(No Model.)

A. T. BINKERD.

CARPENTER'S COMBINATION GAGE.

No. 589,688. Patented Sept. 7, 1897.

Fig. 1.

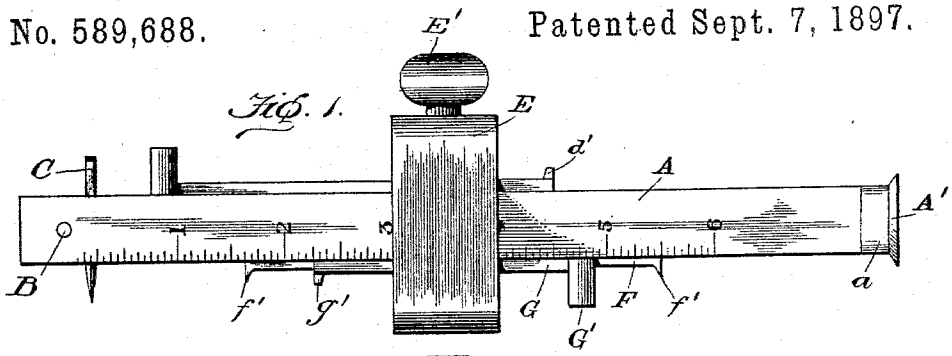


Fig. 2.

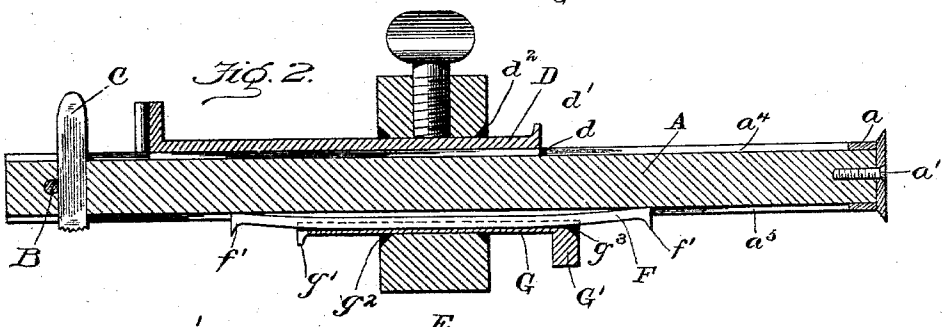


Fig. 3.

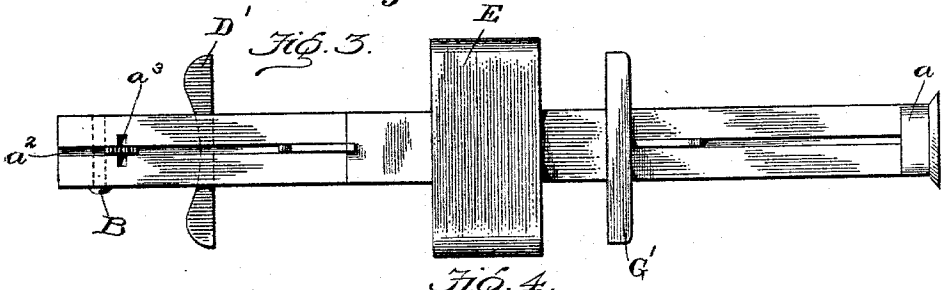
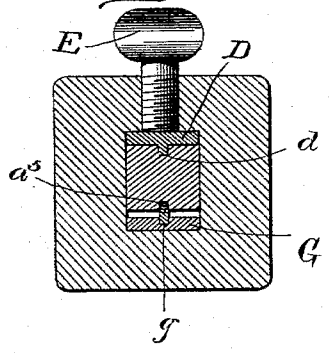


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

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CARPENTER'S COMBINATION-GAGE.

SPECIFICATION forming part of Letters Patent No. 589,688, dated September 7, 1897.

Application filed May 3, 1897. Serial No. 634,845. (No model.)

To all whom it may concern:

Be it known that I, AARON THOMAS BINKERD, a citizen of the United States, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Carpenters' Combination-Gages; 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.

My invention relates to improvements in carpenters' gages, and the object is to provide a tool of this class adapted to a variety of uses.

