

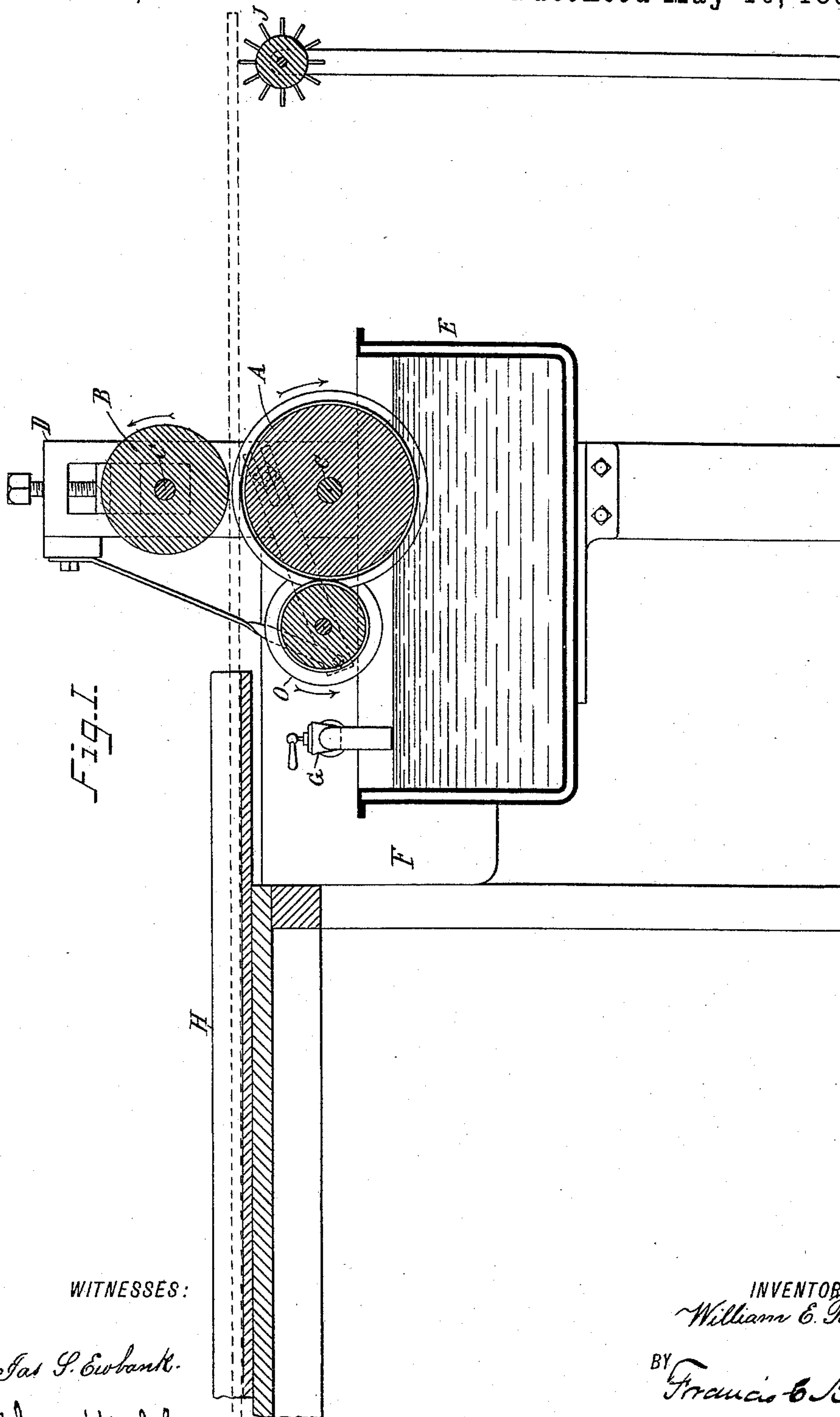
(No Model.)

2 Sheets—Sheet 1.

W. E. BROCK.
GLUING MACHINE.

No. 474,572

Patented May 10, 1892.



WITNESSES:

*Jas. P. Eubank.
 Chas. W. Ahlert.*

INVENTOR

William E. Brock

BY

Francis C. Bowen

ATTORNEY.

