Feb. 13, 1923.

1,445,546

O. J. OLSON

TOOL

Filed Nov. 5, 1920

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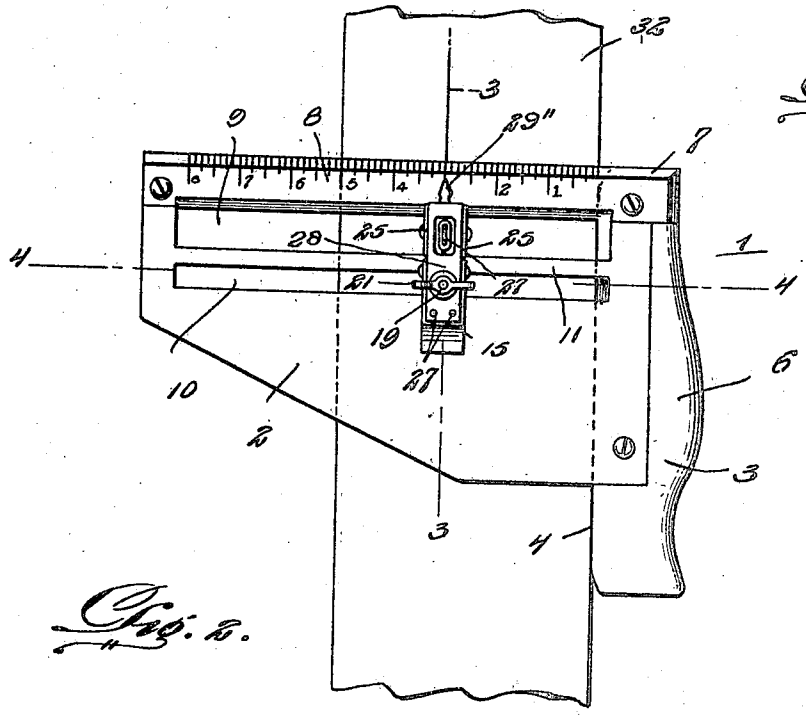


Fig. 1.

Fig. 2.

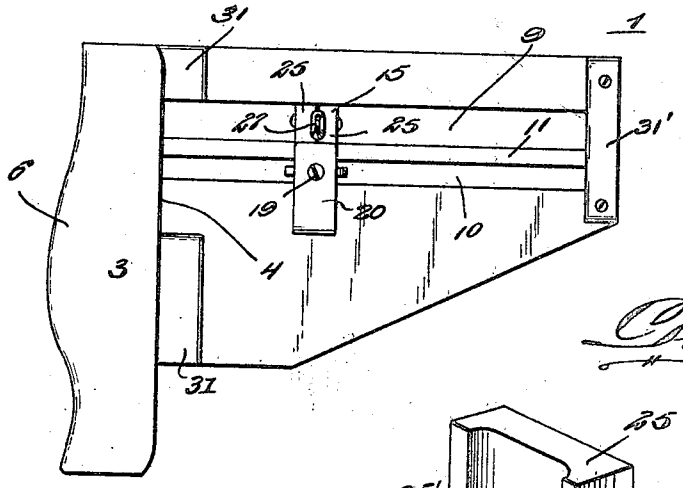
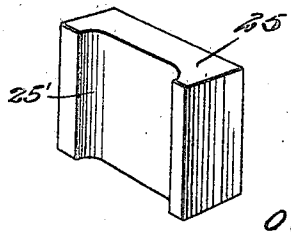


Fig. 3.



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Fig. 3.

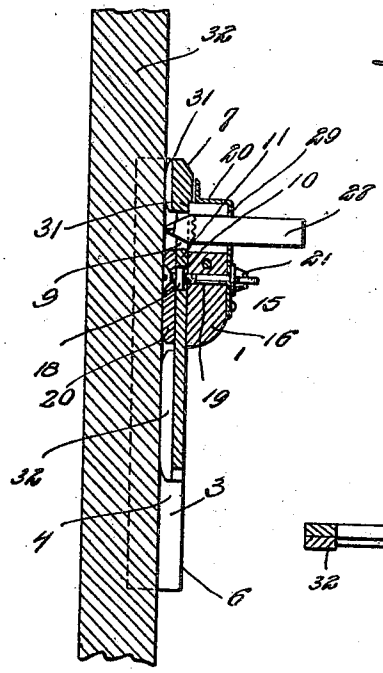


Fig. 4.

