

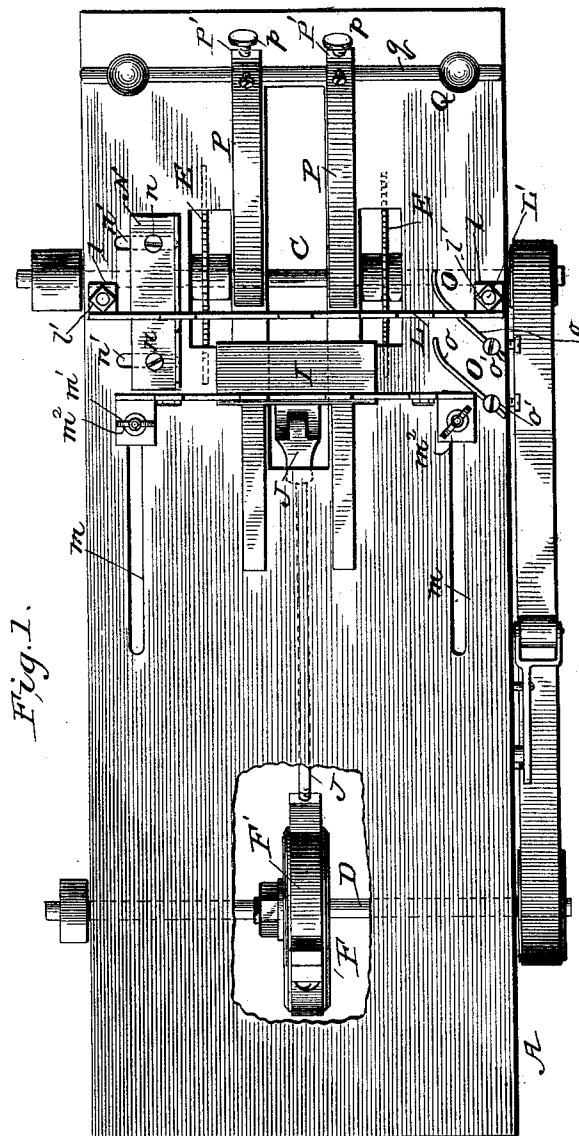
(No Model.)

3 Sheets—Sheet 1.

J. M. BAKER.
SAW TABLE.

No. 415,435.

Patented Nov. 19, 1889.



WITNESSES:
Fred G. Dietrich
P. B. Surpin

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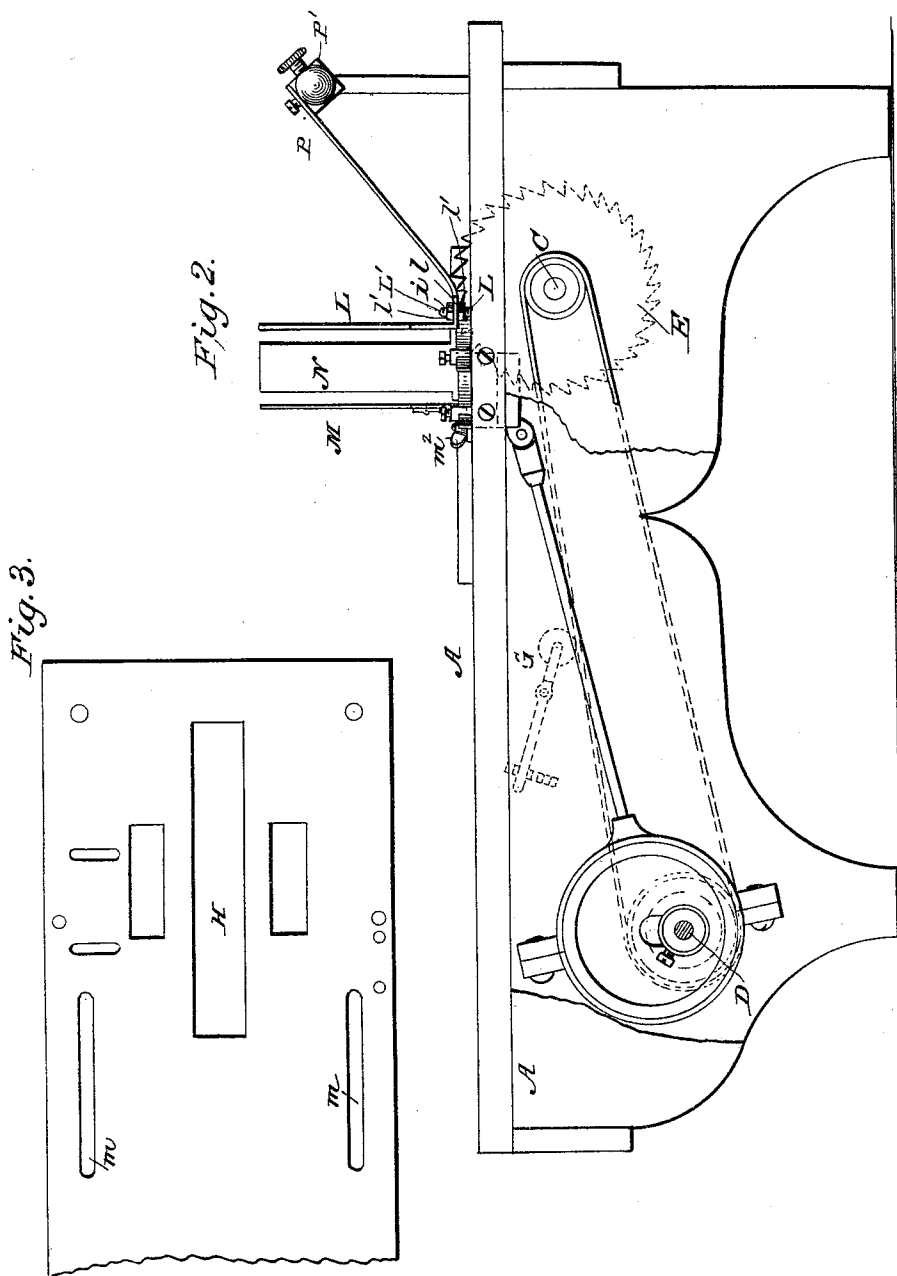
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Fig. 4.