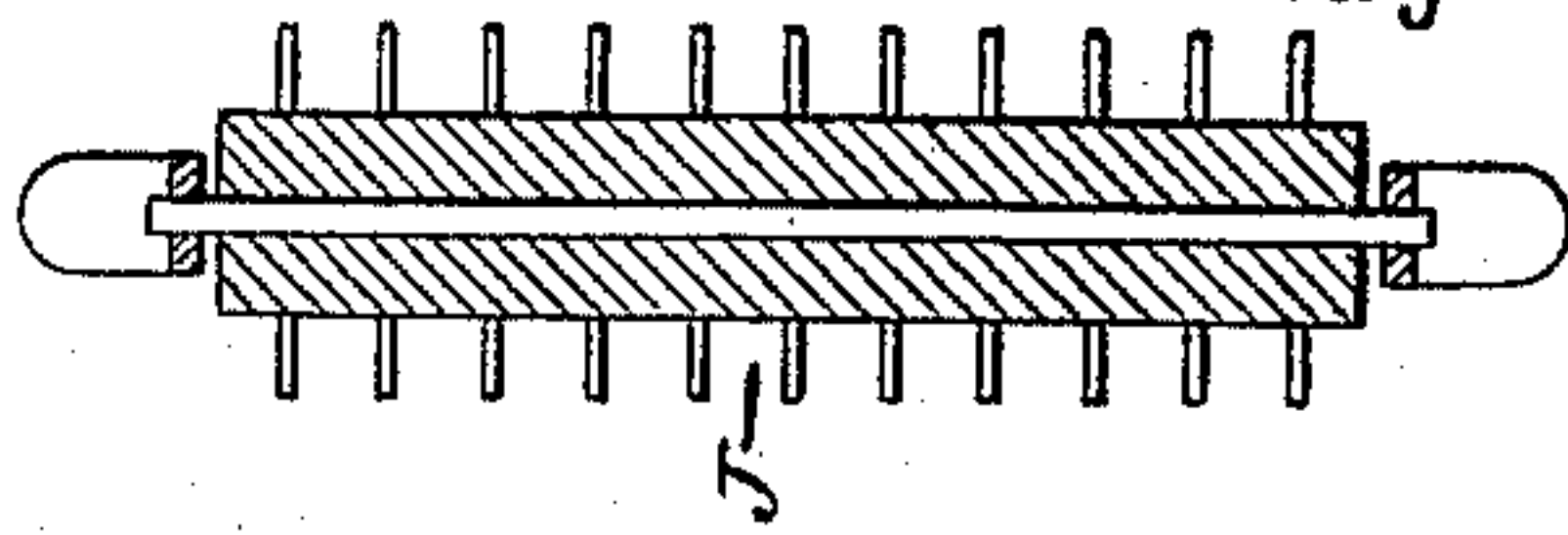
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UNITED STATES PATENT OFFICE.

WILLIAM E. BROCK, OF PLAINFIELD, NEW JERSEY.

GLUING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 474,572, dated May 10, 1892.

Application filed April 24, 1891. Serial No. 390,249. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. BROCK, a citizen of the United States, and a resident of Plainfield, in the county of Somerset and State of New Jersey, have invented certain new and useful Improvements in Gluing-Machines, of which the following is a specification.

My invention is a machine designed to be used for the purpose of applying a layer of glue or other like substance to the surface of a board and of a veneer to be applied to such board.

In the process of veneering lumber the board is first coated with a layer of glue. The veneer also is coated with a layer of glue, and then the veneer is laid upon the board and united thereto, as by means of a suitable implement operating to press the veneer upon the board.

In the accompanying drawings, Figure I represents a vertical longitudinal section of a machine embodying my invention. Fig. II represents a plan or top view, partly in section, thereof. Fig. II* represents a longitudinal section of a supporting-roller. Figs. III and IV represent, respectively, a cross-section of a board to be veneered and a longitudinal section of the leading end of a board used to support the veneer in its introduction to and passage through the machine. Fig. V represents a cross-section of the veneer-supporting board.

Similar letters of reference indicate similar parts.

The letter A indicates the main or gluing roller, and B the pressure-roller, both mounted by means of shafts C in standards D. In practice these rollers are geared together by cog-wheels A' B' to revolve in unison with each other.

