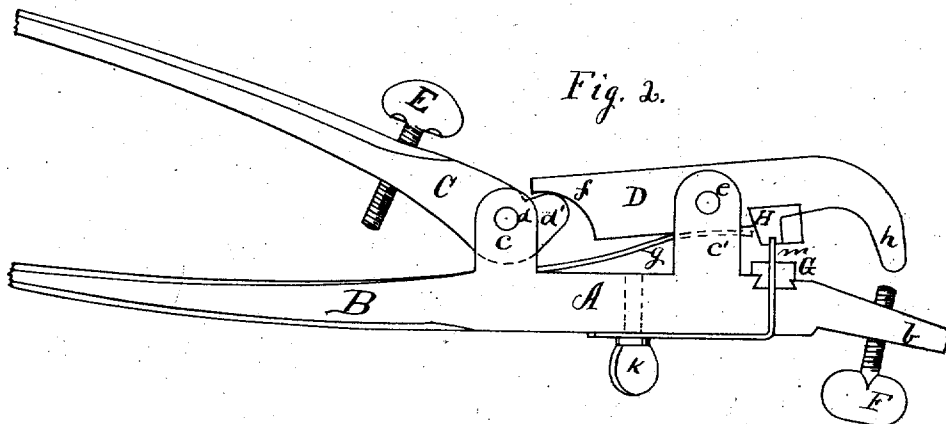
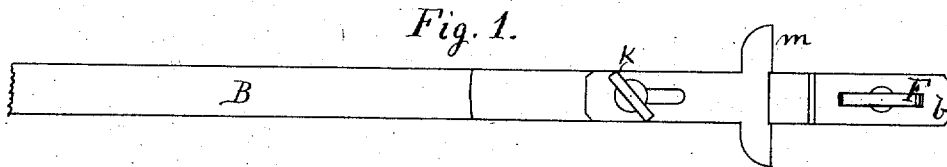


O. NEWTON.
Saw-Sets.

No. 6,051.

Reissued Sept. 15, 1874.



Witnesses
Geo. A. Gowdy
Alfred H. West

Olive Newton, Inventor
Assignee.
William Nash
By James Shepard atty.

UNITED STATES PATENT OFFICE.

OLIVER NEWTON, OF WATERTOWN, NEW YORK, ASSIGNOR TO WILLIAM NASH, OF NEW BRITAIN, CONNECTICUT.

IMPROVEMENT IN SAW-SETS.

Specification forming part of Letters Patent No. 39,323, dated July 21, 1863; reissue No. 6,051, dated September 15, 1874; application filed August 3, 1874.

To all whom it may concern:

Be it known that OLIVER NEWTON, of Watertown, in the county of Jefferson and State of New York, has invented a new and Improved Saw-Set; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is an edge view of a saw-set which embodies the invention, and Fig. 2 a side view, of the same.

Similar letters of reference indicate corresponding parts in the two figures.

The object of this invention is to obtain a saw-set of simple construction, which may be adapted for setting the teeth of either large or small saws, and at the same time have a powerful purchase, so as to be capable of being readily operated, and enable even unskillful hands to set a saw in a perfect manner.

The invention consists of the construction, arrangement, and combination of certain devices, as hereinafter described.

A represents what may be termed a frame provided with an inclined end, *b*, two pair of lugs, *c c'*, and the handle B. In the pair of lugs *c* nearest the handle is a lever, C, secured thereto by means of the fulcrum-pin *d*, passing through the lugs *c*. A short lever, D, is hung in the lugs *c'* upon fulcrum-pin *e*, arranged with its end *f* overlapping the short end *d'* of the lever C, as shown in Fig. 2. A spring, *g*, is attached to the frame A in such relation to the levers D and C as to lift them, as shown in the drawing. In front of the lugs *c'* the lever D and frame A are provided upon their inner faces with jaws or dies H G se-

cured thereto in any proper manner. Upon each side of the die G is a gage, *m*, which is secured to the frame A, and made adjustable thereon by means of a set-screw, *k*, which passes through a longitudinal slot in the body of said gage into the frame. A set-screw, F, passes through the part *b* at a point opposite the extension *h* of the lever D.

When the implement is in use, the saw-blade rests or bears against the end of the set-screw F, the tooth to be acted upon being between the two dies, with the points of the adjoining teeth bearing against the front of the gage *m*. The handles B C are then pressed together, when the faces of the dies act upon the saw-tooth, to give it the desired set, the degree of set being governed by adjusting the set-screw F, upon which the saw-blade rests, so that it may hold the blade at a greater or lesser angle to the meeting-faces of the dies. The other teeth are acted upon in like manner until the saw is set.

By the arrangement of the lever D and handle C, as shown, a powerful purchase is obtained. The set-screw E prevents the teeth being broken by an unskillful hand, a contingency of frequent occurrence in using the saw-sets in general use.

I claim as the invention of the above said NEWTON—

The rocking-lever D, carrying the die H, in combination with the lever C and the frame A, provided with the die G and handle B, as and for the purpose set forth.

WILLIAM NASH, Assignee.

Witnesses:

ELLEN NASH,
JAMES SHEPARD.