

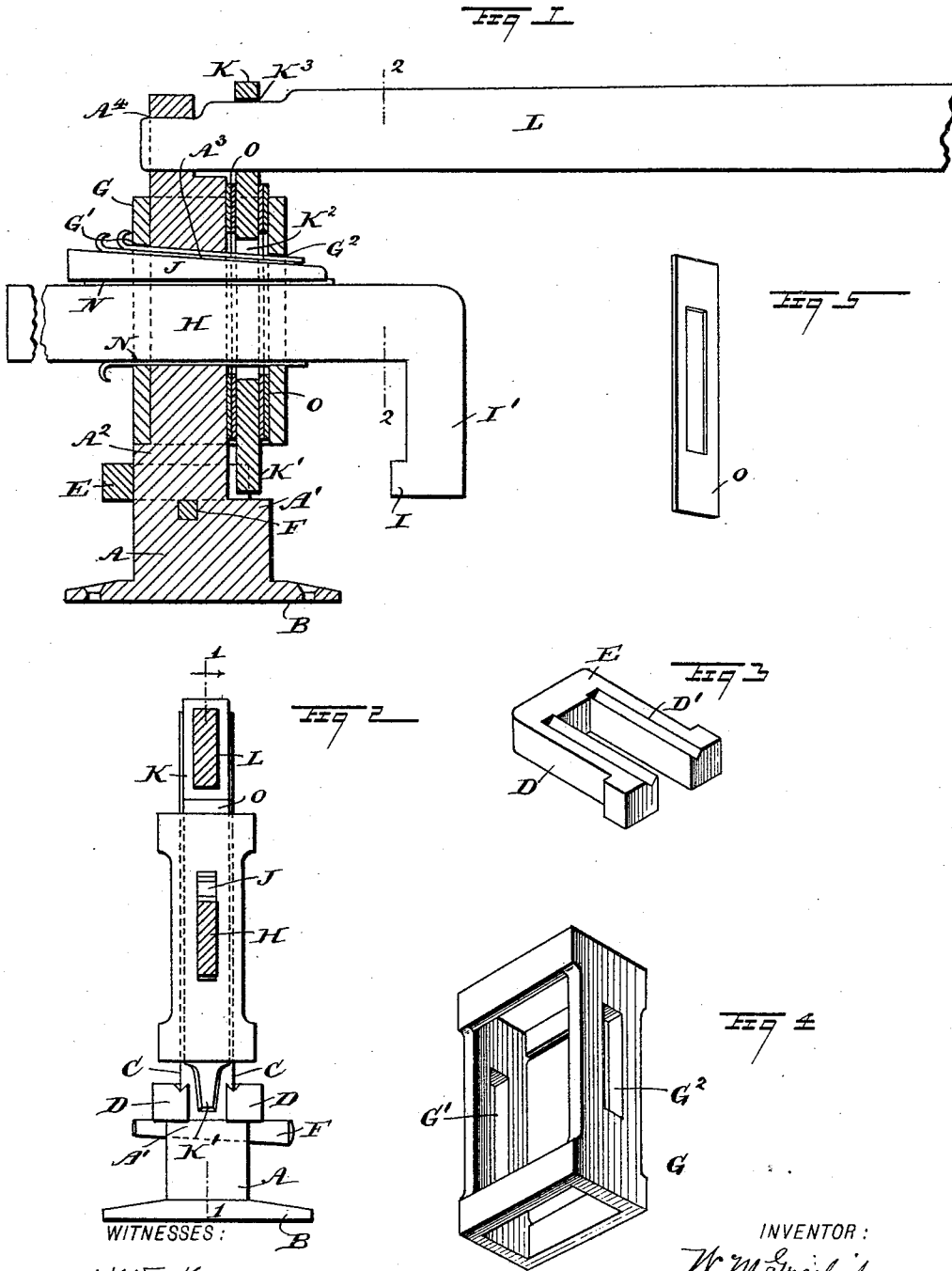
(No Model.)

2 Sheets—Sheet 1.

W. M. GREILICK.
SAW SET.

No. 480,581.

Patented Aug. 9, 1892.



Witnesses:
A. Walker
C. Sedgwick

INVENTOR:
W. M. Greilick
BY *Munn & Co*
ATTORNEYS

(No Model.)

