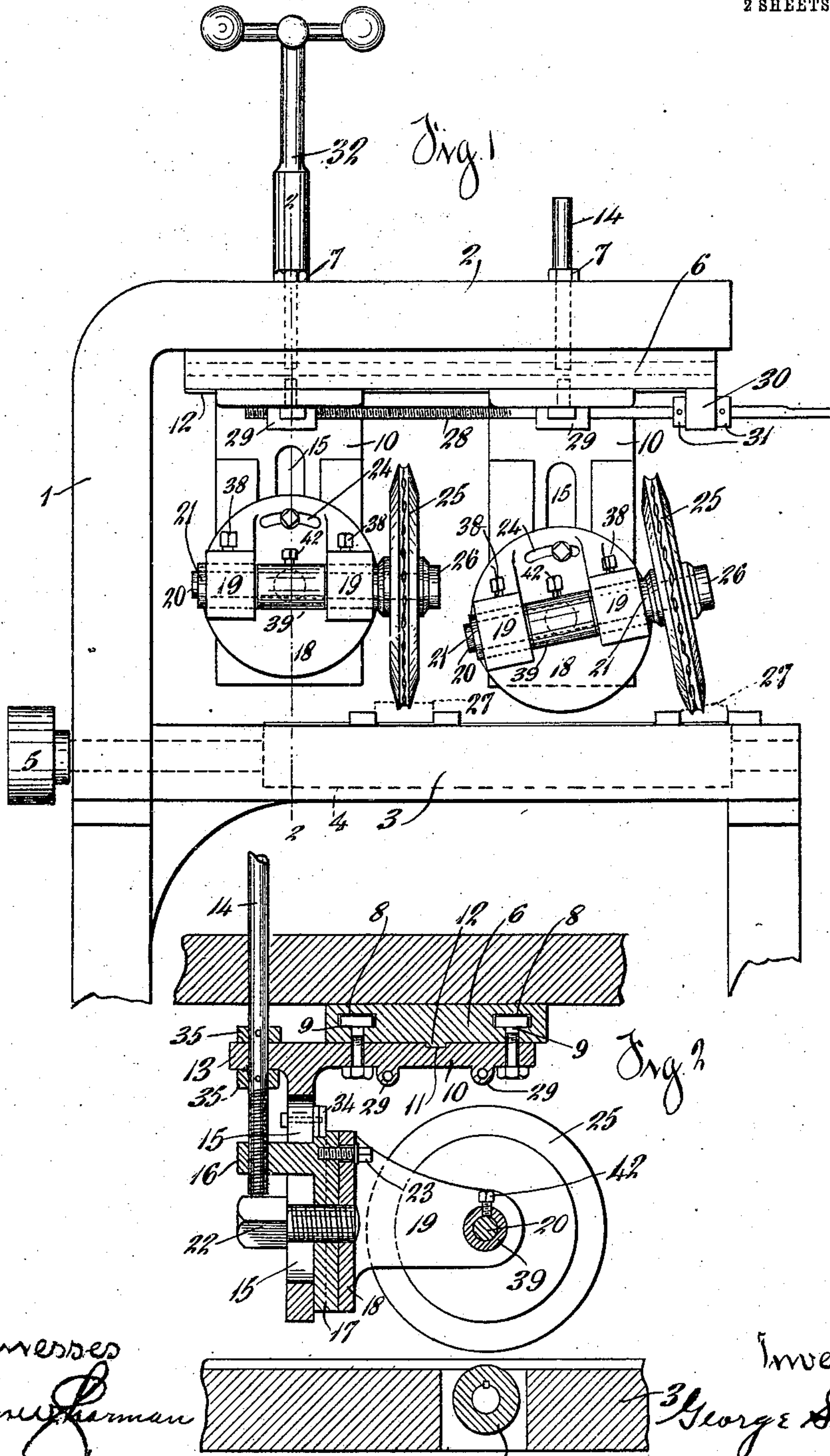


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MACHINE FOR ORNAMENTING WOOD.
APPLICATION FILED JAN. 29, 1910.

