R. SCHILLING.

BOX STAMPING MACHINE.

APPLICATION FILED MAY 6, 1908.

904,811. Patented Nov. 24, 1908.

Fig. 2.

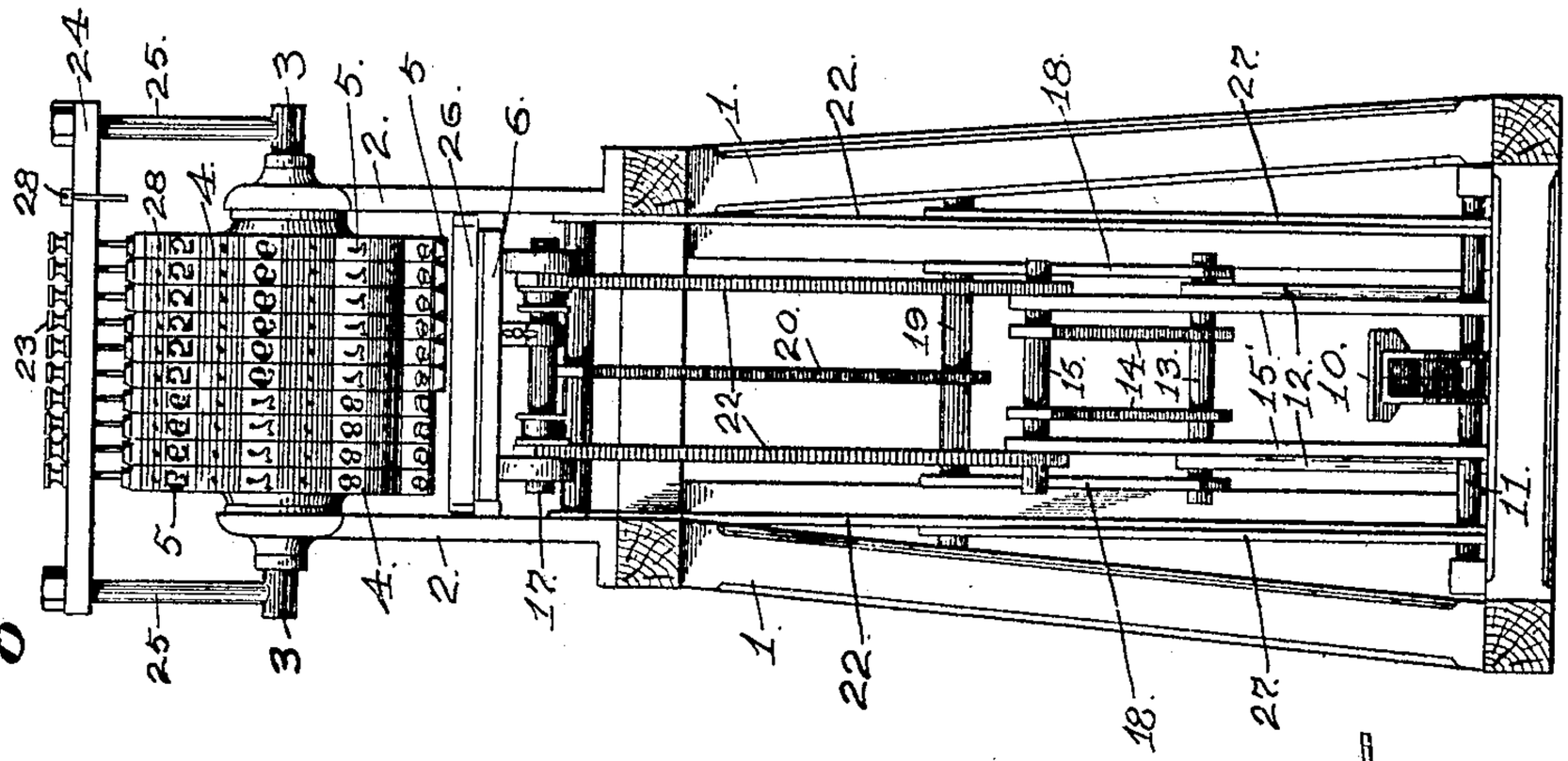
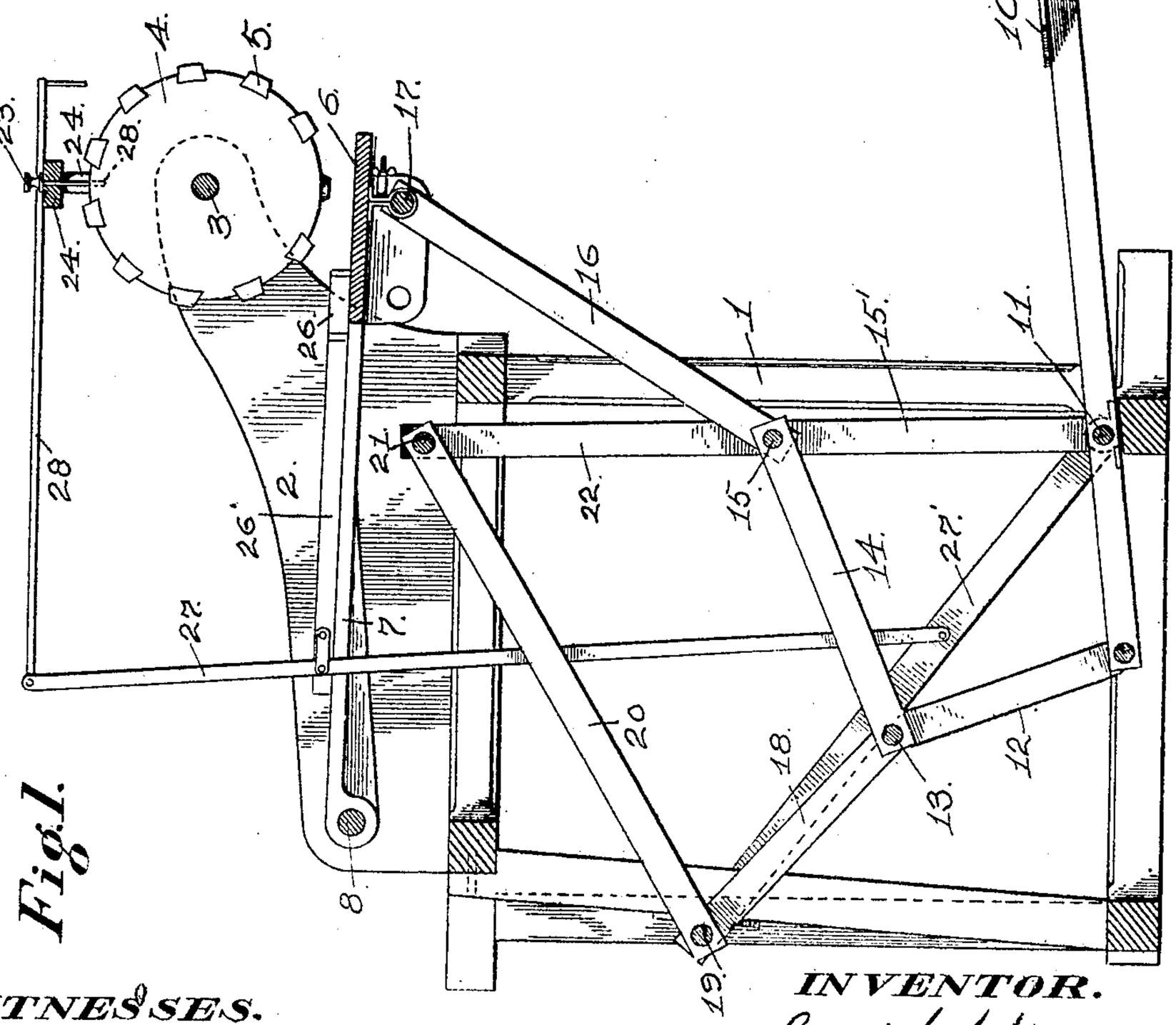


