

No. 832,271.

PATENTED OCT. 2, 1906.

F. C. OSBORN.
CHECK OR TICKET PRINTING MACHINE.
APPLICATION FILED NOV. 8, 1901.

FIG. 2.

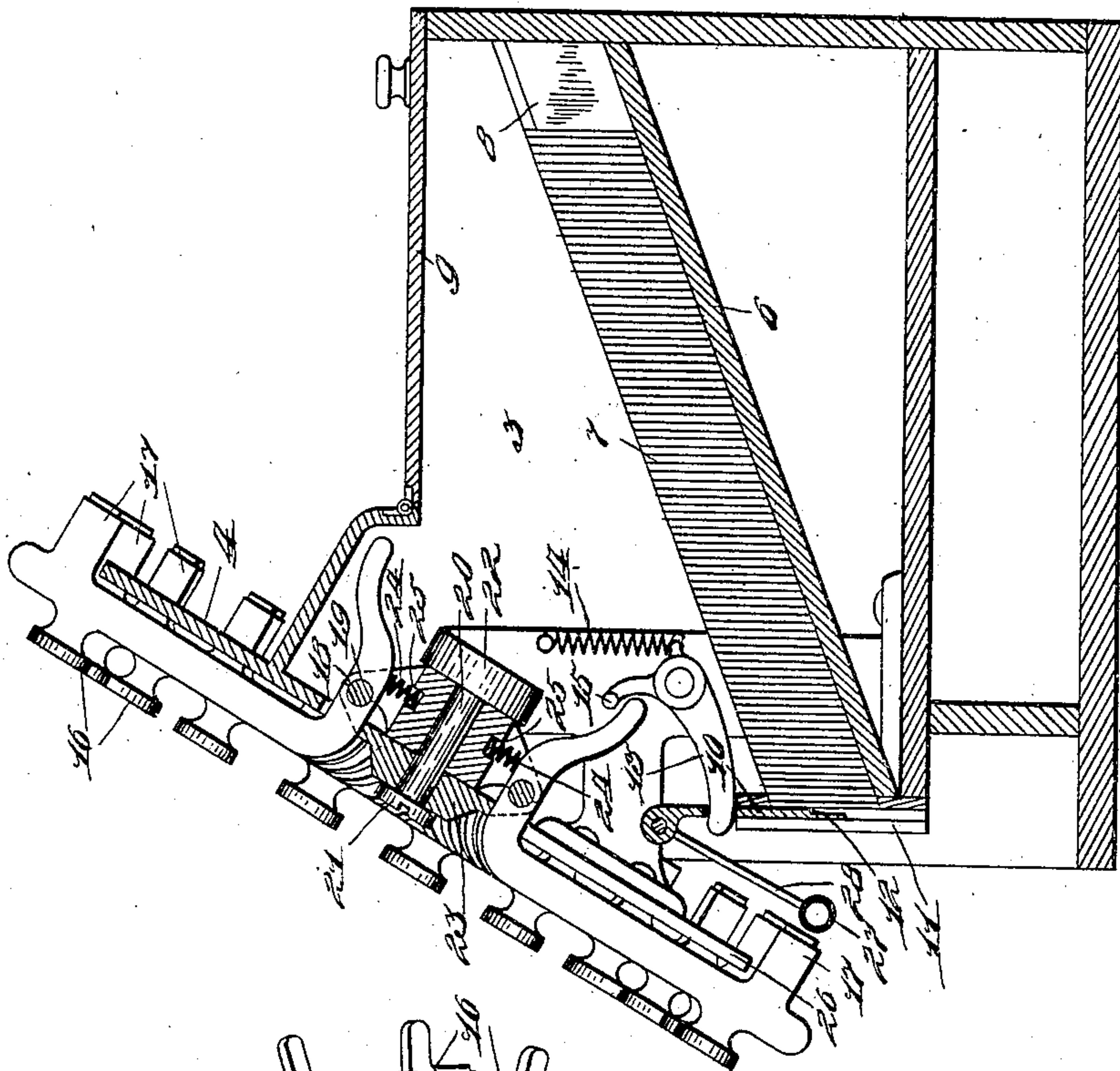
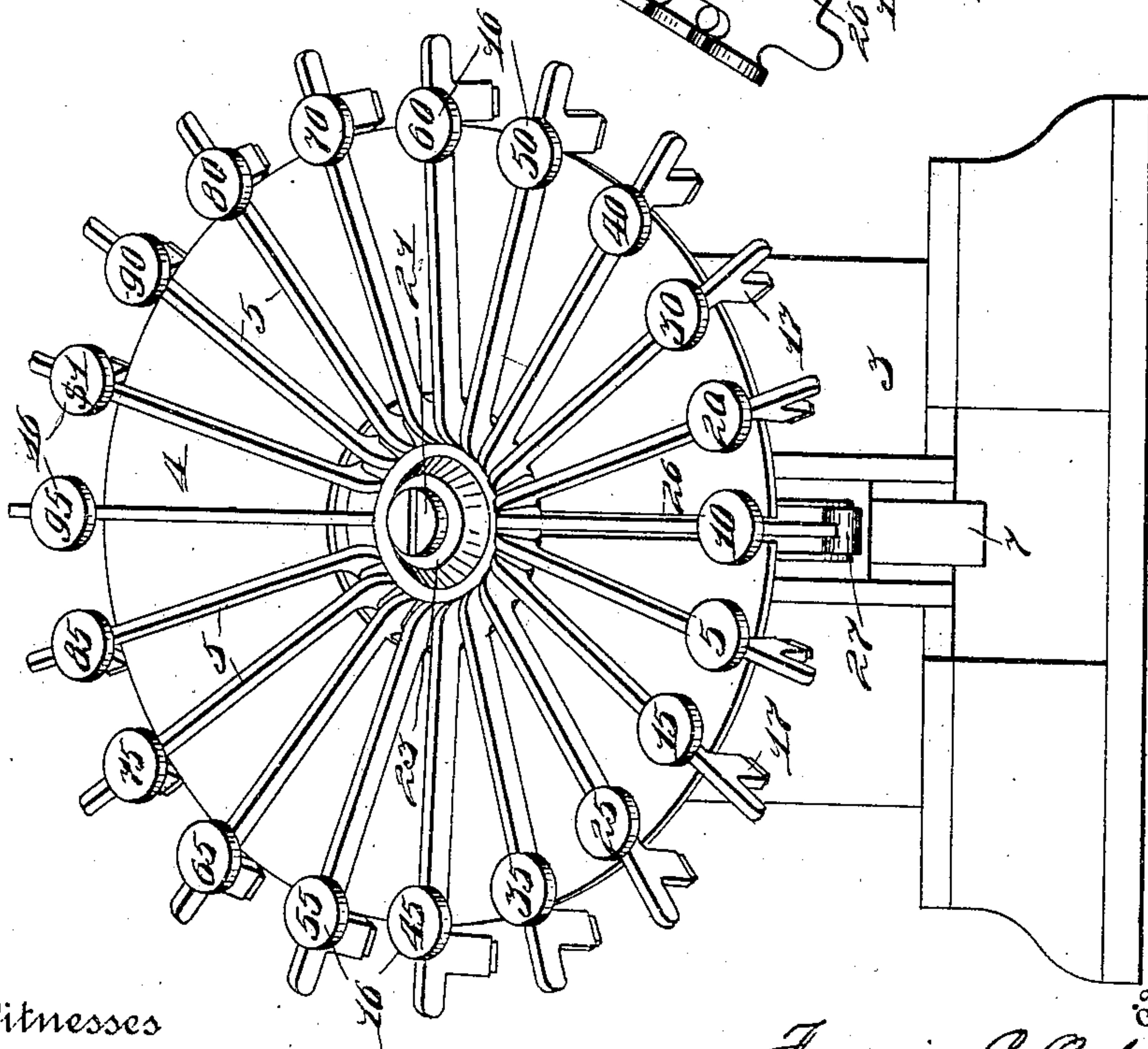