At a point below the gluing-roller A is a reservoir E, containing sufficient of said roller to adapt it to take the glue therefrom, and alongside of this reservoir is a supply-tank F, which is connected with said reservoir by a faucet G for maintaining a uniform supply of glue to the reservoir.

The gluing-roller A is designed to apply a surface coating of glue to the board, as well as the veneer, passing between it and the pressure-roller B, and in order to regulate the

thickness of such coating a wiper-roller O is used; the same being arranged in superficial contact with the main roller A, as more clearly shown in Fig. I. A portion of the main roller A is shaped to conform to one surface and the edges adjacent to such surface of the board to be veneered, one form of which board is shown in Fig. III, while the remaining portion of said roller is plain or cylindrical, and the wiper-roller O conforms to the main roller A. At a point opposite to each of said portions of the main roller A is a trough H, extending transversely to the roller-axis, one of which troughs constitutes a guide for the board to be veneered and the other a guide for a veneer-supporting board I, Figs. IV and V. This board I has transverse grooves near its one end, which is the leading end thereof, to receive the edges of a sliding clamp I', serving to hold the veneer to the board during the process of gluing it, said clamp being fitted to said end of the board and into the grooves.

The pressure-roller B is cylindrical as to its effective area, and it is located above the gluing-roller A, with a space between it and the latter approximately equal to the thickness of the board to be veneered.

In applying the machine to use for the purpose of gluing a board the latter is introduced between the proper portion of the rollers A B by placing it in one of the guide-troughs H. The veneer to be applied to the board is then passed through the machine between the proper portions of the rollers A B by uniting the leading end of the veneer to the supporting-board I by the clamp I', as indicated in Fig. IV. The veneer is then to be disconnected from the supporting-board I and laid upon and united to the board previously glued. In the repeated use of the veneer-supporting board I it is important that the board shall remain free from glue, and to fulfill this condition the board is formed with a longitudinal recess I², Fig. V, at each edge of the surface thereof receiving the veneer, the effect of these edge recesses being to keep the board entirely out of contact with the gluing-roller. After the board or the veneer leaves the gluing-roller A it is received on a supporting-roller J, the periphery of which is formed of

a series of pins, thereby bringing the least portion of said roller in contact with the article.

When the board to be veneered has a groove in one of its edges, as shown in Fig. III, one side of this groove should be coated with glue for securing the veneer which is to be folded into the groove, and to effect this purpose a brush S (shown by dotted lines in Fig. II) is arranged at one end of the gluing-roller A in superficial contact therewith, so as to take the glue from said roller and transfer the glue to the desired part of the groove—namely, in the passage of the board between the rollers. The support for the brush S is a bracket S', which is fastened to one of the standards D or some other fixed part of the machine.

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

20 1. A machine for gluing lumber, having, in combination, the gluing-roller with a portion thereof shaped to conform to one surface and the edges adjacent thereto of the board to be veneered, the remaining portion of said roller
25 being cylindrical, the cylindrical pressure-roller above the gluing-roller, the wiper-roller in contact with the gluing-roller, and the glue-reservoir containing the gluing-roller, the whole adapted to operate substantially as
30 herein described, for the purpose set forth.

2. A machine for gluing lumber, having, in combination, the gluing-roller with a portion shaped to conform to one surface and the edges adjacent thereto of the board to be veneered, the remaining portion of said roller
35 being cylindrical, the brush at one end of and in contact with the gluing-roller, the cylindrical pressure-roller above the gluing-roller, the wiper-roller in contact with the gluing-roller, and the glue-reservoir containing the gluing-
40 roller, the whole adapted to operate substantially as herein described, for the purpose set forth.

3. A machine for gluing lumber, having, in combination, the gluing-roller with a portion
45 thereof shaped to conform to one surface and the edges adjacent thereto of the board to be veneered, the remaining portion of said roller being cylindrical, the transverse guide-trough opposite the gluing-roller, the cylindrical
50 pressure-roller above the gluing-roller, the wiper-roller in contact with the gluing-roller, and the gluing-reservoir containing the gluing-roller, the whole adapted to operate substantially as herein described, for the purpose
55 set forth.

WILLIAM E. BROCK.

Witnesses:

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