

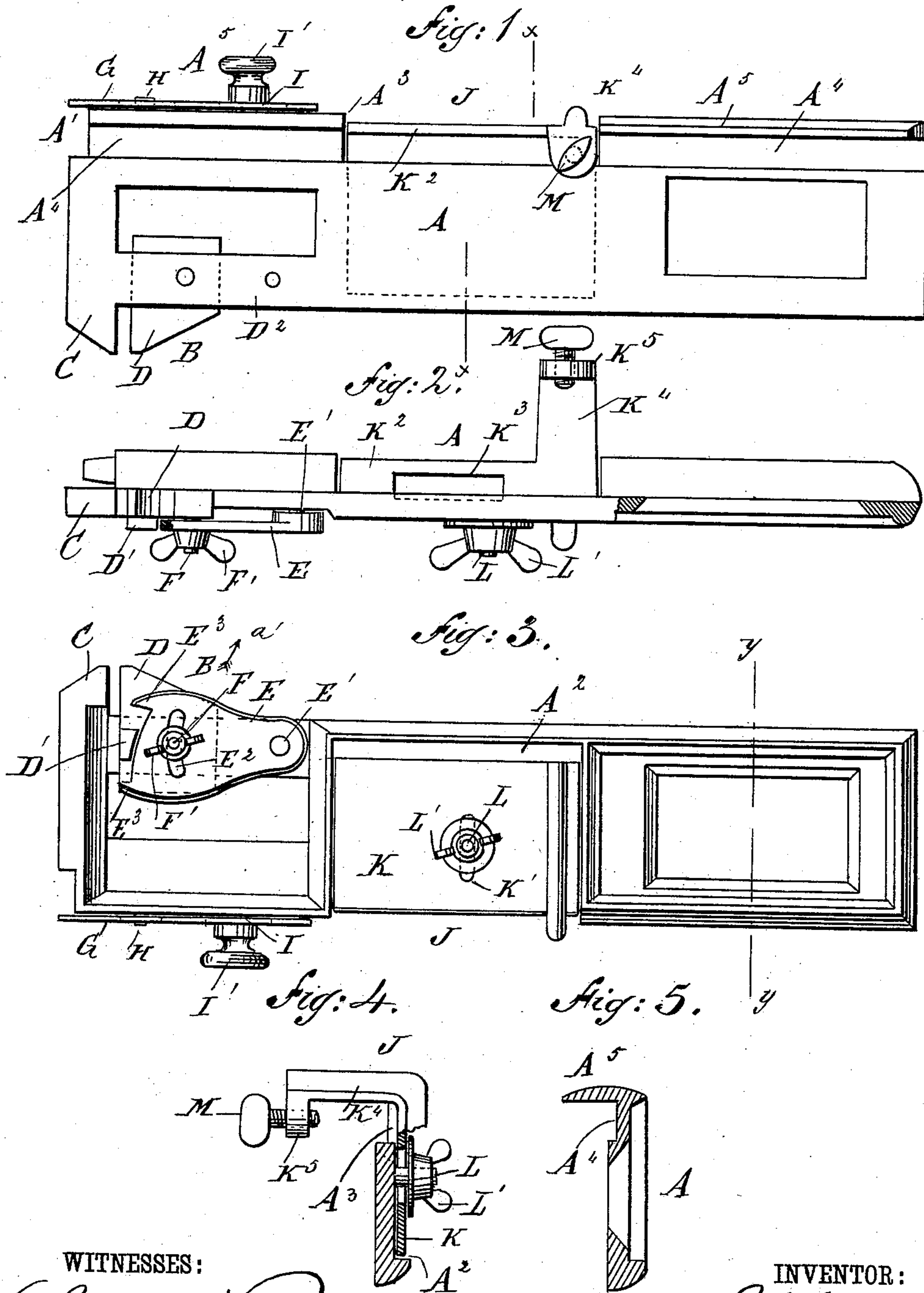
(No Model.)

J. H. SODEE.

COMBINED SAW JOINTER, SAW SET, AND GAGE.

No. 370,661.

Patented Sept. 27, 1887.



WITNESSES:

Chas. Viera
C. Sedgwick

INVENTOR:

J. H. Sodee
BY *Munn & Co.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN HERMAN SODEE, OF SEATTLE, WASHINGTON TERRITORY.

COMBINED SAW-JOINTER, SAW-SET, AND GAGE.

SPECIFICATION forming part of Letters Patent No. 370,661, dated September 27, 1887.

Application filed September 23, 1886. Renewed August 29, 1887. Serial No. 248,164. (No model.)

To all whom it may concern:

Be it known that I, JOHN HERMAN SODEE, of Seattle, in the county of King, Washington Territory, have invented a new and Improved Combined Saw-Jointer, Saw-Set, and Gage, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved combined saw-jointer, saw-set, and gage specially adapted for crosscut-saws.

