

W. C. POWELL.

SEALING MACHINE.

APPLICATION FILED OCT. 30, 1911.

1,036,332.

Patented Aug. 20, 1912.

2 SHEETS—SHEET 1.

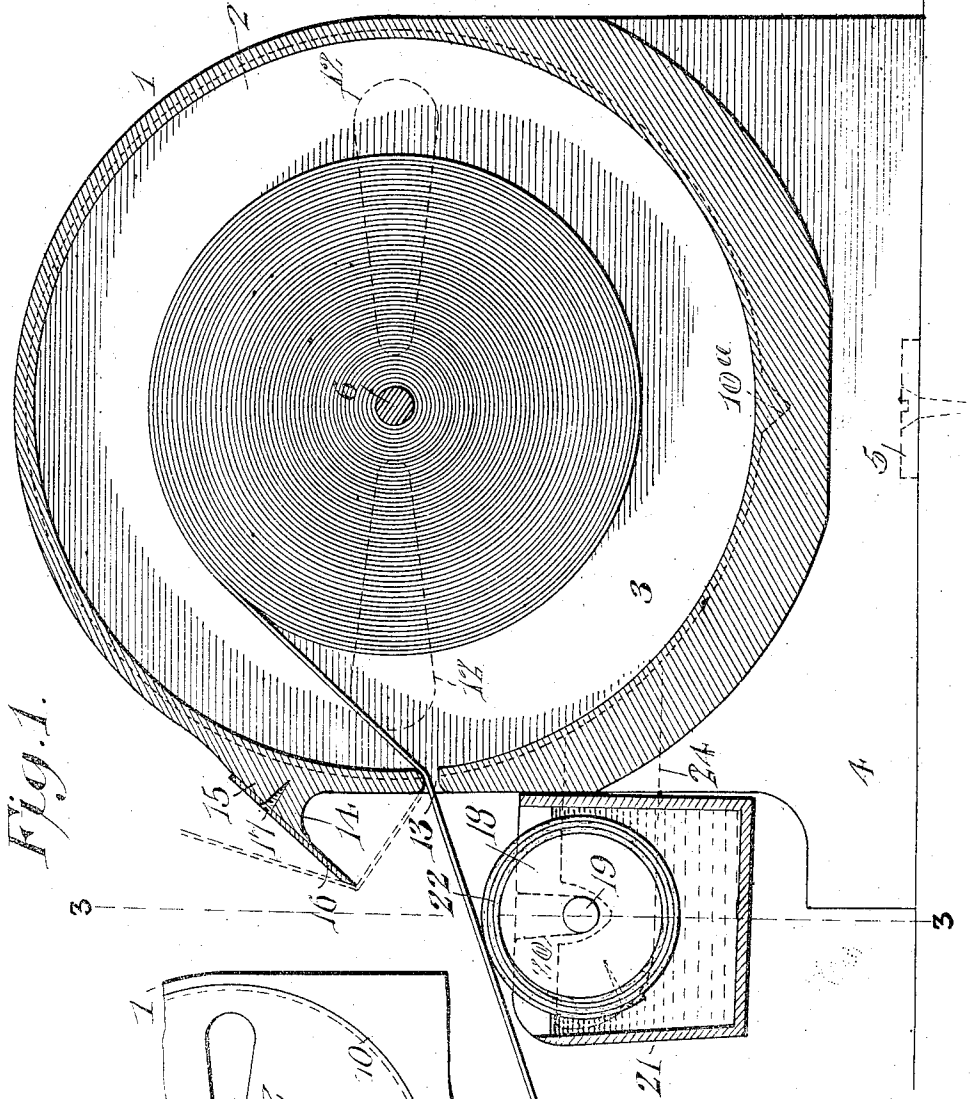


Fig. 1.

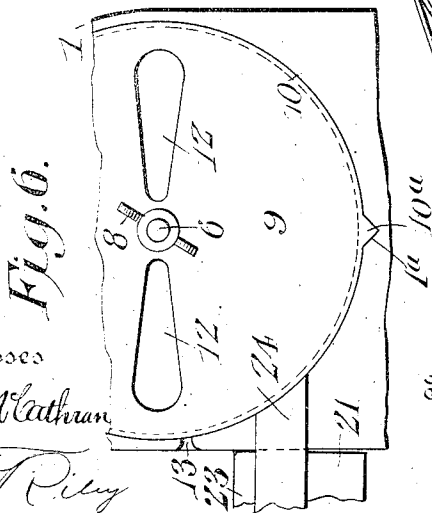


Fig. 6.

