(No Model.)

W. H. NELSON.

SAW SET.

No. 378,017. Patented Feb. 14, 1888.

Fig. 1.

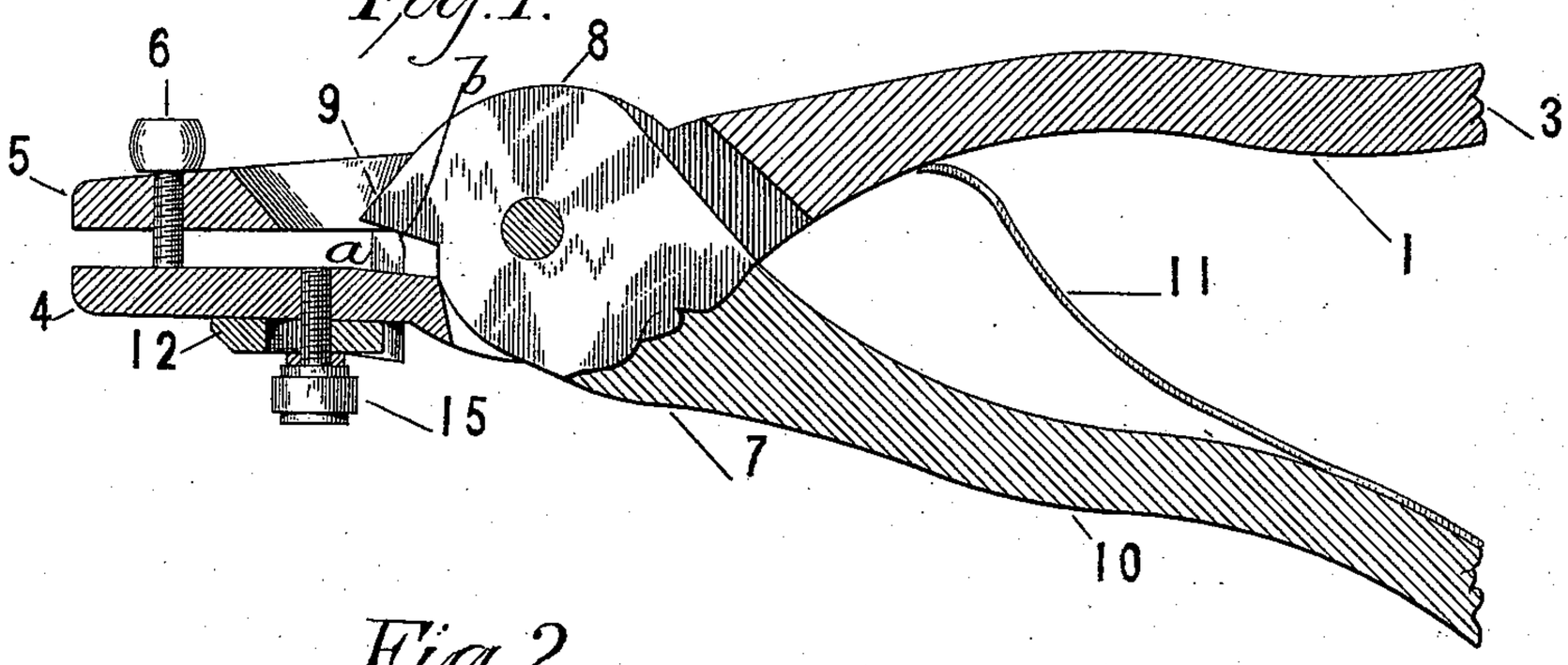


Fig. 2.

