

No. 730,382.

PATENTED JUNE 9, 1903.

E. MARTINI.

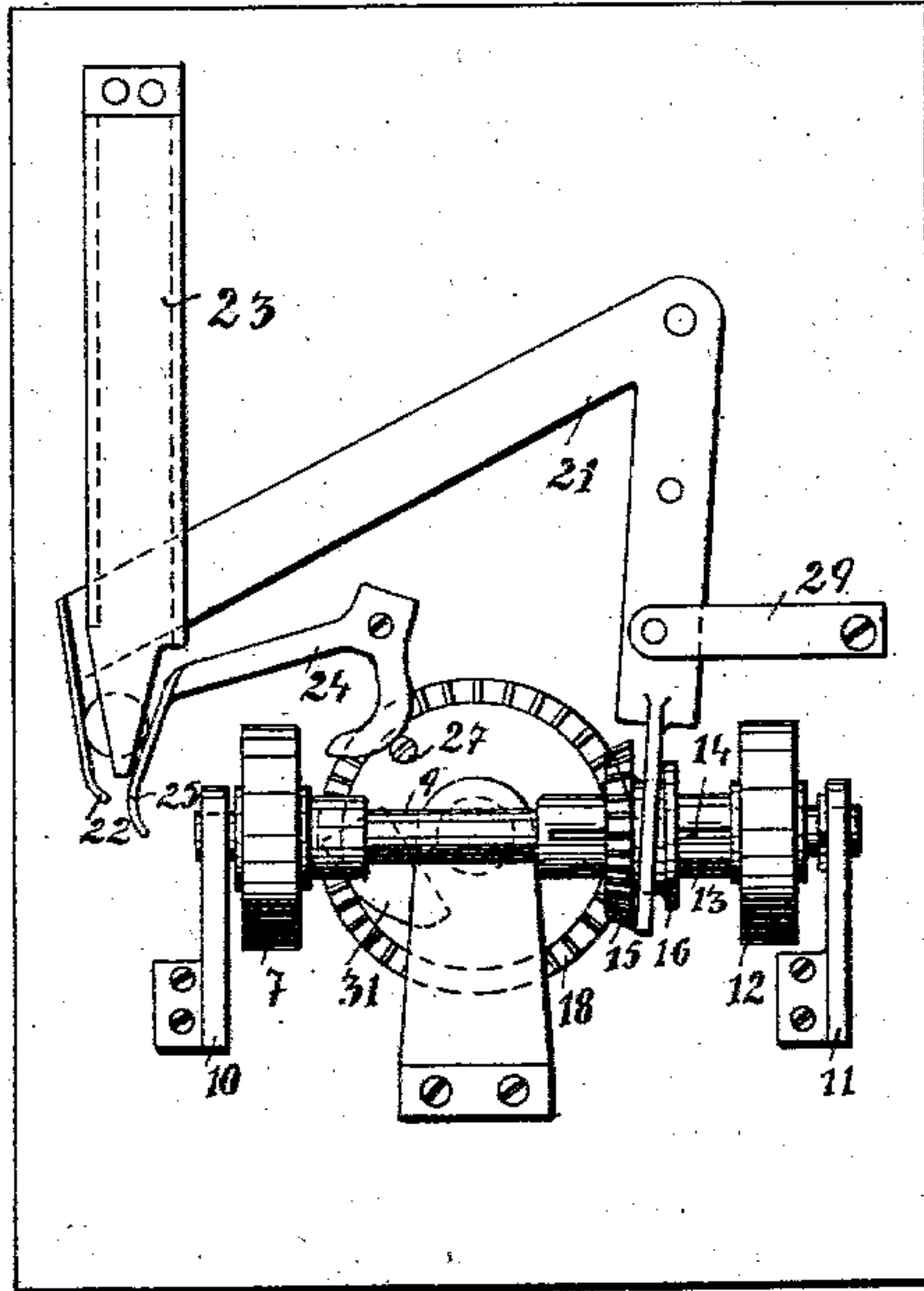