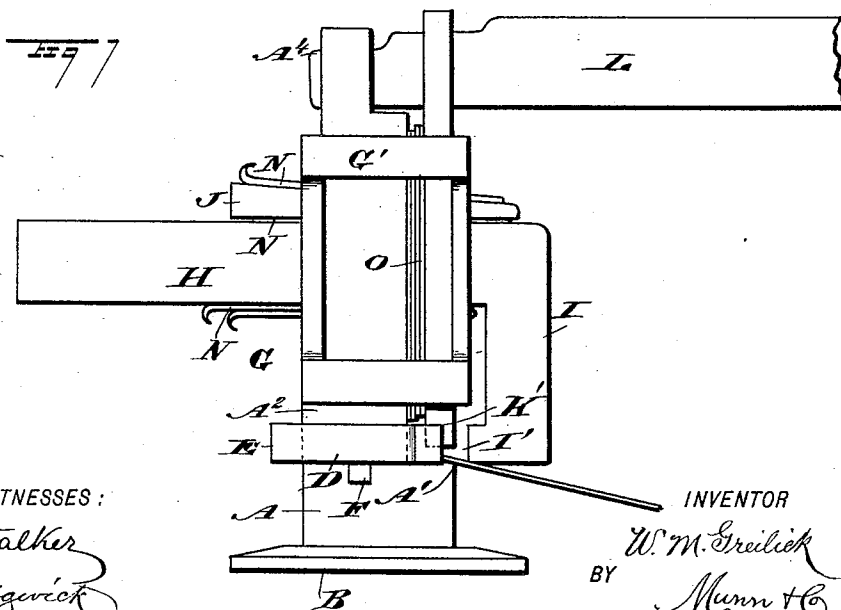
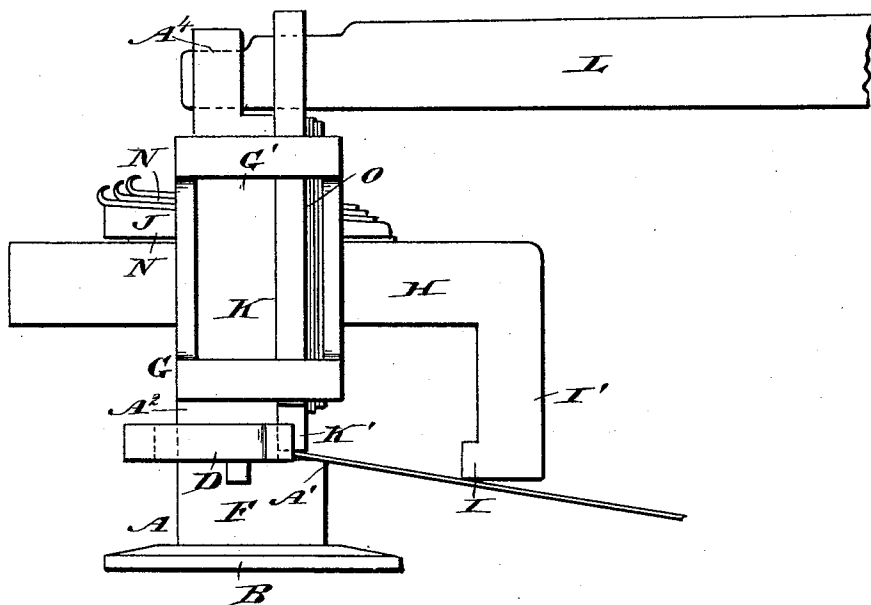
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Fig 6



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM M. GREILICK, OF SUTTON'S BAY, MICHIGAN.

SAW-SET.

SPECIFICATION forming part of Letters Patent No. 480,581, dated August 9, 1892.

Application filed December 1, 1891. Serial No. 413,698. (No model.)

To all whom it may concern.

Be it known that I, WILLIAM M. GREILICK, of Sutton's Bay, in the county of Leelanaw and State of Michigan, have invented a new and Improved Saw-Set, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved saw-set, which is simple and durable in construction and very effective in operation.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional side elevation of the improvement on the line 1 1 in Fig. 2. Fig. 2 is a transverse section of the same on the line 2 2 of Fig. 1. Fig. 3 is a transverse view of the gage. Fig. 4 is a like view of the sleeve, and Fig. 5 is a similar view of one of the plates for adjusting the punch. Fig. 6 is a side elevation of the improvement as arranged for saws having hard-tempered teeth, and Fig. 7 is a similar view of the same as arranged for very narrow saw-blades.

