

E. H. SPERBERG.
STAMP VENDING MACHINE.
APPLICATION FILED JUNE 16, 1911.

1,044,281.

Patented Nov. 12, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

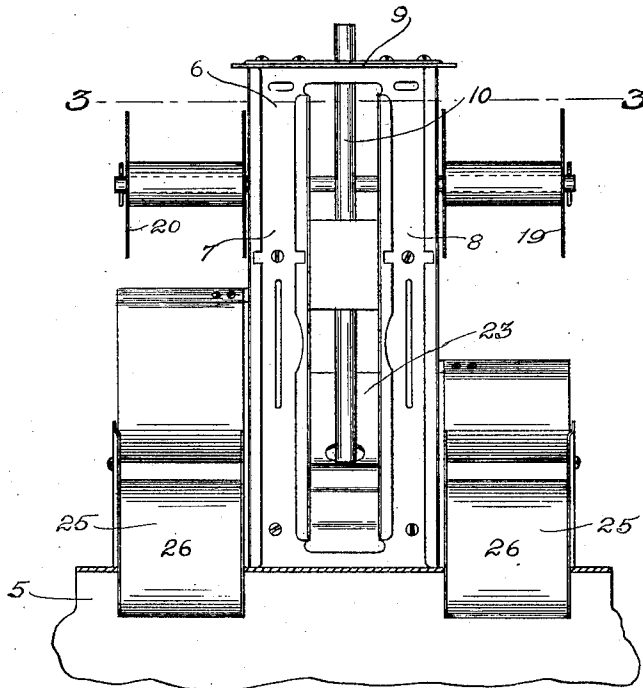
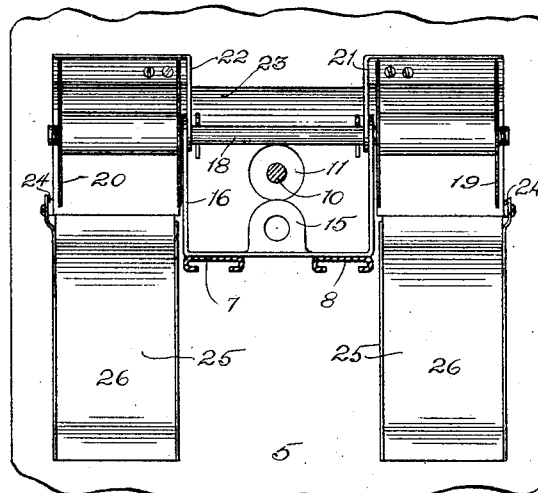


Fig. 3.



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2 SHEETS—SHEET 2.

Fig. 2.

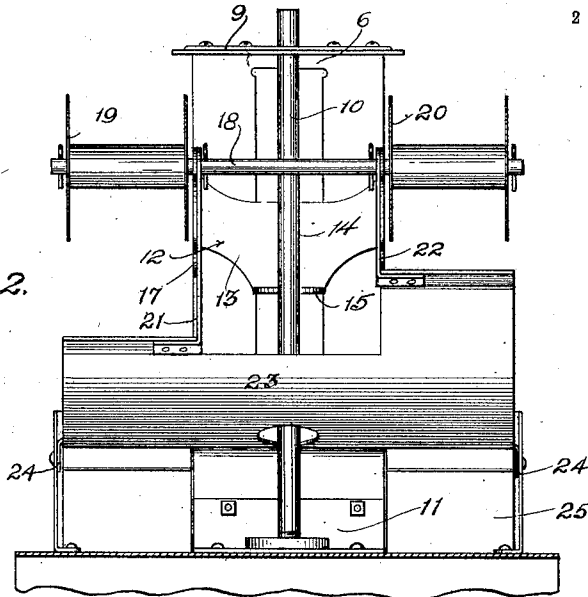
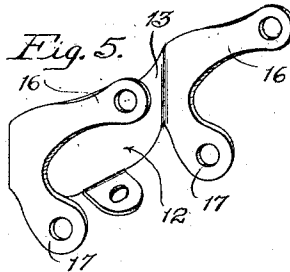
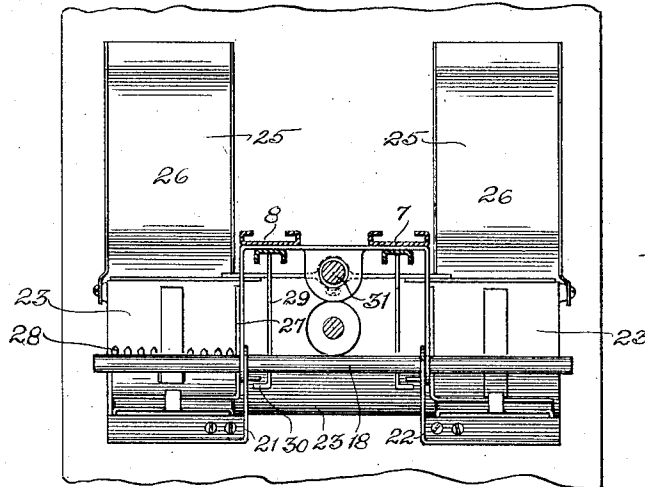