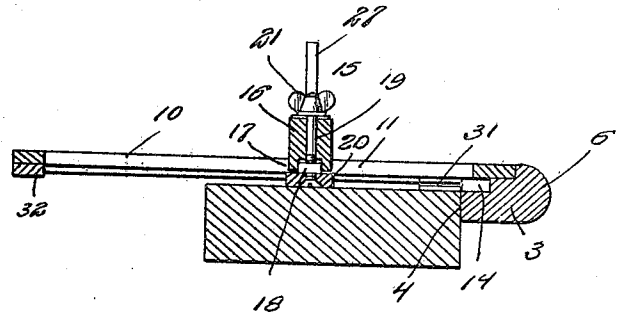


Fig. 5.

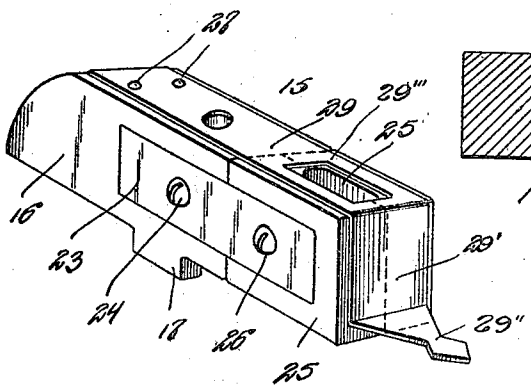
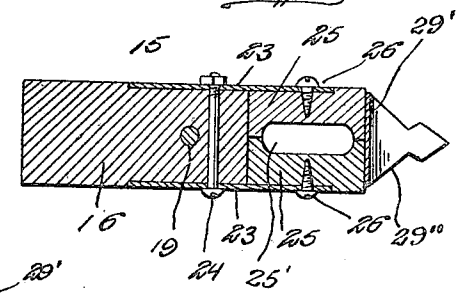


Fig. 6.



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Patented Feb. 13, 1923. 1,445,546

UNITED STATES PATENT OFFICE.

OLE J. OLSON, OF HARDIN, MONTANA.

TOOL.

Application filed November 5, 1920. Serial No. 422,034.

To all whom it may concern:

Be it known that I, OLE J. OLSON, a citizen of Norway, residing at Hardin, in the county of Big Horn and State of Montana, have invented new and useful Improvements in Tools, of which the following is a specification.

My present invention has reference to a carpenter's tool, and the same is in the nature of a combined rule and scriber.

In carrying out the invention it is my purpose to provide a slotted body which has graduations indicating inches and fractions thereof, at one of the edges of the body, said body having at one of its ends a handle portion, whose inner edge is straight, arranged at a right angle with respect to the body, and depending therebelow, while in the slot of the body there is a slidable carriage having novel means for engaging a stylus or pencil so that the point of the same will be projected through the slot, whereby a cutting mark may be indicated on a board when the device is drawn over the said board, the inner straight edge of the handle portion serving as a guide which engages one of the edges of the board, and the carriage having an indicating finger arranged directly over the scale, so that the carriage may be positioned on the body to arrange the stylus in a proper position to mark the board at the width of the slat to be cut therefrom.

It is also my purpose to produce a carpenter's tool which includes a measuring rule, a gauge, and a scriber, and which is of a simple construction that may be cheaply manufactured and marketed, and which will be found thoroughly efficient for the purpose for which it is devised.

The foregoing, and other objects which will appear as the nature of the invention is better understood, may be accomplished by a construction, combination and operative arrangement of parts, such as is disclosed by the drawings, which accompany and which form part of this application.

In the drawings:—

Figure 1 is a plan view showing my tool on a board to be measured or scribed.

Figure 2 is a bottom plan view of the improvement.

Figure 3 is a sectional view on the line 3—3 of Figure 1.

Figure 4 is a sectional view on the line 4—4 of Figure 1.

Figure 5 is a perspective view of the carriage which carries the pencil or stylus.

Figure 6 is an approximately central horizontal sectional view therethrough.

Figure 7 is a perspective view of one of the clamping blocks.

Referring now to the drawings in detail, the improvement is broadly indicated by the numeral 1. The improvement includes a flat body member in the nature of a blade 2 that has at one of its ends a depending enlargement which provides a head 3. The inner face of the head 3 is straight and is arranged at a right angle with respect to the outer and straight edge of the blade 2. The inner straight edge 4 of the head is designed to be arranged against the outer edge of a board to be measured or scribed. The outer edge of the head 3 is preferably rounded, and the same is also preferably centrally enlarged to form the same with a handle portion 6.

The outer straight edge 7 of the blade has its upper corner beveled and the said beveled portion as well as the straight portion of the blade directly inward thereof has scribed thereon an inch scale 8. The body of the blade is comparatively wide and inward of its said straight edge 7 has spaced longitudinal slots 9 and 10 respectively, the bridging strip between the slots being indicated by the numeral 11.

