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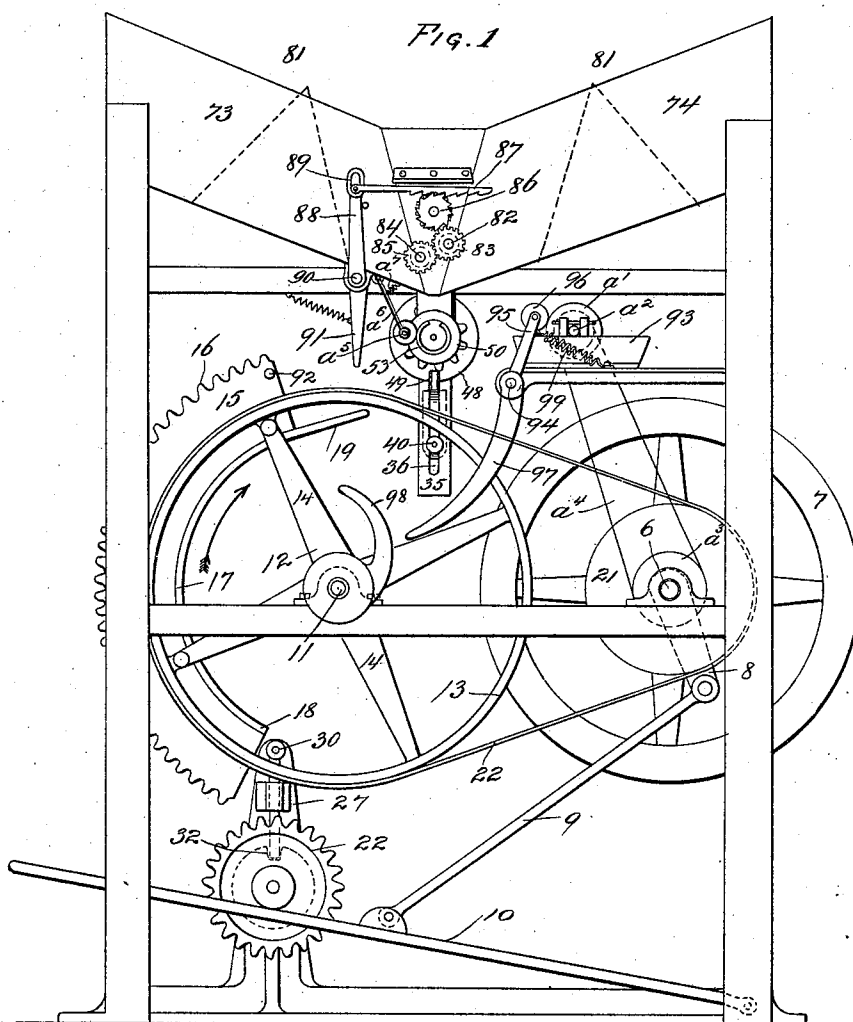
4 Sheets—Sheet 1.

R. A. CARTER.

MACHINE FOR WRAPPING, FOLDING, AND SEALING CIRCULARS.

No. 577,418.

Patented Feb. 23, 1897.



WITNESSES

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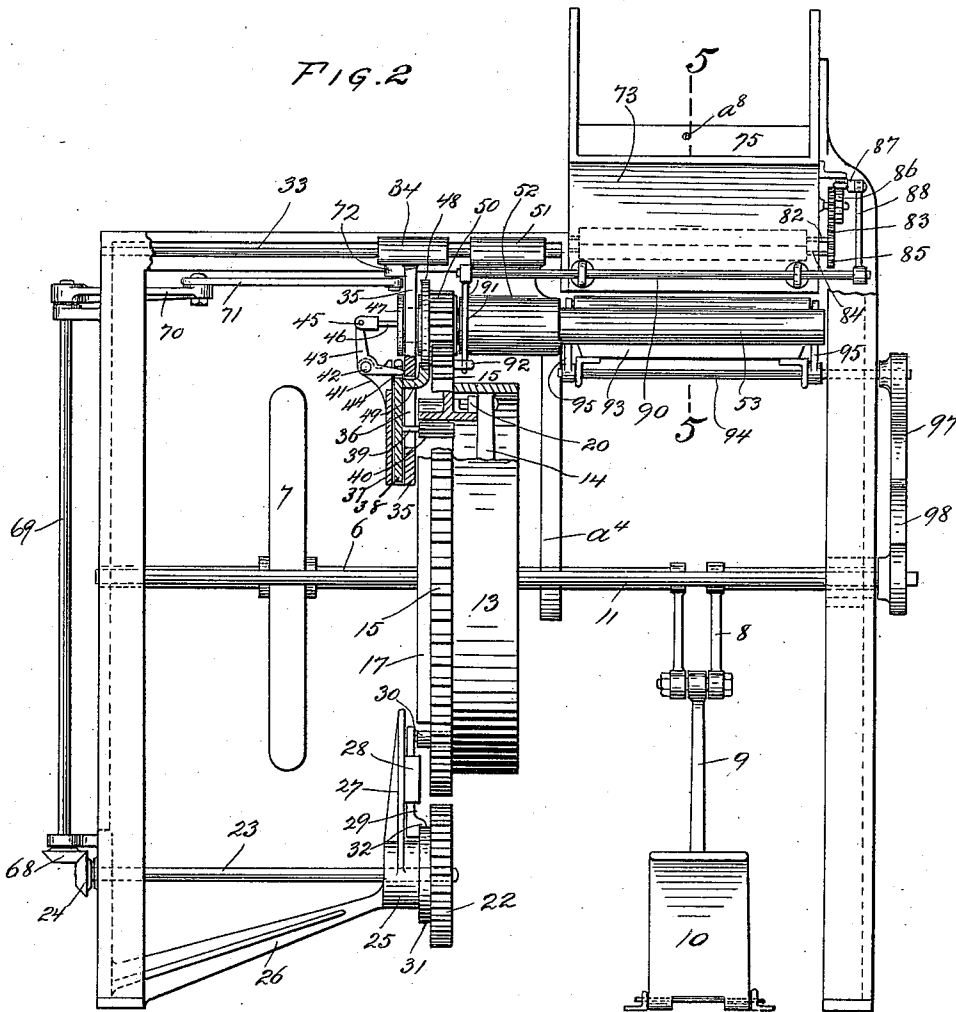
4 Sheets—Sheet 2.