Fig. 1.



WITNESSES.

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RUDOLPH SCHILLING, OF OAKLAND, CALIFORNIA.

BOX-STAMPING MACHINE.

No. 904,811. Specification of Letters Patent. Patented Nov. 24, 1908.

Application filed May 6, 1908. Serial No. 431,206.

To all whom it may concern:

Be it known that I, RUDOLPH SCHILLING, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Box-Stamping Machines, of which the following is a specification.

The present invention relates to an improved apparatus for stamping a serial number on the exterior surface of a packing box for the reception of canned goods, the object being to stamp a packing box or case with a number indicative of the serial number given to each package of a group of packages contained therein, so that errors committed in the packing of the goods may be easily traced to the operator having charge thereof.

To comprehend the invention reference should be had to the accompanying sheet of drawings, wherein—

Figure 1 is a vertical sectional side view of the improved stamping machine. Fig. 2 is a front view of the machine.

In the drawings, the numeral 1 is used to designate any suitable type of a supporting frame, to which the cheek plates 2 are secured. Through the forwardly projecting end portions of the said plates extend the cross rod 3, on which and between the cheek plates is loosely mounted for independent rotation a plurality of disks 4. Each disk is provided with a series of circumferentially disposed projections 5, said projections carrying a numerical unit, the range of the units of the series of projections being from 0 to 9, so that by independently rotating the various disks into a desired position any combination of units may be brought into alinement. Between two of the projections of each series is left a blank space, equal to that occupied by three of the projections, as shown in Fig. 1 of the drawings. The reason for this blank is, that where all the disks are not required to make a combination of units representative of the number to be stamped, the non-used units must be blocked out. After the units for the number required to be printed or stamped have been properly alined, the remaining disks of the series of disks are turned until the blank space of each disk is in alinement with the series of alined units. When thus positioned, the printing or stamping will only be done by such of the disks of the series of disks as have numeral units in horizontal alinement at the time the surface of the box to be stamped is brought into contact therewith.

