L. Wright,

Circular Sawing Machine.

No. 30,998. Patented Dec. 18, 1860.

Fig 1

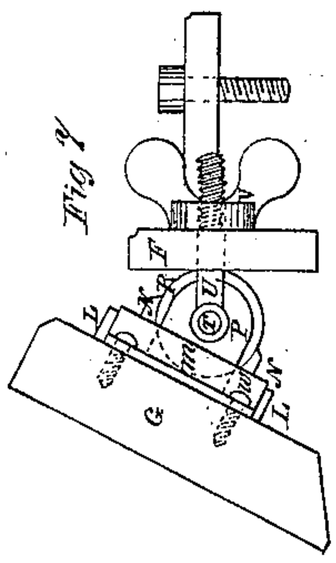

Fig 6

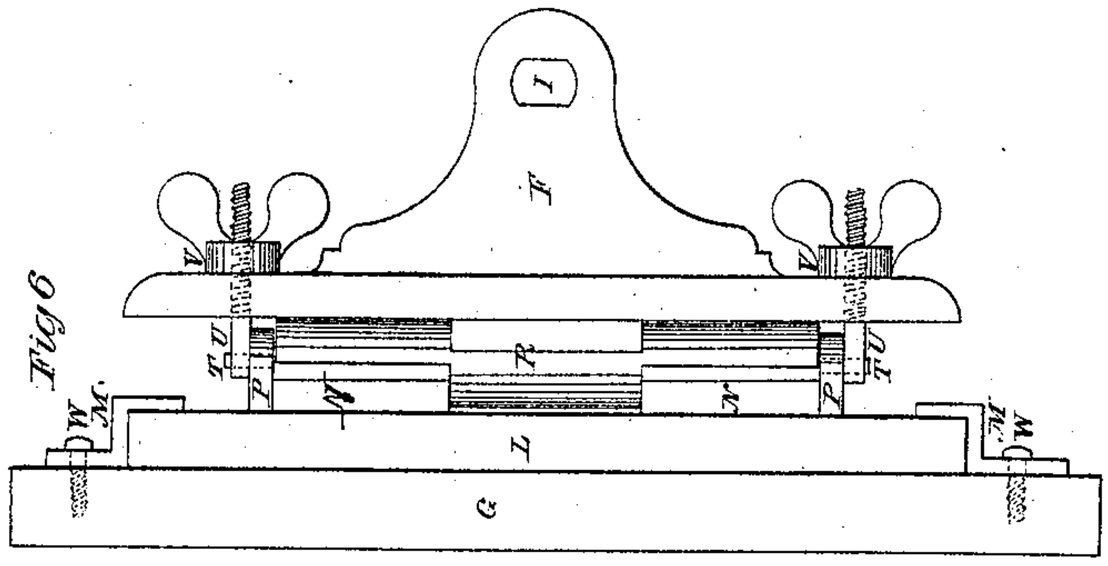

Fig 4

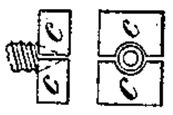

Fig 3

Fig 5

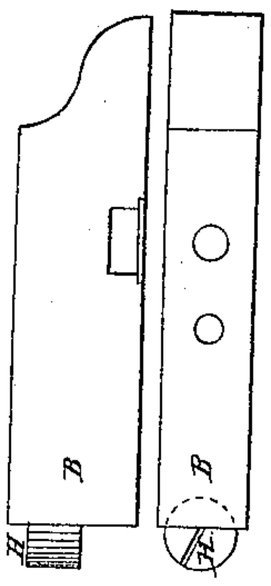

Fig 2

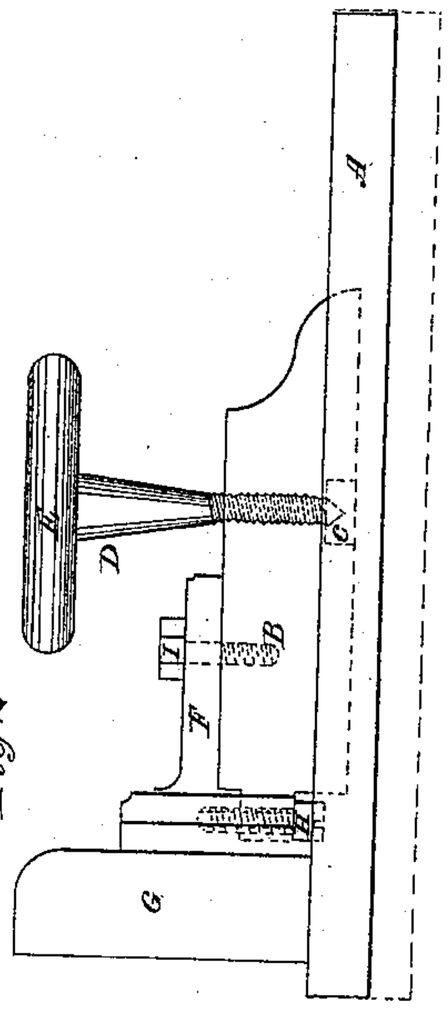

Fig 7

UNITED STATES PATENT OFFICE.

LYSANDER WRIGHT, OF NEWARK, NEW JERSEY.

CIRCULAR-SAW GAGE.

Specification of Letters Patent No. 30,998, dated December 18, 1860.

To all whom it may concern:

Be it known that I, LYSANDER WRIGHT, of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Circular-Saw Gages; and I do hereby declare that the following is a full and exact description of the said invention, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a vertical view of the different parts of the gage when placed on the saw table O, without the bevel attachment. Fig. 2 is a side view of the same. Fig. 3 is an end view of the gage when fitted into the table, and cut in half at the center of the screw E, D. Fig. 4 is two friction blocks. In the lower cut the position is the same as in Fig. 1; in the upper one the same as in Fig. 3 with the cam end of the screw D, between them. Fig. 5 shows the slide in different positions; the lower one as seen in Fig. 1; the upper one as in Fig. 2. Fig. 6 is a vertical view of the bevel gage attachment connected with the fence plate F, in the place of the wood G, in Figs. 1 and 2. Fig. 7 is an end view of the same.

The same letters in the different figures represent the same parts.

A, is a way fitted into the top of the saw table O, and grooved as seen in Fig. 3.

B, is a slide fitted into the way A, with which are connected the fence-plate F, at H, and I, and the friction blocks C, C, operated by the screw D.

There are two points to be gained; the one, holding the fence-plate firmly, to which the wood G, is attached, at any desired distance from the saw *s;* the other is adjusting the fence plate and wood, and holding them perfectly parallel with the saw. The former of these is accomplished by inserting the friction-blocks C, C, into the slide, in the open