(No Model.)

2 Sheets—Sheet 1.

W. R. SHEPARD.

DEVICE FOR MARKING AND GAGING HINGE SEATS.

No. 495,761. Patented Apr. 18, 1893.

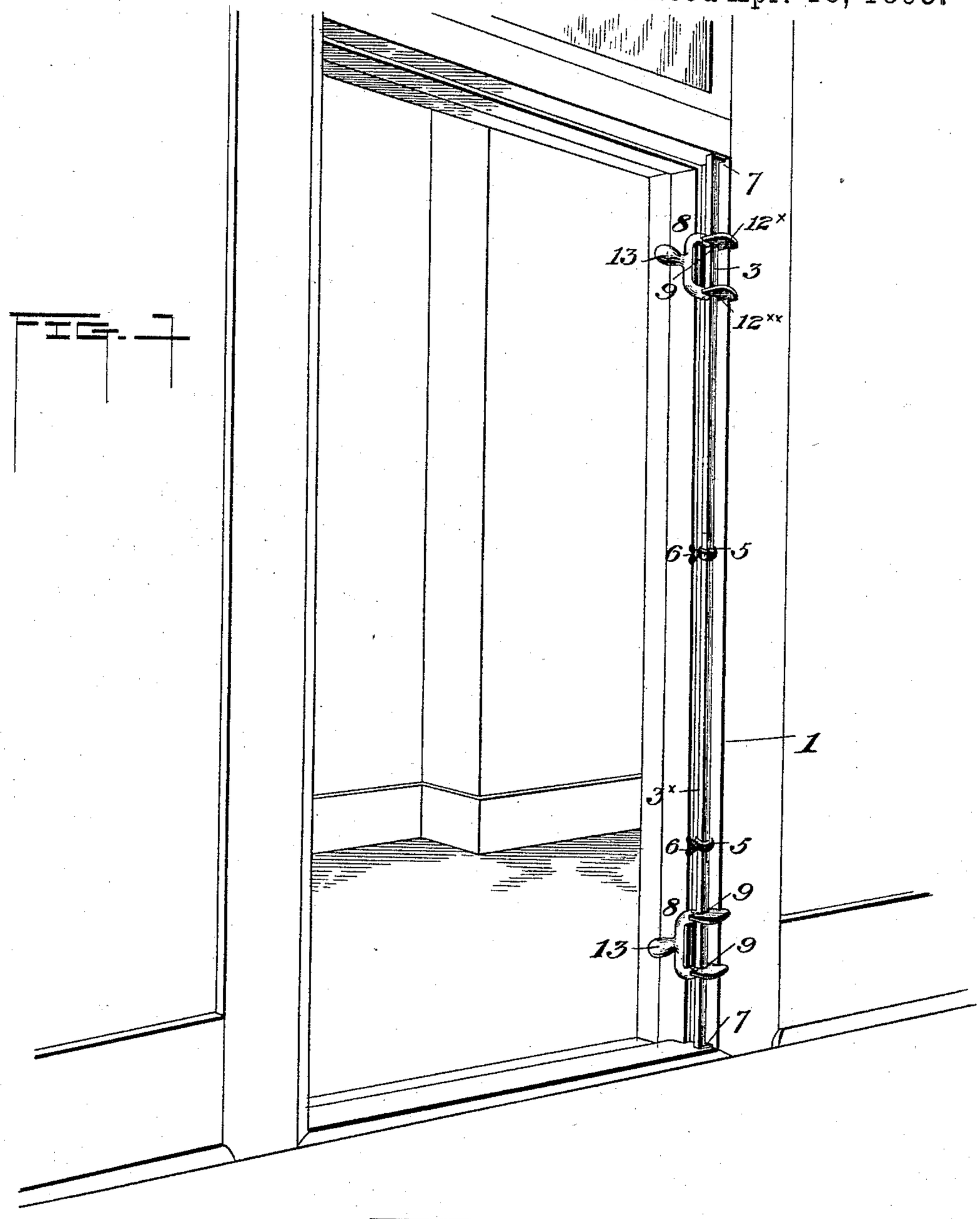
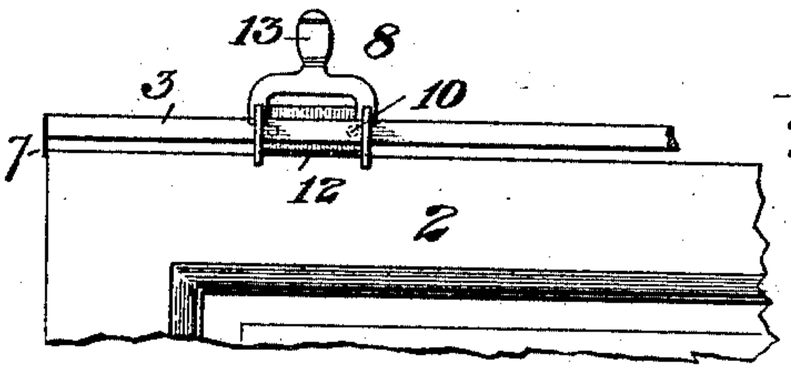


FIG. 2.



