J. WEBER.

SAWING DEVICE.

APPLICATION FILED MAY 27, 1908.

913,078

Patented Feb. 23, 1909.

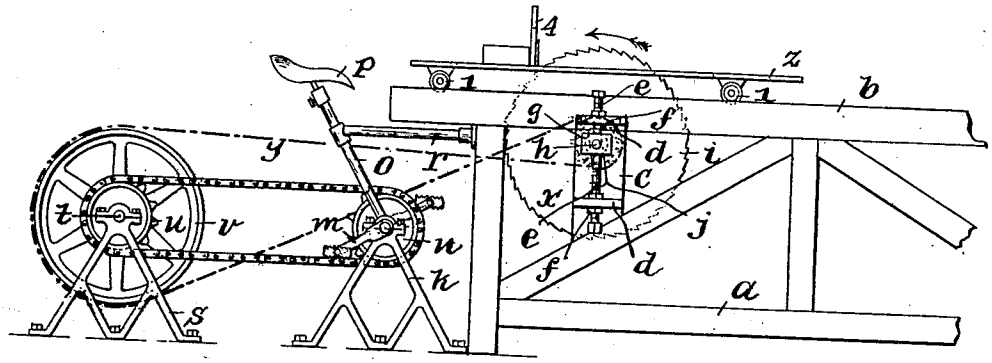


Fig. 1.

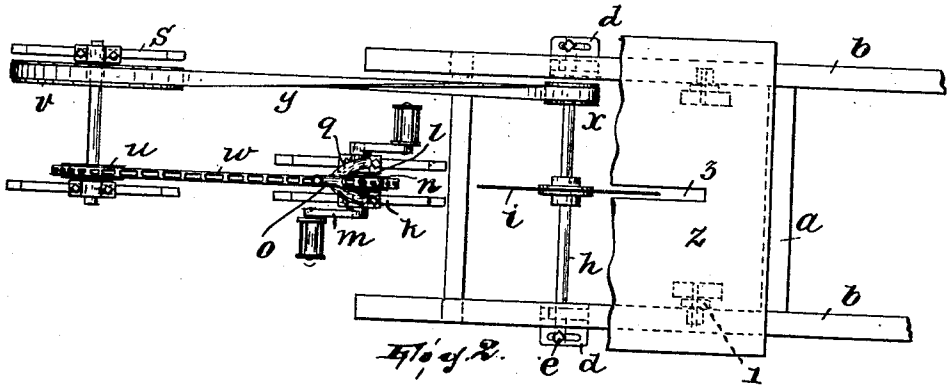


Fig. 2.

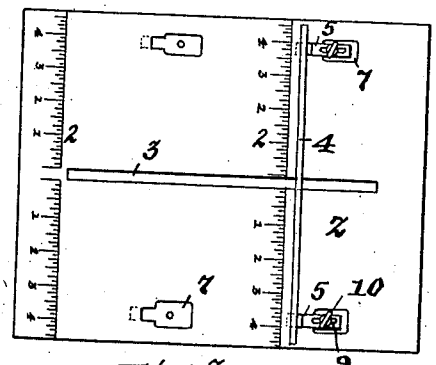


Fig. 3.

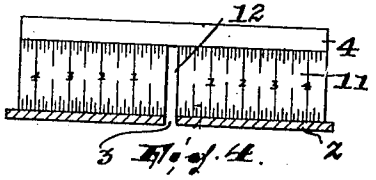


Fig. 4.

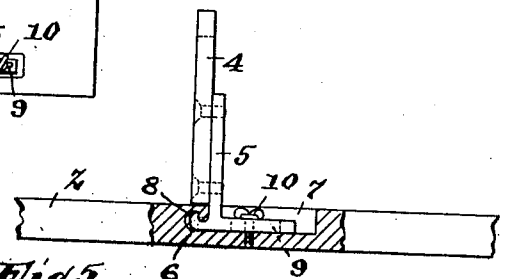


Fig. 5.

WITNESSES

Wm. L. Bell.

Elsie Kaufmann.

INVENTOR,

Joseph Weber,

BY

Johnson Lewrad

ATTORNEY.

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOSEPH WEBER, OF WALLINGTON, NEW JERSEY.

SAWING DEVICE.

No. 913,078. Specification of Letters Patent. Patented Feb. 23, 1909.

Application filed May 27, 1908. Serial No. 435,245.

To all whom it may concern:

Be it known that I, JOSEPH WEBER, a citizen of the United States, residing in Wallington, Bergen county, New Jersey, have invented a certain new and useful Improvement in Sawing Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

The object of this invention is to provide a machine for sawing wood which may be operated by foot-power and by which the work may be done with facility and accuracy, the operator having before him a sliding table on which the work is placed so as to be moved into cutting relation to the saw and on which suitable gages are provided for use in both cross-cut and rip-sawing.

