

(No Model.)

W. H. DILLON.

HANDSAW.

No. 362,726.

Patented May 10, 1887.

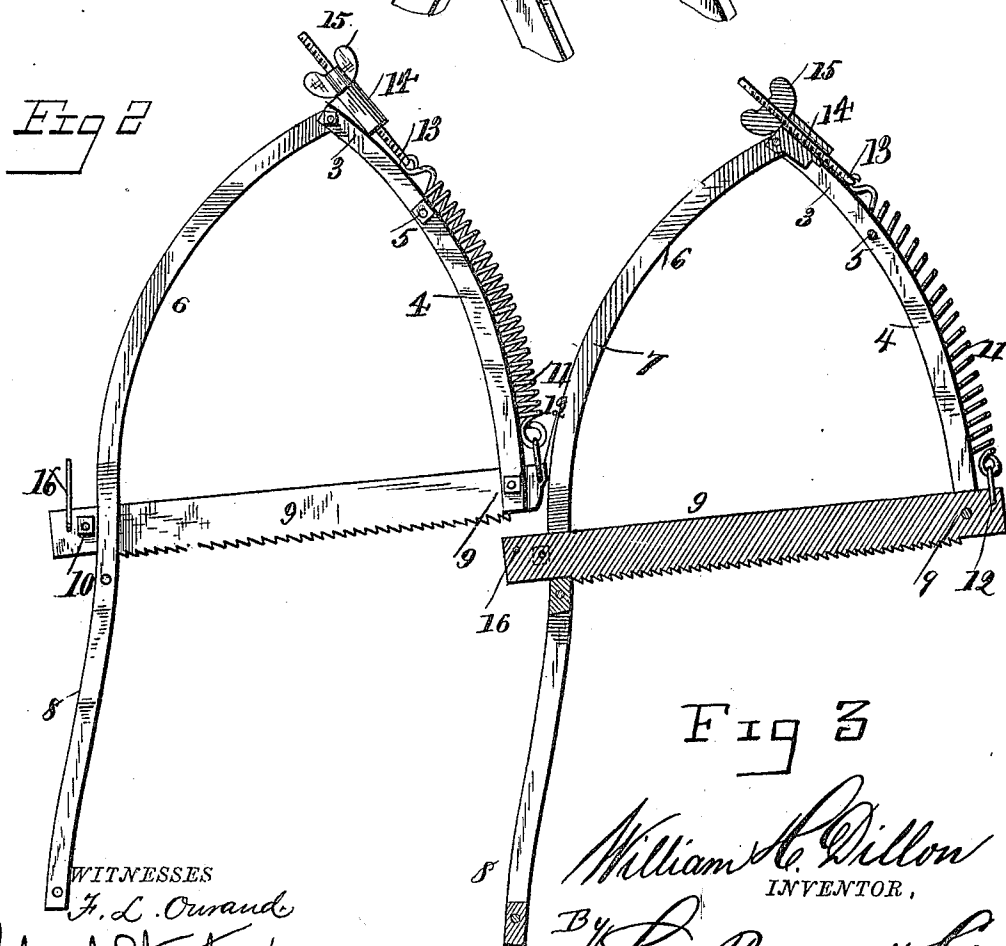
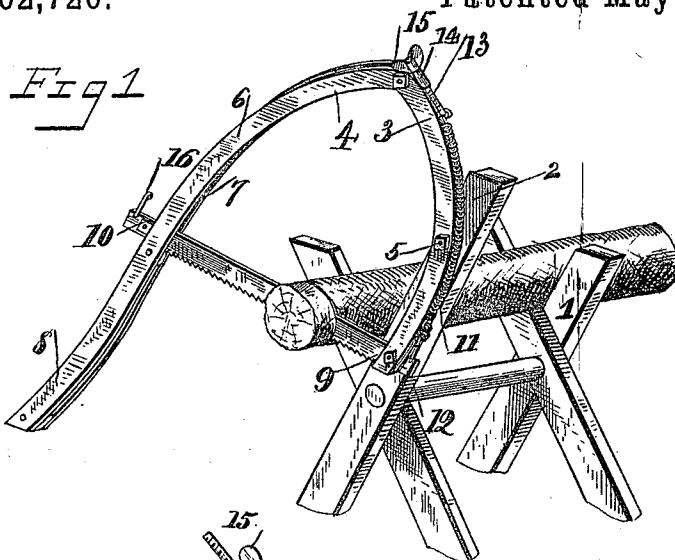


Fig 3

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HANDSAW.

