

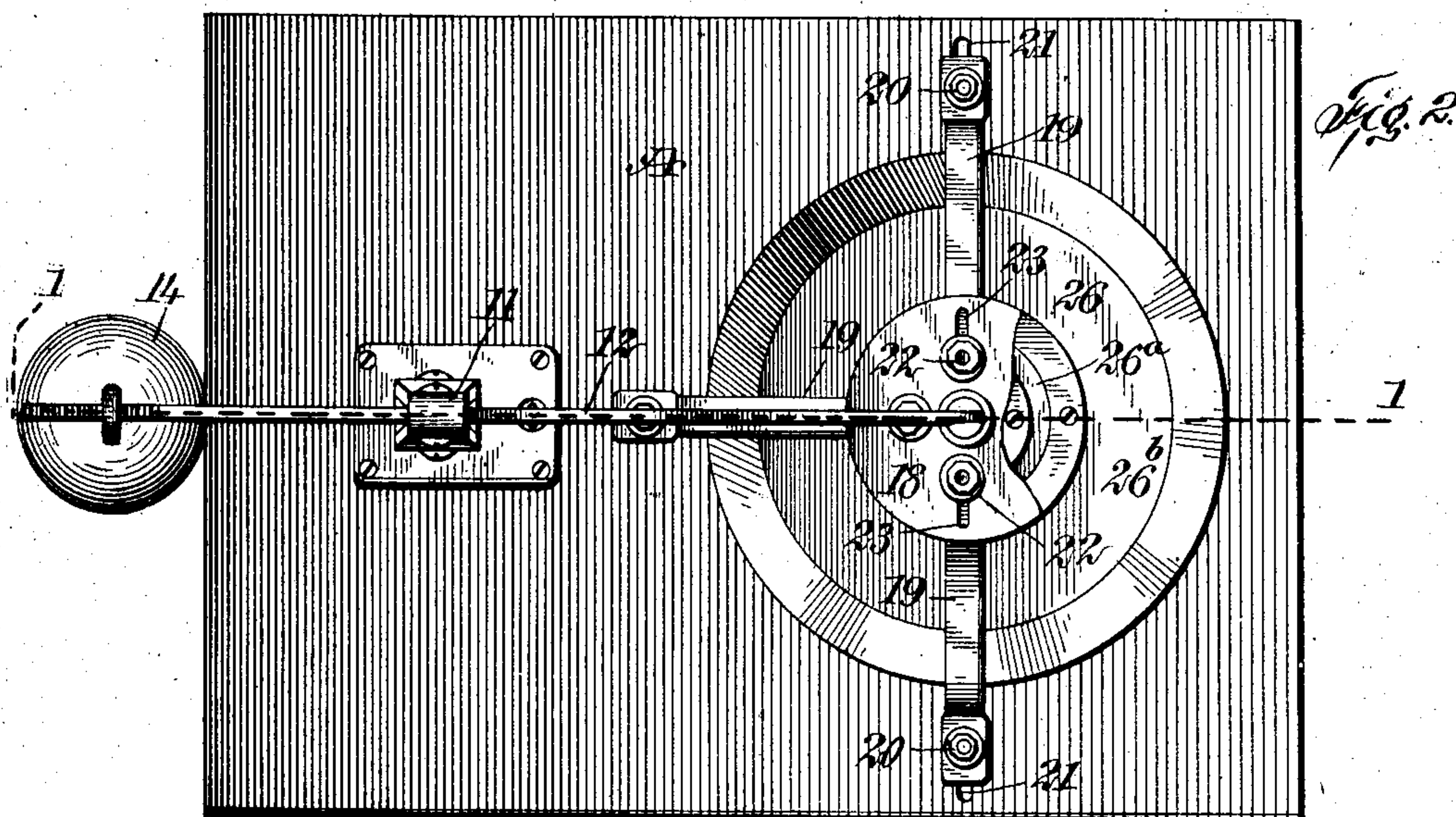
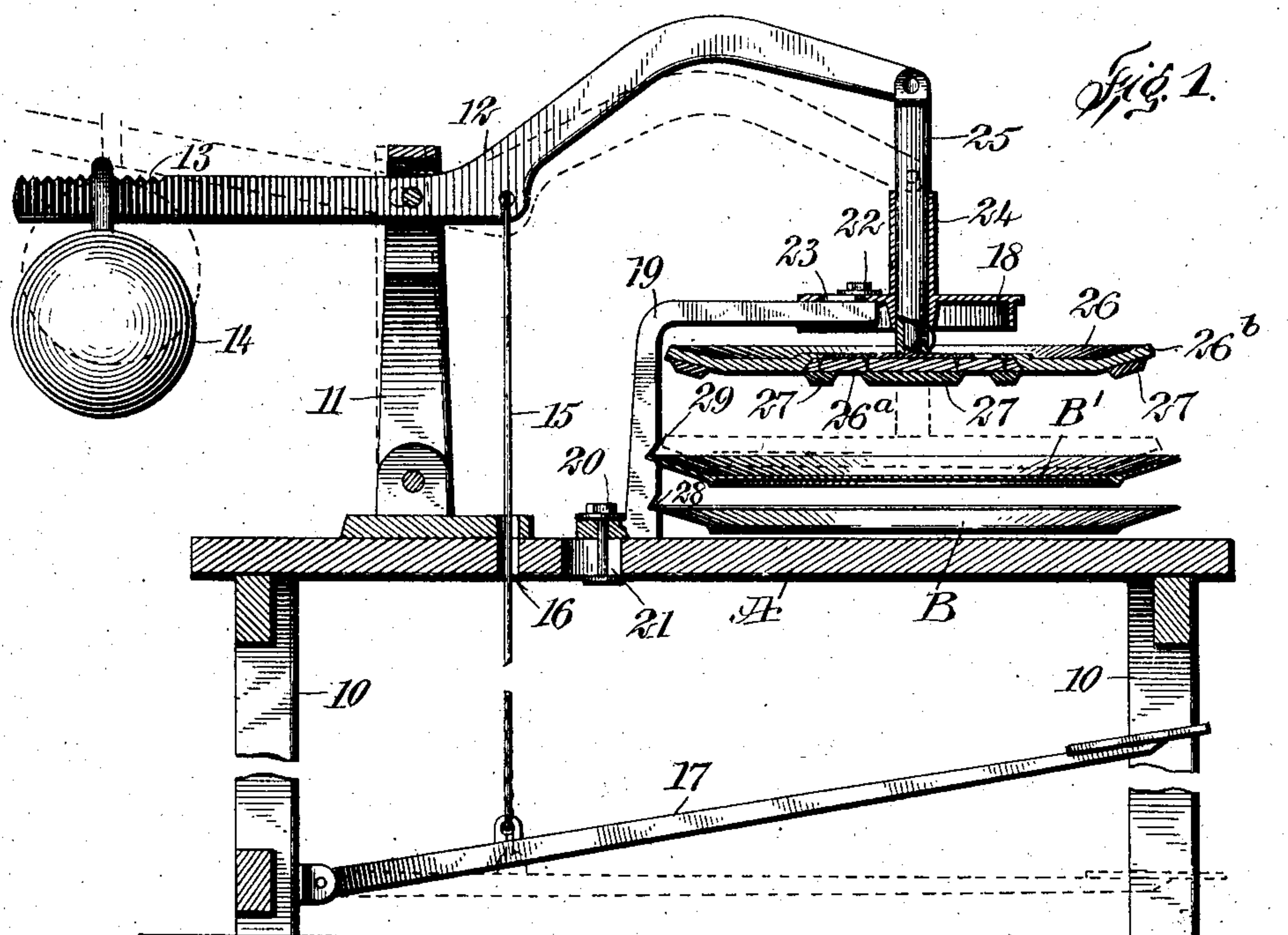
No. 834,181.