Fig. 4.



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UNITED STATES PATENT OFFICE.

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STAMP-VENDING MACHINE.

1,044,281.

Specification of Letters Patent.

Patented Nov. 12, 1912.

Original application filed February 11, 1910, Serial No. 543,350. Divided and this application filed June 16, 1911. Serial No. 633,540.

To all whom it may concern:

Be it known that I, EDWARD H. SPERBERG, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Stamp-Vending Machines, of which the following is a specification.

The present application is a division of my application Serial No. 543,350, filed February 11, 1910, and relates more specifically to the construction and arrangement of the framework supporting the coin controlled and delivery mechanisms of the machine, and to the arrangement of the various mechanisms whereby the coin controlled mechanisms are placed in the center of the machine and the delivery mechanisms to the outside of the coin controlled mechanisms.

The objects of the present invention are, to utilize companion upright supporting members for the purpose of sustaining the coin controlled mechanisms and the feeding mechanisms, as well as a portion of the delivery chute and the rolls from which the stamps are fed; to so arrange these various mechanisms that a single plunger supported by the upright members will actuate either one of the sets of mechanisms or both; and to position these upright supporting members centrally with respect to the sides of the casing, whereby the coin controlled mechanism is placed in the center and the delivery mechanism on opposite sides thereof.

The invention further relates to the features of construction and the combination of parts hereinafter described and claimed.

In the drawings, Figure 1 is a front elevation of the framework of the present invention with the coin controlled and feeding mechanisms removed, and showing the correlation between the rolls upon which the stamps are mounted and the delivery chutes; Fig. 2, a rear elevation of the parts shown in Fig. 1; Fig. 3, a section on line 3—3 of Fig. 1, looking in the direction of the arrow; Fig. 4, a view similar to Fig. 3, showing a form of coin controlled and feeding mechanisms in operative relation; and Fig. 5, a perspective of the bracket member for supporting the feed rolls and feeding mechanism.

In the present invention there is no claim made to the specific form of coin controlled and feeding mechanisms shown and described, it being understood that any suitable form of mechanisms can be utilized. The point of invention in the present case is the construction of the supporting framework for the various mechanisms and the arrangement of the mechanisms in such relation to one another as to enable the coin controlled mechanisms to be all located in the center of the machine, and the feeding mechanisms and delivery chutes, as well as the stamp rolls, to the outside of the coin controlled mechanisms.

The arrangement above described is of particular advantage in machines of the type of the present invention, in that it gives to the machine a symmetrical and balanced appearance and enables the utilization of a single plunger for the purpose of operating all of the coin controlled mechanisms embodied within the machine. This results in several distinct advantages. In the first place, it decreases the number of operating parts, and hence the cost of construction and the liability to get out of repair; and it further enables the use of a single operating member so that the danger of the user operating the wrong member is obviated.

The framework and operating parts of the machine of the present invention are mounted upon a base member 5; and the supporting framework for the coin controlled and feeding mechanism consists of a plate-like member 6, which is cut out at its center to provide companion parallel strips having their side edges bent to form companion parallel coin chutes 7 and 8. Secured to the upper end of said plate-like member is a cap-plate 9, through which extends an upright post or tie-rod 10, which is anchored to the base member of the machine, as best shown in Fig. 2. The tie-rod or post extends from top to bottom of the plate-like member constituting the coin chutes, and serves as a portion of the means for securely anchoring said member in position.

