O. C. BARNES.

Machine for Making Glue-Joints.

No. 162,600. Patented April 27, 1875.

Fig. 1.

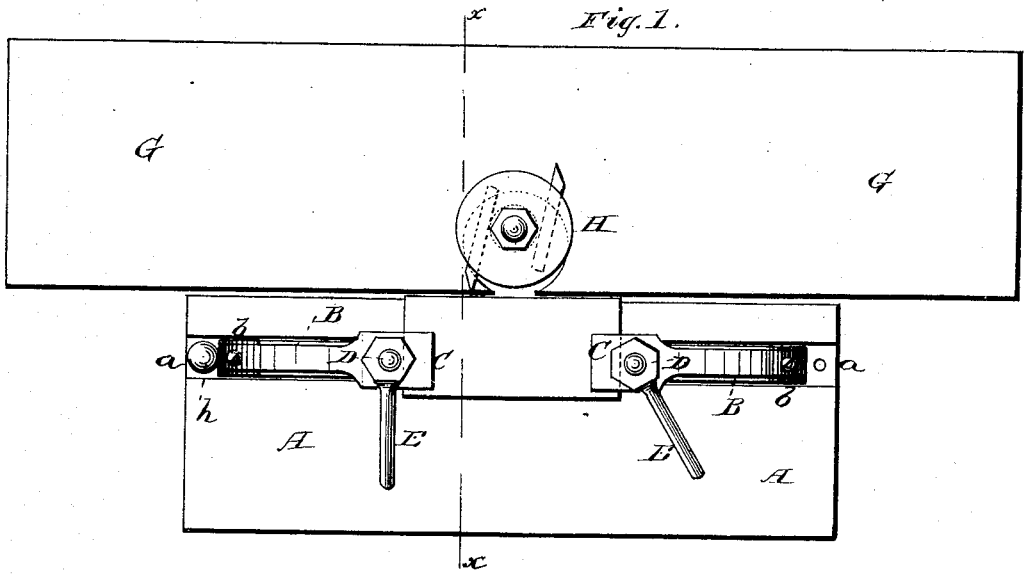


Fig. 2.

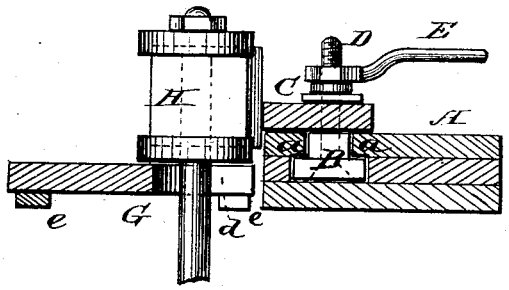
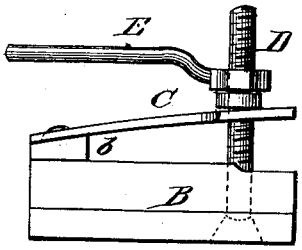


Fig. 3.



WITNESSES:

P. C. Dieterich.

W. B. McArthur.

INVENTOR:

O. C. Barnes

per.

T. H. Alexander

ATTORNEY.

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE

ORAMEL C. BARNES, OF CHAMPAIGN, ILLINOIS.

IMPROVEMENT IN MACHINES FOR MAKING GLUE-JOINTS.

Specification forming part of Letters Patent No. **162,600**, dated April 27, 1875; application filed March 22, 1875.

To all whom it may concern:

Be it known that I, O. C. BARNES, of Champaign, in the county of Champaign and State of Illinois, have invented certain new and useful Improvements in Machine for Making Glue-Joints; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a sliding form, an adjustable guide, and two adjustable clamps or spring-blocks, the guide being made perfectly straight, and fastened to the top of a molding or other suitable machine by means of two hand-screws or otherwise, as will be hereinafter more fully set forth.

In the accompanying drawing, Figure 1 is a plan view of my invention. Fig. 2 is a central vertical section on line *x x*, Fig. 1; and Fig. 3 is an enlarged view of one of the blocks B.

The sliding form A is constructed of substantial material, (of hard lumber,) and of three thicknesses, so put together as to form a T-shaped groove, *a*, running the entire length of the form, and near the face or straight edge of the same. This groove is adapted to receive two T-shaped clamps or spring-blocks, B B, and allow them to slide toward the center of the form, so as to hold any desired length of stock. The clamp, of which the spring C is a part, is fastened to the block by means of a bolt, D, passing up through the block, the head being countersunk in the under side. The outer end of the spring C is fastened to a bevel-block, *b*, on the clamp-block B, which gives it an inclined or open position to receive the stock, and the clamp is operated by means of a tail-nut, E, working on the bolt D.

By means of the two blocks and clamps I am enabled to hold the board firmly to the form.

The adjustable guide G is made of one thickness of lumber, of any desired length, and made perfectly straight on one edge, with a circular hole, *d*, cut out of the edge, to allow the cutter-head H to pass up through it. Narrow strips *e e* are fastened longitudinally on the under side of the guide G, to raise the same from the table, so that no dust need get between the sliding form A and guide G while in use.

The operation of my invention is as follows: After the guide is placed in position the board that is to be straightened is fastened to the sliding form A by means of the clamps, one of said clamps being fastened to the form by means of a pin, *h*. The edge of the sliding form is thus pressed against the guide, and the form moved steadily past the rapidly-turning cutter-head, which cuts away that portion of the board that projects over the edge of the form in a perfectly straight and even manner, making what is called a perfect glue-joint.

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

The combination of the sliding form A, provided with T-shaped groove *a*, clamps B C D E, and the guide G, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ORAMEL C. BARNES.

Witnesses:
G. W. HARWOOD,
P. T. PLATT.