Witnesses
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(No Model.) 2 Sheets—Sheet 2.

W. R. SHEPARD.

DEVICE FOR MARKING AND GAGING HINGE SEATS.

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FIG. 4.

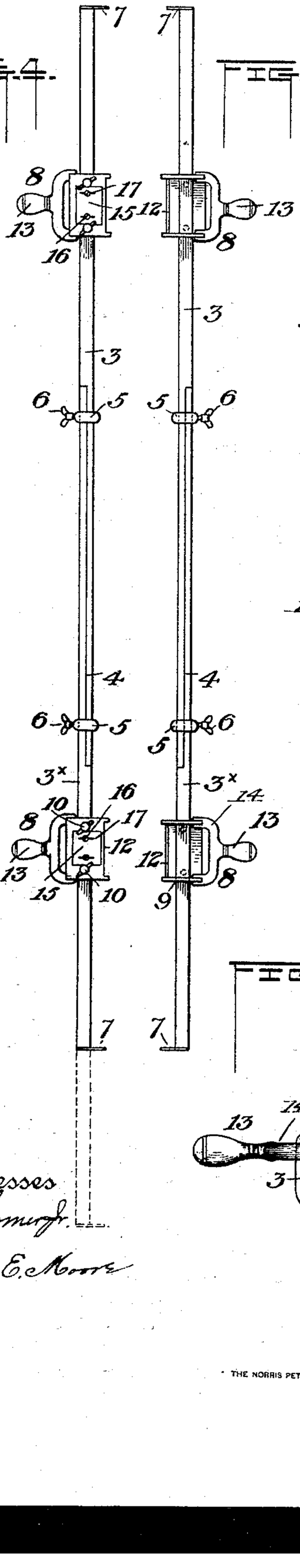

FIG. 5.

FIG. 3.

FIG. 6.

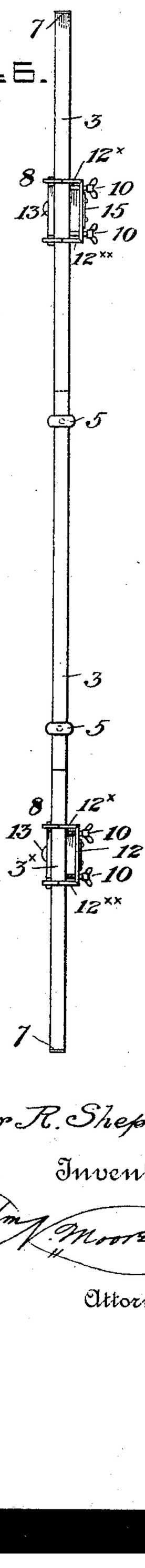

FIG. 7.

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UNITED STATES PATENT OFFICE.

WALTER RALEIGH SHEPARD, OF SPARTANBURG, SOUTH CAROLINA, ASSIGNOR OF TWO-THIRDS TO JOSEPH S. CLOUD AND W. FOWLER, OF SAME PLACE.

DEVICE FOR MARKING AND GAGING HINGE-SEATS.

SPECIFICATION forming part of Letters Patent No. 495,761, dated April 18, 1893.

Application filed September 19, 1892. Serial No. 446,324. (No model.)

To all whom it may concern:

Be it known that I, WALTER RALEIGH SHEPARD, a citizen of the United States, residing at Spartanburg, in the county of Spartanburg and State of South Carolina, have invented certain new and useful Improvements in Devices for Marking and Gaging Hinge-Seats; 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, reference being had to the accompanying drawings, and to the figures of refreence marked thereon, which form a part of this specification.

My invention is a novel and improved device for marking and gaging hinge seats, adapted to make a mark on the door and casing at the exact places where the leaves or butts of the hinges should be located and secured.

The common manner of attaining the above end is to mark with rule and pencil the places where the butts or leaves of the hinge should fit and afterward cutting out the mortise with a chisel, but this method is objectionable for numerous reasons the most prominent objections being that this method is uncertain and frequently the door will be improperly hung and also it requires a vast expenditure of time and labor.

The leading object of my invention is the provision of a device which will mark the door and casing at the exact place where the hinge butts or leaves should be placed and which will make the mark the exact size of the leaves and by means of which the places where all hinges should be placed will be marked without moving the device thereby insuring accurate marking and gaging.

Another object of my invention is the provision of a device capable of marking seats or recesses for butts of any desired size and which can be quickly adjusted to place the hinge seats at any desired place on the door and casing.

Another object of my invention is the provision of an extremely simple and durable device which will quickly and perfectly mark and gage the places for the hinge butts and thereby overcome the slow method generally employed and which device can be sold at a very low price, thus overcoming all defects and insuring a practical and useful device.