966,605.

Patented Aug. 9, 1910.

2 SHEETS—SHEET 1.



Witnesses
Owen J. Haman
Florence Haman

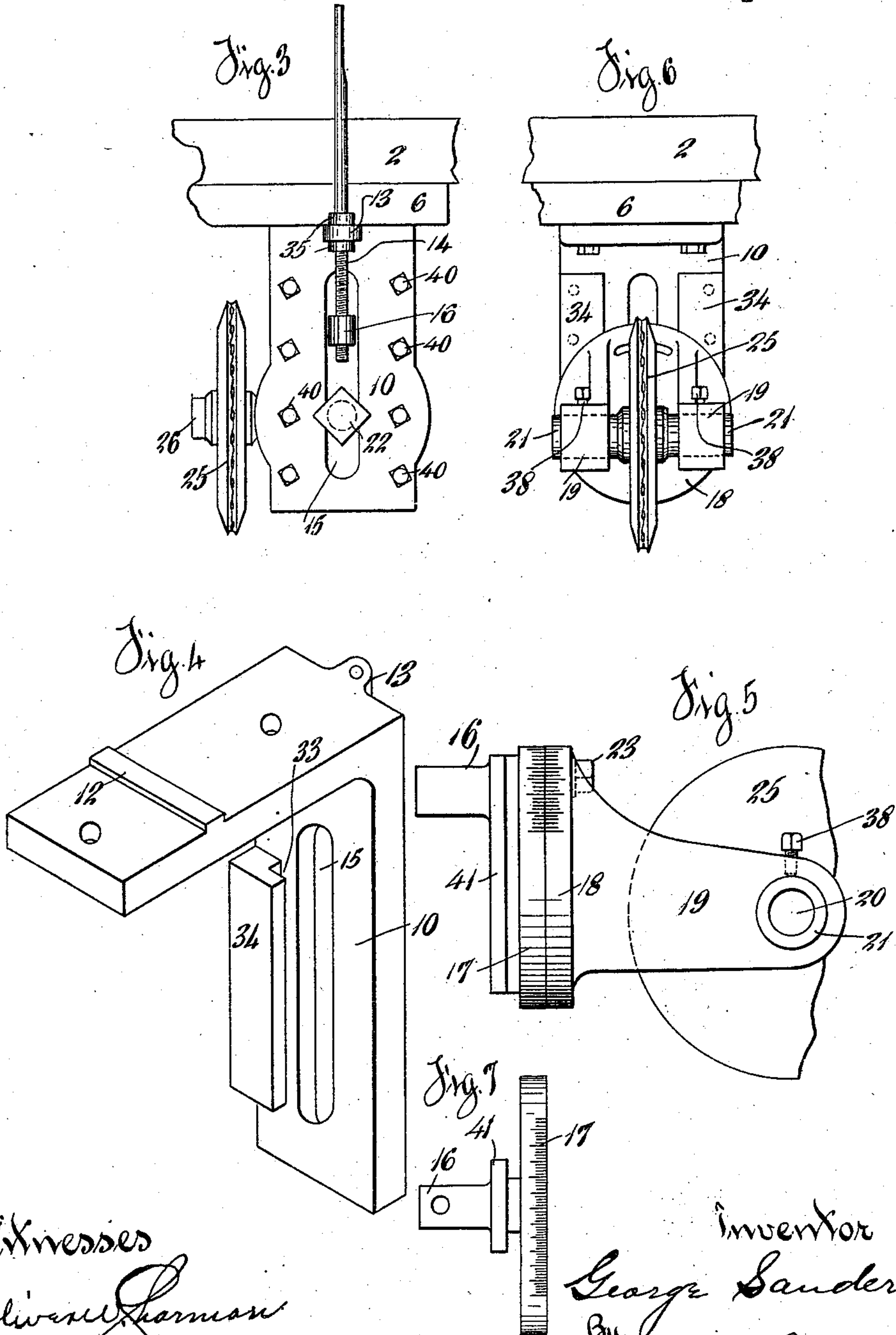
Inventor
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Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE SANDER, OF CINCINNATI, OHIO, ASSIGNOR TO THE REUHL MOULDING MANUFACTURING COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

MACHINE FOR ORNAMENTING WOOD.

