

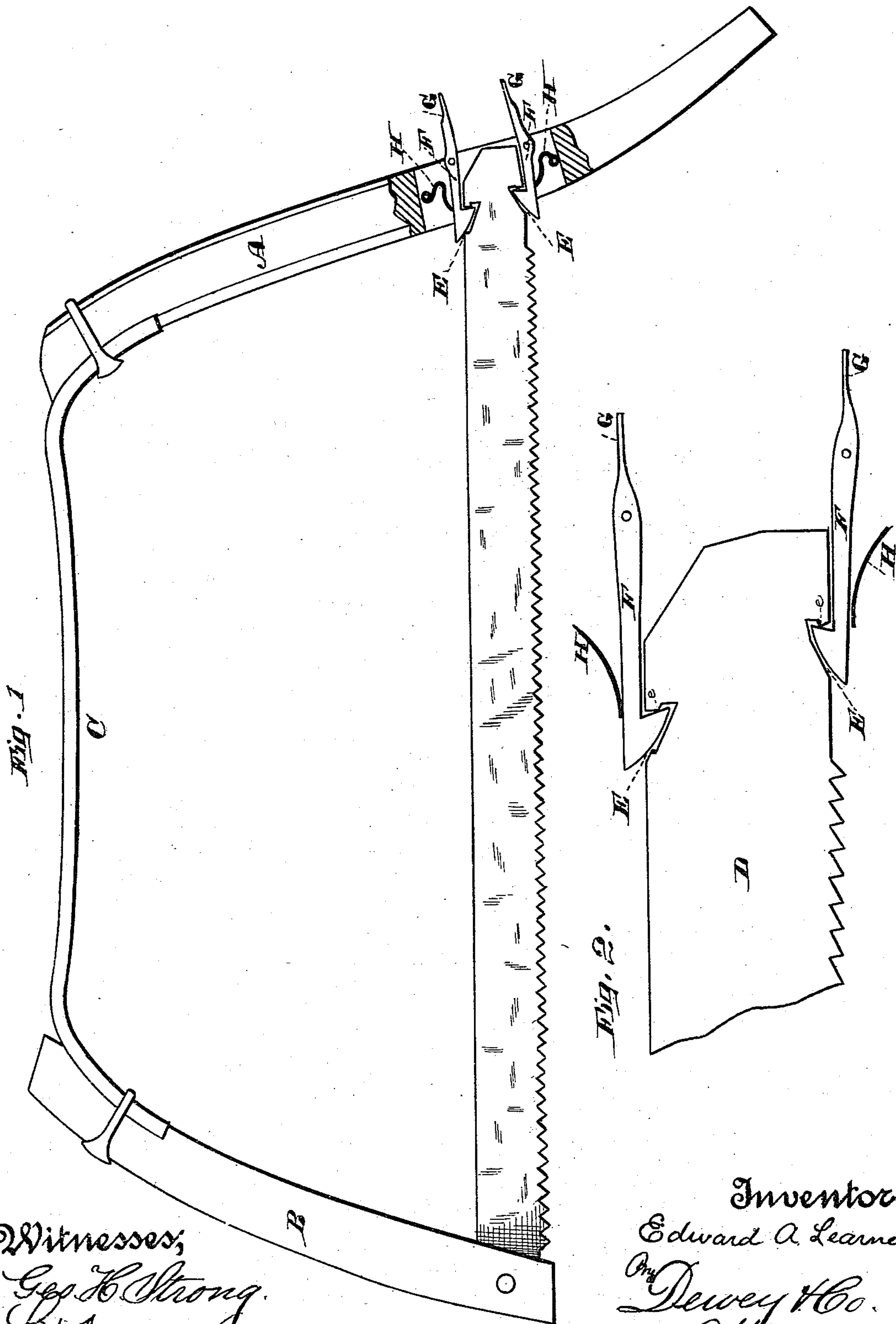
(No Model.)

E. A. LEARNED.

BUCK SAW.

No. 277,141.

Patented May 8, 1883.



Witnesses,
Geo. H. Strong.
J. H. Hourse

Inventor,
Edward A. Learned
By Dewey & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

EDWARD A. LEARNED, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF ONE-HALF TO HENRY S. DURDEN AND HERMAN L. WELCH, OF SAME PLACE.

BUCK-SAW.

SPECIFICATION forming part of Letters Patent No. 277,141, dated May 8, 1883.

Application filed September 18, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDWARD A. LEARNED, of the city and county of San Francisco, State of California, have invented an Improvement in Buck-Saws; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to certain improvements in saws of that class known as "buck-saws," and in which the tension of the saw is maintained by the constant action of a spring-frame, or of any spring attachment. In this class of saws it is extremely difficult to force the end frames together and hold them while the pin ordinarily used is being put through the frame and saw to hold the latter in place. My invention is designed to obviate this difficulty by the use of a spring latch or latches which open to admit the end of the saw-blade, and then engage with suitable notches therein, so as to hold the saw firmly when the strain is again brought upon it.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a view of my saw. Fig. 2 is an enlarged detail view.

A B are the end pieces of a saw-frame, which in the present case are shown to be made of wood, having a curved uniting-spring, C, at the top, which is clamped to the upper ends of the frames, so as to hold them in place. This spring separates the lower ends of the frames to such a distance that they must be forced together to connect them with the ends of the saw-blade. The usual slots are made in the two end frames to receive the ends of the saw-blade D. The blade may be secured to the outer or back frame, B, by a pin in the usual manner. The end which enters the slot in the handle A has notches E E cut in each edge, near the end, and these notches are so formed as to engage and hold the hooked ends of the latches F. These latches are pivoted in the frame, preferably one near each edge of the saw, and may have extensions G, which project beyond the frame A and serve as levers by which the latches are separated when desired by compressing these ends together. The levers are separated and the latches are drawn together by means of springs H, set in the frame or in other suitable position.

The operation of securing the saw-blade will be as follows: After the spring-frame is in readiness the back end of the saw is secured in the end piece, B, by the pin, and the end frames are forced toward each other in any convenient manner, usually by pressing upon the handle while the lower end of B rests upon the ground. When the handle A has thus been brought near enough, the end of the saw-blade is guided into its slot and passes between the spring-latches until they catch into the notches formed in the edges of the blade, and thus hold it firmly in place. When the pressure is released, the tension of the spring is extended upon the saw in the usual manner. When the saw-blade is to be released, it is done by pressing the levers G between the thumb and finger after the frames A and B have been forced toward each other sufficiently to overcome the tension of the back spring and release the saw.

For the purpose of preventing the latches F from disengaging with the notches E at any sudden jar the saw receives, I form in the face of said notches a spur or projection, as seen more particularly in Fig. 2, which will sink slightly into the face of the latch and prevent slipping except when considerable force is applied to the outer ends.

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

1. The frame A B and the spring-back C, connecting said frame, in combination with the saw-blade D, attached at one end to the frame B, and having the notches E formed on its edges, and the spring-latches F, pivoted in the frame A, and provided with disengaging-levers G, substantially as set forth.

2. The connected frame A B, in combination with the saw-blade D, attached at one end to the frame B, and having the notches E formed on its edges, with projections or spurs on their faces, and the spring notched latches F, substantially as and for the purpose herein shown and described.

In witness whereof I hereunto set my hand.

EDWARD A. LEARNED.

Witnesses:

JNO. J. MCCARTHY,
J. H. BLOOD.