

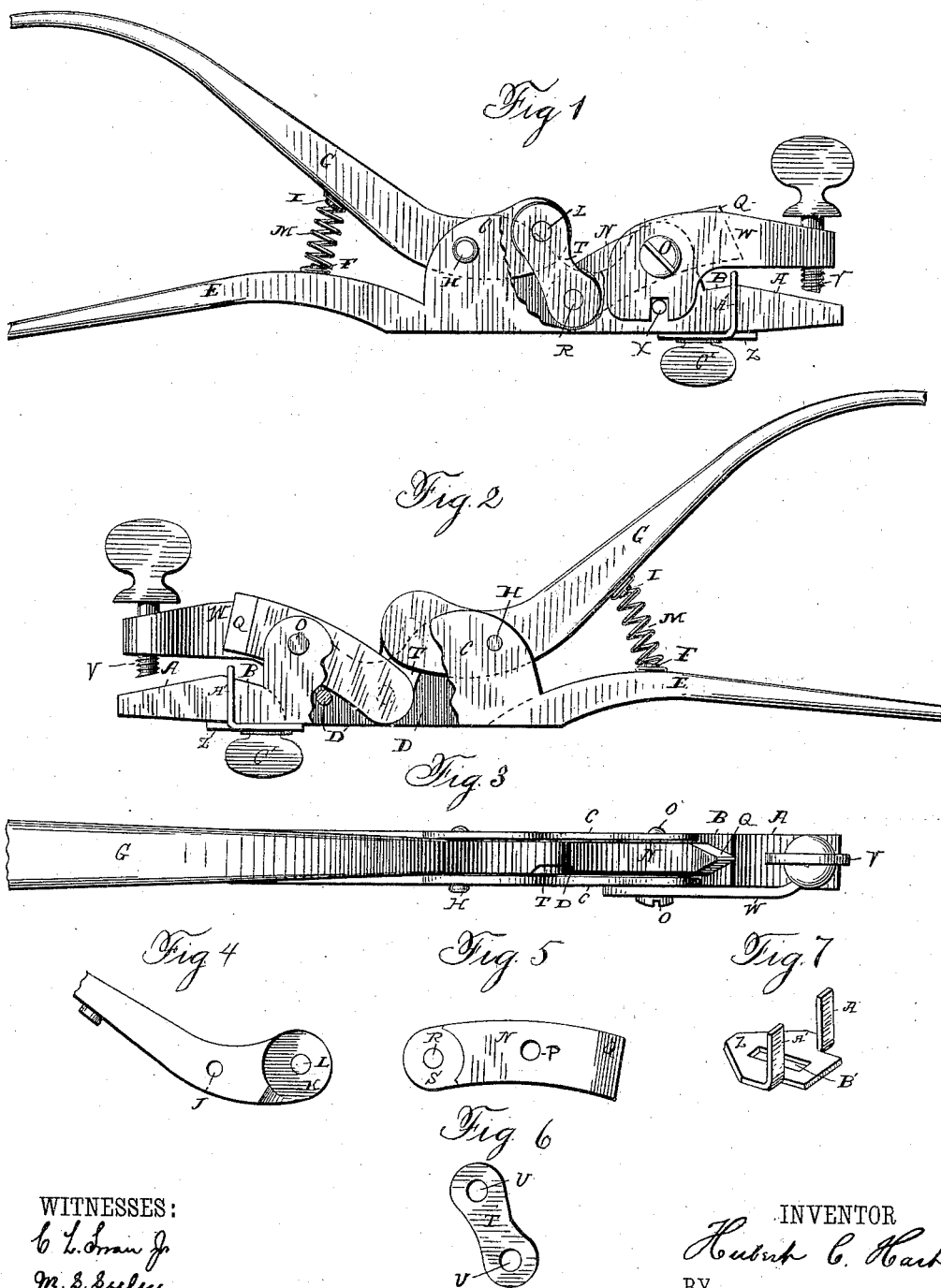
(No Model.)

H. C. HART.

SAW SETTING DEVICE.

No. 344,655.

