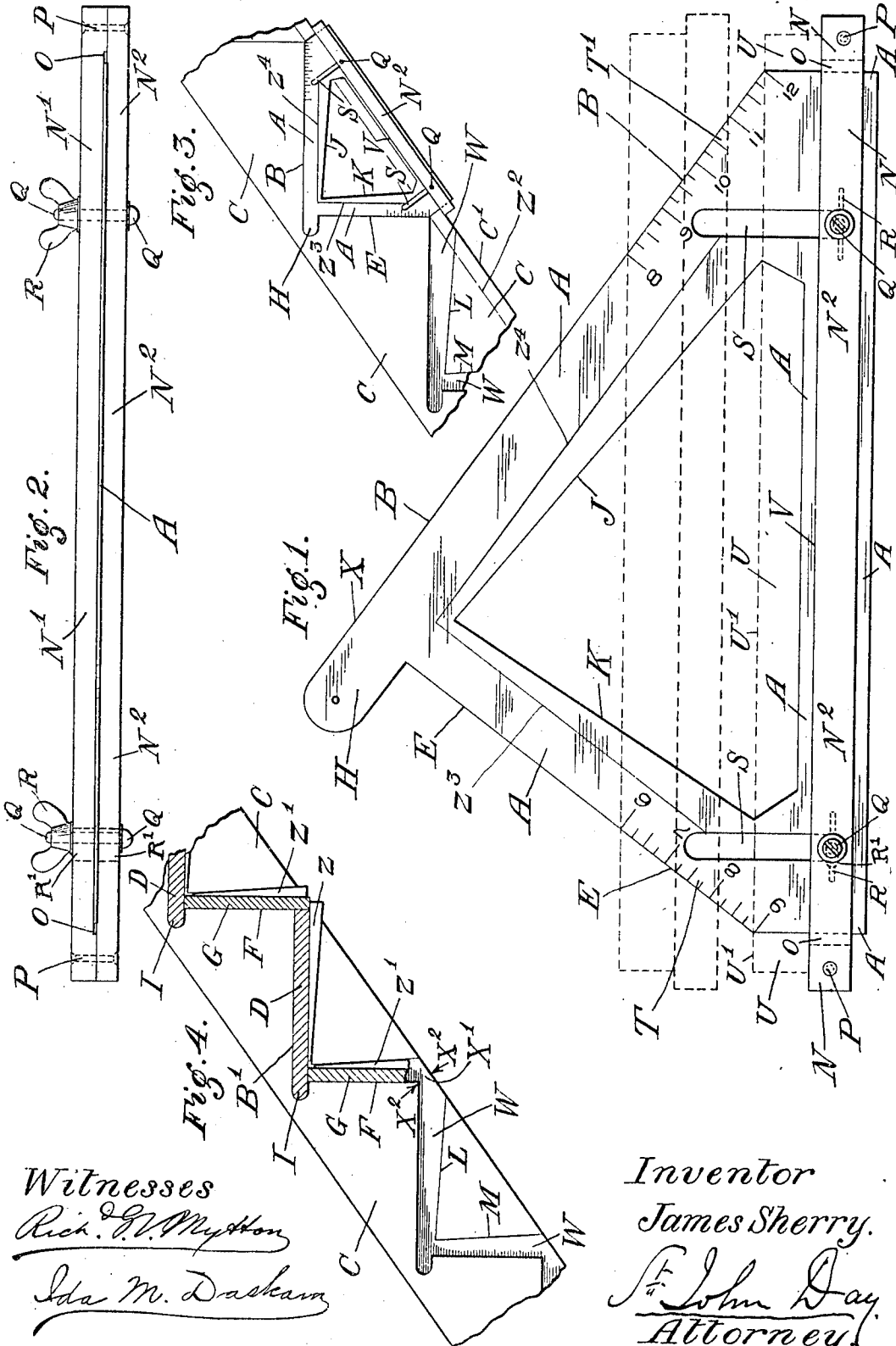


J. SHERRY.
 COMBINED TEMPLET AND GAGE.
 APPLICATION FILED SEPT. 14, 1908.

947,422.

Patented Jan. 25, 1910.



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JAMES SHERRY, OF SANTA MONICA, CALIFORNIA.

COMBINED TEMPLET AND GAGE.

947,422.

Specification of Letters Patent.

Patented Jan. 25, 1910.

Application filed September 14, 1908. Serial No. 453,204.

To all whom it may concern:

Be it known that I, JAMES SHERRY, of the city of Santa Monica, in the county of Los Angeles and State of California, have invented a new and useful Combination Templet and Gage for Laying Off Stair Risers and Steps.

My said invention which consists of an adjustable combination templet and gage, has for its object to enable the laying off upon the housing stringers of a stairway, both accurately and expeditiously, the outlines of the recessed portions which are then cut therein, and whereinto are afterward placed the ends of the steps and risers, which are wedged in position therein.

The recesses which are adapted to be outlined by the use of my improved combined adjustable templet and gage consist of the upper horizontal boundary line of the step, the nosing contour thereof at the front of each step, the outer vertical boundary line of the riser, the rear inclined backing line for the wedge which secures the riser in position; and the lower inclined backing line for the wedge which secures the step in position.

