

O. Westgate.  
Saw-Mill Head-Block.

No 11,953.

Patented Nov. 14, 1854

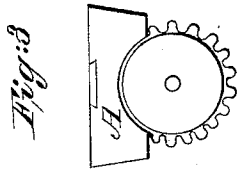


Fig: 1

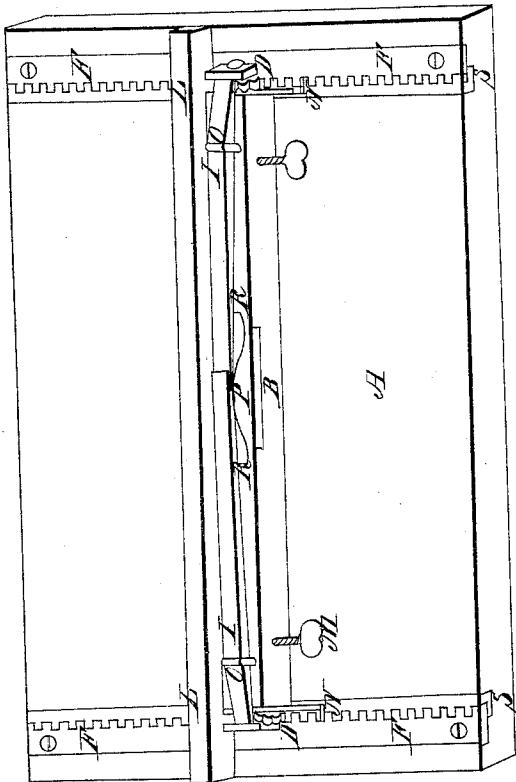
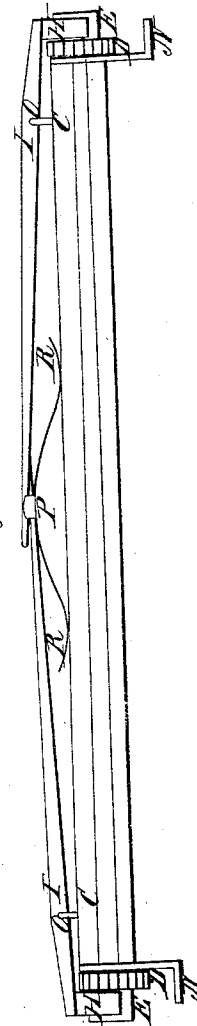


Fig: 2.



# UNITED STATES PATENT OFFICE.

ORSON WESTGATE, OF RICEVILLE, PENNSYLVANIA.

## SAW-GAGE.

Specification of Letters Patent No. 11,953, dated November 14, 1854.

*To all whom it may concern:*

Be it known that I, ORSON WESTGATE, of Riceville, in the county of Crawford and State of Pennsylvania, have invented a new and Improved Gage for Buzz-Saws and Planing-Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and the letters of reference marked thereon.

The nature of my invention consists in the construction of a movable gage which may be adjusted to any desirable distance from the saw blade or planing knife in a moment's time; and is so constructed that it can be moved by the hand, to any distance from the saw blade, and when the hand is off the gage shall remain firm and immovable.

To enable others to make use of my machine, I will proceed to describe its construction and operation, reference being had to the accompanying drawings.

Figure 1 is a perspective drawing of my gage with all its parts adjusted in working order.

A is the bed board to which the gage is attached.

B is a cross piece with a hole passing through its whole length. Through this hole a rod is passed; as shown at C, C, Fig. 2, where one half of the cross piece is cut away to show this rod. On each end of this rod C C, is fixed a cog wheel, D, D, Fig. 1 and Fig. 2. These cog wheels match into the cog racks F F, F F, Fig. 1. The cog wheels D D, have a shoulder on the outside end turned down smaller than the cogged part of the wheel as shown at E E, Fig. 2.

H H, Fig. 2, is a brake block, an end view of which is shown at A Fig. 3. This block fits upon the shoulder of the cogged wheel E E, in a manner similar to the brake of a rail-road car wheel.

I I, Fig. 1 and Fig. 2, are brake handles hung on a hinge fulcrum O O, Fig. 1 and

Fig. 2. The long ends of the brake handles cross each other at P Fig. 1 and Fig. 2.

R R, Fig. 1 and Fig. 2, is a half elliptic spring the ends resting upon the cross piece B, Fig. 1, and the middle of the spring pressing up the long end of the brake handles, P P, Fig. 1, Fig. 2, and thereby pressing the brake blocks, H H, Fig. 2, upon the shoulder of the cog wheel E, E, thereby preventing the cog wheels D D, from turning. On pressing the brake handles I I down at the point, P, with the hand the cog wheel is relieved and will turn freely permitting the cross piece B, Fig. 1, to be moved laterally. The cog racks F F, F F, are marked off in inches for the purpose of convenience in adjusting the gage bar L, L, Fig. 1, at any desired distance from the saw blade or planing knife. This gage bar is attached to the cross piece B by means of two thumb screws M M by which means it may be more easily and accurately adjusted parallel to the saw blade. The cog wheels D, D, are fixed firmly onto each end of the rod C C, shown at Fig. 2, and consequently they will both turn alike by which means both ends of the gage bar L L, Fig. 1, must move exactly alike.

N N, Fig. 1 and Fig. 2, are hooks on each end of the cross piece B which move in a slot S S under the edge of the cog racks F F, F F, to hold the cross piece B and the gage box L L securely in the bed board A.

What I claim as my invention and desire to secure by Letters Patent, is—

The construction of the bed piece A with the cog racks F F, F F, in connection with the cog wheels D D and the breaks I, I, pressed upon the said cog wheels D D by means of the spring R, R, constructed in the manner described or any other construction substantially the same.

ORSON WESTGATE.

Witnesses:

SAMUEL CODE, Jr.,  
A. B. RICHMOND.