The invention consists of a frame provided with a saw-jointer, a saw-set, and a saw-gage.

The invention also consists of various 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 rear elevation of my improvement. Fig. 2 is a bottom view of the same. Fig. 3 is a front elevation of the same. Fig. 4 is a vertical cross-section of the same on the line *x x* of Fig. 1, and Fig. 5 is a similar view of the same on the line *y y* of Fig. 3.

The frame A, of suitable size and form, is provided on one end with the saw-set B, which consists of the stationary clamping arm or jaw C and the jaw D, sliding on the guide D² of the frame, having a lug, D', against which operates the cam E, pivoted at E' to the guide D², and having a radial slot, E², through which passes the bolt F, projecting from the jaw D, and on which bolt F screws the nut F', by which the cam is clamped in position against the jaw D. The swinging motion of the cam E is limited between the lugs E³ on the cam E.

The tooth to be set is placed between the jaws C and D, and the latter is then moved toward the former by swinging the cam E in the direction of the arrow *a'*, so that the jaw D is tightly pressed against the tooth, and is held in this position by screwing the wing-nut down upon the cam, which locks the parts in position. The tooth is then set in the usual manner.

On one edge of the frame A is placed the gage G, having a slot through which passes a stud, H, projecting from the frame A, and a bolt, I, secured to the latter, also passes through

the said slot, and is provided with the nut I', by which the gage G can be adjusted to any desired depth. The gage G slides forward and backward on the stud H and on the bolt I. A notch, A', is formed on the corner of the frame A, directly below the front end of the gage G.

To use the gage G, it is adjusted so that its forward end projects the desired distance beyond the end of the frame A, and the end of the frame is placed flat against the saw, the end of the gage resting against a properly-set tooth of the saw. If the end of the gage does not touch the succeeding teeth, they must be set inward toward the saw, and if the teeth touch the gage, so that the end of the frame cannot rest flat against the saw, they must be set farther outward.

In the middle of the frame A is placed the saw-jointer J, consisting principally of the adjustable plate K, having its bearing in a recess, A², of the frame A, and provided with a slot, K', through which passes a bolt, L, attached to the frame A, and provided with a wing-nut, L', by which the plate can be held in place when adjusted. From the plate K projects the angular plate K², having the slot K³ and extended on one end to form the arm K⁴, provided with the lug K⁵, in which screws the set-screw M.

The frame A is provided with the slot A³, in which moves the plate K², and with grooves A⁴, which extend from the said slot A³ to the ends of the frame A. The upper edge of the frame is formed into projecting plates A⁵, which correspond in width to the plate K² and extend from the slot to the ends of the frame.

The file with which the saw is jointed is placed with one edge in the recess of the frame A, and is held in place by screwing the set-screw down upon the other edge of the file. The plate K is adjusted by the bolt L and the nut L' to suit the thickness of the file. The saw-jointer is then applied on the saw in the usual manner.

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

1. The combination, with the frame A, of the saw-jointer J, the saw-set B, and the saw-gage G, substantially as shown and described.

2. The frame A, having the guide-arm D² and the stationary jaw C, in combination with the sliding jaw D, having the lug D', and the

cam E, for operating the said jaw D, substantially as shown and described.

3. The frame A, having the guide-arm D² and the stationary jaw C, in combination with the sliding jaw D, having the stud D', the cam E, operating on the said jaw D, and means to hold the jaw D and the cam E in place, substantially as shown and described.

4. The frame A, having the guide-arm D² and the stationary jaw C, in combination with the sliding jaw D, having the lug D', the pivoted cam E, having the radial slot E' and operating on the said jaw D, the bolt F, attached to the jaw D, and the nut F', screwing on the said bolt F, substantially as shown and described.

5. The frame A, having the notch A', in combination with the gage-plate G, having a slot, the lug H, passing through the slot in gage G, the bolt I, also passing through the said slot, and the nut I', screwing on the said bolt I and

holding the gage G in place, substantially as shown and described.

6. The frame A, having the grooves A⁴ and the plate A⁵, in combination with the adjustable plate K, the angular arms K² and K⁴, the latter having the downward-projecting lug K⁵, and the set-screw M, extending transversely through the lug toward the frame A, substantially as shown and described.

7. The frame A, having the slot A³, the grooves A⁴, and the plate A⁵, in combination with the plate K, slotted at K', and having the angular arms K² and K⁴, the set-screw M, screwing in the lug K⁵ of the arm K⁴, the bolt L, passing through the said slot K', and the nut L', for clamping the plate K onto the frame A, substantially as shown and described.

JOHN HERMAN SODEE.

Witnesses:

WM. K. JOHNSTON,

F. H. CANN.