

No. 753,662.

PATENTED MAR. 1, 1904.

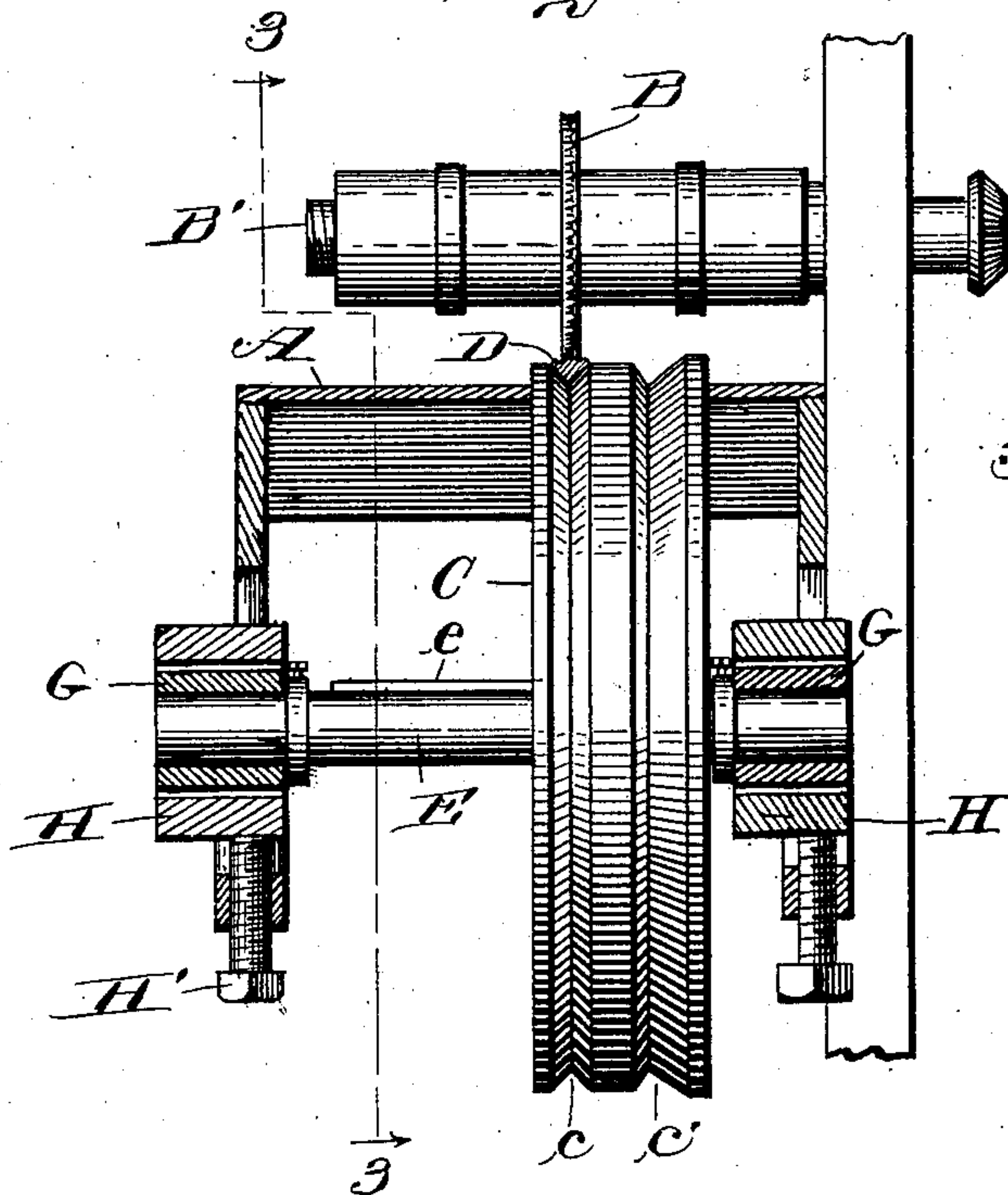
