

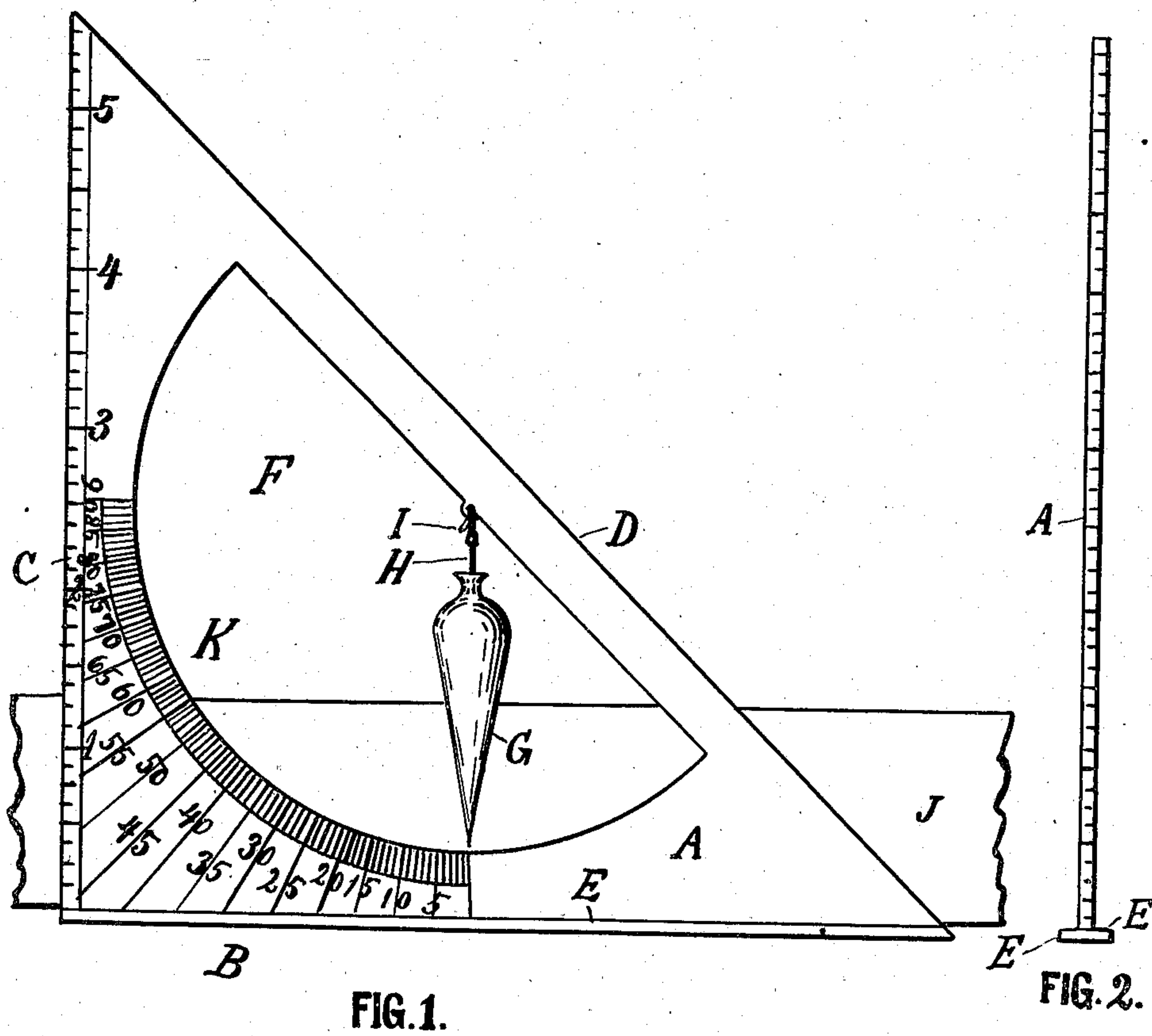
No. 885,076.

PATENTED APR. 21, 1908.

A. OLSON.

COMBINATION TOOL.

APPLICATION FILED DEC. 17, 1906.



WITNESSES.

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AXEL OLSON, OF STOCKETT, MONTANA.

COMBINATION-TOOL.

No. 885,076.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed December 17, 1906. Serial No. 348,330.

To all whom it may concern:

Be it known that I, AXEL OLSON, a citizen of the United States, residing at Stockett, in the county of Cascade and State of Montana, 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 and figures of reference marked thereon, which form a part of this specification.

My inventions relates to improvements in carpenter tools; and the object is to provide a combined plumb level, square and rule in one handy cheap and efficient tool. This and other objects I attain by the novel construction and arrangement of parts illustrated in the accompanying drawing, in which,—

Figure 1 is a side elevation of the tool shown as applied upon a piece of lumber for either leveling it up or marking it to be cut at various angles. Fig. 2 is a left hand edge view of Fig. 1.

Referring to the drawing by letters of reference. A is a metal plate with three straight edges B, C, and D, of which B and C form a right angle or ninety degrees while the edge D form angles of 45 degrees where it unites with the edges B and C. The edge B is provided with side ledges or flanges E and the edge C is marked at both sides and at the very edge with inches and fractions of inches increasing from flanges E.

In the plate is cut out a semicircular aperture F, upon the curved edge of which is marked a scale of the degrees of one fourth of a circle in such a position that the 45th degree comes in a radial line drawn from the center of the half circle to the rectangular corner of the plate. And from the middle of the straight edge in the aperture is suspended in the center of the half-circle a plumb bob

G, whose point moves close to the scale of degrees. Said plumb bob is suspended by a short cord or string H and a hook I, the cord serving to insure full freedom of the bob to hang in a perfectly plumb position, in contradistinction to the much used pivots whose friction hinders free hanging of the bob in similar tools; and the hook being to make the bob detachable so that it may be easily removed when not needed for some time.

In using the tool the scale of inches is used the same as on any ordinary square, and so are the flanges E, which being pressed against the edge of a piece of lumber as indicated at J, hold the plate in such position that the edge C will serve as a common square and the edge D as a miter square in marking where to cut the lumber. The tool may also be tilted so many degrees and thus enable one to mark for cutting any desired angle or slanting line. The bob will also enable the workman to put the timber worked on in any desired position from vertical to horizontal.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent, is:—

A tool of the class described, comprising a metal plate having three corners and three straight edges forming one rectangle and two miter angles, said plate having a semicircular aperture with the middle of the half circle toward the rectangular corner of the plate, and a scale of ninety degrees of a circle marked along the curved edge of the aperture, the middle numeral of the scale indicating 45 degrees being toward the rectangular corner of the plate; a plumb bob suspended from the center of the semicircular space and pointing to the degrees on the scale.

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

AXEL OLSON.

Witnesses:

WM. JUSTICE,
HARRY MALONEY.