Witnesses

Jas. M. Cathran

H. J. Riley

W. C. Powell,
Inventor

By

E. J. Siggers
Attorney

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2 SHEETS—SHEET 2.

Fig. 3.

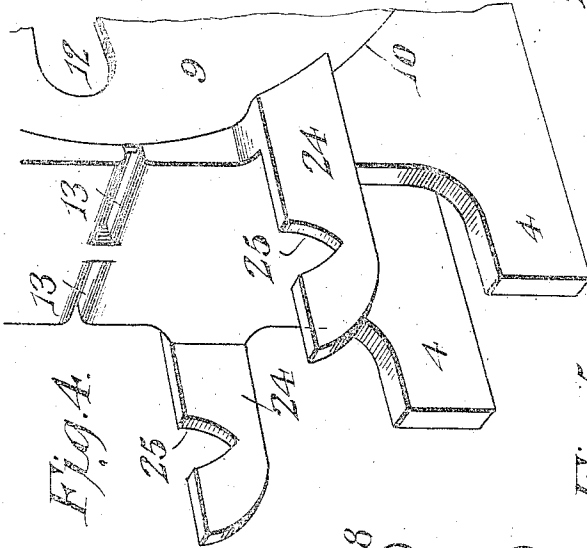
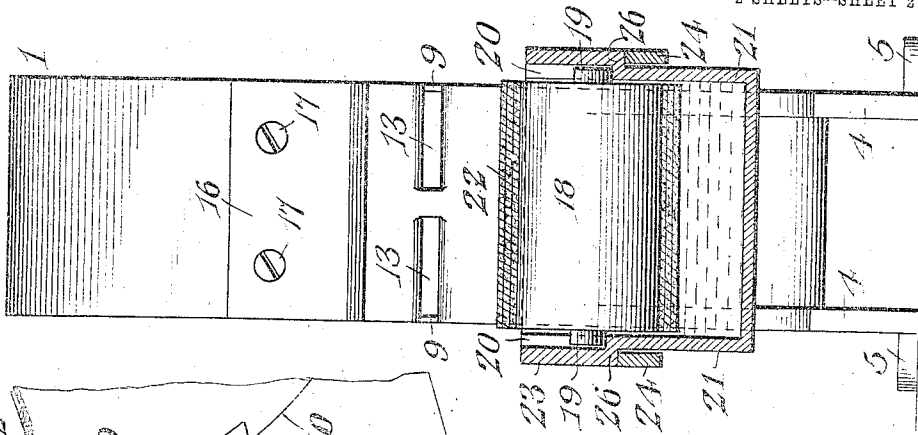


Fig. 5.

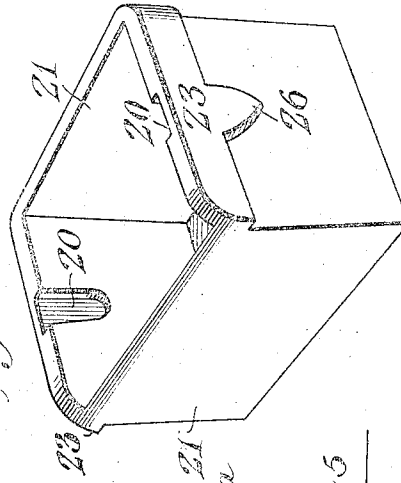
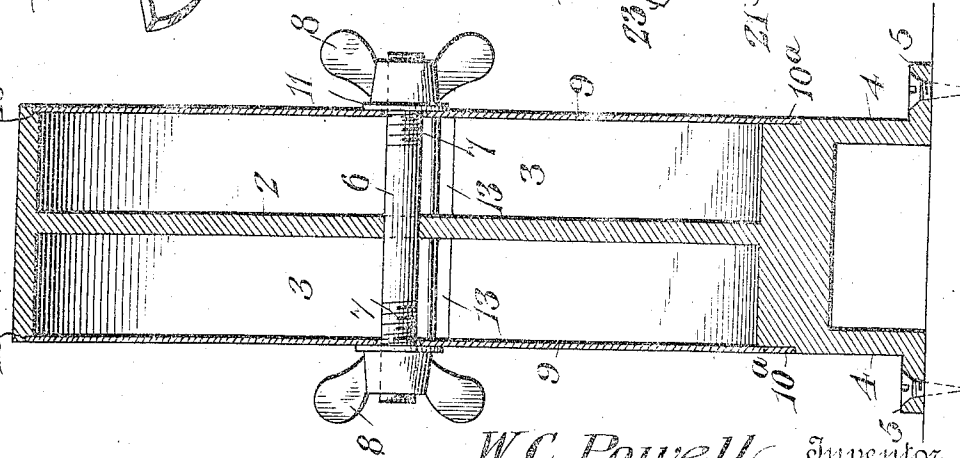