Patented June 29, 1886.



WITNESSES:

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SAW-SETTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 344,655, dated June 29, 1886.

Application filed March 6, 1886. Serial No. 194,332. (No model.)

To all whom it may concern:

Be it known that I, HUBERT C. HART, residing at Unionville, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Saw-Sets; and I do declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in saw-sets, the object being to produce a simple, durable, and efficient tool.

With these ends in view my invention consists in certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation of my improved tool with a portion of the frame or body broken away. Fig. 2 is a similar view of the other side of the tool. Fig. 3 is a plan view of the tool. Fig. 4 is a detached broken view in side elevation of the operating-lever. Fig. 5 is a detached view in side elevation of the set. Fig. 6 is a similar view of the link, and Fig. 7 is a detached perspective view of the guide.

The frame or body of the tool includes the outwardly-inclined bearing-face A, the inwardly-inclined working-face B, two parallel flanges, C C, an opening, D, located between the flanges, and extending vertically through the frame, and a handle, E, provided upon its inner face with a stud, F, as shown. The operating-lever G extends rearwardly over the said handle of the frame, and is pivoted between the rear ends of the flanges thereof upon a pivot, H, and provided upon its inner face with a stud, I, located opposite to the stud F aforesaid, and with an upturned forward end perforated at J to receive the pivot H, countersunk at K, and furnished with a pin, L, located in the center of such countersunk portion. A spring, M, interposed between the handle and lever, and held in place by the studs F and I, normally holds the lever in operative position, and restores it to such position when in using the tool pressure is removed from it. The set N is slightly curved in the direction of its length, and pivoted between the forward ends of the flanges of the frame upon a screw, O, and provided with a

perforation, P, to receive such screw with a beveled forward end, Q, which works upon the saw-teeth and extends over the rearwardly-inclined surface of the frame, and at its rear end with a pin, R, located in the center of a countersink, S, the said rear end of the set being located below and extending well toward or under the forward end of the operating-lever, as shown. The said contiguous ends of the lever and set are united by a link, T, provided at its opposite ends with holes U U, receiving the pins L and R of the lever and set, into the countersunk portions K and S of which the opposite ends of the link enter. A thumb-screw, V, for gaging the work, is carried over the outwardly-inclined bearing-face A of the frame by a curved arm, W, secured at its rear end to one of the flanges of the frame by the screw O and a pin, X, or other suitable means. A guide consisting of a plate, Z, provided with two upright arms, A' A', and with an elongated slot, B', is adjustably secured to the under face of the frame by a thumb-screw, C', passing through the slot B' in the plate. A pin, D', located in the frame and beneath the set, acts as a stop for preventing the spring from throwing the parts out of positions convenient for their operation.

By constructing and arranging the operating-lever and the set as shown and described, and by uniting them by a link, the power applied to the set becomes a lifting-power which is highly effective, and which imposes so little strain upon the parts that their breakage is reduced to the minimum, whereas under old forms of saw-sets, particularly in those in which the set is pried up, as it were, the breaking of the parts is a matter of frequent occurrence. The location of the spring between the lever and handle secures a freer and more positive action than can be had when it is located within the frame and under the set. The thumb-screw V and the thumb-screw C' are set to respectively gage the set to be given to the teeth and to hold the guide in place after adjusting the same, as required.

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

1. In a saw-set, the combination, with an operating-lever and a set, the rear end of the

latter being located below and extending well toward or under the forward end of the former, of a link uniting the said contiguous ends of the lever and set, substantially as set forth.

5 2. In a saw-set, the combination, with a frame having parallel flanges and a handle, of an operating-lever pivoted between the rear ends of such flanges, a saw-set pivoted between the flanges, and having its rear end located below and extending well toward or
10 under the forward end of the lever, a link

uniting the said contiguous ends of the lever and set, and a spring interposed between the lever and handle, substantially as set forth.

In testimony whereof I have signed this
specification in the presence of two subscri- 15
ing witnesses.

HUBERT C. HART.

Witnesses:

C. H. BROOKS,
HENRY A. COWLES.