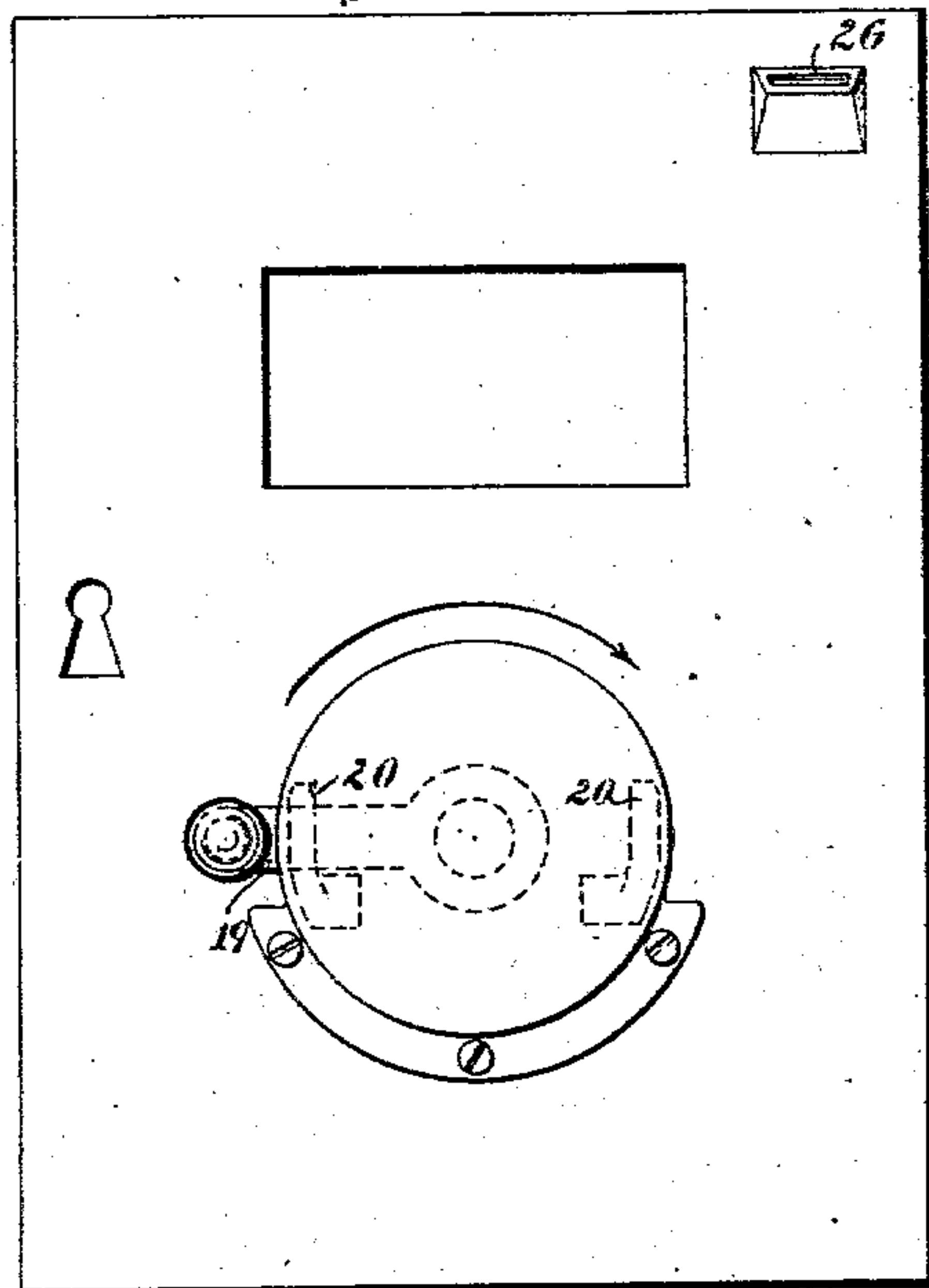
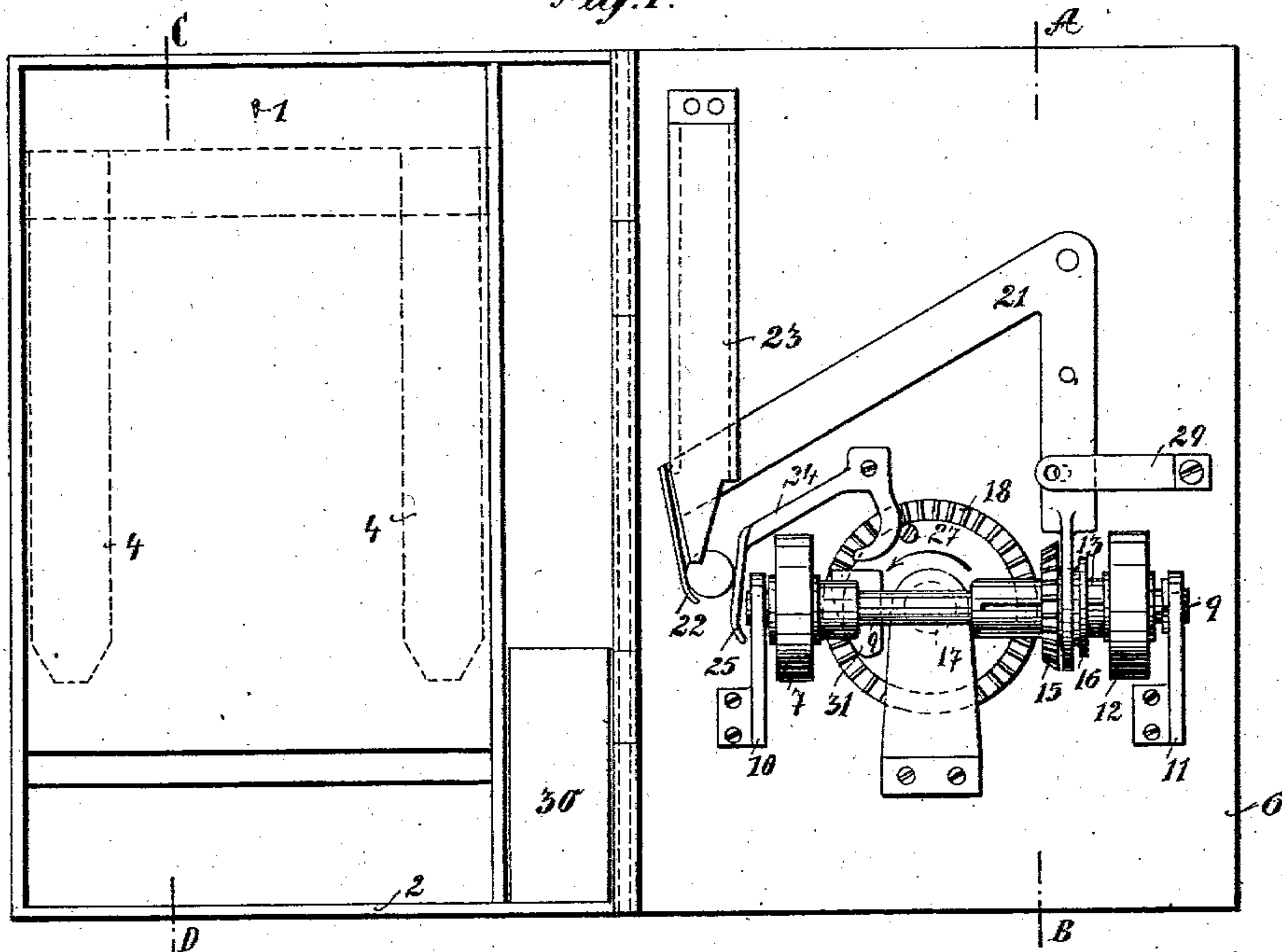
COIN FREED DELIVERY APPARATUS FOR PAPER SHEETS OR PACKAGES.