Fig. 2.



W. C. Powell, Inventor

Witnesses
Jas. E. McEachern
H. J. Riley

By

E. G. Siggers
Attorney

UNITED STATES PATENT OFFICE.

WALTER C. POWELL, OF NEWARK, OHIO.

SEALING-MACHINE.

1,036,332.

Specification of Letters Patent. **Patented Aug. 20, 1912.**

Application filed October 30, 1911. Serial No. 657,609.

To all whom it may concern:

Be it known that I, WALTER C. POWELL, a citizen of the United States, residing at Newark, in the county of Licking and State of Ohio, have invented a new and useful Sealing-Machine, of which the following is a specification.

The invention relates to improvements in sealing machines.

10 The object of the present invention is to improve the construction of sealing machines, and to provide a simple, inexpensive and efficient machine, adapted to hold two rolls of gummed tape, and equipped with means for supplying moisture to the same as the tape is drawn out of the machine, and provided with a knife arranged to enable the moistened portion of the strip to be instantly cut off.

20 A further object of the invention is to provide a sealing machine of this character, adapted to permit the tape to be drawn out of the machine, moistened and severed with one hand, and provided with a tension device adapted to prevent free rotary movement of the rolls, so that unnecessary slack tape will not be unreeled in the operation of the machine.

30 With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

45 In the drawings:—Figure 1 is a vertical longitudinal sectional view of a sealing machine, constructed in accordance with this invention. Fig. 2 is a central transverse sectional view. Fig. 3 is a vertical sectional view on the line 3—3 of Fig. 1. Fig. 4 is a detail view of a portion of the casing, illustrating the construction for detachably supporting the removable tank or reservoir. Fig. 5 is a detail perspective view of the tank or reservoir. Fig. 6 is a detail side view of a portion of the casing on a reduced scale, illustrating the arrangement of the sight apertures.

55 Like numerals of reference designate cor-

responding parts in all the figures of the drawings.

In the accompanying drawings in which is illustrated the preferred embodiment of the invention, 1 designates an approxi- 60 mately circular casing provided with a central vertical partition 2, dividing the circular casing into two separate circular tape receiving compartments 3. The casing is provided at the bottom with spaced side 65 flanges 4, having horizontal lower edges and forming a base for supporting the casing in an upright position. The side flanges are provided with laterally extending attaching lugs or ears 5, arranged in flush relation 70 with the lower edges of the side flanges and provided with perforations for the reception of screws, or other suitable fastening means for securing the casing upon a counter or other suitable support. Fixed to the 75 partition 2 at the center thereof is a horizontal spindle 6, extending from the opposite side faces of the partition and having outer threaded portions 7 for the reception of thumb nuts 8 for securing circular side 80 plates 9 of sheet metal or other suitable material to the casing. The projecting spindle may be rigidly secured in a central opening of the partition, or it may be cast integral with the same or formed in any 85 other desired manner. The side plates are removable to permit rolls of tape to be readily placed on the spindle, and either side plate may be detached without disturbing the other side plate or the roll of tape 90 arranged thereon. The circular side plates fit at their edges in peripheral recesses 10 of the circular casing, and they are sufficiently resilient to enable them to be bowed or flexed inwardly by the thumb nuts to form a brake or tension device for prevent- 95 ing free rotary movement of the rolls of tape, so that the latter will have to be positively drawn outward by the operator with a continuous pull. This will prevent the 100 rolls from unreeling slack tape at each operation of the machine, and it will enable the operator to obtain the desired amount of tape and to moisten the same and cut off the tape by the means hereinafter described 105 with one hand, leaving the other hand free for holding the package to be sealed. Each side plate is preferably provided at the bottom with a tapered projection 10^a, fitting in the corresponding notch or recess 1^a and 110