space, seen in the upper cut of Fig. 5; also of Figs. 2 and 3. They are divided lengthwise in the slide, and are fitted to receive the conical point of the screw D, which being turned down presses them apart against the sides of the way, as seen in Fig. 3; which hold the slide, fence-plate and wood positive, without varying them a particle when the screw is turned, or permitting them to move when once fastened. By loosening the screw the slide may be moved in the way at pleasure.

To adjust the wood G, and fence-plate F, parallel with the saw, the latter is connected with the slide by the screw H; the rounded end of the slide being fitted into the fence-plate so as to form a joint, or the joint may be otherwise formed, therefore permitting the turning of the fence-plate as desired, and when in line with the saw it is held in its place by the screw I, shown in Figs. 1 and 2.

The bevel gage attachment, as shown in Figs. 6 and 7, may be used as a common gage by placing the wood G, at right angle with the saw table.

To illustrate the bevel arrangement, it will be seen, that, to the wood G, are attached two friction straps M, one at either end, by the screws W. These friction straps are pressed down over the end of the plate L, and permits the wood to be raised or lowered as desired when the bevel is changed.

R, is a roll, with a flat side in the middle against the fence-plate F, and round ends, on which the concave blocks N, which are fast to the plate L, may be made to turn, when the thumb nut V, is loose, the turning of which, places the wood at any desired angle from the table.

P, are ears fast to the plate L, in which are secured the pins T. U, are rods with one end slipped on to the end of the pins and the other passing through the fence-plate.

When the bevel is set at the desired angle, it is held firmly in its place by the thumb-nuts V, which create a friction between the concave blocks N, and the roll R.

I claim—

The arrangement of the slide B, way A, clamp E, plate F, hinge K, and plate L, connected in the manner and for the purposes set forth.

LYSANDER WRIGHT.

Witnesses:

GEO. H. SMITH,

H. HARRIS.