To this end the invention consists in the construction, combination, and arrangement of the device, as will be hereinafter more fully described, and particularly pointed out in the claims.

Figure 1 is an elevation of my improved gage. Fig. 2 is a longitudinal section through the same. Fig. 3 is a bottom plan view, and Fig. 4 is a transverse section through the head-block.

Like letters of reference indicate like parts throughout the several views.

Referring now to the details of the drawings by letter, A designates the gage-stock, which is graduated upon one or more sides, as may be desired. At one end it is provided with a ferrule a and with a cutting-disk A', the edge of which is sharpened, as shown, and which disk is rotatably mounted on a screw a', held in the end of the stock, as shown in Fig. 2. This disk serves to keep the stock from the work during the use of the gage, and thus reduces the friction to a minimum. Being sharpened, it also serves as a marker from either side. The opposite end of the stock is split, as shown at a^2, and the split portions are designed to be brought together sufficiently to firmly hold between them a bit by means of a screw B, which is held in the split portions, as shown best in Fig. 3. These bits C are designed to be interchangeable and are for the purpose of working beads or reedwork, especially around arches or circular work. They are formed differently at each end, so as to be used either end, one for one kind of work and the other for another kind. This end of the stock is formed with a transverse slot a^3, as shown in Fig. 3, for the reception of a bit when it is desired to use a marker therein, in which case the bit is removed from the longitudinal slit and a bit or marker placed in the transverse slit, and is adjustable and can be used as a slitter or rutter, the same screw being used for holding the bit in place in either position.

The stock A is provided upon opposite sides with the central longitudinal slots a^4 and a^5, as best seen in Fig. 2, which slots are designed to receive fins or lugs on the slides, which will now be described.

D represents one of the slides, and it is formed centrally with a fin or lug d, which is designed to work in the slot a^4 to guide the slide in its movements, and one end terminates in the cross portion D', which is concaved, as shown in Fig. 3. This is designed for marking arcs or curves both concave or convex. The opposite end of this slide is provided with an outwardly-extending lip or lug d', as shown in Figs. 1 and 2, which is designed to engage a notch d^2 in the end of the gage head or block E, as shown in Fig. 2, the gage head or block being formed with a channel through or in which the slide moves. This head or block may be of any well-known form, except as herein specified, and is provided with the thumb-screw E', as shown in Figs. 1 and 2, for binding the same at any desired or adjusted position on the stock. This screw also serves to bind the slides in their adjusted positions.

Upon the opposite side of the stock there is provided an adjustable steel rod, which also serves as a fin or guide and is used in marking tenons, mortises, &c., having at each end a point or marker f', and outside of this rod is a slide G, which has a longitudinal groove g, through which the rod is movable and also in the groove or slot a^5 of the stock, as shown in Fig. 2. This slide has at one end a lug g', which is designed to enter a notch g^2 in the head or block, as shown in Fig. 2, and at the other end it terminates in a cross portion G', which is provided with a notch g^3 to receive the marker or point on that end of the metallic rod F, as is also clearly shown in Fig. 2.

The manner of using the gage will be readily understood from the foregoing description when taken in connection with the accompa-

nying drawings. The slides and rod are independently adjustable, and it will be readily seen that by proper adjustment the thickness, as well as the width, of any desired piece may be taken at the same time. The gage will be found especially useful in marking for butt-hinges and mortise-locks on doors, &c., where an ordinary gage cannot conveniently be used.

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

1. The stock A formed with the longitudinal slot a^5, the slide G, provided with the longitudinal groove g, alined with said slot a^5, the rod F provided at its outer ends with the scratch-points f' f' and arranged to simultaneously engage the slot a^5 and groove g, and the adjustable block E, provided with the thumb-screw E', and adapted to simultaneously secure said stock A, slide G, and rod F in position, substantially as shown and described.

2. The stock A formed with the longitudinal slot a^5, the slide G, formed with the groove g and lug g' and cross portion G', the outer face of which is provided with the notch g^3, in combination with the rod F, provided at its outer end with the scratch-points f' f', and the block E, provided with the notch g^3, substantially as shown and described.

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

AARON THOMAS BINKERD.

Witnesses:
ROBT. E. GOE,
E. G. BINKERD.