APPLICATION FILED JULY 11, 1900.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses Fig. 2

Fig. 3.

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APPLICATION FILED JULY 11, 1900.

NO MODEL.

2 SHEETS—SHEET 2.

Fig. 4.

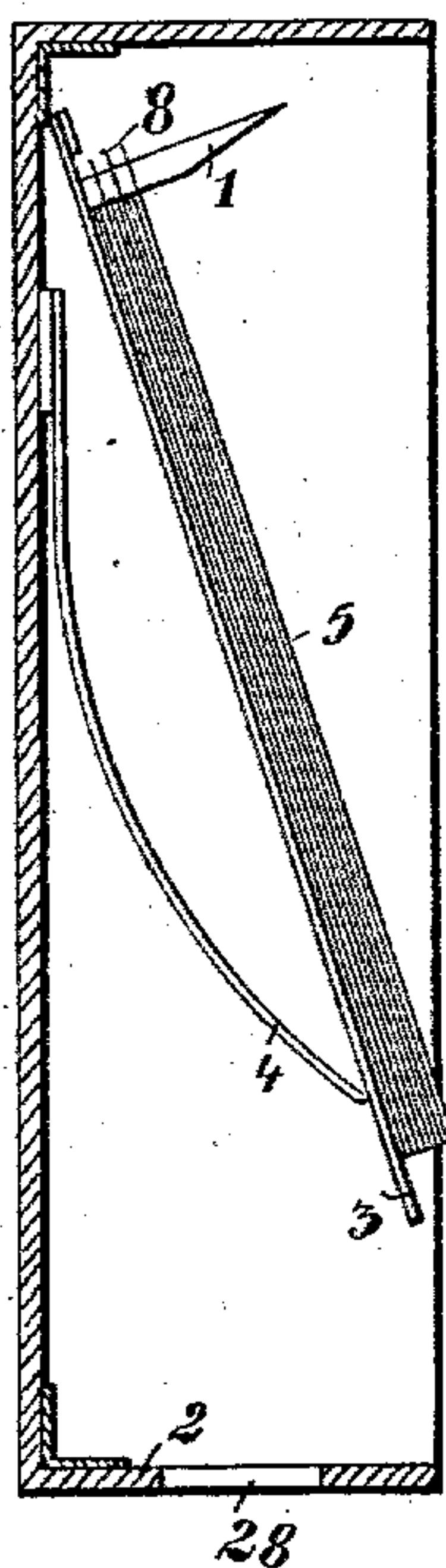
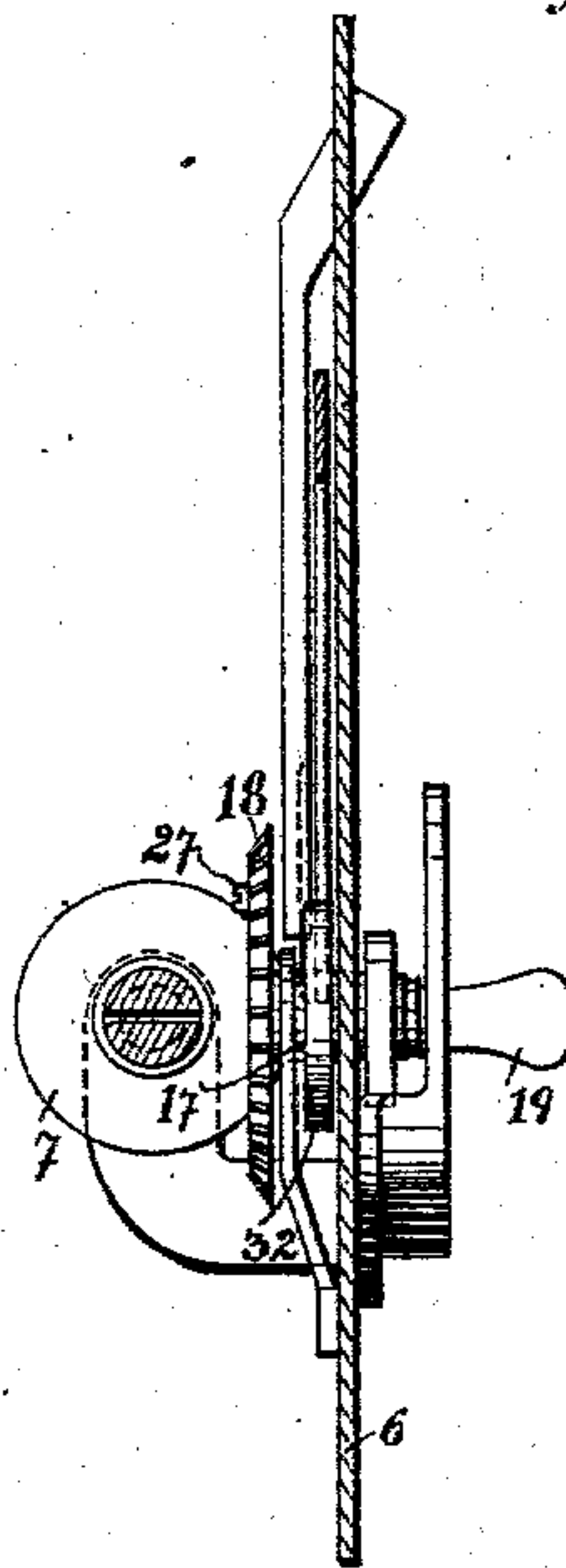