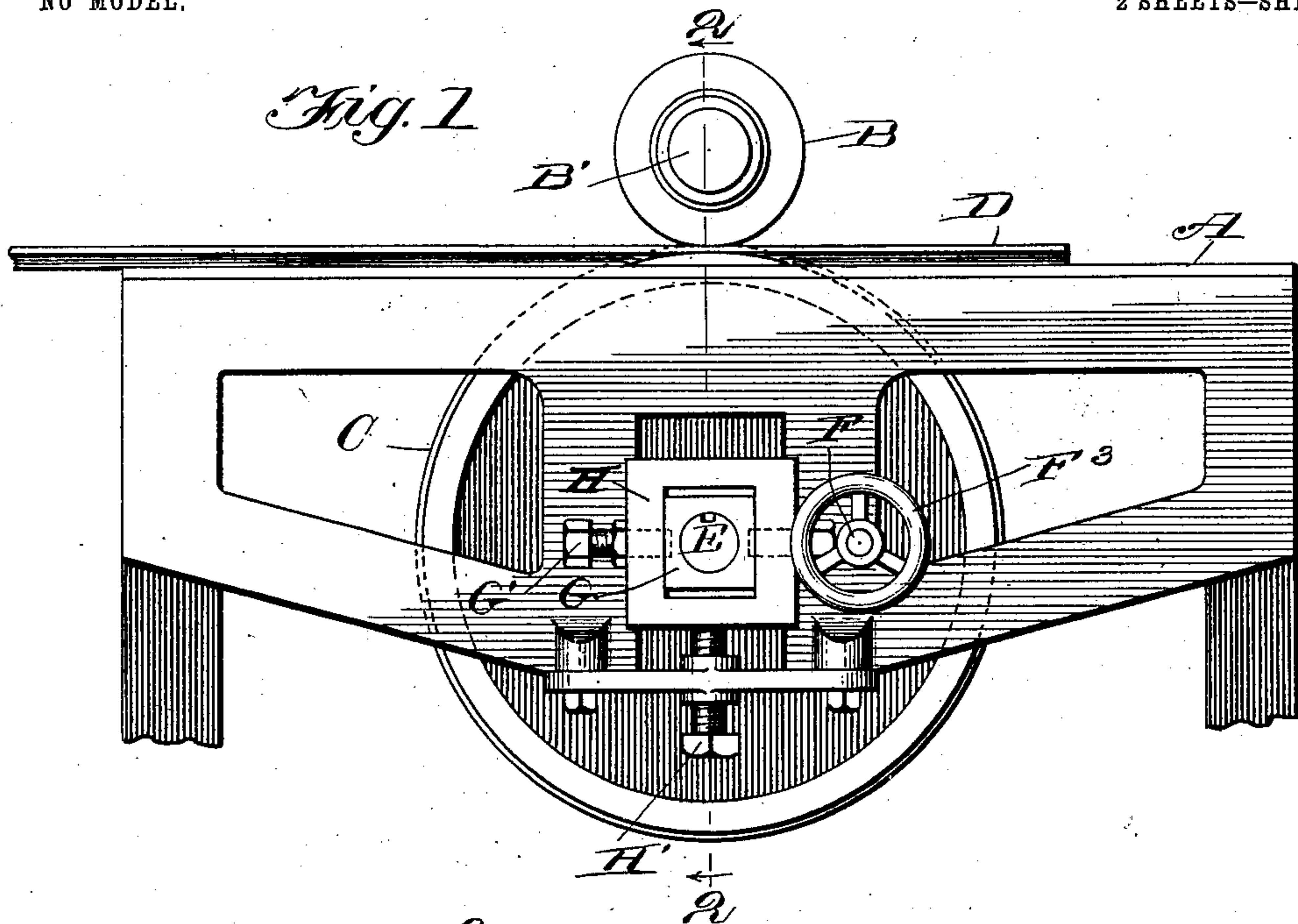
A. BRESEMANN.