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MACHINE FOR WRAPPING, FOLDING, AND SEALING CIRCULARS.

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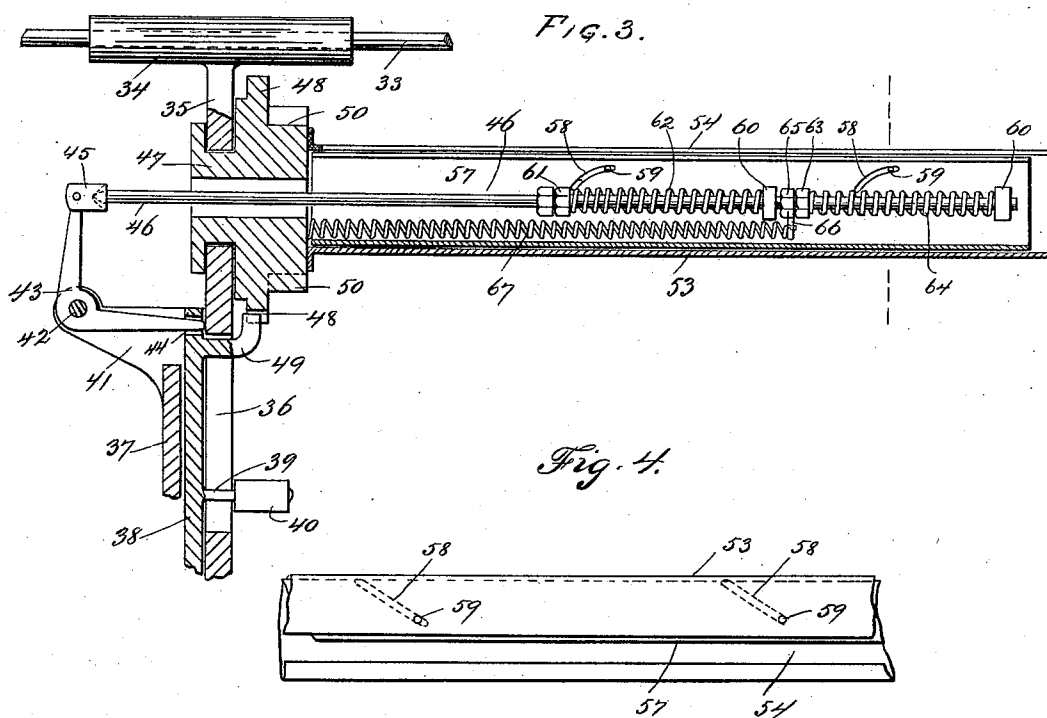
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WITNESSES

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(No Model.)

4 Sheets—Sheet 4.

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Fig. 6.

