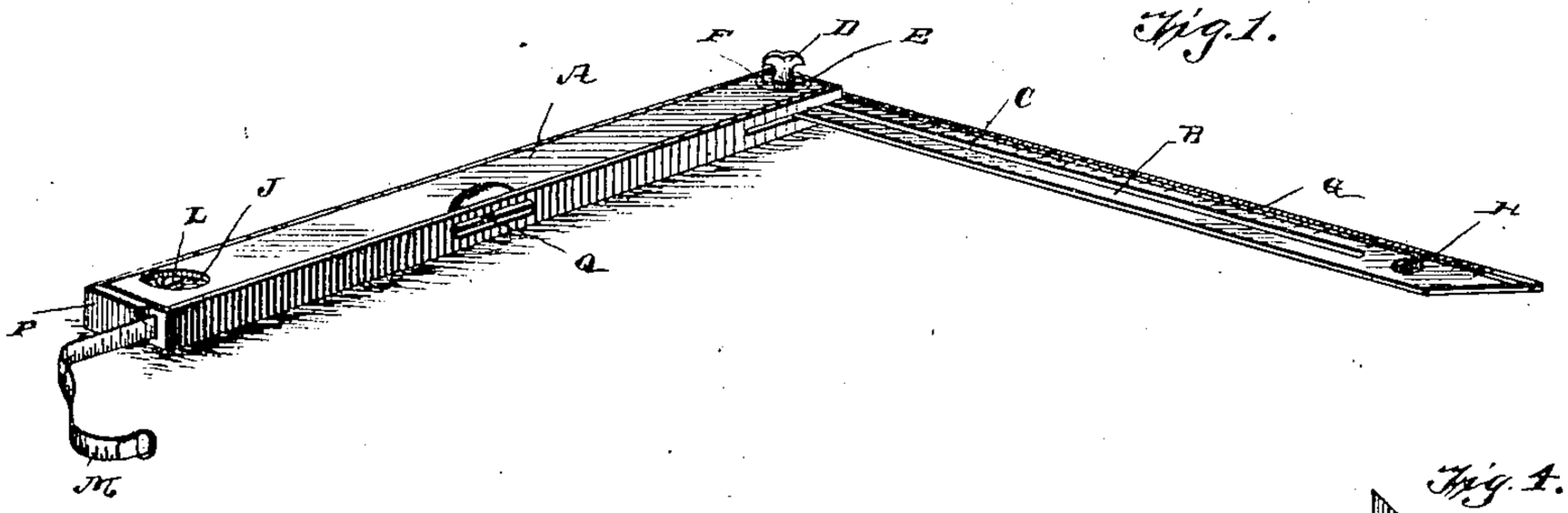


Fig. 2.

