(No Model.)

A. HACKETT.

SAW GUIDE.

No. 286,296. Patented Oct. 9, 1883.

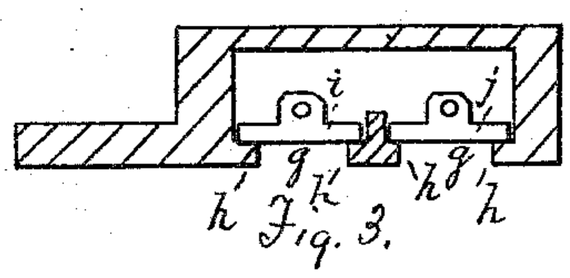

Fig. 3.

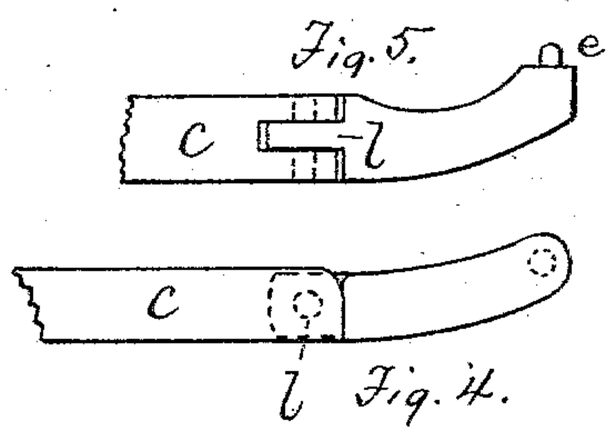

Fig. 4.