FIG. 1.



Witnesses

W. M. McCarthy
per H. H. H. H.

Inventor

Francis C. Osborn.
By H. H. H. H.
Attorney

UNITED STATES PATENT OFFICE.

FRANCIS C. OSBORN, OF DETROIT, MICHIGAN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE NATIONAL CASH REGISTER COMPANY, OF DAYTON, OHIO, A CORPORATION OF OHIO, (INCORPORATED IN 1906.)

CHECK OR TICKET PRINTING MACHINE.

No. 832,271.

Specification of Letters Patent.

Patented Oct. 2, 1906.

Application filed November 8, 1901. Serial No. 81,576.

To all whom it may concern:

Be it known that I, FRANCIS C. OSBORN, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Check or Ticket Printing Machines, of which I declare the following to be a full, clear, and exact description.

This invention relates to improvements in check or ticket printing devices, and has more particular relation to improvements in such devices for use in checking systems for restaurants, hotels, and like places.

The object of the invention is to provide a simple and cheap device whereby checks or printed tickets may have the desired amount stamped thereon and be moved to a position to be readily grasped by the hand of the operator.

In the accompanying drawings, forming part of this specification, Figure 1 represents a front elevation of the devices embodying my invention, and Fig. 2 represents a central vertical transverse section through the same.

In the aforesaid drawings, 3 represents the frame or casing of the machine; 4, the incline disk or table; 5, the operating-keys or type-bars, and 6 the ticket-chute.

The supply of tickets 7, which are preferably previously printed with consecutive numbers and other data, are placed in the incline trough or chute 6 with a sliding weight 8 back of them to assist them in feeding downward and forward to the printing position. The tickets are inserted or placed in this trough at the beginning of the day's business through a suitable hinged door 9 in the top of the casing. When the machine is in its normal position, (shown in Fig. 2,) the lowermost and forward ticket rests against a vertical slide 10, mounted in suitable guides 11 of the frame or cabinet. This slide is formed with a shoulder 12, which when said slide is raised, as hereinafter described, passes above the top of the front ticket and permits the latter to pass forward under the same, so that when the slide is again moved down the ticket will be depressed partly into the lower chamber, where it may be readily grasped and removed. The slide 10 is reciprocated by a pivoted bell-crank lever 13, the forward end of which projects through a slot

formed in the slide. The bell-crank is held in the normal position (shown in Fig. 2) by a coil-spring 14, which connects the same to the main frame. The upper part of the lever is formed with a lateral projection or stud 15, which is adapted to be struck by the type-bars, as hereinafter described. Each of the aforesaid type-bars is of angular construction and is provided with a numbered finger-piece 16 and a printing-type 17, of metal or rubber, as desired. The type-bars are all pivoted upon a wire ring 18, which is set in a groove 19, formed in a rotatable sleeve 20, which is journaled upon a screw-bolt 21, mounted in a lug 22, formed on the frame 3. The ring is held in position by a grooved disk 23, fitting over the same and held in position by the head of the bolt 21. Both the sleeve 20 and the disk 23 are vertically slotted to accommodate the key or type bars which pass therethrough. The keys are held in their normal positions by coil-springs 24, mounted in recesses 25 in the sleeve 20 and engaging said keys. The table 4 is rigidly supported by the frame under the keys, so as to prevent the operation of any one of the same excepting the key in the foremost position, which lies directly over a slot 26, formed in the table. The table has the form of a ring, thus leaving a central opening through which the keys pass.

An absorbent inking-roller 27 is mounted in the lower end of a spring-arm 28, which is fast to the slide 10. The inwardly-projecting end of a key in operating position will project into such a position in front of the pin 15 that when the key is depressed to make an impression the bell-crank 13 will be operated and the ink-roller drawn over the type as the slide 10 ascends. The upward movement of the slide also exposes the ticket to be printed and permits the same to pass forward into position to be depressed with the slide when the latter descends upon the return of the key to normal position. The capacity of the machine may of course be arranged to suit the business for which it is intended, and I have only shown the capacity as from five cents to ninety-five cents for the sake of illustration.

The machine is intended to take the place of the hand rubber stamps now in use by providing a quicker, more convenient, and

cleanly method of handling the type and tickets. When it is desired to print any amount within the capacity of the machine, the desired key is moved with the sleeve 20 until it comes into alinement with the slot 26 and then depressed until its type contacts with the exposed ticket, which is subsequently partly fed from the machine. The table 4 is set at any desirable angle most convenient for the operator, according to the position in which the machine is to be placed.