966,605.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed January 29, 1910. Serial No. 540,824.

To all whom it may concern:

Be it known that I, GEORGE SANDER, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Machines for Ornamenting Wood, of which the following is a specification.

My invention relates to machines for ornamenting wood.

The object of my invention is to provide means for increasing the capacity and efficiency of machines for ornamenting wood, and to produce a device of simple construction in which a plurality of dies is adapted to be mounted and easily and quickly adjusted vertically, laterally and circumferentially independently of one another.

My invention consists briefly in a frame of any suitable construction, a plate mounted upon said frame, supports slidably mounted on said plate upon which are mounted brackets adapted to carry a plurality of embossing or ornamenting dies, which brackets are adapted to be adjusted circumferentially and vertically relative to said supports.

My invention also consists in the parts and in the peculiar combination and arrangement of parts as herein set forth and claimed.

The base of the machine may be constructed in the ordinary manner and an ordinary type feed roll may be placed therein to feed the molding through the machine. This, however, forms no part of my invention.

In the drawings, which serve to illustrate the construction and use of my invention: Figure 1 is a front elevation of a wood ornamenting machine equipped with my invention. Fig. 2 is a cross section taken on the line 2—2 of Fig. 1. Fig. 3 is a view looking at the back of one of my improved brackets for holding a die. Fig. 4 is an isometric view of a support which is adapted to sustain the bracket which holds one of the dies. Fig. 5 illustrates the bracket upon which the die is mounted, and which is adapted to be mounted upon the support shown in Fig. 4. Fig. 6 is a front view showing the die or embossing member placed in the center of the bracket which supports it. Fig. 7 is a top view of the base plate for the bracket.

Referring more particularly to the drawings, in which I show a preferred construction of my invention, I provide a frame 1

which may be of the ordinary type having a horizontal member 2 at the top and a horizontal member 3 thereunder in which is mounted a feed roll 4 adapted to be driven by means of a pulley 5, or other suitable means. Mounted upon the horizontal member 2 of the frame 1 is a plate 6 which is fastened to the horizontal member 2 by means of bolts 7. The plate 6 is provided with slots 8 extending throughout its length, in which slide projections 9 on the adjustable support 10. The adjustable support 10 is also provided with a spline way 11 and the plate 6 is provided with spline 12 adapted to take therein. The slidable support 10 is also provided with a lug 13 thereon through which a main adjusting screw 14 passes. The slidable support 10 is further provided with an elongated slot 15 adapted to receive a lug 16 on the base plate 17. Mounted upon the base plate 17 is a bracket 18 having lugs or arms 19 thereon which are provided with suitable openings or bearings at the outer ends to receive the shaft 20 and sleeve 21. The base plate 17 and bracket 18 are fastened together by means of a screw 22 and the bracket 18 is held in its relative position circumferentially by means of a set screw 23 which passes through a slot 24 in the bracket 18. Mounted on the shaft 20 is the embossing die 25. Said shaft is preferably formed with a head 26 on one end against which the hub of the die 25 bears. The sleeves 21 are placed around the shaft 20 inside of the arms 19 for the purpose of properly spacing the die 25, and are secured to the arms 19 by means of set screws 38. A sleeve 39 is placed on the shaft between the arms 19 and is fastened to the shaft by means of set screw 42. When it is desired to tilt the die 25 at an angle, the set screw 23 is first loosened and then the screw 22 is loosened when the die may be placed in any desired angle. In Fig. 1 one of the dies 25 is shown at a slight angle, the molding being shown in dotted lines at 27.