The lower end of the plate-like member 6 is anchored in position by means of an L-shaped plate 11, best shown in Fig. 2, which

is secured to the base of the machine, this L-shaped plate, together with the tie-rod 10, forming the means for anchoring the plate-like member 6 to the body of the machine.

5 Secured to the rear of the plate-like member 6 is a supporting member 12, composed of wings 13 and a central portion 14. Extending rearwardly from the central portion is an ear or lug 15, the function of

10 which will be more fully hereinafter explained. Extending at right angles to the wings 13 are divergently extending arms 16 and 17. The arms 16 will, for the purpose of clearness of description, be termed

15 the upper arms, and the arms 17 the lower arms.

As will be seen from a study of Fig. 5, one of the arms 16 and one of the arms 17 extend from each of the wings 13; that is to say, there is a set of arms upon each side of the bracket member 12; and each set of arms consists of an upper and a lower arm arranged in parallelism with one another. The arms 16, as shown, have a slight divergence upward and provide a means for supporting a shaft 18, upon each end of which shaft is mounted a roll, which rolls are designated by the numerals 19 and 20; and each roll is adapted to receive a roll of stamps. Depending from the shaft 18 are strap-like members 21 and 22, which are joined to a concave plate 23 that extends across the rear of the machine and forms a portion of the delivery chutes for the

20 stamps.

It will be seen that the members 21 are positioned upon opposite sides of the shaft 18 and that they are joined to the plate 23 at points adjacent the ends of said plate, so that they serve to secure the plate in firm and rigid position upon the structure. By this arrangement I locate a roll for the stamps and a delivery chute in operative correlation to one another and positioned to

40 the outside of the coin chutes and to the outside of the machine structure. The plate 23 is provided with ears 24, which are attached to members 25 secured to the base of the machine.

The members 25 are formed to constitute the lower end of the delivery chutes 26, as best shown in Fig. 1, so that the outer ends of the plate 23 constitute the upper portions of the discharge chute, and this plate, as

50 heretofore explained, is supported from the plate-like member 6 through the medium of the straps 21, which are carried by the shaft 18, supported by the bracket member 12, which in turn is attached to the plate 6.

60 The lower portion of the discharge chute, as shown, is formed of a separable member, but this is occasioned merely because of the requisite length of the chute, and this portion of the chute could obviously be supported from the plate 23 or made a part

thereof without any radical change in the construction or arrangement of the parts, so that as far as the disclosure of invention is concerned, the delivery chutes may be said to be supported from the plate 6.

The lower arms 17, as shown, have a slight divergence downward; and attached to these arms are the feeding mechanisms for the stamps, one set of mechanisms to each arm. By this arrangement, the feeding mechanisms are positioned upon opposite sides of the center of the machine and toward the outer side of each of the coin chutes. The feeding mechanism is shown more clearly in Fig. 4, but since this portion of the device is not deemed a part of the present invention, and since the particular form can be changed without departing in any way from the spirit of the invention, detailed description of this portion of the device is not considered to be necessary at this time, and no description will be given, other than to state that in the form shown a swinging arm 27 is utilized, which is operatively connected to a fingered member 28, which engages the stamps and feeds them forward. These feeding mechanisms, it will be understood, are in operative relation to the delivery and stamp rolls, so that there is one set of feeding mechanisms, one delivery chute, and one stamp feed roll upon each side of the center of the machine and to the outside of the central supporting member 6.

The coin chutes, as heretofore stated, are two in number. Secured to each of the coin chutes is a coin controlled mechanism 29. Since these mechanisms are not claimed as a part of the present invention, and since various forms of devices may be used without departing from the spirit of the invention, detailed description of the construction and operation of this portion of the device will not be entered into at this time, but it will be briefly stated that the mechanism shown for the purpose of illustration consists of an arm 30, which is thrown into operative engagement with the arm 27 when a coin is inserted in the chute.

The ear 15 heretofore referred to, as shown more clearly in Fig. 4, acts in conjunction with the cap-plate 9 as a support and guide for a plunger 31. The plunger is connected in a suitable manner to the coin controlled mechanism, whereby the positioning of a coin in the chute and the lowering of the plunger actuates the mechanism to feed the stamps upward. Thus a construction is presented which discloses a centrally located plunger, a coin controlled mechanism on either side of the plunger adapted to be operated by the movements of said plunger, a feeding mechanism lying in operative relation to each of the coin controlled mechanisms, and a discharge

chute and a feed roll for the stamps in operative relation to each of the feeding mechanisms.

