(No Model.)

C. W. CHENEY & F. A. HASKINS.

PITCH BOARD.

No. 440,344. Patented Nov. 11, 1890.

Fig. 1.

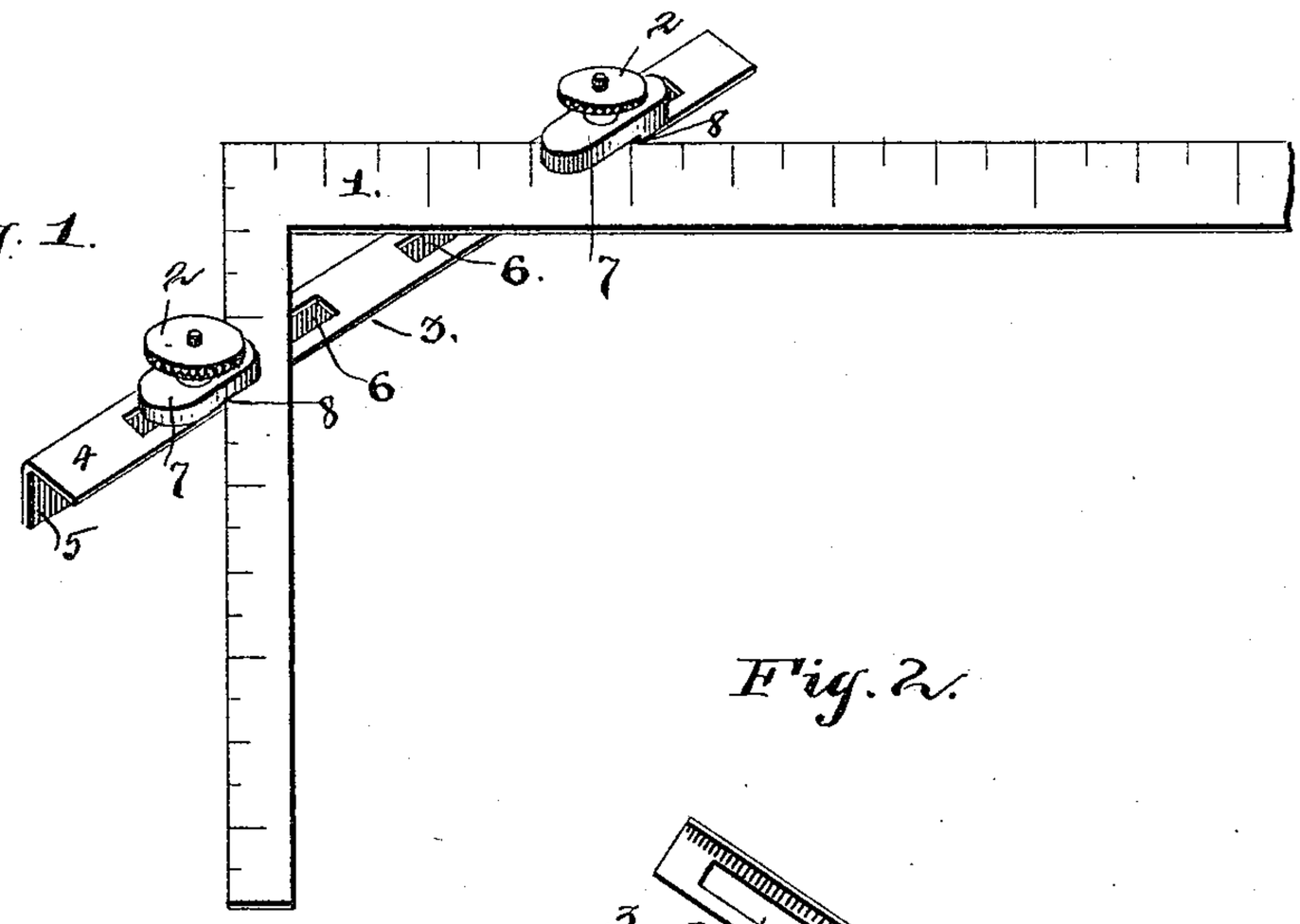

Fig. 2.