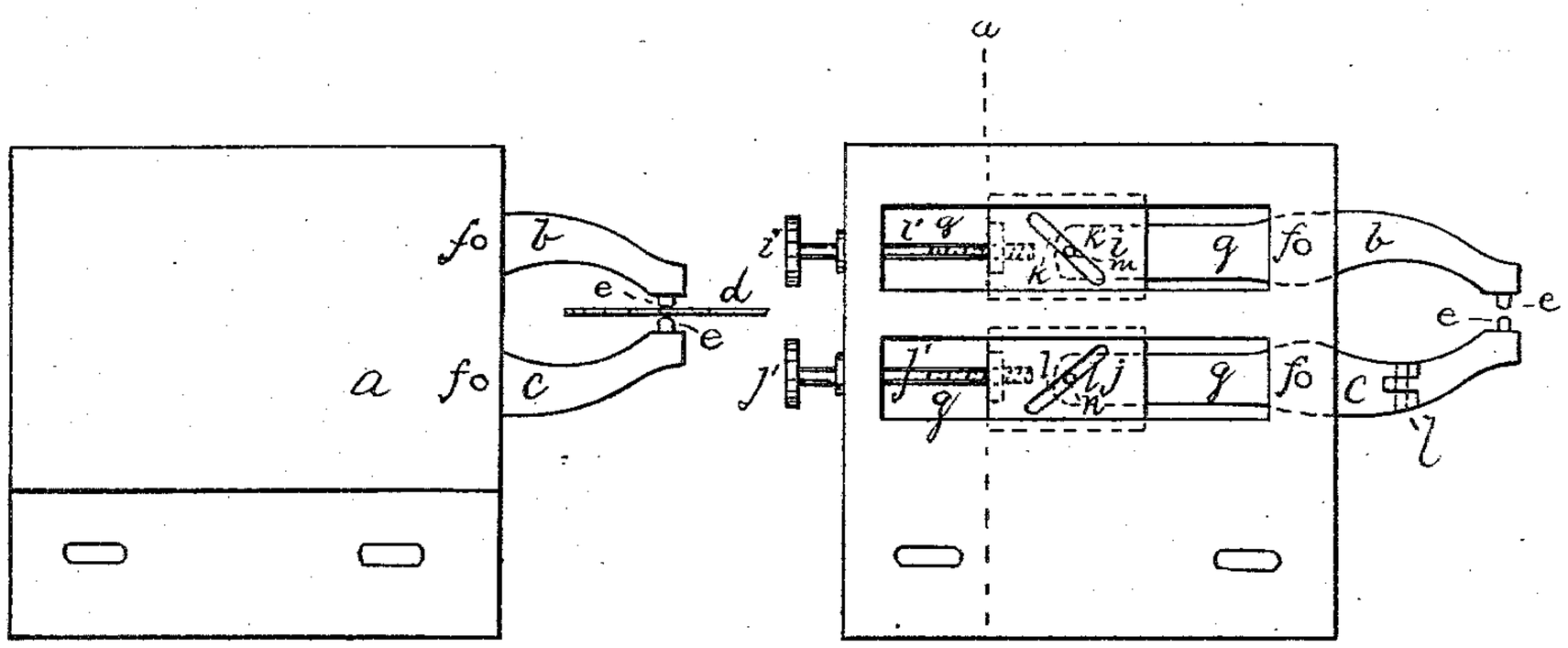

Fig. 1. Fig 2.

Witness
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UNITED STATES PATENT OFFICE.

ALLEN HACKETT, OF LA GRANGE, MAINE.

SAW-GUIDE.

SPECIFICATION forming part of Letters Patent No. 286,296, dated October 9, 1883.

Application filed April 2, 1883. (No model.)

To all whom it may concern:

Be it known that I, ALLEN HACKETT, of La Grange, in the county of Penobscot and State of Maine, have invented certain new and useful Improvements in Guides for Circular Saws; and I do hereby declare that the following is a full, clear, and exact description of the invention, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 shows a top plan, Fig. 2 a bottom plan, Fig. 3 a section through line *a b*, Fig. 4 side view of joint; Fig. 5, plan of same.

Same letters show like parts.

My invention consists, first, of an improved guide for circular saws so constructed as to be readily adjusted and as readily taken out of the way when the saw is to be removed from the arbor; and, second, to a special device by which the outer end of the outer lever of the guide may be instantly thrown out of the way when the saw is to be taken off.

My invention will be readily understood by reference to the drawings.

At *a* is shown a box or casing closed at the top, within which my saw-guide is fixed. This casing is secured to the machine-frame, as common, by bolts passing through slots to allow adjustment as the saw wears away. Within this casing, pivoted at *f f*, are independently-acting levers *b c*, extending past the periphery of the saw *d*, and having cavities in their ends to receive the wooden pins *e*, which come in contact with it. The under side of the casing *a* is open at *g g*, to permit the escape of sawdust, &c., and is provided at the sides and through the center with shoulders or ledges *h*, serving as supports and guiding-tracks for independent plates *i j*, actuated by screws *i' j'*, operating to move them backward or forward at will. These plates are slotted obliquely at *k l*, and into these slots project downward studs *m n* upon the inner ends of the levers *b c*.

It will be obvious that as the plates *i j* are moved forward the outer ends of the levers *b c* will approach the saw, and vice versa. The outer lever, *c*, may in this manner be thrown far enough away from the saw to permit its removal; but the second part of my invention furnishes a more rapid means of effecting this result by means of a joint, *l*, in said outer lever near the end next the saw, whereby said end may be raised or thrown out to one side. I prefer that this joint shall be vertical, as in that case both the weight of the end of the lever and the action of the saw will tend to hold it in position when the guide is in use, doing away with any locking device; but if a horizontal joint is used a spring-bolt or similar contrivance may readily be added without the exercise of invention.

What I claim as my invention is—

1. In a saw-guide, the independently-acting levers *b c*, pivoted at *f f*, with their studs *m n*, in combination with the obliquely-slotted plates *i j*, and adjusting-screws *i' j'*, the longitudinal movement of the said screws and plates communicating a swing movement of said levers upon their pivots, all arranged for the purposes set forth, in a suitable casing, *a*, substantially as described.

2. In a saw-guide, the outer lever, *c*, provided with a pivoted joint, *l*, near its end next the saw edge, whereby said end may be swung out of the way when the saw is to be changed without disconnecting it from its lever, substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 29th day of March, 1883.

ALLEN HACKETT.

Witnesses:

WM. FRANKLIN SEAVEY,

JOHN B. B. FISKE.