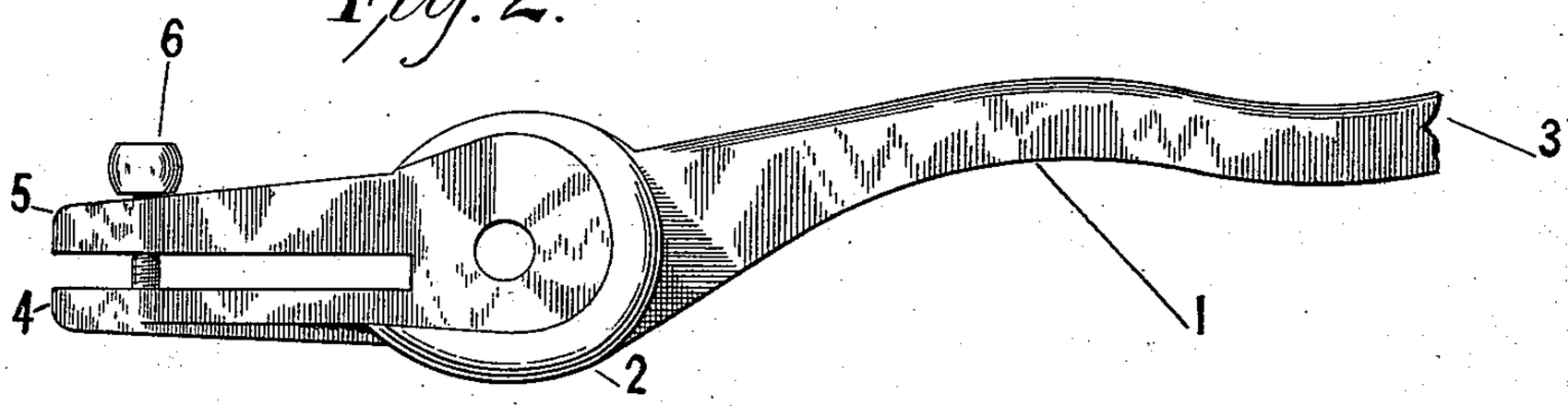


Fig. 3.

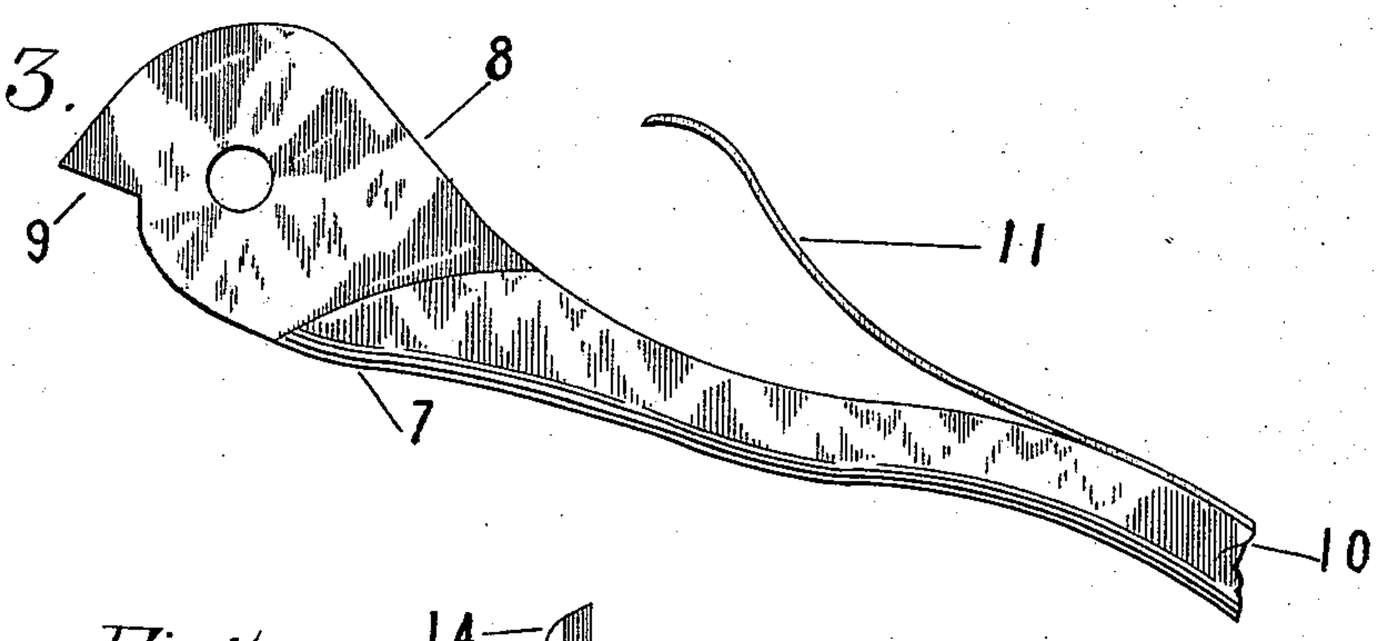
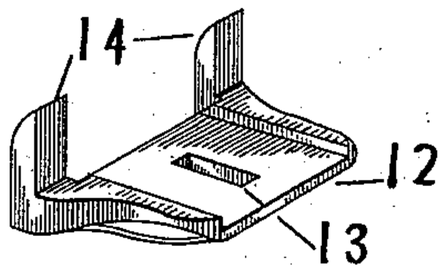