SPECIFICATION forming part of Letters Patent No. 362,726, dated May 10, 1887.

Application filed March 19, 1887. Serial No. 231,508. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HENRY DILLON, a citizen of the United States, and a resident of Elkton, in the county of Todd and State of Kentucky, have invented certain new and useful Improvements in Handsaws; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of a saw-horse provided with my improved saw. Fig. 2 is a side view, on an enlarged scale, of the saw, and Fig. 3 is a sectional view of the same.

Similar numerals of reference indicate corresponding parts in all the figures.

My invention has relation to saws pivoted to the horse or bench upon which the material to be sawed is placed, and having means for feeding the saw into the work; and it consists in the improved construction and combination of parts of such a saw, as hereinafter more fully described and claimed.

In the accompanying drawings, the numeral 1 indicates the saw-horse, one arm, 2, of which is somewhat longer than the other arms, and one side or arm, 3, of the saw-frame 4 is pivoted with a bolt, 5, at a distance from its upper end to the longer arm.

The frame of the saw is V-shaped with curved arms, one, 3, of which is shorter than the other arm, 6, which is formed with a longitudinal slot, 7, of the same length as the opposite arm, and with a handle, 8, at the end of the slot. One end of the blade 9 of the saw is pivoted in the lower end of the shorter arm of the frame, and the other end of the saw slides in the slot of the longer arm, having nuts 10 or blocks bearing against the outer edge of the curved slotted arm, which is curved to an arc concentric with the pivotal bolt of the blade, so that the nuts or blocks will slide against the curved edge at all points.

The lower end of a strong coiled spring, 11, is secured to the short end 12 of the saw projecting beyond the pivotal bolt, and the upper end of this spring is engaged by the lower hooked end of a screw, 13, which slides in a

perforated block, 14, at the apex of the frame and is provided with a thumb-nut, 15, above the said perforated block bearing against the same.

The swinging end of the saw-blade is provided with a hook, 16, which may engage the upper end of the screw, holding the saw in the upper end of the slot.

It will now be seen that when the saw is used the piece of wood to be sawed is placed in the horse in the usual manner, the saw-blade having first been raised and held in its upper position by the hook, and when the blade is now released the spring will draw the short arm of the saw upward and force the serrated edge of the blade against the wood, causing it to cut into the same when the frame is reciprocated or rocked upon its pivotal bolt, and feeding the saw-blade into the wood as it cuts into the same, the tension of the spring feeding the saw into the wood without the necessity of the operator forcing the frame against the wood, all his work being simply to rock the frame, which also may be done by suitable machinery driven by any desired and convenient power.

The tension of the spring may be adjusted by means of the thumb-nut, causing the saw-blade to be fed with different force according to the hardness of the wood or other material sawed.

The saw-blade may be shaped and cut to suit different kinds of material to be sawed, and the frame and support for the work may be slightly modified to meet the requirements of different kinds of work to be done and of the different materials to be sawed.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a saw, the combination of a frame suitably pivoted to the support for the work and having a segmental and longitudinally-slotted arm, a saw-blade pivoted near one end in one arm of the frame concentric to the segmental arm and having its other end sliding in the slot of the other arm of the frame, and a spring secured to the saw-blade and to the frame and drawing the sliding end of the saw-blade downward, as and for the purpose shown and set forth.

2. In a saw, the combination of a frame suitably pivoted to the support for the work to be sawed and having a segmental and longitudinally-slotted arm, a saw-blade pivoted near one end in one arm of the frame in the center for the segmental arm and having its other end sliding in the slot of the segmental arm, and a spring secured to the short arm or end of the saw outside of the pivotal bolt and to the frame above the pivotal bolt, as and for the purpose shown and set forth.

3. In a saw, the combination of a V-shaped frame having a short curved arm and a long curved arm formed with a longitudinally-slotted segmental portion, and with a handle, and pivoted to the support for the work to be sawed by a bolt a distance from the upper end of the short arm, a saw-blade pivoted upon a bolt in the lower end of the short arm at the center or the segmental portion of the other arm and

having its other end sliding in the slot of the segmental arm and provided with a swinging hook at that end, a coiled spring secured to the short end of the saw beyond the pivotal bolt, and a screw sliding in a perforated block at the upper end of the short curved arm of the frame and having a hook at its lower end engaging the upper end of the spring and provided with a thumb-nut at its upper end bearing against the upper side of the perforated block, as and for the purpose shown and set forth. 25 30

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

WILLIAM HENRY DILLON.

Witnesses:

JOHN J. WENTHERS,
JOHN COLE.