Fig. 5.



Witnesses
Alfred J. Hogue.
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UNITED STATES PATENT OFFICE.

ERNST MARTINI, OF VIENNA, AUSTRIA-HUNGARY.

COIN-FREED DELIVERY APPARATUS FOR PAPER SHEETS OR PACKAGES.

SPECIFICATION forming part of Letters Patent No. 730,382, dated June 9, 1903.

Application filed July 11, 1900. Serial No. 23,271. (No model.)

To all whom it may concern:

Be it known that I, ERNST MARTINI, manufacturer, a subject of the Emperor of Austria-Hungary, residing at 23 Martinstrasse, in the city of Vienna, in the Empire of Austria-Hungary, have invented a certain new and useful Coin-Freed Delivery Apparatus for Paper Sheets or Packages, of which the following is a specification.

10 This invention has reference to automatic coin-freed delivery devices or apparatus which on the insertion of a coin of a certain denomination will deliver a package or paper sheets—such as circulars, programs, reports of quotations or races, toilet-paper, and the like—the turning of a crank by the purchaser causing the article to leave the apparatus, while the coin of corresponding value drops into a special receptacle.

20 My invention is represented in the accompanying drawings in a preferred form of construction.

In the drawings, Figure 1 is a view in elevation of the apparatus with part of the casing removed. Fig. 2 shows the cover of the casing for the apparatus. Fig. 3 illustrates the operation of the various parts. Fig. 4 is a transverse section on the line C D of Fig. 1. Fig. 5 is a transverse section on the line A B of Fig. 1.

30 In the drawings the apparatus is shown as applied to the delivery of paper sheets which are pinned to a pointed knife 1, fastened to the metal plate 3, which at its upper edge is pivoted in the walls of the casing 2. Springs 4 serve to push the plate 3, with the stack 5 of paper sheets or packages, against the walls of the casing and provided the casing is closed also against the rubber rollers 7 and 12, mounted upon the door 6 of the casing. Fig. 4 of the drawings shows small bundles of toilet-paper with their free edges 8 pinned to the knife 1. The rubber rollers 7 and 12 are mounted upon the shaft 9, journaled at 10 and 11 in the walls of the casing. Next to the rubber roller 12 the shaft 9 is enlarged at 13. A longitudinal groove 14 is provided in the enlarged portion of the shaft, to which is further connected a gear-wheel 15 with sleeve 16, so as to be displaced along the groove 14. Another shaft 17 is journaled in the cover 6 of the casing upon a level with the shaft 9. A gear-

