

No. 652,038.

Patented June 19, 1900.

J. OPLAND.
MARKING GAGE.

(Application filed Mar. 13, 1900.)

(No Model.)

Fig. 1

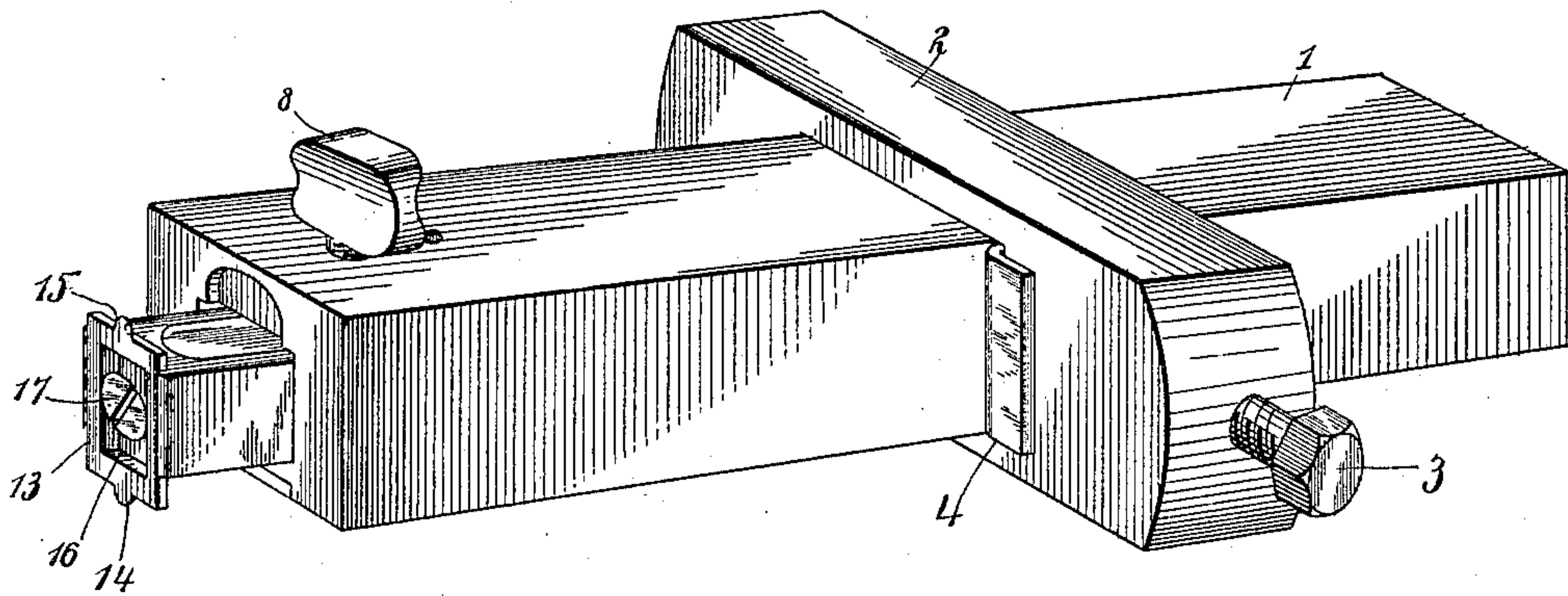


Fig. 2

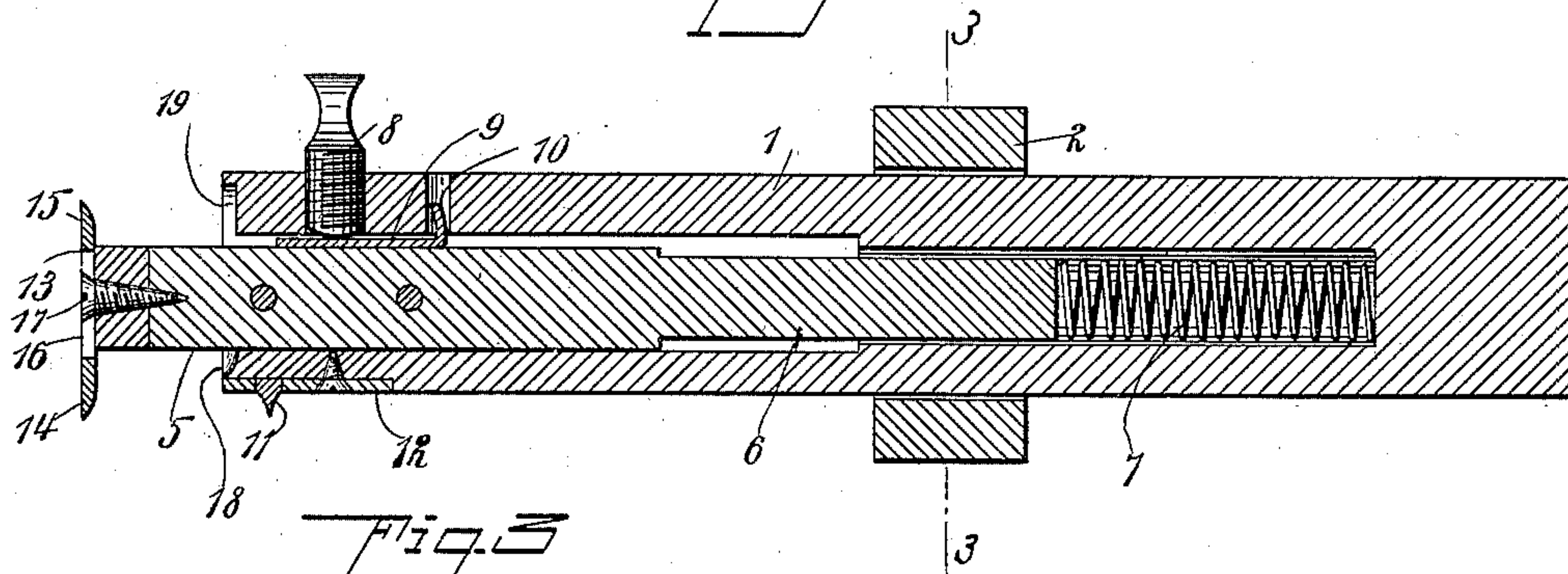


Fig. 3

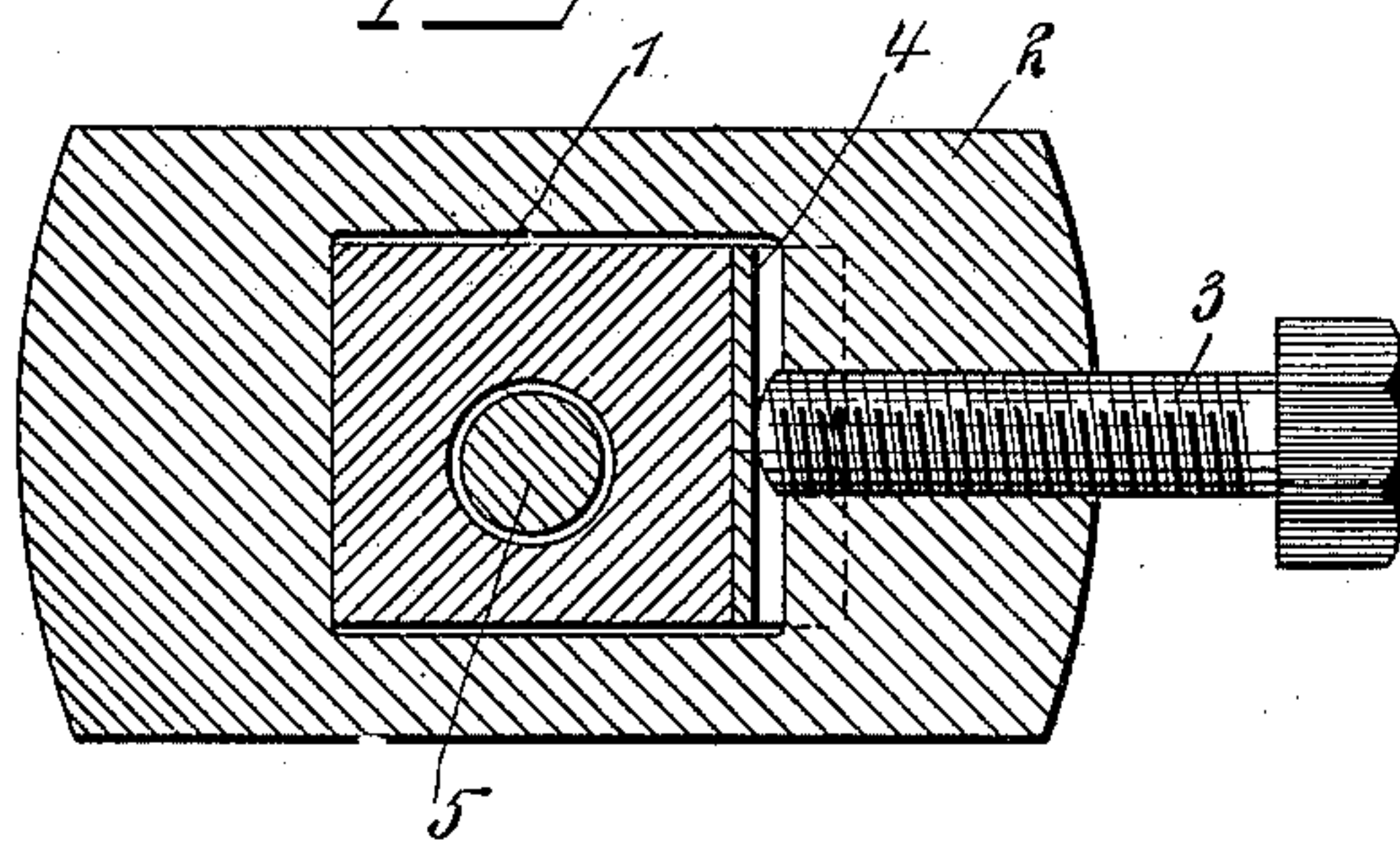


Fig. 5

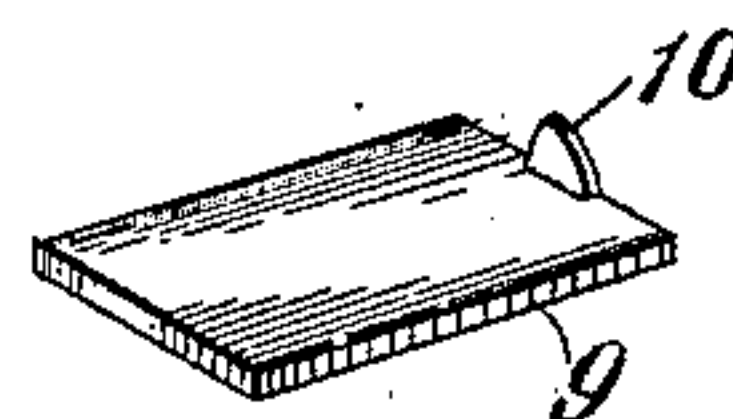
