

BLACK & GAFFNEY.
 Device for Saw Carriages.

No. 84,046.

Patented Nov. 17, 1868.

Fig. 1.

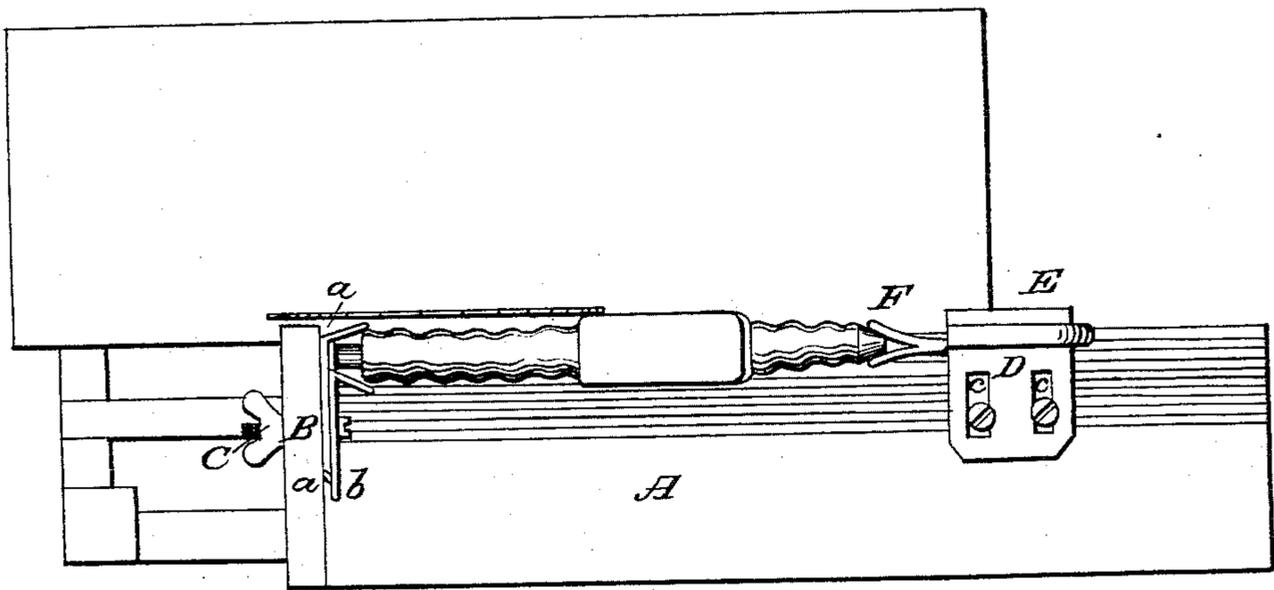


Fig. 2.