The combined adjustable templet and gage constituting my said invention consists of a flat blade of metal, preferably sheet steel, shaped approximately as a right angled triangle exteriorly, and having a portion removed from the center thereof, said removed portion being substantially triangular, but having portions near some of the vertices of the triangle not cut away so that the additional angles thus produced are obtuse, a slotted clamping bar for the aforesaid blade, slots through the blade admitting of the said blade being adjusted in varying positions relatively to the clamping bar; by clamping screws provided with wing nuts, whereby the blade may be securely held in position when adjusted in the clamping bar.

The details of construction and the method of using the device constituting my invention are clearly shown in the accompanying drawings, wherein—

Figure 1, is a side elevation of my improved device. Fig. 2, is a plan of same, and corresponding with Fig. 1. Fig. 3, is a side elevation showing my device on a smaller scale in operative position upon a stair housing stringer. Fig. 4, is a vertical section through part of a stairway, showing some of the steps and risers wedged in position

in the housing stringer, the lower part of the said housing stringer being shown without the step, riser, or wedges therein, so as to clearly indicate the recess whereinto the step, risers and wedges are adapted to be fitted.

In Figs. 1, 2, and 3, is shown a somewhat triangular blade A, the edge B, of which is that from which is marked upon the housing stringer C, the upper line B', of a stair step D, Fig. 4; and the edge, E, of which is that from which is marked off the front edge F, of a stair riser G. A projecting portion H, upon the blade A, has the contour of the nosing I, of a step D. From the inner edges J, and K, of the blade A, are marked the lines L, M, respectively, upon the housing stringer C. A clamping bar N, is provided for the blade A, having a long slot O, therein for receiving the blade A. The clamping bar N, is preferably made in two pieces N', and N'', connected together by rivets P, as shown in Fig. 2; and passing through both pieces N', and N'', near the ends thereof, are screws Q, provided with clamping wing nuts R, R. The said screws also passing through slots S, S, in the blade A, so as to admit of the adjustment of the blade A, relatively to the bar N. The clamping bars N', and N'', have a slot R', through which one of the screws Q, passes, as shown at Figs. 1 and 2.

The ends T, and T', of the blade A, adjacent to the clamping bar N, are marked as shown in Fig. 1, in inches or other convenient units of measurement, measured from the point X, upon the edge B, of the blade A, which point X, is that wherein the edge E, would meet the edge B, if produced.

In using my improved combined adjustable templet and gage, the distance X', between the arrows X'', Fig. 4, having been decided upon in practice about one inch, a strip U, shown in dotted lines in Fig. 1, and having a width corresponding to the distance X', Fig. 4, is laid upon the blade A, and against the clamping bar N; the blade A, after slightly unscrewing the wing nuts R, is then shifted in the slot O, in the clamping bar N, until the edge U', of the strip U, touches the desired measurement marks, for instance, as shown at the lower part of Fig. 1, 9 and 12 inches respectively; corresponding to a height of riser of 9 inches, and a width of step of 12 inches. The wing nuts R, are then tightened upon the screws Q, thereby clamping the blade A, to the bar N.

The strip U, is then removed, and the device is laid with the blade A, flat upon the housing stringer C, Fig. 3, and with the adjacent edge V, of the bar N, resting against the lower edge C', of the stringer C; then with the outer and inner edges B, E, J, and K, of the blade A, as guides, lines are drawn upon the housing stringer C, bounding the recesses W, which are subsequently cut therein, for the reception of the ends of the steps D, and risers G, and for wedges Z, Z', respectively, for securing the steps D, and risers G, in position.

A gage line Z², may be drawn upon the housing stringer C, parallel to the edge thereof, and the measurement marks upon the blade A, by shifting the said blade A, brought into the position relatively to the said gage line Z², corresponding to the desired height of riser and width of step, thus dispensing with the aforementioned strip U.

The clamping bar N, and strip U, are shown in dotted lines in Fig. 1, in a position corresponding to a height of riser of six inches and a width of step of eight inches.

Lines Z², and Z³, Fig. 1, are marked upon the face of the blade A, for the purpose of indicating the respective thickness of the steps, risers, and wedges.

I claim as my invention.

The adjustable templet and gage, consisting of a single thin metal plate externally shaped as a right angle triangle, whose interior portion is cut out to produce inclined edges beneath and within two of the outer edges of said plate, one of the outer

edges of which is for enabling the upper edges of the recesses for the steps in a housing stringer of a staircase and the contour of the nosing of said steps to be marked, the other outer edge of which plate is adapted for enabling the outer vertical edge of the recesses for the risers of the steps of the staircase to be marked, the inner edges of the plate opposite to those adapted for the upper edges and the nosing of the steps, and the vertical edges of the vertical recesses in the housing stringers, being inclined at such angles whereby these inner edges are adapted for enabling the inclined edges of said recesses in said housing stringers for receiving the wedges driven into the inside part of each step, to be marked on each stringer, said plate having parallel slots at right angles to the third side of the templet and a straight clamp of two bars held together by clamping nuts and screws, said screws passing through said bars and through said parallel slots of the triangular plate, portions of each of the outer edges of said triangular plate being marked with measurement scales.

In testimony whereof, I have hereunto set my hand and seal at the city of Los Angeles, in the county of Los Angeles, and State of California, in the presence of two subscribing witnesses.

JAMES SHERRY. [L. s.]

Witnesses:

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