interlocking the side plate with the casing to prevent rotary movement of the former on the spindle. Washers 11 are preferably interposed between the thumb nuts and the flexible or resilient side plates 9. The compartments 3 are adapted to receive tapes of different widths, and they enable a wide and narrow tape to be supplied in a single machine. The side plates are provided with radially arranged sight apertures 12 to enable the quantity of tape contained within the compartments of the casing to be readily seen without removing the side plates.

The casing is provided at the front with transverse slots or apertures 13, extending from the central partition to the side edges of the circular casing and open at their outer ends to enable the tape to be readily introduced into them when the side plates are removed. The front of the casing is also provided above the transverse apertures 13 with an approximately triangular enlargement 14, extending entirely across the casing and presenting an inclined front face 15 to which an inclined knife 16 is secured by screws 17, or other suitable fastening devices. The knife, which has a lower cutting edge, is located above a felt covered roller 18, provided with journals 19, which are detachably arranged in open bearing recesses 20 of a tank or reservoir 21, designed to contain water for moistening the felt 22 of the roller 19. The tank or reservoir 21, which is open at the top, is provided at the inner faces of its sides with the bearing recesses 20, which extend downwardly from the upper edges of the side walls, and the latter are provided at their outer faces with top horizontal ribs or enlargements 23, which form shoulders to rest upon horizontal arms 24, projecting from the front of the casing at opposite sides thereof, and at points below the transverse apertures 13. The tank or receptacle is arranged between the supporting arms 24, which are provided in their upper portions with tapered recesses 25 to receive tapered lugs or projections 26, preferably formed integral with the side walls of the tank or receptacle and extending downwardly from the ribs or enlargements at the centers thereof and fitting in the tapered recesses 25, whereby the tank or receptacle is held against inward or outward movement on the supporting arms 24. The tank or receptacle is removable for cleaning the parts or any other purpose. The roller is located below the transverse apertures of the casing in convenient position to enable the tape to be drawn over it, as the same is pulled from the casing, and when the tape is drawn outwardly over the felt covered roller, the lat-

ter is rotated and moistens the gummed face of the tape, and the operator by raising his hand carries the tape into contact with the knife, which severs the entire moistened portion from the rest of the tape, leaving a sufficient portion thereof extending through the transverse apertures to enable the tape to be readily grasped when it is desired to obtain another piece of the same. Both the roller and the knife extend entirely across the casing so as to operate on the tape of either compartment.

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

1. A sealing machine comprising an approximately circular casing provided with a central vertical partition forming opposite tape receiving compartments, said casing being also provided at the front with transverse apertures extending from the partition to the sides of the casing, a spindle extending through the partition in opposite directions from the casing and adapted to support reels of gummed tape, side plates covering the said compartments and detachably secured to the casing, a knife located above the transverse apertures and secured to and extending entirely across the casing for severing the tape of either compartment, a tank or receptacle supported on the casing directly below the said apertures, and a moistening roll mounted in the tank or receptacle and arranged to receive the tape of either compartment.

2. A sealing machine comprising a casing having tape receiving compartments and provided at the front with apertures to enable the tape to be drawn from the compartments, said casing being also provided at the front below the apertures with integral projecting horizontal supporting arms which are spaced apart and provided in their upper portions with recesses, a tank or receptacle arranged between the supporting arms and provided at the outer faces of its sides with exterior integral ribs or enlargements seated upon the supporting arms, said tank or receptacle being also provided with integral lugs extending downwardly from the ribs or enlargements extending longitudinally of and fitting in the recesses of the arms to hold the tank or receptacle against displacement, and a moistening roll mounted within the tank or receptacle.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WALTER C. POWELL.

Witnesses:

G. I. THOMPSON,
C. E. WHITNEY.