Thus, there is provided a complete vending mechanism for stamps, located upon each side of the center of a machine; and these mechanisms are adapted, if desired, to be operated independently of one another, but are all operated by means of a common operating member; and the entire series of mechanisms is supported from a plate on the front of the machine, which plate constitutes the coin chutes leading to the various mechanisms.

Although the device of the present invention is described as being for the purpose of vending stamps, it is understood that the invention can be applied to any form of machine adapted to feed pieces of paper which are mounted upon a roller.

I claim:

1. A supporting framework for coin-controlled vending machine mechanisms, comprising an upright plate, wing-like members secured thereto, and constituting supporting means for the feeding members of the vending mechanism, and a curved plate supported by the wing-like members and forming a delivery chute, substantially as described.

2. A supporting framework for coin-controlled vending machine mechanisms, comprising an upright main supporting post, an upright plate secured thereto, and a series of supporting members for the feeding members of the vending mechanism maintained in position by said plate and lying upon opposite sides of said post, substantially as described.

3. A supporting framework for coin-controlled vending machine mechanisms, comprising a centrally positioned upright plate, providing a mounting for a centrally positioned actuating member, and supporting members carried by said plate and arranged upon opposite sides of said actuating member, and adapted to support coin controlled feeding mechanisms, substantially as described.

4. A supporting framework for coin-controlled vending machine mechanisms, comprising an upright plate provided with channels to receive coins, wing-like members secured to said plate constituting supporting means for the feeding members of the vending mechanism, and a curved plate supported by the wing-like members and forming a delivery chute, substantially as described.

5. A supporting framework for coin-controlled vending machine mechanisms, comprising an upright post, an upright plate secured thereto, provided with channels adapted to receive coins, and supporting means for the feeding members of

the vending mechanism connected to said plate and lying upon opposite sides of said post, substantially as described.

6. A supporting framework for coin-controlled vending machine mechanisms, comprising a centrally positioned upright plate having channels therein, adapted to receive coins, said plate providing a mounting for a centrally positioned actuating member, and supporting members carried by said plate and arranged upon opposite sides of said actuating member, and adapted to support the coin controlled feeding mechanisms, substantially as described.

7. A supporting framework for coin-controlled vending machine mechanisms, comprising a centrally positioned upright plate, providing a mounting for a centrally positioned actuating member, supporting members carried by said plate and arranged upon opposite sides of said actuating member, and adapted to support coin controlled feeding mechanisms, a curved plate forming delivery chutes, and members supported by said centrally positioned plate for supporting said curved plate, substantially as described.

8. A supporting framework for coin-controlled vending machine mechanisms, comprising a centrally positioned upright plate, providing a mounting for a centrally positioned actuating member, a member secured to said plate and provided with wing-like portions forming supports for the coin controlled feeding mechanisms, said wing-like portions lying upon opposite sides of the actuating member, substantially as described.

9. A supporting framework for coin-controlled vending machine mechanisms, comprising a centrally positioned upright plate, providing a mounting for a centrally positioned actuating member, a member secured to said plate and provided with wing-like portions forming supports for the coin controlled feeding mechanisms, said wing-like portions lying upon opposite sides of the actuating member, a curved plate forming a delivery chute, a horizontal shaft supported by said wing-like members, and members supported by said shaft for holding said plate, substantially as described.

10. A supporting framework for coin-controlled vending machine mechanisms, comprising a centrally positioned upright plate providing a mounting for a centrally positioned actuating member, wing-like members secured to said plate and arranged upon opposite sides of said actuating member, and serving as supports for the feeding members of the vending mechanism, a horizontal rod supported by the wing-like members, and retainers for the to-be-vended commodity mounted on said rod, substantially as described.

11. A supporting framework for coin-controlled vending machine mechanisms, comprising a centrally positioned upright plate providing a mounting for a centrally positioned actuating member, wing-like members secured to said plate and arranged upon opposite sides of said actuating member, a rod carried by the wing-like members, a plurality of strap-like members supported by the rod, a portion of said strap-like members for supporting the feeding mechanism, and a curved plate forming a delivery chute supported by the remainder of said strap-like members, substantially as described.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."