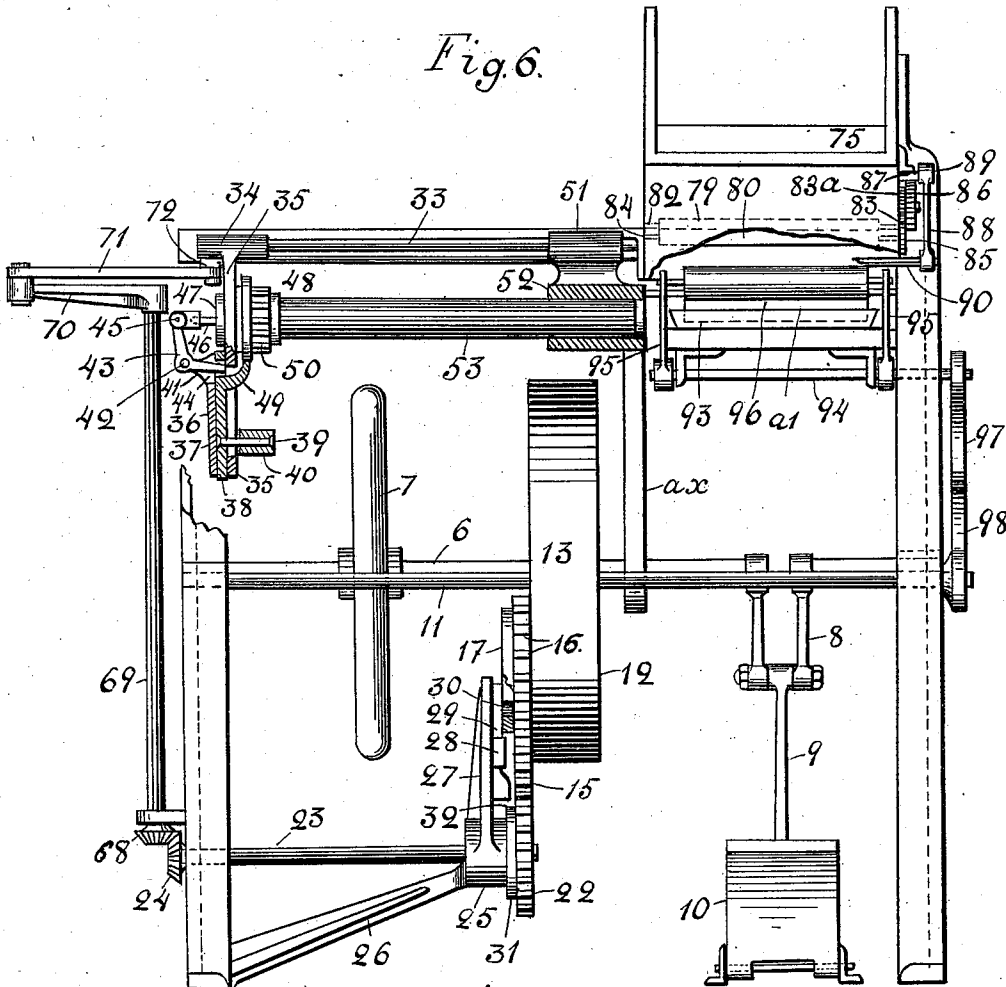
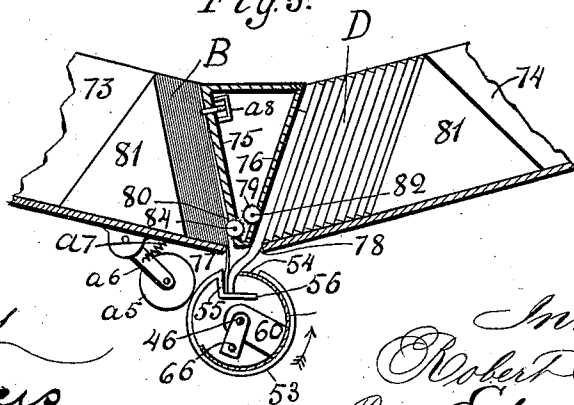


Fig. 5.



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UNITED STATES PATENT OFFICE.

ROBERT A. CARTER, OF NEW YORK, N. Y., ASSIGNOR OF TWO-THIRDS TO
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MACHINE FOR WRAPPING, FOLDING, AND SEALING CIRCULARS.

SPECIFICATION forming part of Letters Patent No. 577,418, dated February 23, 1897.

Application filed August 15, 1896. Serial No. 602,878. (No model.)

To all whom it may concern:

Be it known that I, ROBERT A. CARTER, a subject of the Queen of Great Britain, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Machines for Wrapping, Folding, and Sealing Circulars, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters and numerals of reference indicate corresponding parts wherever found throughout the several views.

This invention relates to machines for folding and wrapping pamphlets, magazines, circulars, bills, and other documents; and the object thereof is to provide an improved machine of this class which is simple in construction and operation and which is designed to fold and wrap the articles referred to and to seal said wrappers.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is an end view of my improved machine; Fig. 2, a side view thereof with part of the construction in section; Fig. 3, a section of a detail of the construction; Fig. 4, a plan view of a part of the construction shown in Fig. 3; Fig. 5, a partial section on the line 5 5 of Fig. 2, showing the circulars to be folded and the wrappers by which they are covered in position; and Fig. 6, a sectional side view similar to Fig. 2, but showing the parts in a different position.

In the practice of my invention I provide a suitable main frame, in which is mounted a longitudinal power-shaft 6, which is provided with a balance-wheel 7 and a yoke-crank 8, with which is pivotally connected a rod 9, which is also pivotally connected with a pedal 10. Said power-shaft may be turned or operated by said pedal, or any suitable means may be employed for accomplishing this result, such as a crank-wheel at one end of said shaft; or a power-pulley may be mounted thereon, and said shaft may thus be turned by steam or electric power. I also provide a supplemental shaft 11, which is mounted in the frame parallel with the power-shaft 6 and at a suitable distance therefrom.

Mounted on said supplemental shaft and about centrally thereof is a drive-wheel 12, provided with a wide rim 13 and radial spokes 14, and secured to one side of the rim 13 is a segmental or circular gear-plate 15, which is provided with gear-teeth 16 on its outer perim-
eter. Secured within the rim 13 is a segmental or circular flange-plate 17, said plate being also secured within the segmental or circular gear-plate 15 and terminating at one end thereof, as shown at 18, and projecting slightly beyond the opposite end, as shown at 19. The end 19 of the segmental or circular flange-plate 17 is curved outwardly toward the rim 13 of the drive-wheel, and said flange-plate is bolted to the spokes 14 of the drive-wheel, as shown at 20 in Fig. 2.