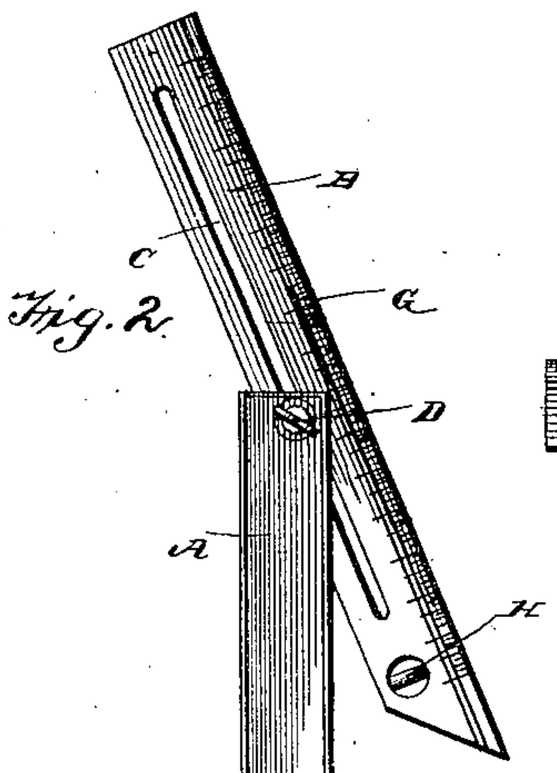


Fig. 3

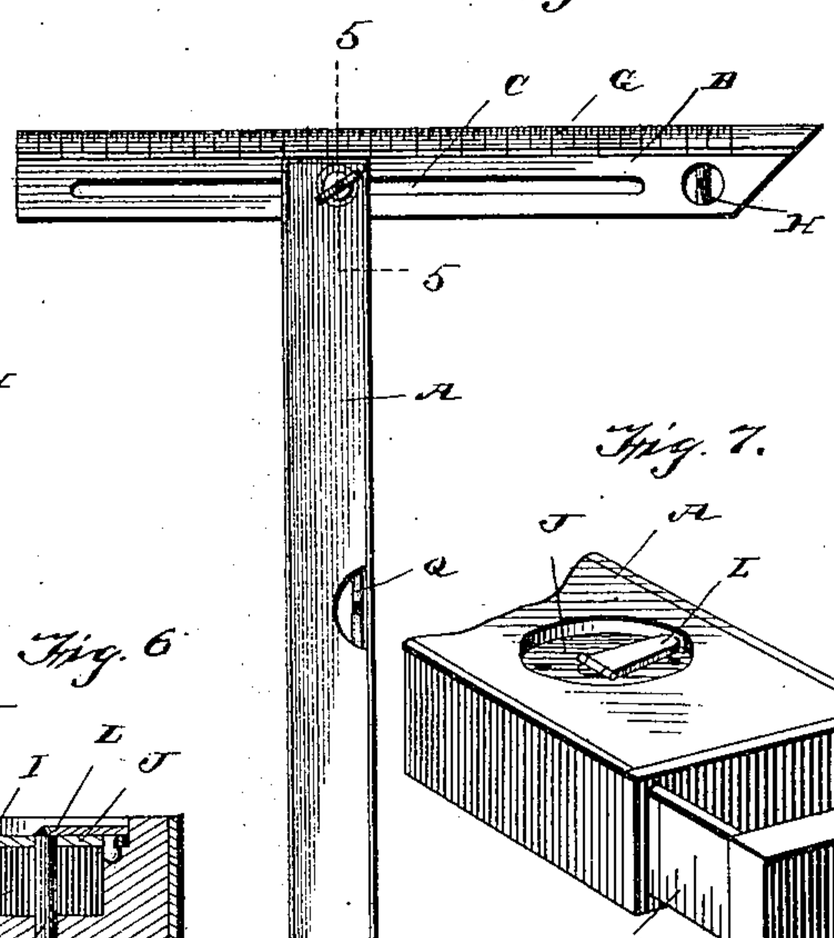


Fig. 4.

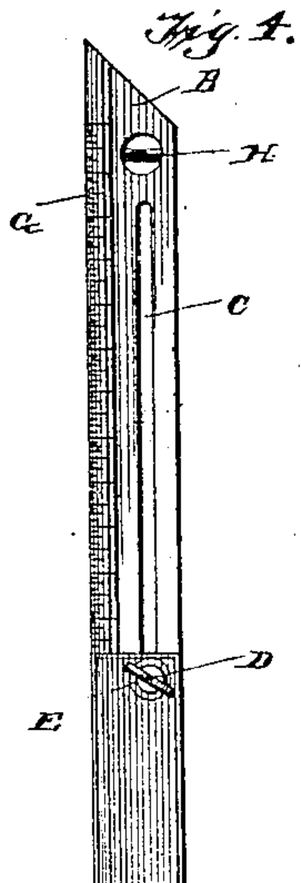
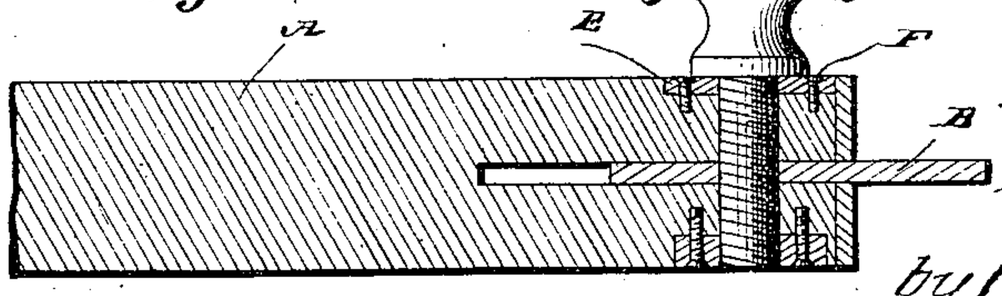


Fig. 6

Fig. 7.

