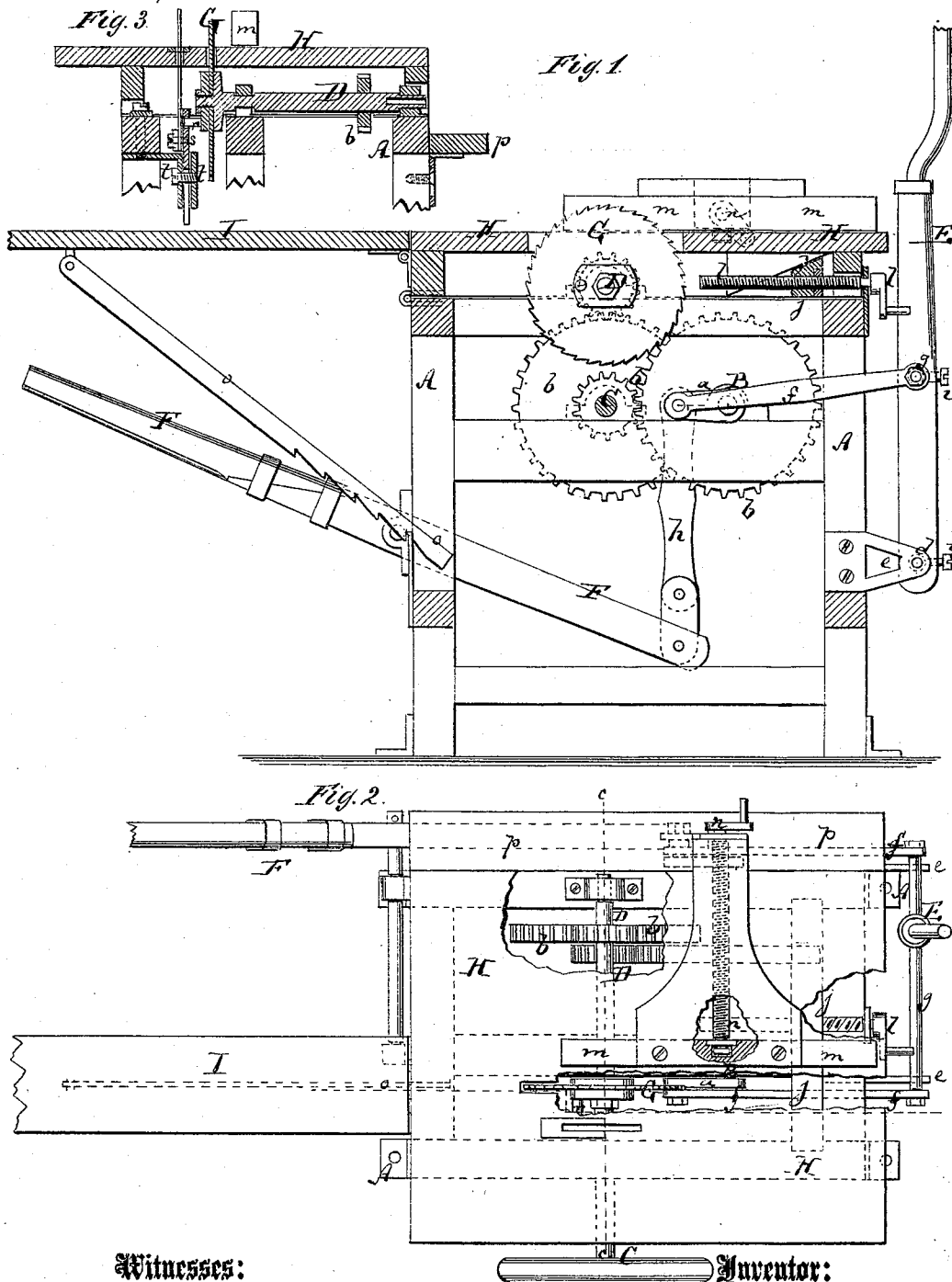


A. SCHARNWEBER.

Improvement in Sawing-Machines.

No. 129,499.

Patented July 16, 1872.



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AUGUST SCHARNWEBER, OF DAVENPORT, IOWA.

IMPROVEMENT IN SAWING-MACHINES.

Specification forming part of Letters Patent No. 129,499, dated July 16, 1872.

Specification describing a new and Improved Sawing-Machine, invented by AUGUST SCHARNWEBER, of Davenport, in the county of Scott and State of Iowa.

Figure 1 represents a sectional side elevation of my improved sawing-machine. Fig. 2 is a top view, partly in section, of the same; and Fig. 3 a detail transverse section of the same on the line *c c*, Fig. 2.

Similar letters of reference indicate corresponding parts.

This invention relates to improvements in sawing-machines, more particularly those worked by manual power; and comprises a new arrangement of the operating-lever, and a slide designed for attachment of a reciprocating-saw, as hereinafter described.

A in the drawing represents the supporting-frame of my improved sawing-machine. In it are the bearings of three shafts, B, C, and D. The shaft B has cranks *a a* at its ends, which connect with the operating-levers E and F. The shaft D carries the circular saw G, and is, by a train of gear-wheels, *b b*, on the three shafts, connected with the operating-shaft B, so that motion from the latter will be converted into rapid motion of the saw. The lever E is pivoted at one end to the frame A by a pin, *d*, which is secured in projecting ears *e e*. By means of rods *f f* and a pin, *g*, the lever is connected with the cranks *a a*, as shown, so that when the lever is vibrated the shaft B will be revolved, and thereby also the other shafts. The lever is so located at the end of the frame A, and projects upward in such manner, that a person operating it with one hand to turn the saw can, with the other hand, feed the wood to be cut to the saw. When, however, help is required, the other lever F may be operated by another person, said lever F connecting by a pitman, *h*, directly with one of the cranks *a*. By having the two levers, the machine is therefore enabled to be operated with a suitable degree of power. One or both of the levers may be connected with treadles, if desired, though not necessarily so. The lever E can be shifted laterally on the

pins *d* and *g*, and then fastened by set-screws *i i*, in order to be brought in the most convenient position for operation when wider or narrower wood is at the same time to be handled. The top H of the machine, constituting the table on which the wood is moved, is at one end hinged to the frame A, while its other end rests on a transverse block, *j*, which can be moved more or less in or out by means of a screw, *l*, to more or less raise the free end of the table. Upon the table is arranged a guide-strip, *m*, laterally adjustable by means of a screw, *n*, and serving to guide the wood in a straight direction while being subjected to the action of the saw. I is an extension table, hinged to one end of the table H, and held at suitable elevation or inclination by a hinged notched brace, *o*, to be in line with H. One end of the shaft D has a socket provided in it for the reception of a boring-tool. A small table, *p*, is formed at one side of the frame (see Fig. 3) to support the articles held against such boring-tool. The other end of the shaft D has a crank-pin, *r*, which can be used to impart reciprocating motion to an upright slide, *s*, in which a straight saw may be secured. The slide *s* is held in a lateral slide, *t*, and is grooved to receive the pin *r*.

When the circular saw is removed and a straight saw secured in the slide *s*, the lateral slide is moved toward the shaft D, and the straight saw thereby thrown in gear and ready for action.

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

1. The lever E, fitted adjustably upon the pins *d* and *g*, and secured thereon by pins *i*, as specified.

2. The vertical slide *s*, fitted into the lateral slide *t*, and arranged on a sawing-machine to be operated by a crank, *r*, on the shaft D, as set forth.

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