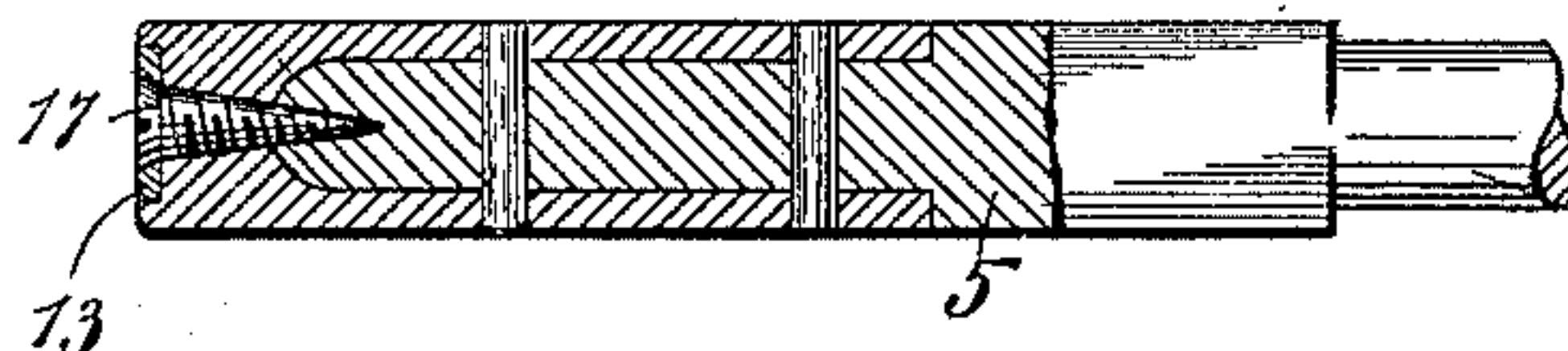


Fig. 4

WITNESSES:

J. A. Brophy
C. R. Ferguson



INVENTOR

Julius Opland

M. W. M. M.
ATTORNEYS

UNITED STATES PATENT OFFICE.

JULIUS OPLAND, OF CALUMET, MICHIGAN.

MARKING-GAGE.

SPECIFICATION forming part of Letters Patent No. 652,038, dated June 19, 1900.

Application filed March 13, 1900. Serial No. 8,481. (No model.)

To all whom it may concern:

Be it known that I, JULIUS OPLAND, a citizen of the United States, and a resident of Calumet, in the county of Houghton and State of Michigan, have invented a new and Improved Marking-Gage, of which the following is a full, clear, and exact description.

