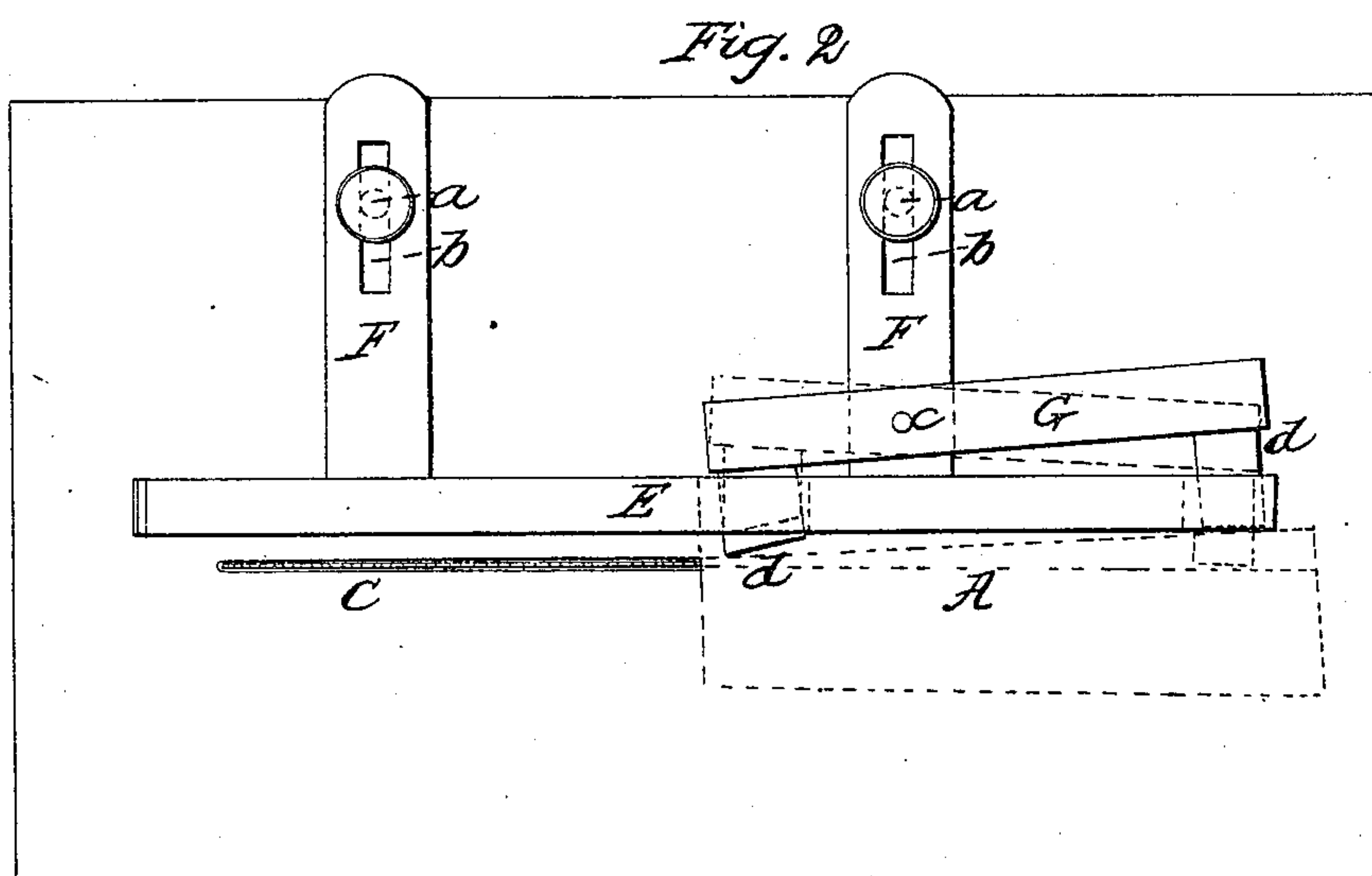
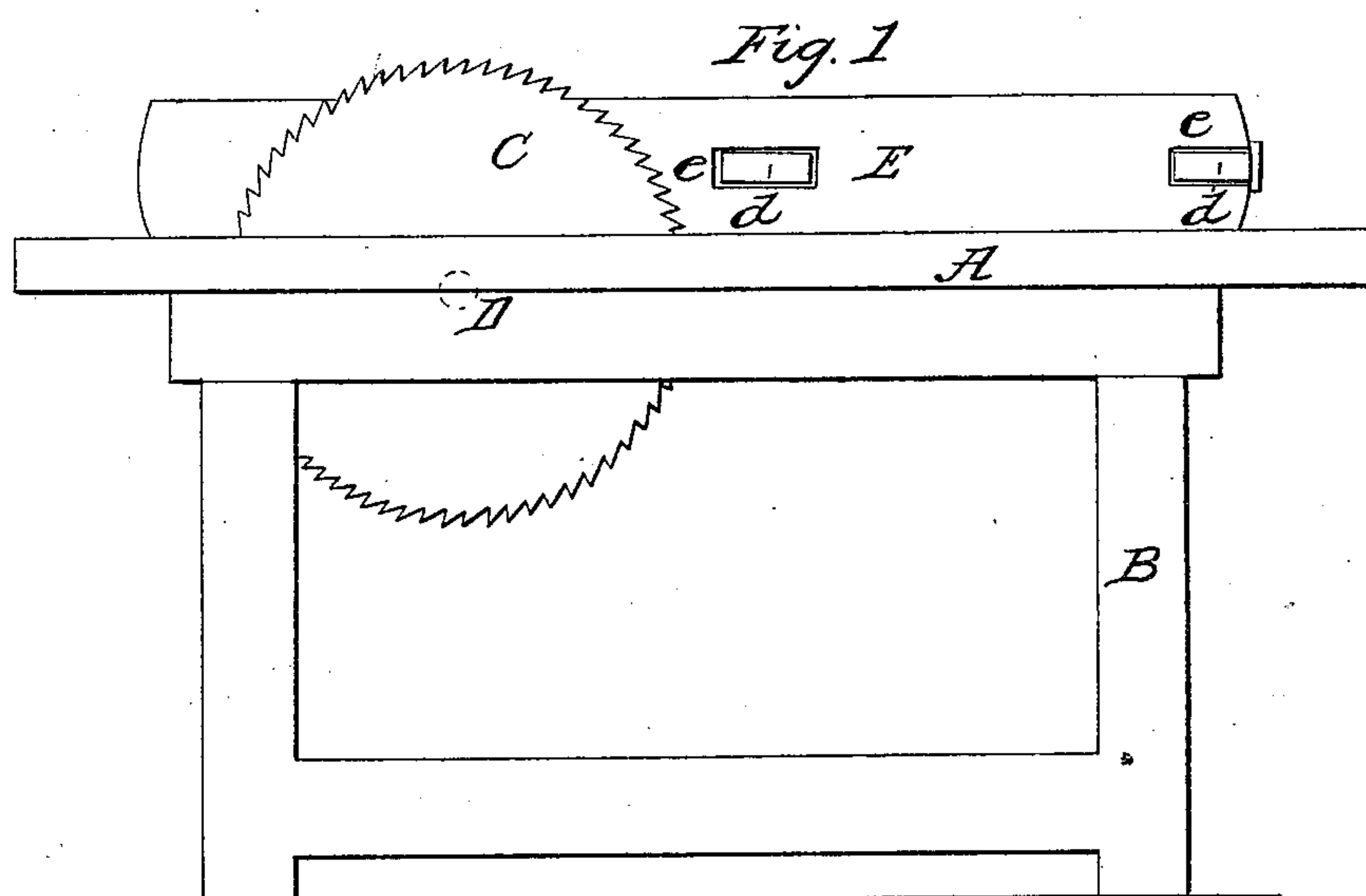