The improved saw-set is provided with a suitably-constructed frame A, preferably made in the shape of a standard or block formed with a base B for attachment to a bench or other device. A short distance above the base B on the frame A is formed integral with the frame A the set-block A', upon which extend the front ends of the arm D D', mounted to slide transversely on dovetails C, formed in the sides of the frame A. The arms D D' are connected with a cross-arm E and form the gage for the saw-set, the front ends of the arms extending a suitable distance over the set-block A', according to the size of the teeth under treatment. The gage is fastened in place on the frame A by means of a transversely-arranged key F, held in the frame A and adapted to engage the under side of the arms D D', so as to lock the latter in place on the dovetails C. On the frame A a short distance above the rear cross-bar E of the gage is formed an offset A², on which rests the rear end of a sleeve G, fitted over the up-

per part of the frame A and provided with two longitudinally-extending apertures G' and G², formed in the rear and front side of the sleeve, as is plainly shown in Figs. 1 and 4. Registering with the openings G' and G² is an opening A³ in the frame A, and through the registering openings G', A³, and G² extends an arm H, provided on its front end with a downwardly-extending arm I', formed with an inwardly-extending lug I, arranged relative to the set-block A', according to the width of the saw under treatment, it being understood that the arm H is held adjustable longitudinally, and is adapted to be secured in place by a key J, passing through the registering openings, as is plainly shown in Fig. 1.

In the sleeve G is fitted to slide vertically the punch K, formed at its lower end with a V-shaped extension K', adapted to pass between the front ends of the gage-arms D D', as is plainly shown in Figs. 1 and 2. The punch K is provided with an elongated aperture K², through which passes the arm H and the key J, the aperture being sufficiently long to permit an up-and-down movement of the punch. The upper end of the punch is provided with an opening K³, through which passes the lever L, having its rear end engaging an aperture A⁴, formed in the top of the frame A. The aperture A⁴ is the fulcrum for the lever which, when moved up and down, raises and lowers the punch K, so that the V-shaped extension K' of the same engages or disengages the tooth of the saw on the set-block A'.

In order to adjust the lug I vertically, keys or plates N are employed, adapted to be arranged under the arm H to raise the latter any desired degree, according to the nature of the saw under treatment, or the said plates are withdrawn from underneath the arm H, so that the latter rests with its bottom on the bottom of the openings G² in the sleeve G, and consequently the lug I is lowered accordingly. In the latter case the plates N are placed on top of the key J to fill out the opening G² and to permit of forcing the key J home to fasten the arm H in place, as will be readily understood by reference to Figs. 1, 6, and 7. Similar adjusting-plates O are used vertically in the sleeve G on one or both sides of the punch, so as to bring the latter into the proper place

with relation to the teeth of the saw to be treated.

It will be seen by reference to Fig. 1 that the plates O are arranged on both sides of the punch K, thus holding the latter about midway on the set-block A'. As illustrated in Fig. 6, the plates O are placed in front of the punch, thus holding the latter in an innermost position and its punch end K' away from the front edge of the set-block. By placing the plates O between the frame A and the rear face of the punch K, as shown in Fig. 7, the punch end K' is moved to the front close to the edge of the set-block. Thus it will be seen that by adjusting the plates N the lug I can be raised or lowered relative to the set-block A', and in a like manner the punch K can be set forward or backward on the set-block A' by adjusting the plates O. As the same number of plates N and O are always used, the arm H and its lug I, as well as the punch K, are held securely in place on the sleeve G and frame A.

It will be seen that by pressing on the hand-lever L the punch K is moved downward so as to press the V-shaped extension K' upon the tooth resting on top of the set-block A'.

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

1. In a saw-set, the combination, with a frame formed with a set-block, of a sleeve held on the said frame, an arm held in the said sleeve and provided with a lug arranged opposite the said set-block, plates adapted to engage the said arm and sleeve to raise or lower the said arm, and a key for locking the said arm in place, substantially as shown and described.

2. In a saw-set, the combination, with a frame formed with a set-block and a gage held horizontally adjustable on the said frame, of a sleeve seated on the said frame, a horizontal arm held in the said sleeve and provided with a lug arranged opposite the said set-block, a key and plates for adjusting the said arm vertically, a punch fitted to slide vertically in the said sleeve above the said set-block, and plates for adjusting the said punch laterally, substantially as shown and described.

WILLIAM M. GREILICK.

Witnesses:

WILLIAM LEOS,
JOHN OTT.