Mounted on the power-shaft 6 is a pulley 21, and a power-belt 22 is mounted on the rim 13 of the drive-wheel and on said pulley 21. Below the drive-wheel or the lower end of the circular or segmental gear-plate 15, as shown in Figs. 1 and 2, is a gear-wheel 22, which is adapted to operate in connection with said gear-plate 15. Said wheel 22 is mounted on a shaft 23, the outer end of which passes through the frame and is provided with a beveled gear-wheel 24, and the free end of which is supported by a cylindrical head 25, formed on a bracket or arm 26. The cylindrical head 25 is provided with an upwardly-directed arm 27, on the inner side of which is a keeper 28, through which passes a vertically-movable bar 29, which carries at its upper end a roller 30, and the lower end of which is adapted to enter a notch or recess formed in the hub 31 of the gear-wheel 22, as shown at 32. Said bolt 29 is adapted to be operated by the circular or segmental flange-plate 17, as hereinafter described.

The upper part of the main frame is provided with a transverse rod or bar 33, on which is formed a sliding sleeve 34, which is provided with a depending plate or arm 35, the lower end of which is provided with a vertical slot 36. The plate 35 is provided on its outer side with a keeper 37, between which and said plate is mounted a vertically-movable slide 38, which is provided with an arm 39, which extends through the slot 36 and is provided at its inner end with a roller 40.

The plate 35 is also provided on its outer side with an arm 41, to which is pivoted at 42 a crank-lever 43, one end of which extends inwardly and is adapted to enter a slot or opening 44 in the upper end of the slide 38, and the other arm of which extends upwardly and is provided with a pivoted head 45, with which is connected a rod 46, the function of which will be hereinafter explained.

The plate 35, which is secured to or formed on the sleeve 34, carries a revoluble head 47, which is provided on the inner side of said plate and adjacent thereto with a locking-disk 48, and the upper end of the slide 38 is provided with an arm 49, which projects through the slot 36 in said plate and is curved upwardly and adapted to operate in connection with said locking-disk 48. The head 47 is also provided inside of the locking-disk 48 with a circular gear 50, which is operated by the circular or segmental gear-plate 15, these features of construction being best shown in Figs. 2 and 3.

Mounted on the shaft 33 is a stationary sleeve 51, which carries a tubular sleeve 52, and secured to the inner side of the head 47 or the side of the circular gear 50, or formed thereon, is a tube 53, which passes through the sleeve 52 and in the upper side of which is formed a longitudinal slot or opening 54, one side of which is provided with an inwardly-directed longitudinal plate 55, at the lower edge of which is an angular longitudinal plate 56, which forms a bottom for the longitudinal opening or slot 54. Mounted in said tube 53 is a sliding and turning gate 57, which extends almost the full length of the tube 53, and formed in said gate 57 are inclined and curved slots 58, through which project pins 59, formed on or secured to the inner side of the tube 53. Said gate 57 is provided with two inwardly-directed lugs or projections 60, through which the rod 46, which is connected with the head 45 of the upper arm of the lever 43, passes, said rod being passed centrally through the head 47, as shown in Fig. 3, and through said inwardly-directed lugs or projections 60, as above described. Said rod 46 is provided centrally thereof with one or more nuts or burs 61, between which and the inner lug or projection 60 is a spiral spring 62, and a similar nut or bur 63 is also secured to said rod 46 outside of said inner lug or projection 60, and between the nut or bur 63 and the outer lug or projection 60 is another spiral spring 64. Secured to said rod 46, between the inner lug or projection 60 and the nut or bur 63, is another nut or bur 65, which is provided with an arm 66, with which is connected a strong spiral spring 67, one end of which is secured to the head 47, within the tube 53, and the function of which is to throw the rod 46 outwardly and to hold it in connection with the head 45.

The beveled gear-wheel 24 on the end of the shaft 23 operates in connection with a corresponding beveled gear-wheel 68, as shown in

Fig. 2, said gear-wheel 68 being mounted on a vertical shaft 69, the upper end of which is provided with a crank 70, which is pivotally connected with a rod 71, which is pivotally connected with a shoulder or projection on the lower side of the sleeve 34, as shown at 72 in Fig. 2. By means of this arrangement the sleeve 34 is caused to slide on the rod 33 in the operation of the machine, as hereinafter described.

Secured transversely of the machine and immediately over the tube 53 are two downwardly-inclined chutes 73 and 74, which are separated centrally by a triangular partition composed of upright walls 75 and 76, said partition-walls being connected at their lower ends. In the bottom of the chute 73 is a slot or opening 77, and a similar slot or opening 78 is formed on the opposite side. Mounted transversely of the partition wall or plate 76 is a roller 79, and a similar roller 80 is mounted transversely of the partition wall or plate 75. In practice the covers for the pamphlets, circulars, and other articles to be folded, wrapped, or covered are placed in the chutes 73, against the partition plate or wall 75, as shown at B, and the circulars or documents are placed in the chutes 74, against the partition wall or plate 76, as shown at D. Said wrappers or covers and said circulars or documents are held in place by triangular blocks 81, which are placed in said chutes, as shown in dotted lines in Fig. 1 and in full lines in Fig. 5, the detailed construction of this part of the apparatus being best shown in Fig. 5. The object of the triangular blocks 81, which are adapted to slide inwardly and downwardly, is to hold said pamphlets, circulars, or other documents and said wrappers or covers in position against the partition plates or walls 75 and 76.