G. W. Worden,
Circular Sawing Machine.
N^o 13,670. Patented Oct. 9, 1855.



UNITED STATES PATENT OFFICE.

GEORGE W. WORDEN, OF FAYETTEVILLE, NEW YORK.

GAGE ATTACHMENT FOR SAWING-MACHINES.

Specification of Letters Patent No. 13,670, dated October 9, 1855.

To all whom it may concern:

Be it known that I, G. W. WORDEN, of Fayetteville, in the county of Onondaga and State of New York, have invented a new and useful Gage Attachment to be Applied to Circular and other Saws; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side view of a frame having a circular saw hung within it and my improvement applied to it. Fig. 2, is a plan or top view of ditto.

Similar letters of reference indicate corresponding parts in the two figures.

The nature of my invention consists in attaching a vibrating gage to the usual or ordinary sliding gage, as will be presently shown and described, whereby the blocks of wood may be sawed in wedge or taper form.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents a platform or bed plate which rests upon a suitable framing B, and C, is a circular saw which is hung upon a shaft, D, on the upper part of the framing, B. The saw, C, extends upward above the platform or bed plate, A, the saw fitting in a slot in the platform or bed plate.

To the upper surface of the platform or bed plate, A, there is attached a sliding gage, E. This gage is constructed in the usual manner, having arms, F, F, attached to it, at right angles said arms having set screws (a) (a) passing through slots (b) in them, and into the platform or bed plate, A.

G, is a lever which is attached by a pivot (c), to one of the arms, F, of the gage, E. at right angles from the ends of the lever G, and is placed about one third the length of the lever from its inner end as shown in Fig. 2. To each end of the lever, G, there is attached an arm (d), these arms project at right angles from the ends of the lever and pass horizontally through slots (e), in the gage, E. The end of the arm (d), at the inner end of the lever, G, is beveled as shown in Fig. 2, the end of the other arm (d), is square, or forms right angle with the sides of the arm. The arms (d), (d), are

of such a length that when the lever, G, is moved so as to throw one arm (d), out from the outer face of the gage, E, the other arm will be thrown within its slot in the gage. This will be understood by referring to Fig. 2. The lever, G, should be a trifle shorter than the block to be sawed, and the inner end of the lever is placed just in front of the saw.

Operation: The block of wood to be sawed, represented by dotted lines in Fig. 2, is placed upon the platform or bed piece A, one side of the block bearing against the face of the gage, E. The block by being held against the gage, E, will press within its slot (e), the arm (d) at the outer end of the lever, G, and force out from its slot (e) the other arm (d) at the inner end of the lever. The block is pressed toward the saw, C, and the arm (d) at the inner end of the lever, G, will throw the block out from the face of the guide, E, and present it obliquely to the saw, C, when the saw has entered the block a short distance, the back end of the block will be past the arm (d), at the outer end of the lever G, and the lever G, then swings free, and the block is pressed toward the saw and a strip or piece of wedge or taper form sawed from the block. The block may be turned end for end when necessary in order that the whole of the block may be sawed. The above device is to be used in sawing shingles and other articles of taper or wedge form. It may be used with either a circular or reciprocating saw, and may be readily applied to saws as usually hung or arranged.

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

The vibrating gage, formed of the lever, G, with arms (d), (d), attached to its ends the lever working on a pivot (c), attached to one of the arms F, of the sliding gage E, and the arms of the lever, G, working horizontally through the gage, E, substantially as shown for the purpose specified.

GEORGE W. WORDEN.

Witnesses:

JOHN WATSON,
GEORGE N. TAYLOR.