Fig. 5.



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UNITED STATES PATENT OFFICE.

MICHAEL SETZER, OF HELENA, MONTANA.

COMBINATION SQUARE AND BEVEL.

SPECIFICATION forming part of Letters Patent No. 652,814, dated July 3, 1900.

Application filed July 2, 1898. Serial No. 685,052. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL SETZER, residing at Helena, in the county of Lewis and Clarke, in the State of Montana, have invented a new and useful Combination-Square, of which the following is a specification.

This invention relates to improvements in combination-squares; and the object thereof is to provide a square and bevel of simple and improved construction having combined therewith a rule, level, tape-measure, and a gage, all of which being arranged for ready and convenient use, thus constituting an exceedingly handy and useful tool.

With the above object in view the invention consists of a stock having an adjustable blade for beveling and graduated to constitute a rule, levels carried by said blade and stock, and a gage and tape-measure arranged on the stock.

This invention also consists in the novel details of construction hereinafter fully set forth in the specification, particularly referred to in the claim, and clearly illustrated by the accompanying drawings, in which—

Figure 1 is a perspective view of my invention. Fig. 2 is a side elevation. Fig. 3 is a similar view showing a different adjustment of the blade. Fig. 4 is also a similar view showing the blade in line with the stock. Fig. 5 is a sectional view on the line 5 5 of Fig. 3. Fig. 6 is a transverse section on the line 6 6 of Fig. 2. Fig. 7 is a perspective view of a portion of the stock, illustrating the gage carried thereby.

Referring now more particularly to the accompanying drawings, A designates the stock, slotted at one end to receive the adjustable blade B, which is provided with a longitudinal slot C, through which the thumb-screw D passes, so that it may be secured in the desired angle with relation to the stock. Said thumb-screw passes through threaded openings in plates E, secured in recesses formed in opposite faces of the stock by the screws F. Blade B is graduated on one of its edges to constitute a rule G and is provided with a level H. The stock is formed at its opposite end with a circular recess and a shoulder I, on which is secured a plate J. This plate carries a shaft K, the inner end of which has its bearing in the bottom wall of the circular recess when said plate is in position, the opposite end of the same projecting beyond the plate and carrying the arm L, by means of which it may be rotated. A tape-measure M is adapted to be wound upon this shaft, the end of the same passing through a slot arranged tangentially to the recess in the end of the stock, so that it may be drawn outwardly when desired for use. The stock is provided in its edge with a dovetailed groove N to receive the dovetail arm O, which slides therein. The outer end of said arm carries an arm P, which extends transversely part way across the end of the stock, so as not to interfere with the end of the tape-measure which projects from the stock near the edge opposite the dovetailed groove N. Arm O is graduated, so that it may be moved outwardly the desired distance, the same constituting a gage. The stock is also provided in one of its edges with a level Q.

From the above description it will be seen that I have provided a very convenient combination-square in which the various articles are arranged for convenient use, the tool being neat in appearance, effective in operation, and simple in construction.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

In a combination-tool, a stock, one end of which is perforated transversely and slotted longitudinally and the opposite end is provided with a shouldered recess and a slot leading tangentially therefrom to the end of the stock near one edge and the opposite edge is provided with a dovetailed recess, and the intermediate portion of the stock is recessed upon one edge, a slotted graduated blade in the slot of the stock, one end of which is perforated and provided with a level, a clamping-screw through the perforation in the stock and through the slot in the blade, a level in the recess in the intermediate portion of the stock, a tape-measure in the shouldered recess provided with a handle and having its end extending through the tangential recess, and a graduated gage in the dovetailed recess, the outer end of which carries an arm which extends part way across the end of the stock, substantially as described.

MICHAEL SETZER.

Witnesses:
JOHN H. SHOBER,
CARL RASCH.