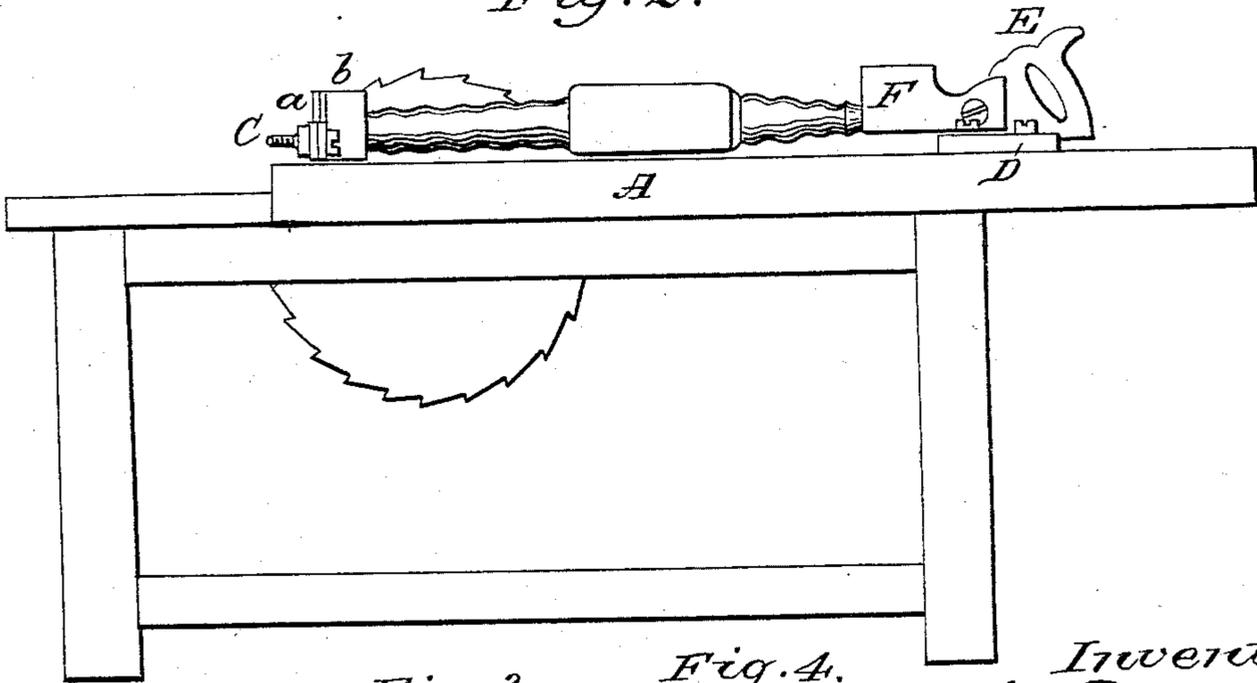


Fig. 3.



Fig. 4.



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United States Patent Office.

LEVI BLACK AND MILTON GAFFNEY, OF LOGAN, OHIO.

Letters Patent No. 84,046, dated November 17, 1868.

IMPROVEMENT IN DEVICE FOR SAW-CARRIAGES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, LEVI BLACK and MILTON GAFFNEY, of Logan, in the county of Hocking, and State of Ohio, have invented a new and improved Combined Gauge and Clamping-Device for Saw-Carriages, for holding turned work, for squaring and sizing the same; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a plan view.

Figure 2 is a side elevation.

Figure 3, a perspective view of block, with notch for holding work cornerwise, for taking off the corners.

Figure 4, view of vertical single-plate stop or holder detached.

Like letters in different figures of the drawings indicate like parts.

Nature.

Our invention consists of adjustable holders, with clamp and gauge, for squaring and sizing the unturned part of bed-posts, table-legs, and other turned work, the holders at one end being two sliding plates, provided with flanges flaring in opposite directions. At the other end of the saw-carriage, the holder is made v-shape, and attached to a sliding stop, with handle, which serves as a clamp.

A proper scale for gauging the size of the work is marked on the sliding plates and on the saw-carriage.

A block with a v-shape notch is used for holding the work in proper position for taking off the corners, so as to form an octagon.

Construction.

A is the saw-carriage, on one end of which is attached the stationary block B. Slotted plates, *a* and *b*, provided with flanges at one end, are attached to block B, by the screw and thumb-nut C, as seen in fig. 1. Adjustable plate D, with slots *c c*, is attached, by screws, to the other end of the carriage.

E is a sliding stop, with handle, working in a dove-tail groove in plate D.

F is a v-shape holder attached, by a screw, to sliding stop or clamp E, as shown in figs. 1 and 2.

G is a block with a v-shape notch, to be used for holding the work cornerwise when the corners are to be taken off.

H is a single vertical plate-stop or holder, to be attached to stop or clamp E, instead of holder F, when the work may require it.

The saw is hung so that the face thereof is at right angles with the face of the saw-carriage.

Operation.

The plates and holders being so adjusted as to bring the work in the required position to the saw, the carriage is moved forward. (See fig. 1.) The side of the work thus straightened by the saw, is then turned down upon the carriage, and the saw, working at right angles with the face of the carriage, squares the second side with the first, and the other two sides are squared in like manner, and the work made the required size by means of the gauge on plate *a* and on carriage A.

If the work has one true side, that should be placed on the carriage and the others squared to it, as above described.

To take off the corners and form an octagon, the notched block G is used. Stop or holder H is for use instead of holder F, when the work may require it; and any other centre or holder required may be attached to the sliding top or clamp E, in same manner.

We are aware of the patent, No. 76,740, to O. P. Furman, dated April , 1868, for improvement in planing-machines, and we hereby disclaim the use of the devices of that invention.

Claim.

Having thus fully described our invention, What we claim therein as new, and desire to secure by Letters Patent, is—

Adjustable plates *a* and *b*, holders F and H, sliding stop or clamp E, and plate D, herein described, constructed, combined, and arranged to operate in the manner and for the purpose set forth.

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Witnesses:

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