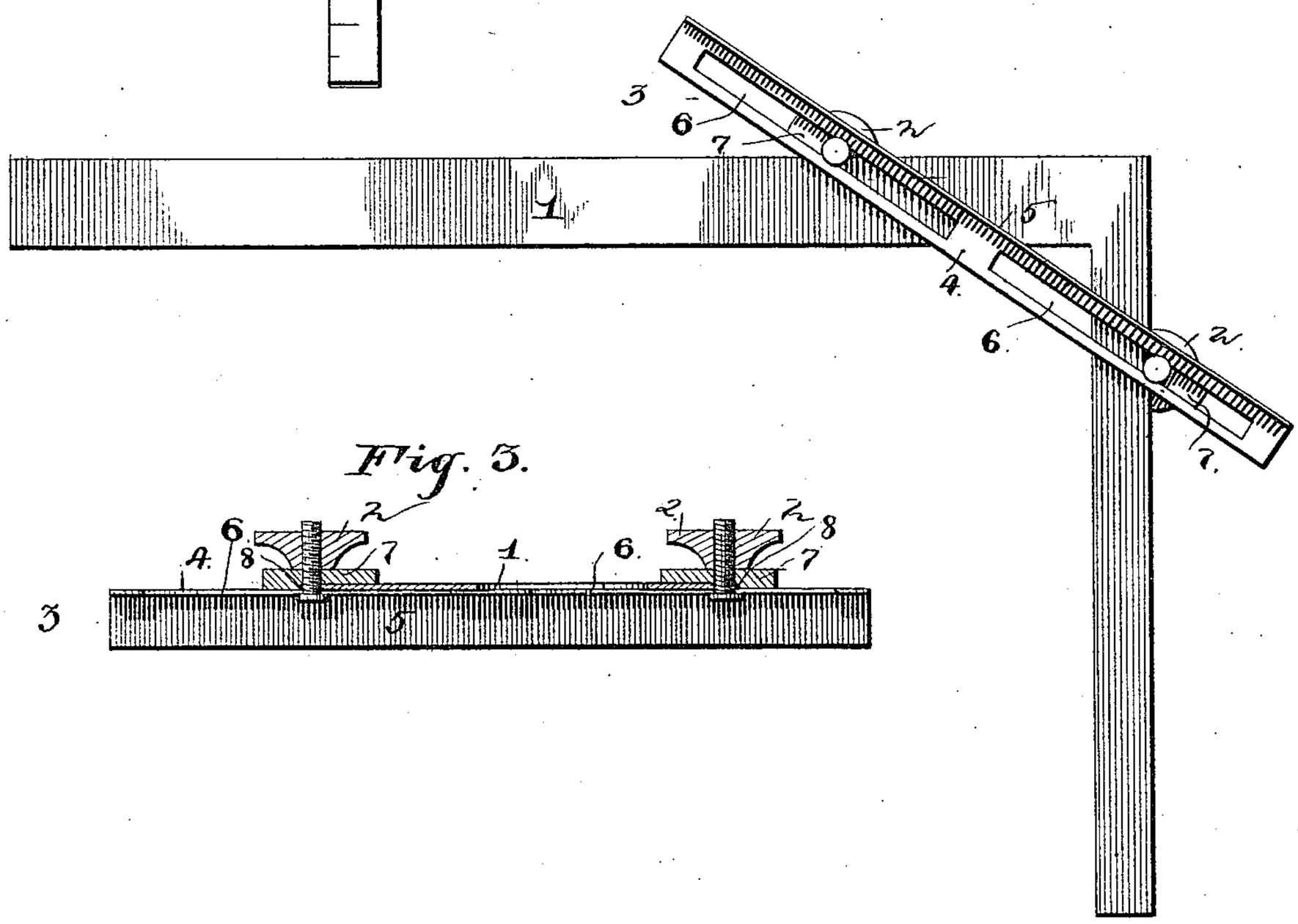

Fig. 3.

Witnesses
Horace C. Sertz.
F. J. Riley

Inventors
Charles W. Cheney
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By their Attorneys.
C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

CHARLES WARREN CHENEY AND FRED. A. HASKINS, OF ATHOL, MASSACHUSETTS.

PITCH-BOARD.

SPECIFICATION forming part of Letters Patent No. 440,344, dated November 11, 1890.

Application filed June 12, 1890. Serial No. 355,188. (No model.)

To all whom it may concern:

Be it known that we, CHARLES WARREN CHENEY and FRED. A. HASKINS, citizens of the United States, residing at Athol, in the county of Worcester and State of Massachusetts, have invented a new and useful Carpenter's Gage, of which the following is a specification.

The invention relates to improvements in carpenters' gages.

The object of the present invention is to provide a simple and inexpensive gage or framing-square adapted to be readily adjusted for laying out stairs and cutting the angles of rafters and the like.

The invention consists in the construction and novel combination and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a perspective view of a gage constructed in accordance with this invention. Fig. 2 is a reverse plan view. Fig. 3 is a sectional view illustrating the manner of securing the square to the bar.

Referring to the accompanying drawings, 1 designates a square of ordinary construction and having adjustably secured to it by set-screws 2 a bar 3, which is designed to be arranged at any angle to the square to enable stairs to be laid out and the tread and risers to be marked. The bar 3 is angular and composed of a horizontal flange 4 and a vertical flange 5, and the latter when the parts are in operative position is arranged at right angles to the lower face of the square, and is adapted to engage the edge of the board to be marked to prevent the square slipping while marking or laying out a board. The angle-bar 3 is provided with longitudinal slots 6, extending from each end of the bar to within a short distance of the middle and each other, and the set-screws 2 are adapted to slide in the grooves and engage the arms of the square. The set-screws are provided with plates 7, that have their outer ends recessed upon their inner faces at 8 to receive the square and enable the same to be securely clamped to the angle-bar; and it will readily be seen that the square can be quickly and securely adjusted to the angle-bar and the gage formed by the angle-bar, and the square is adapted to lay off stairs at any angle, cut rafters, and the like, and the instrument can be rapidly moved along the board without liability of slipping or becoming out of adjustment, as the vertical flange of the angle-bar slides along the edge of the board and holds the instrument in proper position relative to the latter.

From the foregoing description and the accompanying drawings the construction, operation, and advantages of our invention will readily be seen.

What we claim is—

A gage comprising the square, the angle-bar having the vertical flange arranged to engage the edge of a board, the horizontal flange provided with the longitudinal slots 6, arranged at opposite ends of the bar, and the set-screws adjustable in the slots and provided with the recessed plates 7, forming lips arranged to receive and engage the arms of the square, the stems of the screws being arranged in the slots of the bar and provided with heads and securing the recessed plates to the bar, substantially as described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

CHARLES WARREN CHENEY.
FRED. A. HASKINS.

Witnesses:
W. S. SWAN,
ANDREW J. HAMILTON.