For the purpose of adjusting the dies in relation to each other laterally, I provide screws or bolts 28 which are mounted in suitable lugs 29 on the supports 10 and in a lug 30 on the plate 6. The screw 28 is held in position by means of the collars 31 on each side of the lug 30. One of these screws 28 is furnished for each adjustable support 10, one screw 28 being fastened to the lug 29

on one of the adjustable supports 10 and the other screw 28 being fastened to the lug 29 on the other adjustable support 10. Thus, one adjusting screw 28 is provided for each adjustable support, thereby adjusting them laterally independently of each other. The lugs 29 are threaded in order that the entire support 10 may be moved laterally relative to the plate 6. When it is desired to adjust the dies vertically it is first necessary to loosen the bolts 40 which fasten plates 34 to the support 10 and which clamp the base plate 17 between the plates 34 and the support 10, thereby holding it securely, and then adjust the main adjusting screw 14 by means of the key 32.

The base plate 17 is guided along the adjustable support 10, when it is being adjusted vertically, by means of a groove 33 formed in said support 10 by means of the plates 34 fastened thereon. The plates 34 are bolted on the support 10 in the position shown in Fig. 4 by bolts 40. The base plate 17 is best shown in Fig. 7, and is provided with the extension 41 which is adapted to be clamped to the support 10 by plates 34. It is readily seen how the base plate 17 is adjusted vertically by sliding the said extension 41 on the base plate 17 vertically in the slot 33 formed by the plates 34, after the bolts 40 are loosened.

The main adjusting screw 14 is held in its position vertically by means of collars 35 which are pinned to it, one on each side of the lug 13 on the main support. Thus, when the main adjusting screw 14 is turned it either raises or lowers the base plate 17 because it passes through the lug 16 which is threaded to receive said main adjusting screw. If it is desired to place the die in the center of the main adjustable support 10 instead of at the side as it is shown in Fig. 1, the die 25 may be placed between the lugs or arms 19 of the bracket 18 as shown in Fig. 6. If it is necessary to mount the die between the arms 19 of the bracket 18, the die may be placed in such position by removing the sleeve 39 and substituting the die 25.

My invention is particularly adapted to be used for embossing molding, and it is readily seen the advantage of having a plu-

rality of dies mounted on the same machine in order that a plurality of molding strips may be run through the machine at the same time and thereby greatly increase the capacity of the machine. The means of mounting the embossing dies which I employ allows them to be used on either end of the shaft 20 or at the center of said shaft between the arms 19. Thus, two or more embossing dies 25 can be used upon the same or separate moldings and in close proximity to each other either parallel or at different angles to each other. The radial adjustment of the bracket 18 being provided with graduations or index characters permits of duplicating work at any given angle.

Many modifications of my invention may be made without departing from its spirit and scope, and I do not, therefore, wish to be confined to the exact details shown.

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

1. In a machine for ornamenting wood having a top, a plate mounted on said top, supports slidably mounted on said plate, means for adjusting said supports laterally relative to said plate and independently of each other, base plates mounted on said supports, means for adjusting said base plates vertically, brackets mounted on said base plates, ornamenting dies mounted on said brackets, means for angularly adjusting said brackets, and means for securing said brackets in any desired position, substantially as set forth.

2. In a machine for ornamenting wood comprising a main frame, a plate secured thereto, a plurality of supports slidably and adjustably attached to said plate and movable relatively to each other, a base plate for each support and adjustable vertically thereof, a bracket upon each base plate and adjustable circumferentially thereof, arms upon said brackets, a shaft supported by said arms, and a die for each shaft, substantially as set forth.

GEORGE SANDER.

Witnesses:

JAMES N. RAMSEY,
FLORENCE HAMMEL.