The carriage member of the improvement is indicated by the numeral 15. The body of the carriage is in the nature of a block 16 that has its under face provided with a depending lug 17. The lug is of a length to be snugly received in the slot 10, and to contact with the longitudinal walls provided by the said slot. The lug has its under face depressed to provide a pocket, and the said lug has a bolt opening which enters the said pocket. The numeral 20 indicates a binding strip for the carriage. Through this strip there passes a bolt 19, the head of the bolt being received in a depression in the under face of the strip 20. On the bolt there is screwed a nut 18 that is received in the referred to pocket in the lug 17 of the carriage, the said bolt passing through the mentioned bolt opening in the said carriage and has its outer end engaged by a winged nut 21.

On its upper face, the block-like member 16 of the carriage has secured thereto by means 27 a spring strip 29. This strip pro-

jects a suitable distance beyond the front end of the block, having a downturned portion 29′ terminating in an outwardly directed finger 29″. The finger 29″ is in the nature of a pointer and is designed to be arranged over the scale on the straight edge 7 of the blade. The binding strip 20, as disclosed in Figure 2 of the drawings is in contacting engagement with the under face of the strip 11 and with the body of the blade inward of the slot 10, and it will be apparent that by adjusting the winged nut 21, a frictional engagement will be exerted between the strip and the under face of the blade, thus holding the carriage adjusted on the blade.

Let in the sides of the block 16, and secured thereto by means 24 are spring plates 23. These plates project beyond the front end of the block and are also let in the sides of cooperating jaw members 25, the said plates being secured to the respective jaws by means 26. The jaw members have their inner faces provided with registering grooves 25′, and the spring plate 29 is provided with a substantially rectangular opening 29‴ which is arranged over the registering grooves 25′ and which is of a greater length and width than the grooves. Designed to be passed through the opening 29‴ and to be received in the grooved jaws 25 is a carpenter's pencil 27. The spring influenced jaws 25 are arranged directly over the slot 9, so that the pointed end of the pencil or scriber 27 will pass through the said slot to permit of a line being scribed on a board 32, when the head 6 is arranged in contacting engagement with one of the jaws of the said board and the device is moved longitudinally over the board. The particular manner in which the carriage is connected to the blade effectively holds the same against twisting or accidental longitudinal movement. By adjusting the thumb nut 21 the carriage can be readily slid over the blade and locked thereon when the finger 29″ is brought opposite a desired scale mark on the straight edge 7, so that measurements can be thus made and recorded.

As the finger 29″ projects a slight distance below the under face of the blade, I have formed the said under face of the said blade at its juncture with the head 3, with depending enlargements 31 respectively and the outer face of the blade with a transversely arranged strip 31′, which is of a thickness corresponding to the enlargements 31. The elements 31 and 31′ are of a greater thickness than the finger 29″, so that when the blade is arranged upon a board as wide, or wider than the distance between the head and the outer edge of the blade, the finger 29″ will be held out of contact with such board. As a matter of fact, even when the device is arranged upon a board of a width less than that of the blade, as illustrated in Figure 1, the straight under faces of the enlargements 31 will sustain the under face of the blade away from contact with the outer face of the board, and consequently hold the binding finger 29″ for the carriage elevated above the board.

What I claim is:—

1. In a device for the purpose set forth, a blade having a right angularly arranged head depending from one end thereof, said blade having an outer straight edge which is graduated to provide an inch scale, said blade having spaced longitudinal slots therethrough, a carriage having a lug received in one of the slots and in contacting engagement with the longitudinal walls provided thereby, a strip on the under face of the lug in contacting engagement with the under face of the blade, means secured to the strip and passing through the body of the carriage, adjustable means on said means in contact with the outer face of the carriage, cooperating spring influenced grooved jaws carried by the carriage and having the grooves therein disposed over the second slot in the blade, said jaws designed to receive a scriber therebetween to hold the same thereon, and a pointer carried by the carriage and arranged over the scale marks on the straight edge of the blade.

2. In a device for the purpose set forth, a blade having a right angularly arranged head at and depending from one end thereof, said blade having its outer edge graduated to provide an inch scale and having spaced longitudinal slots inward of the scale, a carriage having a lug which is received in one of the slots, a strip on the under face of the carriage in contacting engagement with the carriage and with the wall between the slots, connecting means between the strip and carriage, adjusting means on the outer face of the carriage engaging the connecting means, spring plates on the sides of the carriage projecting outward therefrom, cooperating grooved jaws secured to the plates and arranged over the second slot in the blade, a spring plate secured to the upper face of the blade, receiving therethrough the connecting means for the strip and engaged by the adjusting means therefor, said last mentioned spring plate having a slot in a line with the grooves in the jaws and having its outer end bent at a downward angle and extended to provide a pointer which is arranged over the scale marks of the blade, and said blade having its inner and its outer ends provided with depending enlargements, as and for the purpose set forth.

In testimony whereof I affix my signature.

OLE J. OLSON.