The shaft 82, on which the roller 79 is mounted, is provided with a gear-wheel 83, and the shaft 84, on which the roller 80 is mounted, is provided with a corresponding gear-wheel 85, these gear-wheels being located at the outside of the chutes, as shown in Figs. 1 and 6. Above the gear-wheel 83 is a ratchet-wheel 86, which is adapted to be operated by a sliding rack-bar 87, one end of which is pivotally connected with the upper end of a lever 88, as shown at 89, by means of a slot formed in said lever. The lower end of the lever 88 is connected with a shaft 90, which extends parallel with the shaft or rod 33, and the inner end of which is provided with a crank 91, which is operated by a pin or projection 92, formed on the circular or segmental gear-plate 15, and on the shaft of the ratchet-wheel 86 is a small gear-wheel 86^a, by which the gear-wheel 83 is operated. By means of this construction the circulars, pamphlets, and other documents and the wrappers therefor are fed through the openings or slots 77 and 78, as hereinafter described, into the longitudinal slot 54 in the tube 53.

I also provide means for gumming the wrap-

pers and for sealing the same, which consists of a suitable vessel 93, which is supported at one side of the tube 53, and at the lower edge thereof, adjacent to the tube 53, is a shaft 94, provided at each end with arms or cranks 95, which support a roller 96. The shaft 94 is provided at its outer end with a curved crank 97, which is adapted to be operated by a similar curved or segmental crank 98, secured to the end of the shaft 11, on which the drive-wheel 12 is mounted. One of the upwardly-directed arms 95, between which the roller 96 is mounted, is provided with a spring 99, one end of which is secured to the support of the vessel 93, and said spring is adapted to hold the roller 96 in contact with a roller a' , which is mounted on a shaft supported at the top of the vessel 93, as shown at a^2 in Fig. 1. The shaft on which the roller a' is mounted is provided with a pulley at its inner end, which is not shown, and the main power-shaft 6 is provided with a similar pulley a^3 , and a belt a^4 connects said pulleys. I also provide a roller a^5 , which is supported by pivoted arms a^6 and which is adapted to bear on the side of the tube 53 opposite to the roller 96, and a spring or springs a^7 , secured to said arm or arms, hold the roller a^5 in contact with the tube 53.

The operation will be readily understood from the foregoing description, when taken in connection with the accompanying drawing, and the following statement thereof.

The normal position of the parts is that shown in the drawings, and in practice the circulars or other documents to be wrapped and sealed are placed in the chute 74 and press against the wall or plate 76, and the wrappers are placed in the chute 73 and press against the wall or plate 75, and said documents and said wrappers are secured in this position by the sliding blocks 81. The power-shaft 6 is then revolved by the pedal 10, or by any suitable means, and this operation revolves the drive-wheel 12, and the pin or projection 92 on the segmental gear-plate 15 strikes the lower end of the crank 91. Said crank operates the shaft 90, which in turn operates the crank 88, by which the rack-bar 87 is operated, and said rack-bar, through the ratchet-wheel 86, operates the gear-wheels 83 and 85, which operate the rollers 79 and 80. At this operation one of the circulars is fed through the slot 78 and one of the wrappers through the slot 77, and both are passed into the slot 54 in the upper side of the tube 53 and at the same time. The outwardly-inclined end 19 of the segmental flange-plate 17 strikes the side of the roller 40, which is connected with the slide 38, and forces said slide downwardly, releasing the arm 49 from the locking-disk 48, and drawing down the lower arm of the lever 43 forces the rod 46 inwardly. This operation of the rod 46 forces the gate 57 outwardly and at the same time turns it so as to force the upper edge thereof against the lower edge of the circular

and so as to securely clamp said circular and said wrapper in the slot 54, as shown in Fig. 5. At the same time the gear-teeth on the segmental gear-plate 15 engage with the circular gear 50, and the tube 53 is revolved thereby in the direction of the arrow, as shown in Fig. 5. This operation revolves said tube 53 and wraps the circular thereon, also the wrapper, the wrapper being on the outside of the circular, and said wrapper and said circular are held in contact with the side of the tube 53 by the roller a^5 . At the proper time the roller 96 is thrown forward by the crank 98 on the shaft 11 striking the crank 97 on the shaft 94, and said roller 96 presses upon the wrapper as the tube 53 revolves and applies the gum thereto. Said roller 96 is again retracted by the spring 99 after it has been operated as described, and as the tube 53 continues to revolve the roller a^5 presses the end of the wrapper over the gummed portion thereof and seals it thereto. As the wheel 12 continues to revolve the roller 40 is released or passes over the opposite end of the segmental flange-plate 17 and the end 19 of said flange-plate passes beneath the roller 30 and raises the arm 29, to which it is secured. This releases the gear-wheel 22, and as the wheel 12 revolves the gear-plate 15 engages with the wheel 22 and revolves the shaft 23, which operates the vertical shaft 69, which operates the crank 70. This operation draws outwardly the sleeve 34 of the plate 35 and with it the tube 53, which slides in the sleeve 52, this position of these parts being shown in Fig. 6, and the sealed circular is removed from said tube by said sleeve 52 and drops onto the floor or into a receptacle prepared therefor. As said wheel 13 continues to revolve, the sleeve 34, the plate 35, and the tube 53 will be returned to the position shown in Fig. 2, and this operation continues as long as the power-shaft 6 is operated.

