

No. 649,751.

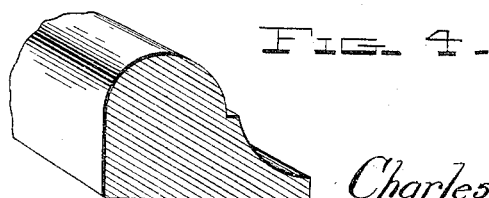
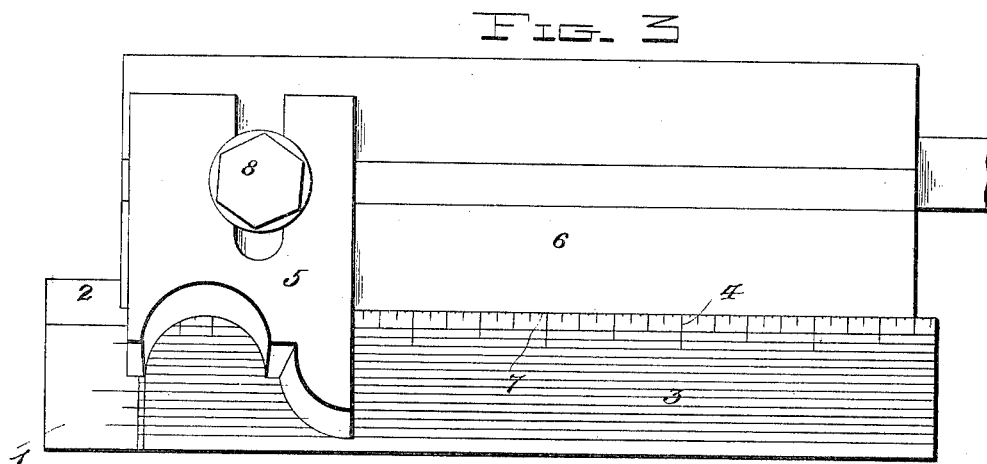
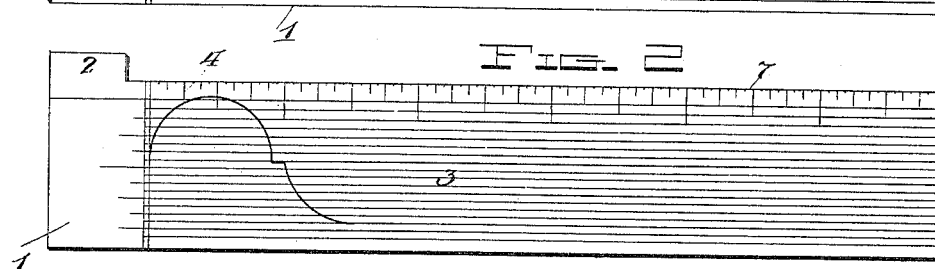
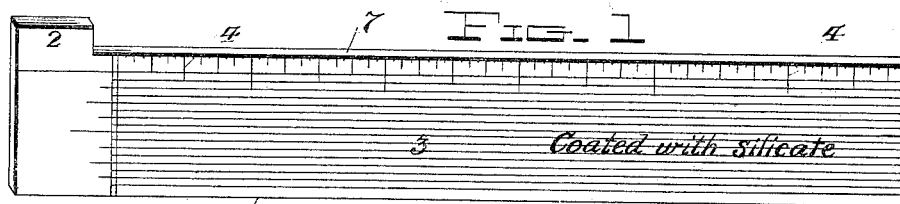
Patented May 15, 1900.

C. J. QUINN.

SCALE GAGE FOR SETTING KNIVES, &c.

(Application filed Oct. 28, 1899.)

(No Model.)



Witnesses
J. L. Perkins
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UNITED STATES PATENT OFFICE.

CHARLES J. QUINN, OF PITTSBURG, PENNSYLVANIA.

SCALE-GAGE FOR SETTING KNIVES, &c.

SPECIFICATION forming part of Letters Patent No. 649,751, dated May 15, 1900.

Application filed October 28, 1899. Serial No. 735,067. (No model.)

To all whom it may concern:

Be it known that I, CHARLES J. QUINN, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Scale-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 an improved scale-gage for setting the knives on molding-machines; and the object is to provide a simple, inexpensive, and convenient device of this character whereby the knives may be quickly and accurately adjusted and more particularly so when it is desired to duplicate a molding of certain dimensions.

To this end the invention consists in the particular construction and arrangement of the scale-gage hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a perspective view of my improved scale-gage. Fig. 2 is a plan view of the gage with a molding design laid off on it. Fig. 3 is a similar view showing the manner of applying the gage to the cutter-head to set the knives. Fig. 4 is a detail view of a piece of molding formed by using my improved gage in connection with the knife 5 for cutting or planing said molding.

1 denotes the body or stock of the gage, which consists of any suitable material—such as hard wood, steel, or celluloid—having the surface coated with silicate to render it a proper receiver for designs, which may be temporarily drawn thereupon and afterward conveniently rubbed off or obliterated to make room for new temporary designs of molding in order that the gage may be used indefinitely.

The face of the gage is provided with a series of graduated longitudinal lines 3 and a series of graduated transverse lines 4, the two sets of lines forming a compound scale, upon which the design may be traced, as shown in Fig. 2.

One way of using the gage where a previous design is to be duplicated—say, for instance, the design for the molding shown in Fig. 4—is as follows: A thin section of this molding is laid on the gage and the design or outline thereof is then traced off on the gage, as shown in Fig. 2. The knife-blade 5 is then set in the head 6 of the molding-machine (not shown) and the gage adjusted to the head, with its knee 2 in contact with the end of the head and its inner longitudinal edge 7 in contact with the longitudinal face of the head, as shown. The cutting edge of the knife 5 is then adjusted to the outline design on the gage, as shown in Fig. 3, and the bolt 8 is then screwed up to rigidly secure the blade to the head. Another way is to lay off the width of the molding on the length of the gage by means of the transverse scale 4, and the thickness and the depth of the cuts are laid off on the width of the gage by means of the longitudinal lines 3, with a like result to that shown in Fig. 2. After the knives have been properly adjusted the design on the gage is rubbed off and it is again ready for use, as before.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

A scale-gage for setting molding-machine knives, consisting of a plate 1 provided with an integral lateral knee 2 projecting upwardly from the left end of said plate 1; a series of graduated longitudinal permanent lines 3 and a series of graduated transverse permanent lines 4, said two sets of graduated permanent lines forming a permanent compound scale; and a coating of silicate covering said graduated longitudinal and transverse lines forming said permanent compound scale; substantially as and for the purpose specified.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CHARLES J. QUINN.

Witnesses:

JOSEPH I. WINSLOW,
JAS. T. HARDEN.