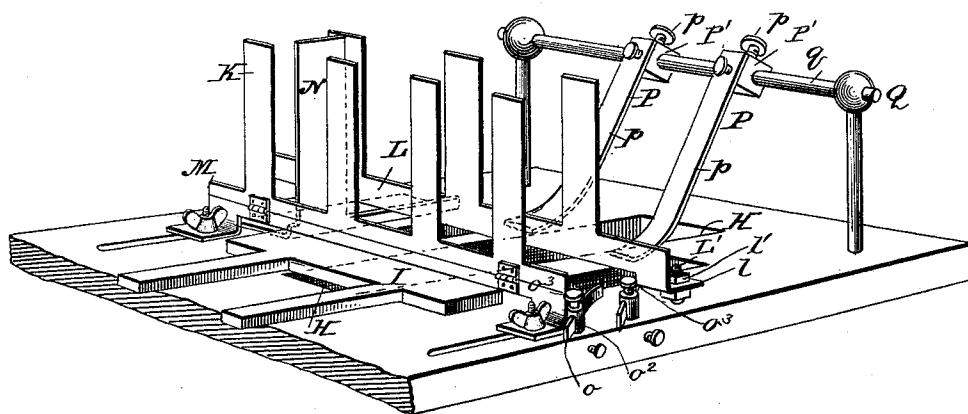


Fig. 5.

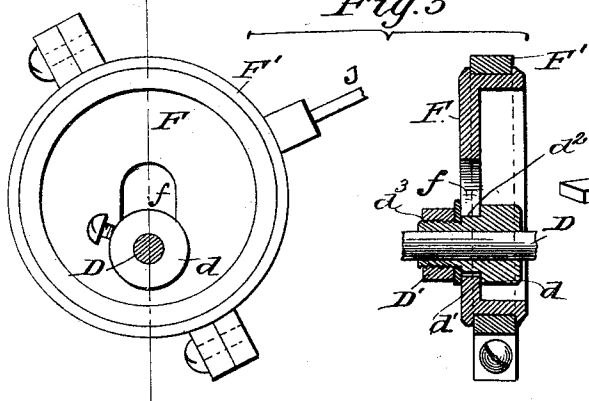
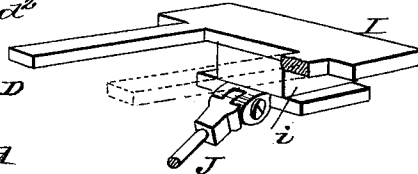


Fig. 6.



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UNITED STATES PATENT OFFICE.

JOSEPH M. BAKER, OF LOUISVILLE, KENTUCKY.

SAW-TABLE.

SPECIFICATION forming part of Letters Patent No. 415,435, dated November 19, 1889.

Application filed April 3, 1889. Serial No. 305,820. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH M. BAKER, of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and useful Improvement in Saw-Tables, of which the following is a specification.

My invention is an improvement in saw-tables, and relates particularly to the mechanism by which the material to be sawed may be automatically fed to the saws, and suitably supported to facilitate such feeding; to which ends the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a top plan view of a saw-table provided with my improvements. Fig. 2 is a side view of same, partly broken away to show the eccentrics and part of the rod connecting the same with the feed-slide. Fig. 3 is a detail view of the top of the saw-table with the several board holding and feeding devices removed. Fig. 4 is a detail perspective view of the table-top with the several parts in operative position, and Figs. 5 and 6 are detail views.