It will be understood that the vessel 93 is provided with any suitable gumming material, such as mucilage or glue, and the roller a' is constantly turning therein. The roller 96 is in contact with said roller a' except when operated by the arms 98 and 97, as hereinbefore described.

I have also shown in Fig. 5 a spring-operated pin or blade a^8 , which passes outwardly through the partition plate or wall 75 in the chute 73, and the object of this device is to prevent all the wrappers except the one in contact with said plate or wall from being drawn or forced downwardly through the slot 77 by the roller 80, and this pin or blade passes through or into a number of said wrappers, and the one adjacent to said plate or wall is torn off by said roller and passed downwardly through said slot, as hereinbefore described, while all the rest are held in proper position to be operated upon by the said roller. I also provide the roller 79 with a number of small teeth or sharp points which pass into the circular or document to be forced through

the slot 78, and the operation of this roller is thus made positive at all times. The roller 80, by which the wrappers are fed through the slot 77, is preferably provided with a sanded 5 or otherwise-roughened surface. The head 45, which is connected with the lever 43, is pivotally secured thereto and the outer end of the rod 46, which is pivotally connected with said head, is pointed and passed into a 10 socket formed therein. The spring 67 serves to press said rod into said socket, and the springs 62 and 64 serve to give the gate 57 a yielding pressure against the paper or the circulars and wrappers, so as to accommodate 15 the action of the gate to the thickness of said paper or of the circulars and wrappers.

The segmental gear 15 is so proportioned to gear 22 that the latter will have one revolution for each operation of the machine, 20 while the gear 50 is so proportioned to the gear 15 that it will revolve three times for each operation of the machine.

My improved machine is simple in construction and operation and perfectly adapted to 25 accomplish the result for which it is intended, and it is evident that changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing its ad- 30 vantages, and I reserve the right to make all such alterations therein and modifications thereof as fairly come within the scope of the invention.

The slotted, revoluble, and longitudinally- 35 movable tube 53 constitutes the core on which the documents and wrappers are wound, as herein described, and it will be apparent that this core may be made of any desired size or diameter, and the construction of the parts 40 connected therewith may be regulated so as to adapt the device to circulars, periodicals, and various other printed publications of different shapes, sizes, and thicknesses.

Having fully described my invention, I 45 claim as new and desire to secure by Letters Patent—

1. In a machine for folding, wrapping, and sealing pamphlets, circulars and other documents, the combination with a suitable frame, 50 of a longitudinally-movable and revoluble tube, provided in one side with a longitudinal slot or opening, into which the circular and the wrapper are adapted to be fed, said tube being provided with a sliding and revol- 55 oluble gate, which is adapted to clamp said circular and said wrapper in said slot or opening, and means for operating said tube and said gate, and for sealing the document, substantially as shown and described.

2. In a machine for wrapping, and folding circulars and other documents, the combination with a suitable frame, of two chutes suit- 60 ably supported, the adjacent ends of which are inclined inwardly and downwardly, and 65 each of which is provided with a slot, in the bottom thereof, one of said chutes being adapted to receive the documents, and the

other the wrappers, a longitudinally-movable and revoluble tube mounted below said slots, and provided with a longitudinal slot or open- 70 ing in the side thereof, and a sliding and revoluble gate mounted in said tube, and means for feeding said circulars and said wrappers into the slot or opening in said tube, and de- 75 vices for operating said gate so as to clamp and hold the same therein, and for revolving said tube, substantially as shown and de- scribed.

3. In a machine for wrapping and folding circulars and other documents, the combina- 80 tion with a suitable frame, of two chutes suitably supported, the adjacent ends of which are inclined inwardly and downwardly, and each of which is provided with a slot, in the bottom thereof, one of said chutes being 85 adapted to receive the documents, and the other the wrappers, a longitudinally-movable and revoluble tube mounted below said slots, and provided with a longitudinal slot or open- 90 ing in the side thereof, and a sliding and revoluble gate mounted in said tube, and means for feeding said circulars and said wrappers into the slot or opening in said tube, and de- 95 vices for operating said gate so as to clamp and hold the same therein, and for revolving said tube, and for sealing said wrappers and removing the sealed document from said tube, substantially as shown and described.

4. In a machine for folding and sealing circulars and other documents, the combination 100 with a suitable frame, of a longitudinally-movable and revoluble tube, provided with a slot or opening in one side thereof, and with a longitudinally-movable and revoluble gate, which is mounted therein, means for feeding 105 the documents and the wrappers into said slot or opening in said tube, and for operating said gate to clamp and hold the same therein, and devices for revolving said tube, and for moving the same longitudinally so as 110 to remove the document therefrom when wrapped and sealed, substantially as shown and described.