This invention relates to improvements in marking-gages; and the object is to provide a gage of simple construction and having means for automatically adjusting or moving outward one marking-point with relation to the other, resulting in a considerable saving of time in making adjustments as compared with that class of gages in which a screw is employed for adjusting.

I will describe a marking-gage embodying my invention, and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a gage embodying my invention. Fig. 2 is a longitudinal section thereof. Fig. 3 is a section on the line 3 3 of Fig. 2. Fig. 4 is a sectional view of a portion of the adjustable point-carrier, and Fig. 5 is a perspective view of a bearing-plate employed.

Referring to the drawings, 1 designates the gage-stock, which is made tubular or hollow for a portion of its length. Movable on the stock is the usual head-block 2, which is held as adjusted by means of a set-screw 3. As these parts are generally made of wood, I prefer to insert a bearing-plate 4, of metal, which is arranged between one end wall of the block and one side of the stock, and against this plate the end of the set-screw engages. Movable in the stock is the adjustable point-carrier, consisting of a rectangular strip of wood or other desired material 5, the opening in the stock receiving this rectangular portion being of the same shape. It is shown, however, as having a round stem or extension 6, movable in a correspondingly-shaped portion of the opening in the stock, and in this opening and bearing against the inner end of the carrier is a spring 7, which serves to force the carrier outward when released. The carrier is held in its adjusted

position by means of a set-screw 8, passing through a tapped hole in the stock and engaging against a metal bearing-plate 9, arranged within the stock and between the screw and carrier. To prevent the outward movement of this bearing-plate, it has an upwardly-extended lug 10, which engages in an opening in the stock, as indicated in Fig. 2.

Secured to the under side of the stock 1, near its end, is a marking-point. This marking-point is attached to a metal plate 12, suitably secured to the stock. It is here shown as secured by means of a screw. Adjustably attached to the outer end of the carrier 5 is a plate 13, having marking-points 14 15 at its opposite ends. This plate is provided with a slot 16, through which a screw 17 passes for securing and clamping the plate to the carrier 5. By making two points 14 and 15 on the plate it is obvious that should one become worn the plate may be reversed to bring the other point in operative position.

In operation when it is desired to make a double line—such, for instance, as for marking out a mortise or the like—the carrier 5 is to be relieved of pressure of the screw 8, when the spring 7 will move the carrier outward. By holding the stock in one hand and a finger of the other hand against the end of the carrier it may be readily stopped at a desired measurement on a rule. When so adjusted, the screw 8 is to be again tightened.

Should it be desired to use a single gage, or, in other words, to use the marking-point 11 only, the plate 13 is to be moved upward, so that when the carrier is moved completely inward the lower portion or point 14 of the plate will be seated in a notch 18, formed in the end of the stock, while the upper portion of the plate will be seated in a recess 19, formed in the end of the stock. By this arrangement the outer surface of the plate will be flush with the end of the stock.

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

1. A marking-gage, comprising a stock, a marking-point thereon, a marking-point carrier movable relatively to the stock, and means for automatically moving said carrier outward, substantially as specified.

2. A marking-gage, comprising a hollow

stock, a marking-point on said stock, a point-carrier movable in the hollow stock, and a spring within the hollow stock and engaging with the inner end of the carrier for moving the same outward, substantially as specified.

3. A marking-gage, comprising a hollow stock, a point-carrier movable in said hollow stock, means for automatically moving the carrier outward, a plate adjustable on the outer end of said carrier, and a marking-point on said plate, substantially as specified.

4. A marking-gage, comprising a hollow stock, a point-carrier movable in said hollow stock, means for automatically moving said carrier outward, a plate adjustable on the outer end of said carrier, and marking-points on opposite ends of said plate, substantially as specified.

5. A marking-gage, comprising a hollow stock, a marking-point thereon, a point-carrier movable in the hollow stock, means for automatically moving the carrier outward, a

set-screw for the carrier, and a bearing-plate arranged between said set-screw and the carrier, the said bearing-plate having a lug to re-movably engage in a recess or hole in the stock, substantially as specified.

6. A marking-gage, comprising a hollow stock, a point-carrier movable in said hollow stock, a plate adjustable on the outer end of said carrier and having points at its opposite ends, the end of the stock being provided with recesses to receive said points when the carrier is moved fully inward, and means for automatically moving the carrier outward, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JULIUS OPLAND.

Witnesses:

LAWRENCE NELSON,
I. W. FRIMODIG.