My invention will be found fully illustrated in the accompanying drawing, wherein,

Figure 1 is a side view of the improved sawing machine; Fig. 2 is a plan view thereof, a part of the table being broken away; Fig. 3 is a plan view of said table; and, Figs. 4 and 5 illustrate details of said table.

In the drawing, *a* designates a suitable frame-work having the parallel horizontal rails *b* and carrying the brackets *c* in the longitudinally slotted outwardly projecting parts *d* of which are arranged the screws *e* which are movable forwardly and back in said slots and adapted to be held where adjusted by the lock-nuts *f*; by each two screws is held a block *g* and in these blocks are arranged the ends of a rotary shaft *h* which carries the circular saw *i* which projects above the frame-work *a* more or less according as the screws *e* are adjusted to alter the elevation of the shaft. The shaft projects through arc-shaped slots *j* in the brackets *c*.

In the stands *k* is journaled the shaft *l* carrying pedal-cranks *m* and a sprocket-wheel *n*, and carried by said stands *k* is a pedestal *o* for a seat *p*, the lower portion *q* of said pedestal being forked, resting on the stands and forming therewith the bearings for the shaft *l*. The pedestal may be braced by the brace *r* connecting it with the frame-work.

Back of the stands *k* is arranged another pair of stands *s* in which is journaled the shaft *t* which carries a sprocket-wheel *u* about the size of sprocket wheel *n* and a pulley *v*; around the sprocket-wheels *u* and *n* extends an endless chain *w* and around the pulley *v* and a pulley *x* on shaft *h* extends an endless belt *y*. It may be remarked that the arc-shaped slots *j* are described about the shaft *t* as a center so that the vertical adjustment of the saw-shaft may be effected without the necessity for adjusting belt *y*.

The work-table *z* is provided with flanged rollers 1 which run on the rails *b*, so that the table may be moved backwards and forwards on the frame-work by the operator; this table is provided with the two parallel scales 2, each running both right and left from a longitudinal slot 3 which is formed in the table to accommodate the saw. These scales are used in rip-sawing.

For cross-cut sawing, I provide on the table the removable abutment or plate 4 arranged to be held in an upright position thereon as follows: To the back of the plate 4 is secured a pair of angle-irons 5 which project below the lower edge of the plate and have the forwardly projecting toes 6; one or more pairs of recesses 7 are formed in the top of the table to receive the bases of the angle-irons 5 and an under-cut or pocket 8 is formed at the forward end of each to receive the corresponding toes 6 of one of the angle-irons. The base of each angle-iron is longitudinally slotted, as at 9, and through this may be passed a thumb-screw 10 adapted to coact with the interlocking toe 6 and pocket 8 to securely, but removably, hold the angle iron in the recesses 7, which, it should be remarked, are sufficiently deep so that when the plate with the angle irons is removed, the thumb-screws may be screwed down far enough so as to leave the top of the table perfectly flat. The plate has the scale 11 likewise reading both right and left from a slot 12 in the plate corresponding to the slot in the table and accommodating the saw.

In operation, the workman with his feet turns the cranks *m* and so drives the circular saw, the work being placed on the table and moved with the able against the saw away from the operator. In rip-sawing, the plate 4 is removed and the work set according to both scales 2 with one edge at corresponding marks on the scales, either at the right or the left of the slot 3 and there held by the operator's hands as he advances the table; in cross-

cut sawing, the plate remains on the table and the work is placed against it, the amount to be cut off being determined by placing one end of the work (the right or left, as the case may be) in coincidence with a mark of gage 11 at the right or left of the slot 12.

Having thus fully described my invention, what I claim and desire to secure by Letters Patent is:

1. In a sawing machine, the combination of the work-table, an abutment, angle irons attached to said abutment and projecting below the same, said angle irons having projecting toes in their base portions and being slotted in said base-portions and said table having recesses to receive said base-portions and also having under-cuts in said recesses to receive the toes, and means, penetrating the slots of said base-portions, for securing the same to the table, substantially as described.

2. In a sawing machine, the combination of the slotted work-table, an abutment extending transversely of the slot in the work-table, angle irons attached to said abutment and projecting below the same, said angle irons having projecting toes in their base portions and being slotted in said base portions and said table having recesses to receive said base-portions and also having under-cuts in said recesses to receive the toes, and means, penetrating the slots of said base-portions, for securing the same to the table, said abutment and the table having scales extending in both directions from their slots, substantially as described.

In testimony, that I claim the foregoing, I have hereunto set my hand this 25th day of May, 1908.

JOSEPH WEBER.

Witnesses:

JOHN W. STEWARD,

WM. D. BELL.