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

1. In a ticket-printing machine, the combination with a ticket-magazine for containing individual tickets arranged in stack formation, of a series of individual manipulative printing devices arranged to print on the end ticket of the stack, and means controlled by the operation of any one of said manipulative devices for issuing from the end of said stack the printed ticket.
2. In a ticket-printing machine, the combination with a ticket-magazine for containing tickets arranged in stack formation, of a series of individual manipulative devices arranged to print on the end ticket of the stack, and means controlled by the operation of any one of said manipulative devices for positively engaging the end ticket of said stack and ejecting the same therefrom.
3. In a ticket-printing machine, the combination with a series of independently-movable type-carrying keys mounted upon a movable member to permit any one of said keys to be brought to a common printing-point, of a ticket-magazine for containing individual tickets arranged in stack formation, said magazine being positioned to present the end ticket of said stack at said common printing-point, and means controlled by the operation of any one of said keys for issuing the printed ticket from the end of said stack.
4. In a ticket-printing machine, the combination with a series of independently-movable type-carrying keys mounted upon a movable member to permit any one of said keys to be brought to a common printing-point, of a ticket-magazine for containing individual tickets arranged in stack formation, said magazine being positioned to present the end ticket of said stack at said common printing-point, a slide situated at the printed end of said stack and formed with a shoulder for engaging the end ticket to eject the same, and means operated by the movement of any one of said keys for actuating said slide to eject the printed ticket.
5. In a ticket-printing machine, the combination with a rotatable member carrying a series of pivoted type-bars formed with operating extensions, of a ticket-magazine for containing tickets arranged in stack formation said magazine being positioned to pre-

sent the end ticket of said stack to printing position, and a ticket-feeding device operated by any one of said extensions when the latter is brought into coöperative relation therewith, for issuing the end ticket from said stack.

6. In a ticket-printing machine, the combination with a series of independently-movable type-carrying keys mounted upon a movable member to permit any one of said keys to be brought to a common printing-point each of said keys being formed with operating extensions, of a ticket-magazine for containing individual tickets arranged in stack formation, a slide for ejecting the tickets from the printing end of said stack, and a lever operated by the extension of the key which is brought to printing position, said lever being connected to said slide to actuate the latter by the movement of the operated key.

7. In a ticket-printing machine, the combination with a ticket-receptacle, of a feeding-slide located at one end of the same and movable substantially at right angles thereto, a series of movable type-carriers arranged to print upon the end ticket, and means for operating the slide when any one of the type-carriers is actuated.

8. In a ticket-printing machine, the combination with a ticket-receptacle, of a feeding-slide located at one end of the same, a lever for operating said slide, and a series of pivoted type-carriers the operation of any one of which will actuate said lever.

9. In a ticket-printing machine, the combination with a series of independently-movable type-carrying keys mounted upon a movable member to permit any one of said keys to be brought to a common printing-point, of an inking-roller situated at such printing-point, and means operated by any one of said keys for giving the inking-roller a bodily movement over the type of the key which is brought to printing position.

10. In a ticket-printing machine, the combination with a rotatable member carrying a series of independently-movable type-bars, of a ticket-feeding device, an inking mechanism carried by said feeding device, and means for operating the feeding device and the inking mechanism when any one of said type-bars is actuated.

11. In a ticket-printing machine, the combination with a ticket-receptacle, of a feeding-slide located at one end of the same, an inking-roller carried by said slide, and a series of pivoted type-carriers having provisions for operating the slide and the inking-roller to cause them to ink the type of the operated carrier.

12. In a ticket-printing machine, the combination with a stationary table located in an inclined position and having a central opening, of a rotary member above said opening,

a series of type-carriers mounted on said member and projecting over said table, and a ticket-holder for holding tickets to be printed by the type-carriers.

5 13. In a ticket-printing machine, the combination with a stationary table located in an inclined position and formed with a slot, of a rotatable member carrying a series of type-bars which project over said table and are arranged to be depressed through the aforesaid slot, and a ticket-holder for holding tickets in the path of a type-bar which is operated through said slot.

15 14. In a ticket-printing machine, the combination with a series of movable type-carriers, of a ticket-feeding device arranged to be actuated by any one of said carriers, and an inking-roller operated by the ticket-feeding device.

20 15. In a ticket-printing machine, the combination with a series of pivoted type-bars arranged to be brought to a common printing-point, of a ticket-feeding device, an inking device connected therewith, and means 25 for operating the ticket-feeding device and

the inking device when any one of the type-bars is actuated.

16. In a ticket-printing machine, the combination with a series of type-carriers of a ticket-feeding device, means for moving the ticket-feeding device to a position to receive the ticket upon the printing movement of any one of the type-carriers, and means for returning the ticket-feeding device to its normal position as the type-carrier returns to its normal position. 35

17. In a ticket-printing machine, the combination with a series of type-carriers, of a ticket-feeding device arranged to be moved to a position to receive the ticket upon the printing operation of any one of the type-carriers, and an inking-roller arranged to be moved over the type upon the printing movement of any one of the type-carriers. 40

In testimony whereof I affix my signature 45 in the presence of two witnesses.

FRANCIS C. OSBORN.

Witnesses:

S. E. THOMAS,

H. A. LOWE.