D. Foster,

Bench Plane.

No. 7,395. Patented May 28, 1850.

Fig. 1.

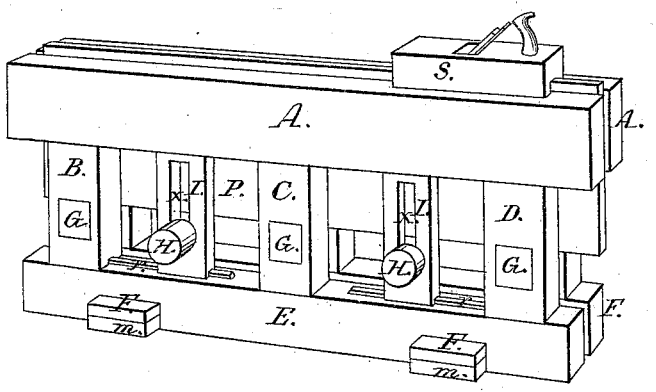


Fig. 2.

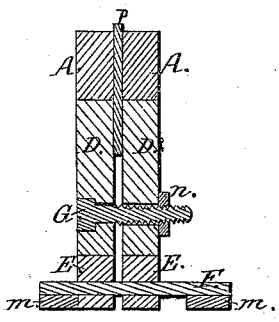
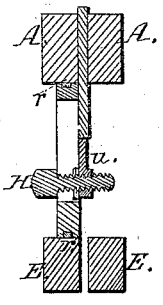


Fig. 3.



UNITED STATES PATENT OFFICE.

DAVID FOSTER, OF WHITESTOWN, NEW YORK.

APPARATUS FOR JOINTING BOARDS.

Specification of Letters Patent No. 7,395, dated May 28, 1850.

To all whom it may concern:

Be it known that I, DAVID FOSTER, of Whitestown, in the county of Oneida and State of New York, have invented a new and useful Machine for Jointing Boards; and I do hereby declare that the following is a full and exact description of the construction and operation of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1, is a perspective view, and Figs. 2, and 3, are transverse sections.

Two frames, twelve feet long, each consisting of a horizontal beam A, three posts B, C, D, and a sill E, are placed parallel to each other, and two inches apart. These frames are connected and supported by two cross bars F F, which pass through the sills, and to the under side of each end of each cross bar is attached a foot-block *m m*. The frames are moreover connected by three horizontal screws G G G, the heads of which are square and embedded in the posts of the front frame, while the threaded part of each screw extends through the posts of the rear frame, and on the rear ends thereof, have screw-nuts *n n*, whereby the two frames are occasionally made to approach each other. Another mode of adjusting these screws is to have them fitted to inverse screw threads formed in the rear posts, while the heads of the screws project in front of the front posts, to be turned by hand as occasion requires. Between each two of the front posts is a sliding post I, which extends from the sill to the beam. In the top and bottom of each sliding post is a longitudinal groove matched to ledges *r r*, which are attached to the top and bottom of the front beam, and serve as guides; and the sliding posts have each a vertical slot or oblong aperture X to accommodate a set screw H, which extending rearward enters a gage rest *u*, to which the screw thread is fitted. The sliding posts may be adjusted at any required distance from each other, and the gage rest may be adjusted at any required height by means of the set screws, and serves to support a board or plank P P, that may be placed between the frames for the purpose of having its upper edge planed straight and square; the frames being adjusted at a convenient distance from each other to accommodate the thickness of the plank to be jointed or planed, and the tops of the beams being perfectly straight and level or square at the top thereof. A plane S, of the construction of an ordinary fore-plane or short jointer, with the exception of having a longitudinal groove from one to two inches wide and half an inch deep, in the bottom or face side thereof is used to plane the edges of the boards or planks adjusted between the frames; and by means of which an inexperienced person may perform work with more accuracy and facility than a skilful workman by the ordinary mode.

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

The combination of the grooved plane with the guides A, the sliding posts I, and adjusting screws G, and H, arranged in the manner and for the purpose herein described.

DAVID FOSTER.

Witnesses:

WHITING SMITH,

NAT F. EDGERTON.