PATENTED OCT. 23, 1906.

C. E. BELL.

MACHINE FOR DECORATING DISHES.

APPLICATION FILED OCT. 11, 1905.



**WITNESSES:**

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# UNITED STATES PATENT OFFICE.

CHARLES E. BELL, OF KITTANNING, PENNSYLVANIA.

## MACHINE FOR DECORATING DISHES.

No. 834,181.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed October 11, 1905. Serial No. 282,258.

*To all whom it may concern:*

Be it known that I, CHARLES E. BELL, a citizen of the United States, and a resident of Kittanning, in the county of Armstrong and State of Pennsylvania, have invented a new and Improved Machine for Decorating Dishes, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide a very simple and readily-operated machine whereby decorations may be stamped wherever desired upon dishes, one operation only of the machine being necessary to effect the decoration of a dish.

A further purpose of the invention is to provide a machine whose construction essentially comprises a plunger-operated stamp-support, to which stamps or pads carrying the design or designs are applied, and guide-supports for the dish to be decorated.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both figures.

Figure 1 is a central vertical section through the improved machine, said section being taken practically on the line 1 1 of Fig. 2; and Fig. 2 is a plan view of the machine, a portion thereof being broken away.

A represents a bench or table which is shown supported by suitable legs 10, and upon this bench or table a standard 11 is erected, which standard is longitudinally slotted for a portion of its length to receive one end of a lever 12, the said lever being fulcrumed to the said standard. At the outer end of the lever, or that end which is to the rear of its fulcrum, notches 13 are provided to receive the loop of a counterbalance-weight 14. A rod 15 is pivotally connected with the lever 12 at a point in front of its fulcrum, and this lever is shown as passed down through an opening 16 in the bench or table A and is pivotally connected at its lower end to the foot-treadle 17 fulcrumed to a suitable support below the bench or table, as is illustrated in Fig. 1.

A series of supporting-arms 19 (three as shown, but which may be increased in number as circumstances require) are located on the table or support A in front of the standard 11 and below the forward or inner end of the lever 12, which latter portion of the

said lever is usually more or less arched, as is also shown in Fig. 1. These supporting-arms 19 each comprise a horizontal upper member and a vertical member, the latter member being secured to the table or bench A in an adjustable manner by means, for example, of bolts 20, which pass through extensions from the vertical members of the supports and through slots 21 made in the said table, as is likewise shown in Fig. 1.

