

No. 663,168.

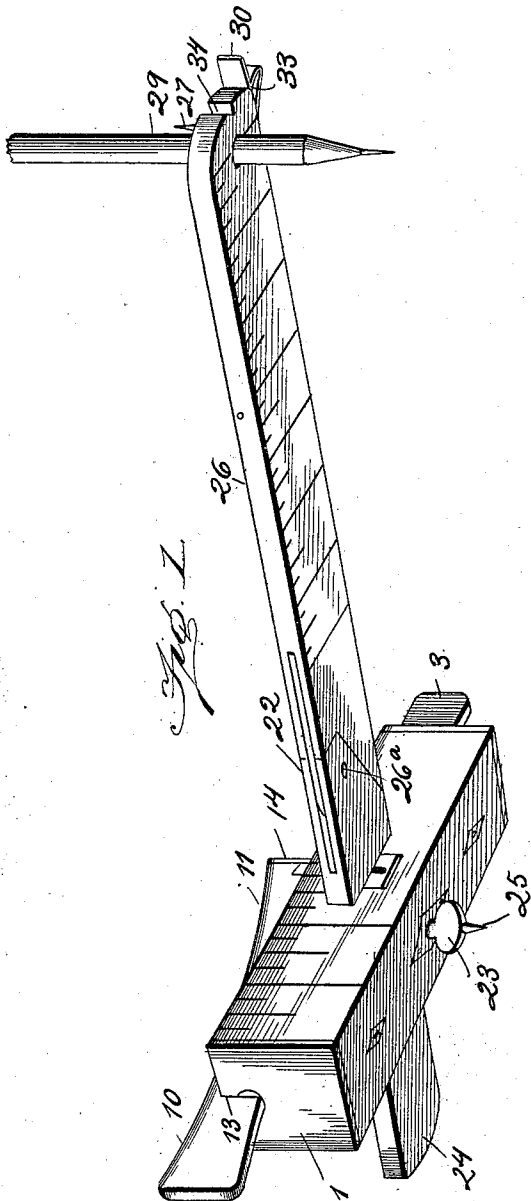
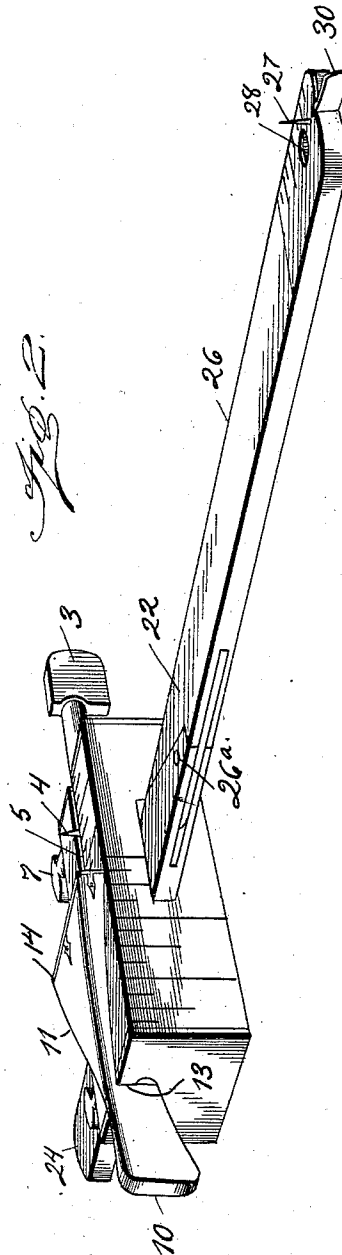
Patented Dec. 4, 1900.

E. M. HEMBREE.
CARPENTER'S TOOL.

(Application filed May 31, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses

