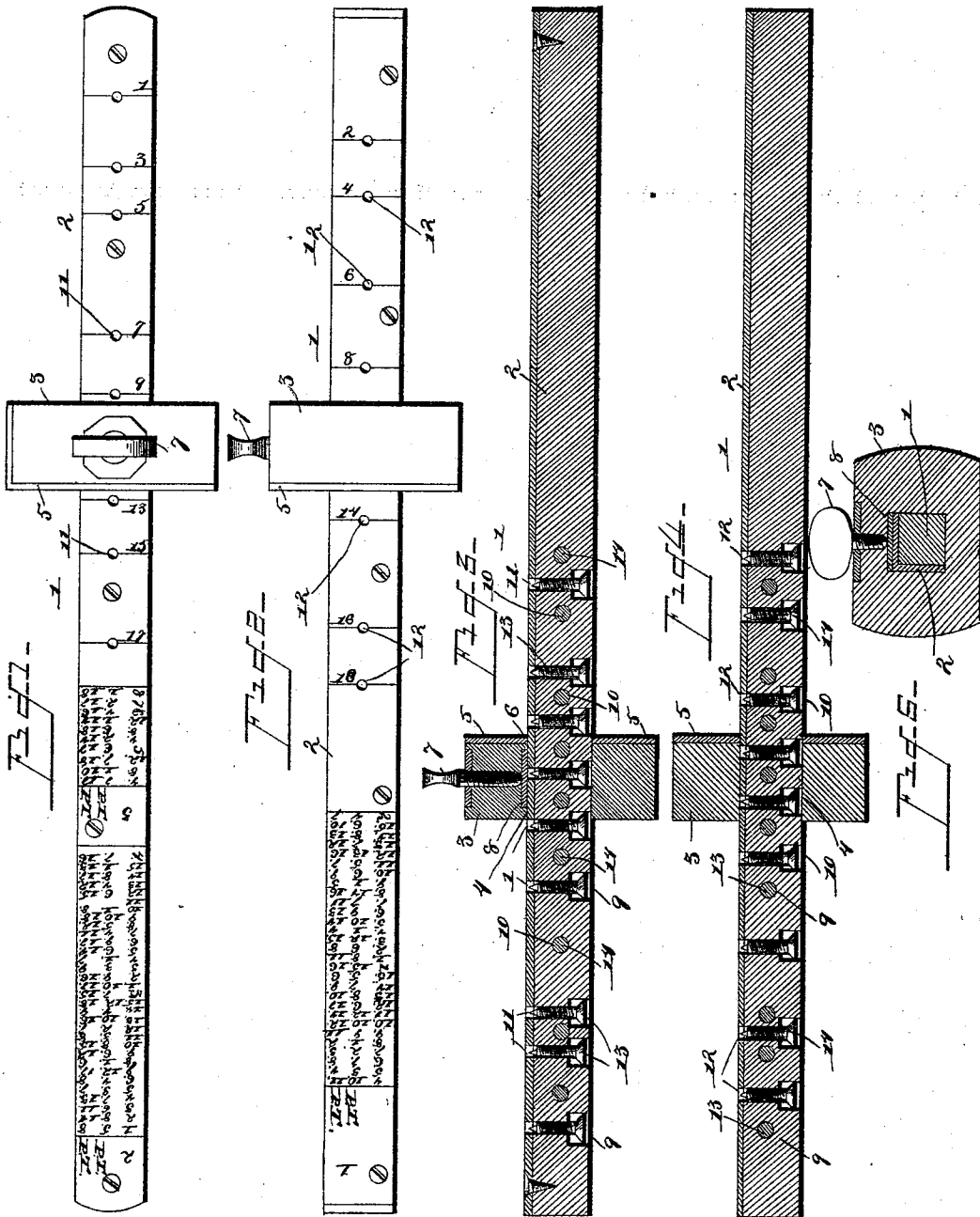


(No Model.)

W. P. ORR.
CARPENTER'S GAGE.

No. 436,101.

Patented Sept. 9, 1890.



Witnesses

Geo. C. French

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WALKER P. ORR, OF BRADSHAW, TENNESSEE, ASSIGNOR OF ONE-HALF TO
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CARPENTER'S GAGE.

SPECIFICATION forming part of Letters Patent No. 436,101, dated September 9, 1890.

Application filed December 23, 1889. Serial No. 335,296. (No model.)

To all whom it may concern:

Be it known that I, WALKER P. ORR, a citizen of the United States, residing at Bradshaw, in the county of Giles and State of Tennessee, 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 produce a carpenter's gage of simple and inexpensive construction adapted for the measurements of mortises and tenons and having its adjustable points, which when once adjusted are not liable to be varied by accident or carelessness in their adjustment and deceive the workman.

A further object of the invention is to arrange the adjustable points so that they will be out of the way when not in use to allow the head-block to slide freely.

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

In the drawings, Figures 1 and 2 are elevations of a gage constructed in accordance with the invention. Fig. 3 is a central longitudinal sectional view. Fig. 4 is a similar view taken at right angles to Fig. 3. Fig. 5 is a transverse sectional view through the head.

Referring to the accompanying drawings, 1 designates a beam of a gage provided upon two of its contiguous sides with a metal covering 2, which is designed to bear suitable tables for measuring mortises and tenons and the like, and as these are well understood in the art, and as there is no novelty claimed therein, further description is deemed unnecessary.

The beam has sliding upon it a head-block 3, which is provided with a central opening 4, and has one of its faces provided with a metal plate 5, that has a central opening 6, that registers with the opening 4 of the head-block 3, and the head-block is retained at any desired position by a thumb-screw 7, whose

inner end engages a plate 8, that binds against the beam.

The beam 1 is provided at intervals with transverse openings 9 and another series of openings 10, which are arranged at right angles to the openings 9, and the metallic covering 2 is provided with perforations 11 and 12, registering, respectively, with the openings 9 and 10. The openings 9 and 10 are interiorly threaded, and are adapted to receive screws 13 and 14, whose ends are pointed and are adapted to project through the perforations 11 and 12 of the metal covering 2 to mark desirable measurements. The openings 9 and 10 are countersunk at the sides of the beam 1 opposite to the metal covering 2, and the countersunk portions receive the heads of the screws. The screws are shorter than the width and thickness of the beam, and when not in use lie within the openings, thereby leaving a smooth surface for the passage of the head-block.

The screws are arranged at intervals that vary in length in order to obtain any desired distances between the points of the screws, and the beam is designed to bear a table stating the distances between the various screws, so that the gage can be set for any desired distance without measuring, as is well understood.

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

Having thus described my invention, what I claim is—

1. The combination of the gage-beam provided with a series of transverse threaded openings, and the screws arranged within the openings and adapted to project therefrom and lie when not in use entirely within the opening, substantially as and for the purpose described.

2. The combination of the gage-beam provided with a series of transverse threaded openings, the metal covering 2, having perforations registering with the threaded openings, and the screws arranged within the openings and provided with points adapted to pro-

ject through the perforations of the metal covering, substantially as described.

3. The combination of the scale-beam provided with a series of transverse threaded openings 9, and having a series of transverse threaded openings 10 arranged at right angles to the openings 9, the metal covering provided with perforations registering with the threaded openings of the beam, and the screws arranged within the threaded openings and adapted to project through the per-

forations and capable of lying, when not in use, entirely within the threaded openings, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WALKER P. ORR.

Witnesses:

R. J. CURTIS,

W. B. ORR.