wheel 18 is mounted upon the shaft 17 at the inside of the casing, and a crank or hand-wheel 19 is secured to the outer extremity of the said shaft 17. Stops 20 are provided upon the exterior surface of the cover 6 to limit the movement of the crank to only half a circle. A bent lever 21 places itself with one extremity upon the sleeve 16 and against the gear-wheel 15, while the other extremity of the bent lever, with its projection 22, reaches below the end of the coin-chute 23. A second bent lever 24, also pivoted to the walls of the casing, with its projection 25, is so arranged that the coin can place itself between the projections 22 and 25, thereby effecting a connection of the two bent levers 21 and 24.

The coin is introduced in the slot 26 and is guided through the tube or chute 23 upon the projections 22 and 25. The purchaser then turns the crank 19, and thereby effects a rotation of the gear-wheel 18 in the direction indicated by the arrow. A pin 27, suitably secured to the said gear-wheel, on the rotation of the same presses against the lower extremity of the bent lever 24, which movement, through the medium of the coin inserted between the two projections above mentioned, is transmitted to the other bent lever 21, which on turning about its fulcrum throws the gear-wheel 15 into engagement with the gear-wheel 18. This will cause the rotation of the shaft 9 and of the rubber rollers 7 and 12, which by their rotating movement will pull the package, bundle, or sheet of paper next to them off the knife or pin 1, the package or the like being then delivered to the purchaser through the slot 28, provided in the casing 2. As soon as the pin 27 has passed beyond the extremity of the bent lever 24 the latter by its momentum is brought back into its former position, while the other bent lever 21 is retained in its position by the spring actuating pin or projection 29. The coin will be released thereby and drop into the receptacle 30. (Shown in Fig. 1 of the drawings.) When the crank 19 has been turned for about one hundred and eighty degrees, the gear-wheel 15 meets the tumbler 31, which overcoming the resistance of the spring-pin 29 pushes the gear-wheel 15 and the bent lever 21 back into their

former position and out of engagement with the gear-wheel 18.

In order to obviate the necessity of turning the crank back each time, I provide a spring 5 32, one end of which is fastened to the shaft 17 and whose other extremity is attached to the cover 6 of the casing and which is wound up by the rotation of the crank 19. Upon the crank being released after it has passed 18 the right-hand stop 20 the spring 32 is unwound, and thereby rotates the crank, so as to return it into its normal position.

What I claim, and desire to secure by Letters Patent of the United States, is—

15 1. Coin-freed delivery apparatus comprising delivery-rollers, gearing upon the shaft of said rollers, a crank-shaft and gearing upon said crank-shaft, a pin or stop connected to the gearing of the crank-shaft, a bent lever 20 in the path of said pin or stop and actuated upon the rotation of the latter, a second bent lever at such distance from the other bent lever as to allow of the retention of the coin between the respective extremities of the 25 bent levers, a coupling on the shaft of the de-

livery-rollers and in engagement with the second bent lever and a tumbler connected to the crank-shaft to disengage the gearing and a spring to return the crank-shaft into its original position, substantially as described. 30

2. In a coin-freed delivery apparatus, in combination a crank-shaft, gearing in connection with said crank-shaft, a rotating pin operated by said crank-shaft, two bent levers for retaining the coin, one of the said 35 bent levers resting against the rotating pin, a displaceable sleeve in connection with said gearing, the forked-shaped end of the other bent lever straddling said sleeve, whereby the said gearing may be thrown into engage- 40 ment, means to disengage the gearing and a spring to return the crank to its original position, substantially as described.

In witness whereof I have hereunto set my hand and affixed my name in the presence of 45 two witnesses.

ERNST MARTINI.

Witnesses:

ALVESTO S. HOGUE,
AUGUST FUGGER.