The framing supporting the table-top A may be of any suitable construction, and has bearings for the shafts C and D, the former C supporting the saws E, which may be cross-cut or rip, and the latter D supporting the eccentric F. The shafts C D are connected by a belt, so one may be driven from the other. An idler G is usually provided, by which the belt may be tightened up or slackened, so that the operation of the eccentric and the feed resulting therefrom can be started or stopped at any time desired. The eccentric F is formed with a slot *f*, receiving the shaft D, on which shaft is secured a sleeve *l*, having a shoulder *d'*, against which one side of the eccentric disk bears, a clamping-nut D' being threaded on the said sleeve and bearing against the opposite side of the disk from shoulder *d'*, and serving to secure it in any desired radial adjustment on the shaft. It will be understood that by setting the eccentric off the center more or less the length of stroke of the feed-slide may be varied to suit the width of the boards being cut. It will be seen that the sleeve *l* is

formed with a portion *d*², which fits in the slot *f* of the eccentric, such portion *d*² being formed between the shoulder *d'* and the outer threaded portion *d*³ of the sleeve.

The table-top is slotted at H, to form a guide for the feed-slide I, which has a portion *i* fitting in said slot and connected with one end of the rod J, the opposite end of which connects with the strap or ring F' on the eccentric disk F. By this construction the turning of shaft D operates to move the feed-slide back and forth, its forward movement feeding a board to and through the saws, and its backward movement returning it for the next board.

To hold the boards to be sawed, I provide a hopper K, having a front plate or section L arranged immediately in rear of the saws, a back plate or section M arranged a sufficient distance from plate L to permit the boards to fit between them, and a gage plate or section N arranged at one side of the saw-table top, and spring-holders O O arranged at the side opposite plate N, all of which will be described more in detail. The front section L has its lower edge arranged sufficiently above the top of the saw-table to permit a board or boards to be fed forward under it. This section L is vertically adjustable, so its lower edge may be set higher or lower, to permit the feeding of boards of different thickness, or of two or more boards, as desired, a feed-slide of suitable thickness being provided.

To enable the adjustment of the section L, I provide at its lower edge lugs *l*, through which project threaded studs *L'*, mounted on the table, and nuts *l''*, turned on the said studs above and below the lugs *l*, enable the section L to be set to and secured in any desired vertical adjustment. Manifestly this section L may be adjusted vertically by different constructions from that just described, and I do not desire in the broad features of my improvements to be limited to the particular construction of the adjusting devices as shown. The rear section M is hinged near its lower edge, so it can be thrown back, to facilitate the filling of the hopper, and is adjustable toward and from the front section L. In securing this adjustment of section M the saw-table top is formed with slots *m*, and the

fastening-screws m' of the section M pass through these slots and receive the thumb-nuts m^2 , turned on these screws, as shown. By the described adjustment the hopper may be fitted to receive wide or narrow boards.

The side guide or gage N is adjustable laterally, so as to hold the boards at one end in the desired relation to the saws, this adjustment being secured by passing the screws n , which fasten such guide N to the table-top, through slots n' in said top, as shown.

At the side of the table-top opposite the gage-plate N, I arrange the spring-holders O, which comprise spring-plates o and the vertically and rotarily adjustable bolts o' , having slots o^2 , in which plates o are held by nuts o^3 . The spring-plates o bear against one end of the boards to be sawed and press them at their opposite ends snugly against the guide or gage N. By turning the bolts o' , and by setting the spring-plates in different longitudinal adjustments within the slots o^2 , the tension of such springs may be regulated as desired. From the foregoing it will be seen that the hopper is adjustable both as to length and width, so that it may be set to any desired length or width of board, and by having its front plate or section adjustable vertically at its lower end the hopper is also fitted to permit the feeding of thick or thin boards and one or more at a time.

To hold the boards down when in contact with the saws, I provide pressers P P, consisting of spring-plates secured at one end to blocks P' , fitted and adjustable rotarily and longitudinally along a rod q , forming a part of a frame Q, mounted on the saw-table near its front end, clamping-screws p serving to hold the springs in any adjustment. The springs P extend at their free ends to a point slightly in advance of the front plate of the hopper, and have such ends bent or curved upward sufficiently to permit the boards to be forced by the feed-slide thereunder.

Having thus described my invention, what I claim as new is—

1. In a saw-table, the combination, with the saws, of the hopper having at one side a plate N, adjustable laterally and provided at its opposite side with a spring presser or pressers O, adjustably supported, whereby their tension may be adjusted to correspond with the adjustment of plate N, substantially as set forth.

2. In a saw-table, the table-top A, having longitudinal slots m and transverse slots n' , combined with the hopper having a front, side, and back plate, the screws securing such side plate and passed through slots n' , and the screws securing the back plate and passed through slots m , all substantially as set forth.

3. In a saw-table, the combination of the table-top, the saws, the feed-slide, and the hopper having its plate M hinged at or near its lower edge, whereby it may be turned down at will to permit access to the hopper from either side, all substantially as and for the purposes set forth.

4. In a saw-table, a hopper having its front plate L provided with lugs l , the table-top, the threaded studs L' , mounted on said top and extended through lugs l , and nuts on the said studs above and below the lugs l , all combined substantially as set forth.

5. In a saw-table, the combination of the table-top, the hopper having its side plate N adjustable laterally, the bolts o' , arranged opposite plate N, adjustable longitudinally and rotarily and provided with slots o^2 , and the spring-plates fitted and secured in said slots, substantially as set forth.

JOSEPH M. BAKER.

Witnesses:

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H. P. ROBERTS.