H. A. PAQUETTE.

LUMBER RULE.

APPLICATION FILED APR. 10, 1911.

1,044,811.

Patented Nov. 19, 1912.

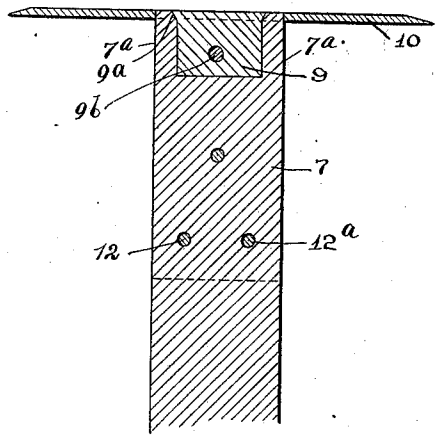

Fig 1

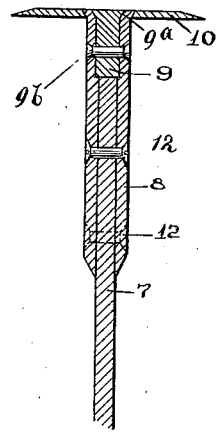

Fig. 2.

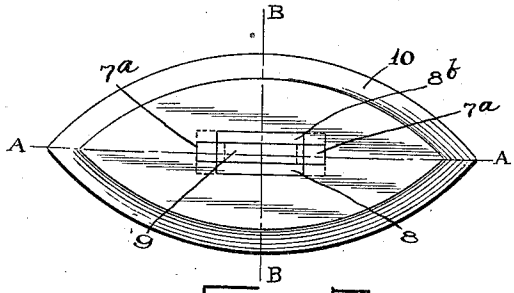

Fig. 3.

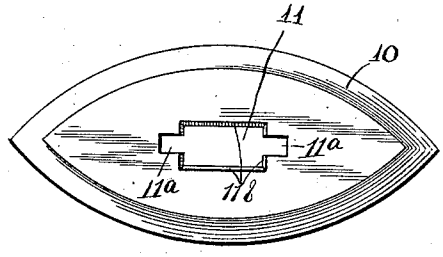

Fig. 4.

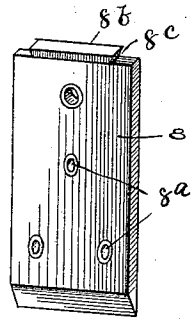

Fig. 5.

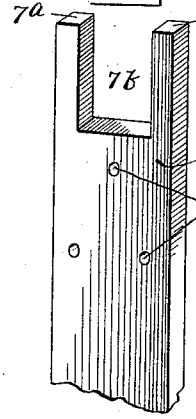

Fig. 6.

Witnesses

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UNITED STATES PATENT OFFICE.

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LUMBER-RULE.

1,044,811. Specification of Letters Patent. Patented Nov. 19, 1912.

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To all whom it may concern:

Be it known that I, HERMAN A. PAQUETTE, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Lumber-Rules, of which the following is a specification.

My invention relates to improvements in lumber rules or board measuring devices and the improvements which form the subject matter of this application relate particularly to the manner of connecting the head with the outer end of the rule.

In lumber rules as they have been made for many years the end of the stick has been driven into a socket to which the pointed head has been secured, and rivets are then passed through suitable holes in the socket side plates and the end of the rule. The socket side plates do not cover or protect the edges of the rule, hence the hickory sticks from which these rules are made split at their ends, and the line of severance once started extends along the rule until the latter soon becomes useless or breaks off from the resulting weakness. The structure thus described is found in U. S. Patent No. 272,279, issued February 13, 1883, to E. T. Lufkin.

The especial object of my improvements is to secure the extreme end of the rule stick to the head that a split cannot start, and thus prolong the usefulness of the article.

While the structural change required to overcome the weak point in the present rules is not extensive, its effect is great and the utility flowing therefrom is considerable, as will be readily appreciated by those skilled in the art to which my invention relates.

In the accompanying drawing:—Figure 1 is a sectional view of the head-end of a lumber rule constructed according to my invention, on the line A—A of Fig. 3; Fig. 2 is a sectional view on the line B—B of Fig. 3; Fig. 3 is a top-plan view of the head with the stick in place; Fig. 4 is a plan view of the head alone; Fig. 5 is a perspective view of one of the side plates; Fig. 6 is a perspective view of the end of the stick before the head is attached.

Referring to the details of the drawing, 7 represents a portion of a lumber-rule stick the end of which is cut away to form a rectangular socket 7^b with a tongue 7^a, extending upwardly on each side thereof.

8, 8, represent flat metal plates provided with countersunk rivet holes 8^a and notched at the corners of their upper ends, as at 8^c, to form a tongue 8^b. These plates are arranged on opposite sides of the stick 7 and are rigidly secured thereto by rivets 12 which pass through the holes 8^a and through corresponding holes 12^a in the stick.

9 represnts a metal wedge of suitable size to enter the socket 7^b fitting it with sufficient lateral pressure to bind upon the tongues 7^a as indicated in Fig. 1. The opposite sides of the body of the wedge are parallel, the wedging portion being at the upper end or head which is formed with beveled overhanging margins, as shown at 9^a.

10 indicates the head-plate which is preferably made in the oval form shown, and has punched in its center a rectangular slot 11 about twice as long as it is wide, and extended at its ends by smaller slots 11^a which communicate with the main slot 11. The sides of the slot 11 are inclined or flared toward the top surface of the plate, as indicated at 11^b, to correspond with the beveled margins 9^a of the head of the wedge.

After the side-plates 8 are riveted to the stick 7, the head-plate 10 is placed over the end of the stick so that the tongues 7^a enter the slots 11^a, and the tongues 8^b enter the main slot 11 with the shoulders left by the notches 8^c resting against the under side of the plate 10, as indicated by dotted lines in Fig. 3. The wedge 9 is then inserted in the socket 7^b and driven in until its outer end is flush with the edges of the tongues 7^a and 8^b thus clamping the ends of the tongues 7^a between the edges of the wedge and the beveled edges of the slot 11, the four corners of the wedge engaging the angles formed at the junction of the slots 11^a with the slot 11. When the wedge is driven into its seat the beveled side of its head will force the tongues 8^b of the plates outwardly, and after the wedge is driven home the ends of the tongues 8^b are wedged or upset by hammering until they completely fill the space between the wedge and the sides of the slot 11, thus forming a dovetailed joint solidly interlocking the members, and when thus assembled the wedge and plates are secured

together by a rivet 9^b, thereby preventing the wedge from coming out and the head from becoming disconnected from the stick.

Having thus described my invention, what I claim is:—

1. The combination with a stick having a socket formed by tongues on the sides of the socket, plates secured to opposite sides of said stick and forming closures for the sides of said socket, a head provided with a slot adapted to receive the ends of said plates and the ends of said tongues, and a wedge driven through said slot and into said socket so as to clamp the ends of the tongues on the stick to the head, substantially in the manner set forth.

2. The combination with a stick having a rectangular socket formed by parallel tongues on opposite sides of the socket, plates riveted to opposite sides of said stick said plates forming closures for said socket and having tongues on one end, a head provided with a central slot and smaller slots communicating with the central slot, said slots adapted to receive respectively the tongues on the plates and those on the stick, and a wedge driven into said socket and adapted to clamp the ends of the tongues on the stick to the head, substantially as set forth.

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

HERMAN A. PAQUETTE.

Witnesses:

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H. DELOS HIGMAN.