The supporting-arms 19 are so arranged that when three are used one is immediately in front of the standard 11, extending longitudinally of the said table or bench, while the other two extend transversely from the side edges of the table or bench, being at right angles to the longitudinal arm, and the space between the vertical members of the transverse arms at the front end of the table is sufficiently large to permit the dish to be decorated to be introduced between the said arms.

The inner ends of the horizontal members of the supporting-arms 19 are adjustably attached to a disk 18, and this disk 18 is ordinarily provided with a downwardly-extending marginal flange, cut away where the horizontal members of the said arms are introduced, and the adjustable attachment is accomplished between the said arms 19 and the disk 18 by means of bolts 22, passed through slots 23 in the disk and through the inner end portions of the said supporting-arms, as is clearly shown in the drawings.

The disk 18 is provided with a central opening, and around this opening a guide-sleeve 24 is located, usually integral with the disk, and the said sleeve may extend a short distance below the under face of the disk and a greater distance beyond its upper face, as is shown in Fig. 1. A plunger 25 is pivotally connected to the forward or inner end of the lever 12, and this plunger has sliding and guided movement in the aforesaid sleeve 24.

A stamp-support 26, shaped correspondingly to the dish to be decorated, is attached to the lower end of said plunger 25 in a removable manner, any suitable means being provided for such purpose, and upon the under face of the stamp-support 26 stamps 27 are suitably secured, which stamps carry the design or designs to be impressed on the dish.

The vertical member of each supporting-arm 19 is provided at its inner edge with two notches—a lower notch 28 and an upper notch 29, as is shown in Fig. 1. A dish B of the same



shape as the dish to be decorated is made to rest upon the table or bench A, and the edge of the dish is made to enter the lower notches 28 in the said supporting-arms, as is shown in Fig. 1. On this lower dish B the coloring-matter is placed, being deposited on the said dish B at such points as are to be decorated on the dish B' to be operated upon. The dish B' to be operated upon is supported in position to be engaged by the stamps 27 when the stamp-support 26 is lowered by placing the edge of the said dish B' in the upper notches or recesses 29, as is also shown in Fig. 1.

In the operation of the machine the dish B' to be decorated is not placed in position until the stamp-support and plunger have been carried down, so that the stamps 27 may take up the coloring-matter from the supply-dish B. Then after the plunger is raised, and consequently the stamp-support 26, the dish B' to be decorated is placed in the position above stated and which is shown in Fig. 1, whereupon the stamp-support is again carried down, and upon engagement of the stamps 27 with the dish B' the desired decorations are printed on the said dish. The dish B' is then removed and treated in the usual manner, and the plunger and stamp-support are again brought down to receive another supply of coloring-matter from the supply-dish B, and on these lines the operation is continued.

The weight 14 serves to return the stamp-support to its upper position when the treadle 17 is relieved from pressure; but it will be understood that the weight may be substituted by a spring and that the plunger 25 may be operated otherwise than by the foot-treadle—as, for example, by hand.

Although I do not confine myself to any particular construction of stamp-support, preferably the stamp-support is made in two or more parts separable one from the other—as, for example, two parts 26<sup>a</sup> and 26<sup>b</sup>, as is illustrated—the part 26<sup>a</sup> being that which can be employed in decorating the center only of the dish and the outer part 26<sup>b</sup> is that which is employed for decorating the marginal portion of the dish, and stamps may be used upon one or the other of these parts or upon both as needed.

It will be understood that any equivalents for the notches 28 and 29 may be employed and that any required number of supporting arms and legs may be used as the shape of the dishes to be decorated may demand.

This machine is exceedingly simple, durable, and effective in its operation and can be applied to any table, bench, or equivalent support.

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

1. In a machine for decorating dishes, a series of supports having sections adapted for the reception of a dish to be decorated and a dish to supply coloring-matter, a guide device attached to the said supports, a plunger operating in the guide device, a stamp-support carried by the said plunger and located above the receiving-sections in said supports, and means for vertically operating the said plunger.

2. In a machine for decorating dishes, a tension-controlled lever, a plunger connected with the said lever, a disk provided with a guide-sleeve through which the plunger operates, supports adjustably connected with the said disk, a base on which the said supports are adjustably mounted, the supports being provided with notches in their inner edges at points near their lower ends, and a stamp-support of a shape corresponding to that of the dish to be decorated, which stamp-support is connected with the said plunger, and means for operating the said lever.

3. In a machine for decorating dishes, a table, a standard erected on the table, a tension-controlled lever fulcrumed in said standard, means for operating the said lever, a series of angular supports, each comprising a vertical and a horizontal member, which supports are adjustably connected with the said table, each support being provided with a series of notches in the inner edge of its vertical member, a disk adjustably connected with the inner end portions of the horizontal members of the supports, the said disk being provided with a guide-sleeve, a plunger pivoted to the said lever, operating in the said guide-sleeve, a stamp-support shaped to correspond to the shape of the dish to be decorated, connected with said plunger, and stamps located upon the under face of the said stamp-support.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES E. BELL.

Witnesses:

M. F. LEASON,  
MYRTLE D. THOMPSON.