SUPPORTING ROLLER FOR EMBOSsing MACHINES.

APPLICATION FILED MAY 29, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses:

*H. S. Gaither*

*Clara C. Cunningham* by

Inventor:

*August Breseman*

*Lambert and Milkman*  
His Attorneys.

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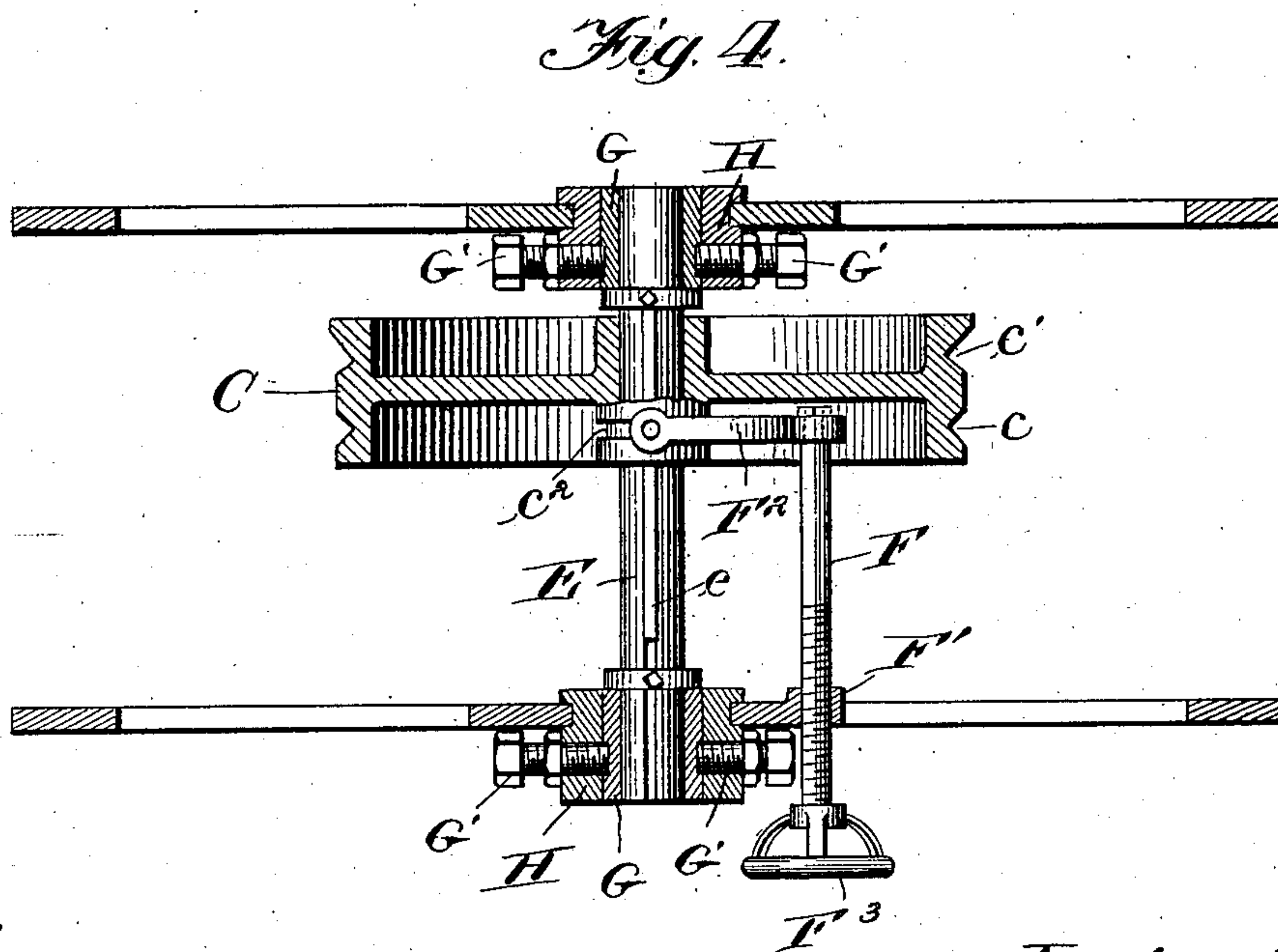
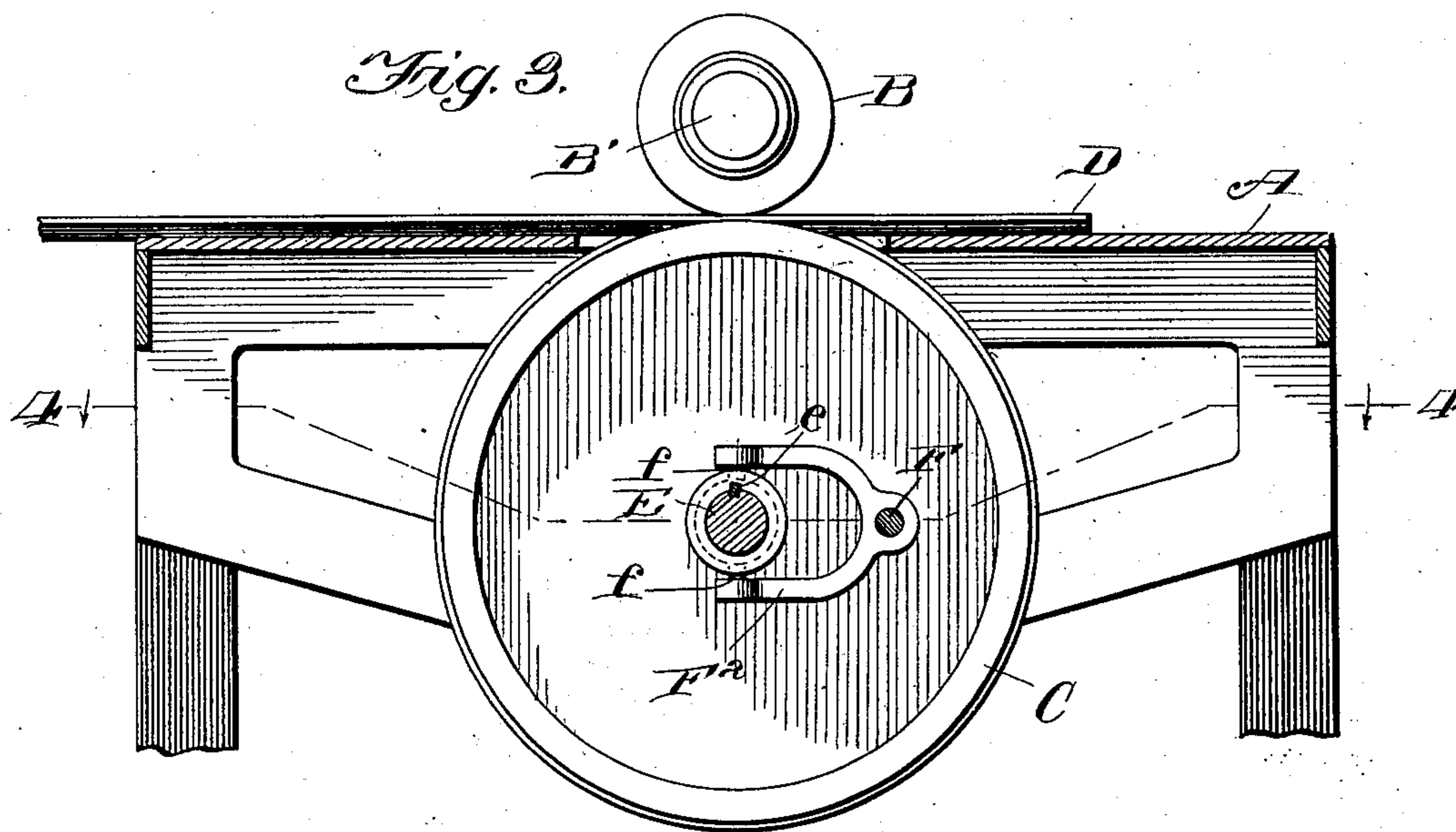
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## SUPPORTING ROLLER FOR EMBOSSING MACHINES.