5. In a machine for folding, wrapping and sealing circulars and other documents, the 115 combination with a suitable frame, of a sliding and revoluble tube mounted in a stationary sleeve, and said tube being provided with a slot or opening in one side thereof, suitable devices for feeding a document and a wrapper 120 into said slot or opening, a sliding and revoluble gate mounted in said tube, and adapted to clamp said document, and said wrapper in said slot or opening, a gum receptacle or vessel mounted adjacent to one side of said 125 tube, a roller mounted therein, another roller mounted adjacent thereto, and adapted to bear thereon, and to be thrown against said revoluble tube, and another roller mounted on the opposite side of said revoluble tube, 130 and adapted to press thereon, substantially as shown and described.

6. In a machine for folding, wrapping and sealing circulars and other documents, the

combination with a suitable frame, of a sliding and revoluble tube mounted in a stationary sleeve, and said tube being provided with a slot or opening in one side thereof, suitable devices for feeding a document and a wrapper into said slot or opening, a sliding and revoluble gate mounted in said tube, and adapted to clamp said document, and said wrapper in said slot or opening, a gum receptacle or vessel mounted adjacent to one side of said tube, a roller mounted therein, another roller mounted adjacent thereto, and adapted to bear thereon, and to be thrown against said revoluble tube, and another roller mounted on the opposite side of said revoluble tube, and adapted to press thereon, and means for moving said revoluble tube longitudinally through said sleeve and for operating said head and revoluble gate, substantially as shown and described.

7. In a machine for folding, wrapping and sealing circulars and other documents, the combination with a suitable frame, of a sliding and revoluble tube mounted in a stationary sleeve, said tube being provided with a slot or opening in one side thereof, suitable devices for feeding a document and a wrapper into said slot or opening, a sliding and revoluble gate mounted in said tube, and adapted to clamp said document and said wrapper in said slot or opening, a gum receptacle or vessel mounted adjacent to one side of said tube, a roller mounted therein, another roller mounted adjacent thereto and adapted to bear thereon and to be thrown against said revoluble tube, and another roller mounted on the opposite side of said revoluble tube, and adapted to press thereon, and means for moving said revoluble tube longitudinally through said sleeve, and for operating said revoluble gate, consisting of a head formed on or secured to said tube, a rod passing through said head, and through lugs or projections formed on said gate, said rod being provided with springs which are adapted to force it outwardly, and operative devices connected with said head, and said rod for revolving said tube and for forcing the rod inwardly and for moving said tube longitudinally, substantially as shown and described.

8. In a machine for folding, wrapping and sealing circulars and other documents, the combination with a suitable frame, of a sliding and revoluble tube mounted in a stationary sleeve, said tube being provided with a slot or opening in one side thereof, suitable devices for feeding a document and a wrapper into said slot or opening, a sliding and revoluble gate mounted in said tube, and adapted to clamp said document and said wrapper in said slot or opening, a receptacle mounted adjacent to one side of said tube, a roller mounted therein, another roller mounted adjacent thereto, and adapted to be thrown against said revoluble tube, and another roller mounted on the opposite side of said revoluble tube and adapted to press thereon,

and means for moving said revoluble tube longitudinally through said sleeve, and for operating said revoluble gate, consisting of a suitably-supported sliding sleeve, provided with a head, to which said sliding and revoluble tube is secured, and through which passes a rod, which also passes through lugs or projections formed on said gate, said rod being provided with springs which are adapted to force it outwardly, and operative devices connected with said head and said rod for revolving said tube, and for forcing said rod inwardly, said gate being also provided with inclined slots, and said sliding and revoluble tube with pins or projections which pass there-through, whereby when the gate is thrown outwardly by said rod it is also turned in said tube, substantially as shown and described.

9. In a machine for folding, wrapping and sealing circulars and other documents, the combination with a suitable frame, of a longitudinally-movable and revoluble tube, which is supported in a sleeve, and provided with a longitudinal slot or opening in one side, and means for feeding the circulars and wrappers thereinto, and for sealing the same, while said tube is revolved, and devices for moving said tube longitudinally and for revolving the same, consisting of a sleeve mounted in line with said tube, and provided with a depending plate, a head revolvably mounted in said plate, and to which said tube is secured, a circular gear formed on said head, and a suitably-mounted drive-wheel provided with a segmental or circular gear-plate, which is adapted to operate in connection with said circular gear, a vertically-movable slide connected with the plate with which said head is connected, and provided with an arm which operates in connection with a locking-disk formed on said head and said drive-wheel being provided with a circular or segmental flange-plate which is adapted to depress said slide, and devices connected with said drive-wheel for moving said sleeve and said tube longitudinally, substantially as shown and described.

10. In a machine for folding, wrapping and sealing circulars and other documents, the combination with two inwardly and downwardly inclined chutes in which said wrappers and said documents are placed, said chutes being each provided at its lower end with a slot, through which said wrappers and documents are passed, of a suitably-supported longitudinally-movable and revoluble tube mounted below said slots, said tube being provided with a slot or opening in one side into which the wrappers and documents are adapted to be passed, and with a longitudinally-movable and revoluble gate mounted therein, and adapted to clasp and hold a wrapper and a document, in said slot, and means for revolving said tube and for moving it longitudinally, and also for operating said gate, and a suitable gumming device mounted adjacent to said tube, and adapted to gum said

wrapper, said chutes being also provided with rollers at the inner ends thereof, by which the wrappers and the documents are fed through the slots into said tube, substantially as shown and described.