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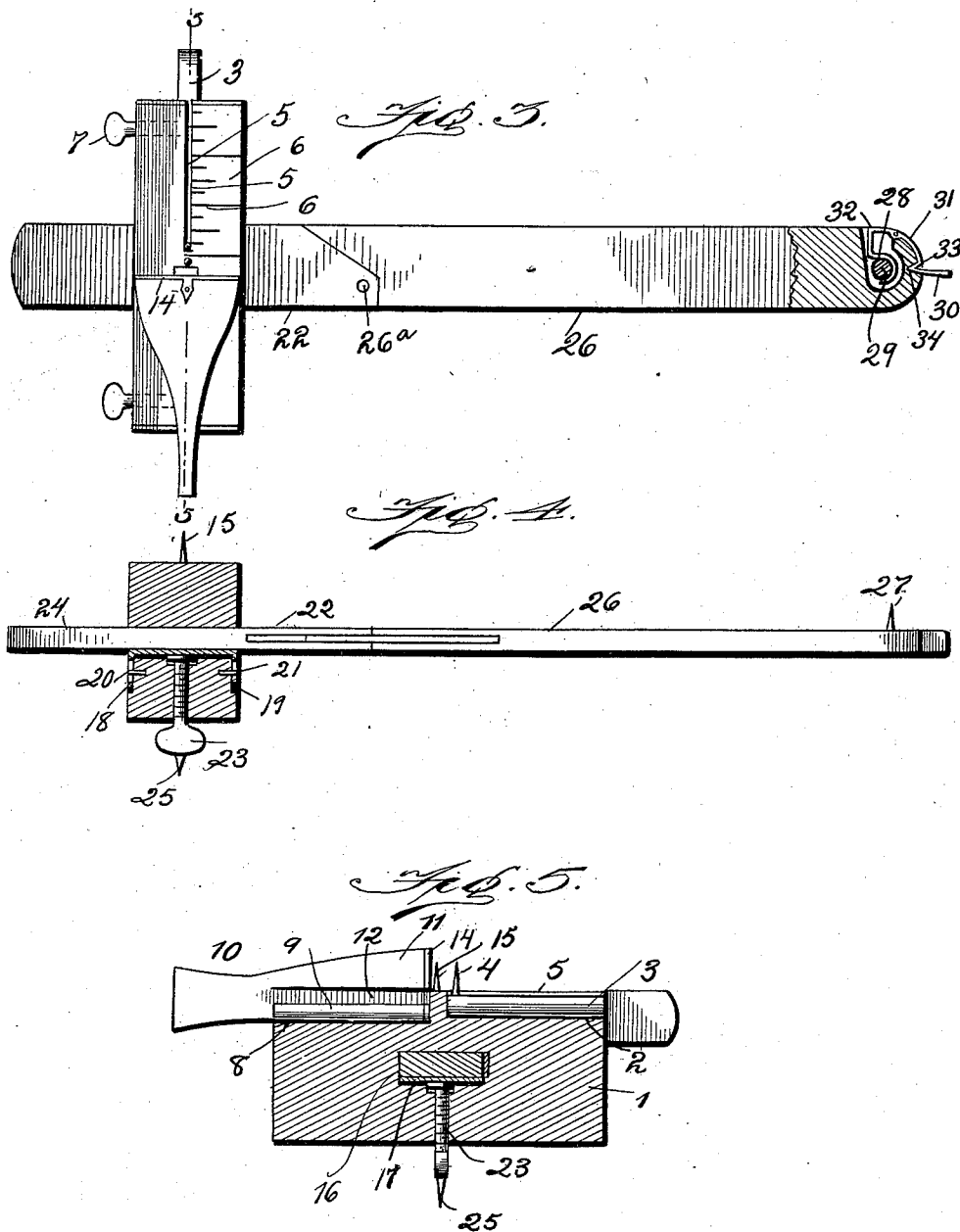
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2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

ELIHUE M. HEMBREE, OF ROANOKE, GEORGIA.

CARPENTER'S TOOL.

SPECIFICATION forming part of Letters Patent No. 663,168, dated December 4, 1900.

Application filed May 31, 1900. Serial No. 18,572. (No model.)

To all whom it may concern:

Be it known that I, ELIHUE M. HEMBREE, a citizen of the United States, residing at Roanoke, in the county of Milton and State of Georgia, have invented certain new and useful Improvements in Carpenters' Tools, of which the following is a specification.

This invention relates to carpenters' tools; and the object thereof is to provide a cheap, durable, and efficient device adapted to be employed as a mortising-gage, thumb-gage, try-square, bevel, compasses, or rule, as occasion may demand.

With this object in view the invention consists in certain novel combinations of parts and peculiar details of construction, all of which will be fully described hereinafter, recited in the appended claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a underneath perspective view of my invention, all the parts being assembled. Fig. 2 is an obverse view in perspective of the invention. Fig. 3 is a top plan view of the same, the end of the rule carrying the pencil-clip being in section. Fig. 4 is a cross-sectional view of the head-block, showing the square and pencil-carrying arm in elevation; and Fig. 5 is a transverse section on the line 5 5 of Fig. 3.

The head or gage block designated by the reference-numeral 1 comprises a rectangular block provided at one end with a slotted socket or recess 2, in which is slidably secured a scribe-bar 3, carrying at one end a point or pin 4, which projects through the elongated slot 5 of the recess 2, said bar 3 being secured in any desired adjustment with relation to the graduated scale 6, arranged along one edge of the slot by means of a set-screw 7. The other end of the head-bar 1 is also provided with a cylindrical recess 8, in which is slidably secured the cylindrical rib 9 of the gage or guide bar 10, the head 11 of this bar being connected to the rib 9 by a connecting-rib 12, which projects through the slot 13 in the lower face of the bar 1, and whereby the metallic-faced edge 14 of the gage or guide bar may be held in proper relation to the rigidly-secured scribe-point 15, connected to the head-block at a point intermediate the pin on the scribe-bar and the

guide-bar, so that either the scribe-bar or the guide-bar may be adjusted toward and away therefrom, the purpose of which will be hereinafter apparent.