Immediately below the stamping roll, which is composed of the plurality of independently rotatable disks 4, is located the vertically movable platen 6, which, in the present case, is formed integral with and carried by the rearwardly extended arms 7, hinged or pivoted to the cross rod 8. The said platen 6 is raised or thrown upwardly by means of the foot tread 10, fulcrumed to a base cross rod 11, which rod, by links 12 is connected to a cross rod 13. This rod, in turn, is connected by the links 14 to a cross rod 15, to which rod the lower end of the links 16, depending from the platen rod 17, are connected. The cross rod 13 is also connected by the links 18 to the cross rod 19, at the rear portion of the machine, which rod, by means of the forwardly extended links 20, is connected to the cross rod 21, adjacent the forward end of the machine, which rod connects the vertically extended links 22, pivoted at their lower end to the cross rod 11. By the arrangement of the described train of connecting links, a strong toggle lever mechanism is produced for transmitting power from the foot tread, when depressed, to raise the platen 6 and to force the face of the box carried thereby with sufficient pressure against the stamping roll to cause the alined units of the disks of said roll to cut into the surface of the box, so as to leave the impress of the die units and thus give a stamp number to the box.

The series of disks 4, constituting the stamp roll of the machine, are held in adjusted or locked position by means of the lock pins 23, which work through the cross plate 24, connected to the cross rod 3 by means of the upwardly extended supports 25. On the arms 7, of the platen 6, is slidably mounted the ink applying plate 26, the rear extension 26′ thereof being connected to the shifting rod 27, which rod, at its lower end, is pivoted to the frame standard 27′. To the upper end of the said rod 27, is connected the forwardly extended operating rod 28, which rod is within convenient reach of the operator of the machine.

In operating the machine for the stamping of boxes, the operator first adjusts the stamp disks 4 to properly position the respective numeral units for the required number to be

stamped, the disks so adjusted being held in locked position by the lock pins 23, which are inserted in one of the series of the circumferentially disposed lock pin openings 28 in each of the disks 4. The operator then pulls outwardly the operating rod 28, to place the ink applying plate or pad 26 below the stamp roll, the foot tread 10 being depressed to raise the platen 6 and press the ink applying plate 26 against the surface of the stamp roll, in order to apply ink to the horizontally disposed number units of the said roll. The platen 6 is then lowered, and the ink applying plate or pad forced inwardly. The box to be stamped is now slipped by the operator over the platen 6, when the operator forcibly depresses the tread 10, throwing the platen 6 upwardly and the surface of the box against the arranged units of the stamp roll with sufficient pressure to cause the inked units to be stamped into the surface of the box. The box is then removed on the lowering of the platen, and the operation repeated for the stamping of another box, the arrangement of the stamp roll units being varied for the number to be stamped thereon.

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is—

1. In an apparatus for the described purpose, the combination with a supporting frame, of a stamp roll, a stationary supporting axle for the stamp roll, a vertically movable platen below the stamp roll, and an ink applying plate below the stamp roll supported by and to slide horizontally upon the vertically movable platen, means for shifting the inking plate horizontally upon the vertically movable platen, and means for raising the platen to press the ink applying plate against the surface of the stamp roll and to force the surface of a box held on the platen against the stamp roll.

2. In an apparatus for the described purpose, the combination with a supporting frame, of a stamp roll, a stationary supporting axle for the stamp roll, a platen pivotally connected to the frame for vertical movement beneath the stamp roll, an ink applying pad for the stamp roll supported for horizontal sliding movement upon the platen, means for shifting the inking plate upon the platen comprising a lever connected to the supporting frame and to the inking plate and an operating rod connected to said lever, and means for raising the platen to press the ink applying plate against the surface of the stamp roll to force the surface of a box held on the platen against the stamp roll.

3. In an apparatus for the described purpose, the combination with a supporting frame of a stamp roll, a stationary supporting axle for the stamp roll, a platen pivotally connected to the frame for vertical movement beneath the stamp roll, an ink applying plate for the stamp roll supported for horizontal sliding movement upon the platen, means for shifting the inking plate upon the platen comprising a lever pivotally connected to the frame, an operating rod pivotally connected to the lever and a pivotal link connection between the inking plate and said lever, and means for raising the platen to press the ink applying plate against the surface of the stamp roll or to force the surface of a box held on the platen against the same roll.

4. In an apparatus for the described purpose, the combination with a supporting frame, of a stamp roll consisting of a plurality of independently rotatable disks, each disk being provided with a series of circumferentially disposed projections, each projection carrying a numerical unit, and each of said disks having a plurality of apertures, a plate supported by the supporting frame above the stamp roll, devices for independently locking each disk of the stamp roll in adjusted position, comprising pins arranged to work through said plate to engage the apertures in the disks of the stamp roll, an ink applying pad for the stamp roll, a vertically movable platen, and actuating means for the platen to raise the platen toward the stamp roll.

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

RUDOLPH SCHILLING.

Witnesses:
N. A. ACKER,
D. B. RICHARDS.