11. In a machine for folding, wrapping, and sealing circulars and other documents, the combination with a sliding sleeve, provided with a depending plate, of a revoluble head mounted in said plate, a tube secured to said head, and provided with a slot in its upper side, a longitudinally-movable and revoluble gate mounted in said tube a sliding rod passing through said tube, and connected with said gate, a vertically-movable slide mounted on said plate, and provided with an arm, which passes through a vertical slot formed therein, and which operates in connection with a locking-disk formed on said head, said plate being also provided with a crank-lever, one arm of which passes through an opening, in the upper end of said slide, and the other arm being provided with a head, with which said sliding rod is connected, said parts being in operative connection with devices by which said sleeve is moved longitudinally on its support, and the said tube revolved, substantially as shown and described.

12. In a machine for wrapping, folding, and sealing circulars, the combination with a suitable frame, of a stationary sleeve, a sliding sleeve provided with a depending plate, having a vertical slot formed in the lower end thereof, and a revoluble head mounted therein, above said slot, a tube connected with said head, and passing through the stationary sleeve, said tube being provided in its upper side, with a slot or opening, and with a sliding and revoluble gate mounted therein, a spring-operated rod passing through said head, and connected with said gate, a vertically-movable slide connected with said plate, and provided with an arm, which passes through a slot formed therein, and which engages with a locking-disk formed on said head, and another arm which passes through said slot, and is provided with a roller, a crank-lever pivotally connected with said plate, one arm of which passes through an opening in the upper end of said slide and the other arm being provided with a pivoted head, having a socket into which the outer end of the rod that is connected with the gate, passes, and means for operating said slide, and said revoluble tube, and for moving the sliding sleeve, substantially as shown and described.

13. In a machine for wrapping, folding and sealing circulars the combination with a suitable frame, of a sliding sleeve provided with a depending plate having a vertical slot formed in the lower end thereof, and a revoluble head mounted therein, above said slot, a tube connected with said head, and passing through a stationary sleeve, said tube being provided in its upper side, with a slot or opening, and with a sliding and revoluble gate mounted

therein, a spring-operated rod passing through said head, and connected with said gate, a vertically-movable slide connected with said plate, and provided with an arm, which passes through a slot formed therein, and which engages with a locking-disk formed on said head, and another arm which passes through said slot, and is provided with a roller, a crank-lever pivotally connected with said plate, one arm of which passes through an opening in the upper end of said slide and the other arm being provided with a pivoted head, having a socket into which the outer end of the rod that is connected with the gate, passes, and means for operating said slide, and said revoluble tube, and for moving the sliding sleeve, and devices for feeding the circulars and the wrappers into the slot or opening into said sliding tube, and for gumming said wrappers as the tube is revolved, substantially as shown and described.

14. In a machine for folding, wrapping and sealing circulars, pamphlets and other documents, the combination with a suitable, revoluble and longitudinally-movable tube on which said documents are adapted to be wound, of means for feeding the documents and wrappers thereto, consisting of two transverse chutes which are arranged over said tube and which are inwardly and downwardly inclined, and between which is a triangular partition, the base of which is directed upwardly and at each side of the apex of which is a slot, one of said chutes being adapted to receive documents, and the other wrappers, and means for feeding said documents, and wrappers through said slots, substantially as shown and described.

15. In a machine for folding, wrapping and sealing circulars, pamphlets, and other documents, the combination with a suitable, revoluble and longitudinally-movable tube on which said documents are adapted to be wound, of means for feeding the documents and wrappers thereto, consisting of two transverse chutes which are arranged over said tube and which are inwardly and downwardly inclined, and between which is a triangular partition, the base of which is directed upwardly and at each side of the apex of which is a slot, one of said chutes being adapted to receive documents, and the other wrappers, and means for feeding said documents and wrappers through said slots, and said longitudinally-movable and revoluble tube being also provided with a longitudinal slot into which the wrappers and documents are fed, and means for securing said wrappers and documents to said tube while the same is revolved, substantially as shown and described.

16. In a machine for wrapping, and sealing circulars, pamphlets and other printed publications, the combination with a suitably-supported longitudinally-movable and revoluble core, provided with means for clamping or securing the wrappers and documents thereto,

and means for feeding said documents or
wrappers, consisting of two chutes which are
arranged transversely of said core and down-
wardly inclined, said chutes being separated
5 by a partition and each being provided with
a slot directly over said core, and the parti-
tion between said chutes being provided with
rollers by which the documents and wrappers
are fed thereto, said documents being adapted
10 to be placed in one of said chutes and said

wrappers in the other, substantially as shown
and described.

In testimony that I claim the foregoing as
my invention I have signed my name, in pres-
ence of the subscribing witnesses, this 14th 15
day of August, 1896.

ROBERT A. CARTER.

Witnesses:

W. W. HILL,
C. S. ROGERS.