To attain the desired objects the invention consists of a device embodying novel features of construction and combination of parts substantially as disclosed herein.

Figure 1 represents a perspective view of a door casing with my improved marking and gaging device in the position it is placed to mark and gage the seats for the hinge leaves. Fig. 2 represents a detail view showing the position the device occupies when marking and gaging the seats on the door. Fig. 3 represents an enlarged perspective view of the marking device and a part of the rod. Figs. 4, 5 and 6 represent elevations of the device to show how the parts composing it are assembled or combined, and Fig. 7 represents a plan view of the device as it is placed when marking a casing.

Referring by numerals to the drawings:—The numeral 1 designates a door casing and 2 a door of well known form and on which my device is used to make the marks for the hinge leaves or butts.

The numerals 3 and $3^{\times}$ designate the two sections of a rod which may be either rectangular, round or any other form and which is spliced at 4 to enable the two sections to fit adjustably together and the sections are held at the proper point by means of the collars 5, having each a binding screw 6, which holds the sections together at the proper adjustment. By this construction it will be understood that the two sections can be moved or lengthened and shortened to accommodate the rod to doors and casings of different heights, and to each end of the sections is secured the foot or gage piece 7, the purpose of which is to make allowance for the space between the edges of the door and the casing to prevent binding of the door in the casing. On the rod are placed the markers and gages 8, which are provided with openings 9 for the passage of the rod, and are retained at the proper adjustment by set screws 10, and said

markers consist of the three pieces made in rectangular form, recessed at 11, to cause the device to fit properly on the door or casing and having the three chiseled edges for marking, designated as 12, $12^{\times}$, and $12^{\times\times}$, which when struck by a hammer or other implement against the handles 13 secured to the markers by yokes 14 will cause the chiseled edges to make the mark on the door or casing, as will be understood.

In order that the marker will not cut too deeply into the wood I employ the adjustable limiting plate 15, secured to the marker by screws 16 in the slots 17 thereof and by means of which the plate can be moved to permit the chiseled edges from cutting only the proper depth.

It sometimes happens that the door or casing at the point where the hinge leaves are to be placed bulges or is uneven and in order to insure the marker making the cut at the proper place I employ the strip 18, which has the ends bent to engage the marker and fits in the recess 11 and compensates for the said unevenness. Of course if the unevenness is considerable the door will have to be planed or made even but when only slight this device operates perfectly.

The manner of using my device will be readily understood from the foregoing description and drawings and I will simply state that the device is adjusted to the door casing and the markers are placed the proper distance from the ends of the rod to mark on the casing and as soon as the marks for the hinge leaves are made on the casing the device is reversed and the markers brought at the exact point on the door to make the marks exactly in line on the door and casing.

When marking the casing seats the gage pieces on the rod bear against the upper and lower parts of the casing and when turned to mark the door said pieces rest on the upper and lower edges of the door and are of the proper thickness to allow the door to hang free in the casing and binding is absolutely prevented.

The strip which is carried by the markers is of sufficient thickness to allow for any swelling or unevenness on the door or casing, that is it takes up the fullness and makes a mark the proper size.

The markers are made in the various sizes of standard butts or leaves and they can be adjusted to any place desired on the door or casing and if desired more than two markers can be employed.

It will thus be seen that I provide a device which will quickly and accurately mark the places where the hinges should be placed and thus save much time and labor and money; which can be easily and perfectly adjusted and will make marks for any sized hinge; and which is simple, compact, durable and cheap thus making the device entirely practical and economical.

I claim as my invention—

1. A device for marking and gaging hinge-seats, consisting of a sectional rod having at each end a foot piece or gage clamping devices for holding the sections at any adjustment, and markers adjustable on said rod and having three cutting edges for marking the seats or recesses, in the manner described.

2. A device for marking and gaging hinge-seats consisting of a sectional rod having means for holding the sections in adjusted positions, foot pieces or gages carried by the rod at each end thereof, and three sided markers having cutting edges to mark the seats and adjustable on the rod, in the manner and for the purpose described.

3. A device for marking and gaging hinge-seats consisting of the adjustable sectional rod, the foot pieces or gages on the ends of said rod, the markers having the rectangular cutting edges, the screws carried by the markers for retaining them in the adjusted positions, and handles carried by said markers, for the purpose described.

4. A device for marking and gaging hinge-seats consisting of the two part adjustable rod, the foot pieces or gages at the ends of the rod, the markers adjustable on the rod having the recessed portion and cutting edges, and the adjustable stop or limit plate on the markers, for the purpose described.

5. In a device for marking and gaging hinge-seats the combination with the markers mounted on the rod and having the recessed portion and three cutting edges of the plate secured to the marker for reducing the size of the cut made by the markers, for the purpose described.

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

WALTER RALEIGH SHEPARD.

Witnesses:

S. G. HOPKINS,

WM. N. MOORE.