APPLICATION FILED MAY 29, 1902.

NO MODEL.

2 SHEETS—SHEET 2.



*Witnesses:*

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# UNITED STATES PATENT OFFICE.

AUGUST BRESEMAN, OF CHICAGO, ILLINOIS

## SUPPORTING-ROLLER FOR EMBOSSING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 753,662, dated March 1, 1904.

Application filed May 29, 1902. Serial No. 109,413. (No model.)

*To all whom it may concern:*

Be it known that I, AUGUST BRESEMAN, a citizen of the United States, residing at Chicago, county of Cook, State of Illinois, have  
 5 invented a certain new and useful Improvement in Supporting-Rollers for Embossing-Machines; and I declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to  
 10 which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates in general to machines for ornamenting wood, and more particularly  
 15 to adjustable means for supporting the wood to be ornamented in the desired relation to the embossing-dies.

My invention has for its object the provision of a supporting-roller provided in its periph-  
 20 ery with one or more grooves and mechanism whereby the periphery of the supporting-roller may be adjustable with relation to the periphery of the embossing die or roller, so that it will form a universal support for any  
 25 of the various forms of molding that are to be passed through the machine.

In carrying out the invention, Figure 1 represents a side elevation of that portion of the machine embodying my invention. Fig. 2 is a  
 30 cross-section on the line 2 2, Fig. 1; Fig. 3, a vertical section on the line 3 3, Fig. 2; and Fig. 4, a horizontal section on the line 4 4, Fig. 3.

Reference-letter A represents the frame or  
 35 table of the machine.

B represents the embossing die or roller located on the shaft B' and driven in any suitable manner. It has the usual embossing periphery common to this style of machine. As  
 40 the embossing-die forms no part of my invention, I will not further describe the same.

C is my supporting-roller, having in its periphery the grooves *c c'*. The table A is cut away to allow the periphery of the roller C  
 45 to project up through the table and coact with the embossing-die as the molding D is passed between them. The roller C is located on the shaft E and is keyed thereto by the feather or spline *e*, although capable of adjustment  
 50 along said shaft. Any suitable means may be

employed for adjusting the roller C on the shaft, that shown being the screw-threaded rod F, engaged to the frame F' by the screw-threads provided on its end with a fork F<sup>2</sup>, having pins *f*, that engage in the groove *c*<sup>2</sup> on  
 55 the hub of the roller C. The screw-threaded shaft F is provided with a hand-wheel F<sup>3</sup>, so that when it revolves it adjusts the wheel C along the shaft E. The shaft E is journaled at each end in the main frame A by the bear-  
 60 ings G. These bearings G are in turn pivoted in the boxes H by the screws G', so that the bearings G may tilt in the boxes H. The latter are vertically adjustable in the frame A by means of tongue-and-groove joints, the  
 65 boxes H being held at the desired height of adjustment by the set-screws H'.

The operation of the machine will now be understood. The desired embossing-roller is first placed in the machine on the shaft B' and  
 70 is adjusted as nearly as practicable to register with one of the grooves *c c'* of the supporting-roller. By means of the hand-wheel F<sup>3</sup> the supporting-roller is then adjusted along its shaft until the center of the periphery of  
 75 the embossing-roller exactly registers with the groove in the supporting-roller. The supporting-roller is then adjusted by means of the boxes H, so that the molding when supported  
 80 by the groove will have that surface which it is desired to emboss exactly under the embossing-surface of the embossing-roller. In this vertical adjustment of the boxes H the bearings  
 85 G, moving on the pivots G', will adjust themselves, and consequently the shaft E, with relation to the boxes H, so that there is always  
 a square and firm bearing for the shaft.