Transversely through the head-block and intermediate the ends thereof is arranged a slot 16, in which is loosely secured a bearing-plate 17, having slotted right-angular end flanges 18 and 19, which are engaged by the projecting pins 20 and 21 in each side of the head-block 1 to form guides for the plate 17. A slidable and adjustable hinged bar 22 is secured in the slot 16 and held in any predetermined adjustment by a headed set-screw 23, which is adapted to bear against the under side of the bearing-plate 17 to cause the same to bind against the short arm 24 of the said bar. The point 25 on the head of the set-screw 23 is designed to form or constitute the pivotal point of a compass, as will be presently apparent. As has been mentioned heretofore, the bar 22 is hinged and comprises the short arm 24, (which is designed to be engaged by the bearing-plate 17,) and a long arm 26 is pivoted thereto at 26^a and has on one side a series of graduations to provide a scale or rule for measuring. The projecting point 27 is to be used in conjunction with the head-bar 1 as a guide, making a single gage for broad gaging. 28 designates an opening in the free end of the long arm 26, in which can be held a pencil such as the one designated by the reference-numeral 29. In order to securely retain the pencil in the hole or opening 28, I pivotally secure a pencil-retaining clip 30 to the end of the arm 26, which comprises a strip of spring metal curved to form a segmental bar 31, on one end of which is a contact-finger 32, to impinge against the side of the pencil when in the opening 28. This finger is held in contact with the pencil 29 by forcing or springing the shouldered extension 33 at the other end of the bar 31 into engagement with the notch 34 in the end of the arm 26. It will also be noticed that at the end of this finger is a semicircular extension which embraces the pencil to force the same against the side walls of the opening when the shouldered extension 33 at the outer end of the bar 31 is held in engagement with the notch 34. As soon, however, as the shoulder 33 is re-

leased from the notch 34 the finger 32 will be forced away from contact with the pencil and allow the same to be withdrawn.

The use and operation of the device are as follows: Suppose it is found desirable to use the device as a mortising-gage. The width of the mortise having been determined, the scribe-bar 3 will be adjusted in the recess or socket 2 to space the point 4 a proper distance from the point 15. The gage or guide bar 10 will also be properly adjusted with relation to the pin or point 15, and the head-block can then be moved along the piece of stuff to scribe the proper outline for the mortise. In using the device as an ordinary thumb-gage the guide-bar 10 is to be adjusted so as to dispense with point 15 by receiving same into a vertical slot in face 14. Leaving face 14 as the guide, then adjust scribe-bar 3 to distance desired and use point 4 for scribe. Should it be found desirable to employ a try-square, the long arm 26 will be hinged around on the short arm 24 until it is at right angles thereto, and by using the longitudinal edge of the head-block as a parallel the desired result can easily be accomplished, or a bevel can be produced by merely swinging the long arm around to the proper angle with relation to the arm 24. Using the point 25 as the pivot and introducing the pencil 29 in the opening 28, as has heretofore been explained, a compass may be provided, as will be readily seen.

It will thus be apparent to those skilled in the art to which my invention appertains that I have provided a cheap, simple, and durable tool adapted to be used for many purposes, and while I have described in detail what to me appears to be the very best and most desirable means of accomplishing the desirable result I would have it understood that I do not limit myself to the exact details

shown, but reserve the right to make such changes and alterations as would properly come within the scope of my invention without departing from the spirit thereof. 45

I claim—

1. The combination with a block having a slotted recess or socket in each end, and a centrally-arranged pin projecting from said block, of a scribe-bar adjustably secured in one recess and carrying a point or pin which projects through the slot, and a gage-bar in the other recess, said scribe-bar and gage-bar being adapted to be adjusted toward and away from each other and toward and away from the central pin on the block. 50

2. In combination with a gage-block provided with a transverse slot extending there-through, of a bar adjustably secured in said slot, a set-screw for retaining said bar in a predetermined adjustment, a pin projecting from said set-screw, and a pivoted spring-retained finger carried by one end of said bar, and adapted to retain a pencil in an opening in the bar by frictional contact whereby the point on the set-screw and the point on the pencil will form two points of a compass. 55

3. The combination with a gage-block having a transverse slot extending therethrough, of a bearing-plate in said slot having slotted right-angular flanges, pins engaging said slotted flanges, a bar adjustably secured in said slot, and adapted to be held therein by contact with the plate, means forcing said plate tightly against the bar and carrying a pivoted point or pin, and a marker carried by the said bar. 70

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

ELIHUE M. HEMBREE.

Witnesses:

C. M. WEBB,

H. M. BROADWELL.