Fig. 4.



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UNITED STATES PATENT OFFICE.

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SAW-SET.

SPECIFICATION forming part of Letters Patent No. 378,017, dated February 14, 1888.

Application filed December 22, 1886. Serial No. 222,255. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. NELSON, of Washington, in the District of Columbia, have invented new and useful Improvements in Saw-Sets; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon.

This invention is a saw-set having certain specific peculiarities of construction, fully described hereinafter, by means of which a few simple parts are combined in such manner as to form an effective tool.

In the drawings, Figure 1 represents a side view of the saw-set complete; Fig. 2, a side view of the body portion detached; Fig. 3, a side view of the saw-set portion detached, and Fig. 4 a perspective view of the gage-plate.

To enable others skilled in the art to make and use my improved saw-set, I will proceed to describe fully the construction of the same and the manner of its operation.

1 represents the body portion of the tool, having the circular pivot portion 2, the handle portion 3, extending from the pivot portion in one direction, and the supporting-arms 4 5, extending from the circular pivot portion 2 in the opposite direction. The lower supporting-arm, it will be observed, is provided with an inclined bearing-surface, *a*, as shown in Fig. 1 of the drawings.

6 represents an adjusting-screw, by means of which the saw-blade is properly held in the receiving-slot between the supporting-arms 4 and 5.

7 represents the saw-set portion, having the circular pivot portion 8 at one end, with the setting-tongue 9 projecting therefrom, which is provided with a bearing-surface, *b*, corresponding with the bearing-surface *a* of the lower arm, 10, and the handle portion extending from the opposite side of the circular portion, as shown.

11 represents a spring attached to the handle portion of the saw-set portion, as shown.

12 represents a gage-plate having a slot, 13, and the bearing-fingers 14, as shown.

15 represents an adjusting-screw held in the lower arm of the body portion, as shown.

The operation is substantially as follows: The gage-plate having been properly adjusted according to the length of the tooth that it is desired to set, the saw is inserted between the arms 4 5 of the body portion until its teeth strike the bearing-fingers 14. The screw 6 is adjusted to give the proper support to the saw-blade without interfering with its capacity for longitudinal movement. The saw-set portion is then actuated to cause the tongue 9 to force the tooth of the saw down upon the inclined bearing-surface *a*, to act upon the tooth of the saw and set the same, in the manner well understood.

It will be observed that the supporting-arms of the body portion resemble in form a duck's bill.

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

The saw-set described, consisting of the body portion 1, having the supporting-arms 4 and 5, the lower supporting-arm having the inclined bearing-surface *a*, the saw-set portion 7, having the tongue 9, provided with the bearing-surface *b*, and the gage-plate having the slot 13, bearing-fingers 14, and set-screw 15, as set forth.

This specification signed and witnessed this 13th day of December, 1886.

WM. H. NELSON.

Witnesses:

JULIAN W. HOLT,

CHARLES BENDHEIM.