It will be observed that by means of the adjustment just described the periphery of the supporting-roller may be moved on the arc of  
 90 a circle with the shaft of the roller as the center, so as to bring the supporting-groove in the periphery of the supporting-roller at the correct angle to support the molding firmly underneath the embossing-roller. By this  
 95 means one roller with one or perhaps two or three grooves in its periphery can be made to take care of and support any form of molding that is being embossed, irrespective of the di-  
 100 mensions of the embossed face or of the sides



of the molding. It will be further observed that by adjusting the supporting-roller axially upon the shaft upon which it is carried it may be accurately located in alinement with the embossing-die in all inclined positions of such shaft. In other words, an adjustment of the inclination of the shaft which carries the supporting-roller would vary the position of the grooves in the roller and carry them out of alinement with the embossing-die were it not for the adjustment of the roller axially upon its shaft.

From the foregoing description it is evident that I have invented an improved machine for ornamenting wood in which strips of various thicknesses may be ornamented, in which any desired face on a strip may be presented to the embossing-die by varying the inclination of the shaft upon which the work-supporting roller is carried, and in which the surface of the wood to be embossed is accurately located with respect to the embossing-die by axially adjusting the supporting-roller upon its shaft.

What I claim is—

1. In a machine of the character described, the combination with an embossing-die, of a support for holding the material to be embossed in the desired position relatively to the die, a shaft upon which said support is carried, means for adjusting said support axially upon said shaft and thereby locating the same in any desired position with respect to the die, bearings in which the ends of said shaft are supported, and means for separately adjusting said bearings to different relative heights whereby said shaft may be inclined in the direction of its length and the angular position of the support with respect to the die thereby varied.

2. In a machine of the character described, the combination with an embossing-die, of a roller for supporting the material to be embossed in the desired relation to said die, a rotary shaft upon which said roller is carried, means for adjusting said supporting-roller axially upon said shaft thereby enabling the same to be located in any desired position with respect to the embossing-die, bearings in which the opposite ends of said shaft are journaled, boxes in which said bearings are pivotally mounted, and means for independently adjusting said boxes whereby the plane of rotation of said roller may be adjusted and the relation of the periphery of the roller to the die thereby varied.

3. In a machine of the character described,

the combination with an embossing-roller, a rotary shaft upon which said roller is carried, means for rotating said shaft, a roller for supporting the material to be embossed in the desired relation to said embossing-roller, a second rotary shaft upon which said supporting-roller is carried, means for adjusting said supporting-roller axially upon said second rotary shaft and thereby permitting said supporting-roller to be located in any desired position with respect to said embossing-roller, bearings in which the opposite ends of said second shaft are journaled, boxes in which said bearings are pivotally mounted, and means for independently adjusting said boxes whereby the plane of rotation of said supporting-roller may be adjusted and the relative positions of the peripheries of the embossing and supporting rollers thereby varied.

4. In a machine of the character described, the combination with an embossing-die, of a support for holding the material to be embossed in the desired position relatively to the die, said support having grooves formed in the periphery thereof by which the material to be embossed is guided, a shaft upon which said support is carried, means for adjusting said support axially upon said shaft and thereby locating the same in any desired position with respect to the die, bearings in which the ends of said shaft are supported, and means for separately adjusting said bearings to different relative heights whereby said shaft may be inclined in the direction of its length and the angular position of the support with respect to the die thereby varied.

5. In a machine of the character described, the combination with an embossing-die, of a roller for supporting the material to be embossed in the desired relation to said die, a rotary shaft upon which said roller is carried, bearings in which the opposite ends of said shaft are journaled, connections between said supporting-roller and shaft for permitting the former to be moved axially upon the latter, a grooved hub projecting from said roller, a yoke engaging said groove, means for adjusting said yoke and thereby locating said roller in any desired position relatively to the embossing-die.

In testimony whereof I sign this specification in the presence of two witnesses.

AUGUST BRESEMANN.

Witnesses:

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CLARA C. CUNNINGHAM.