

No. 725,785.

PATENTED APR. 21, 1903.

R. D. SIMPSON.
PAPER BAG HOLDER AND PRINTER.

APPLICATION FILED NOV. 20, 1901.

NO MODEL.

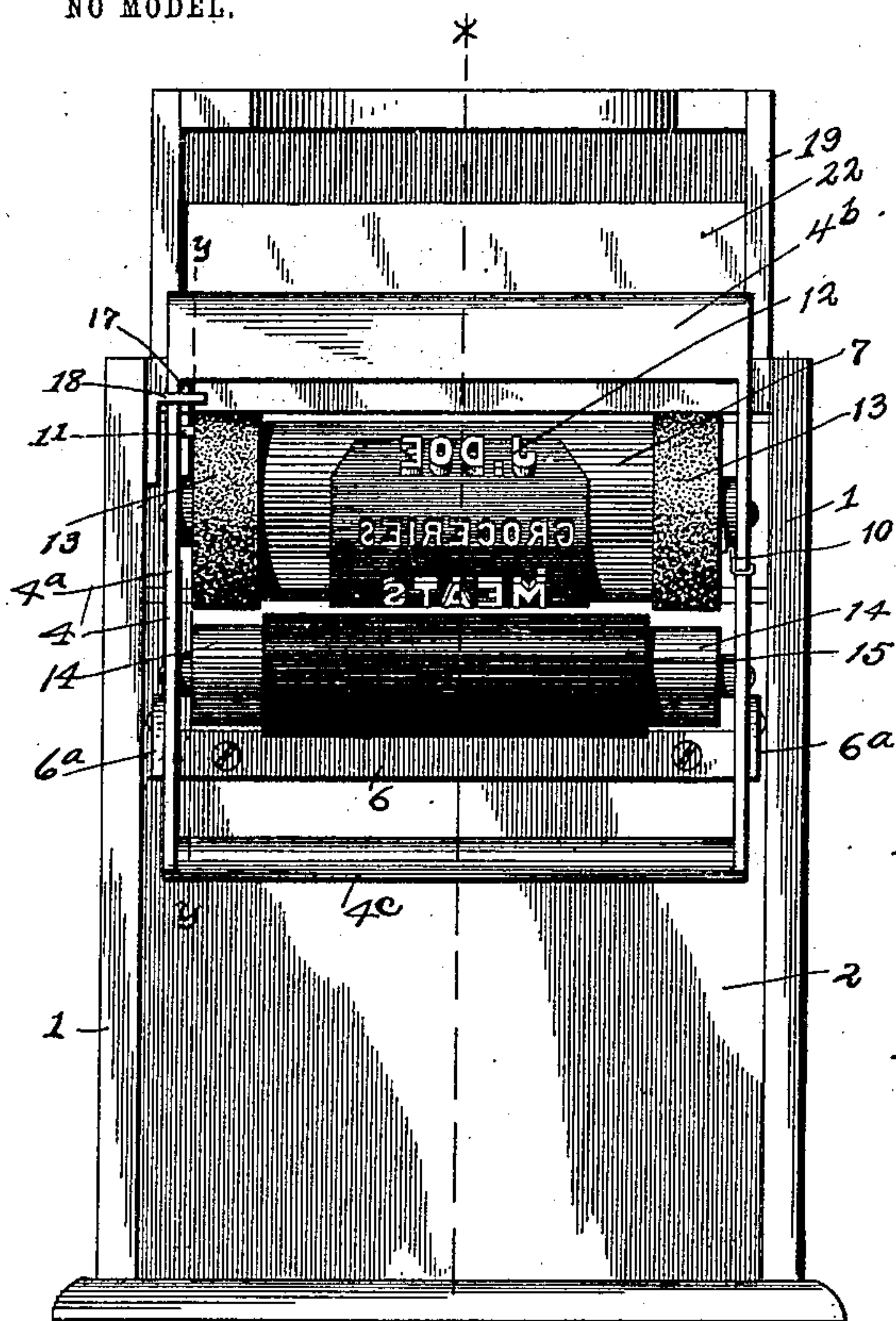


Fig. 1.

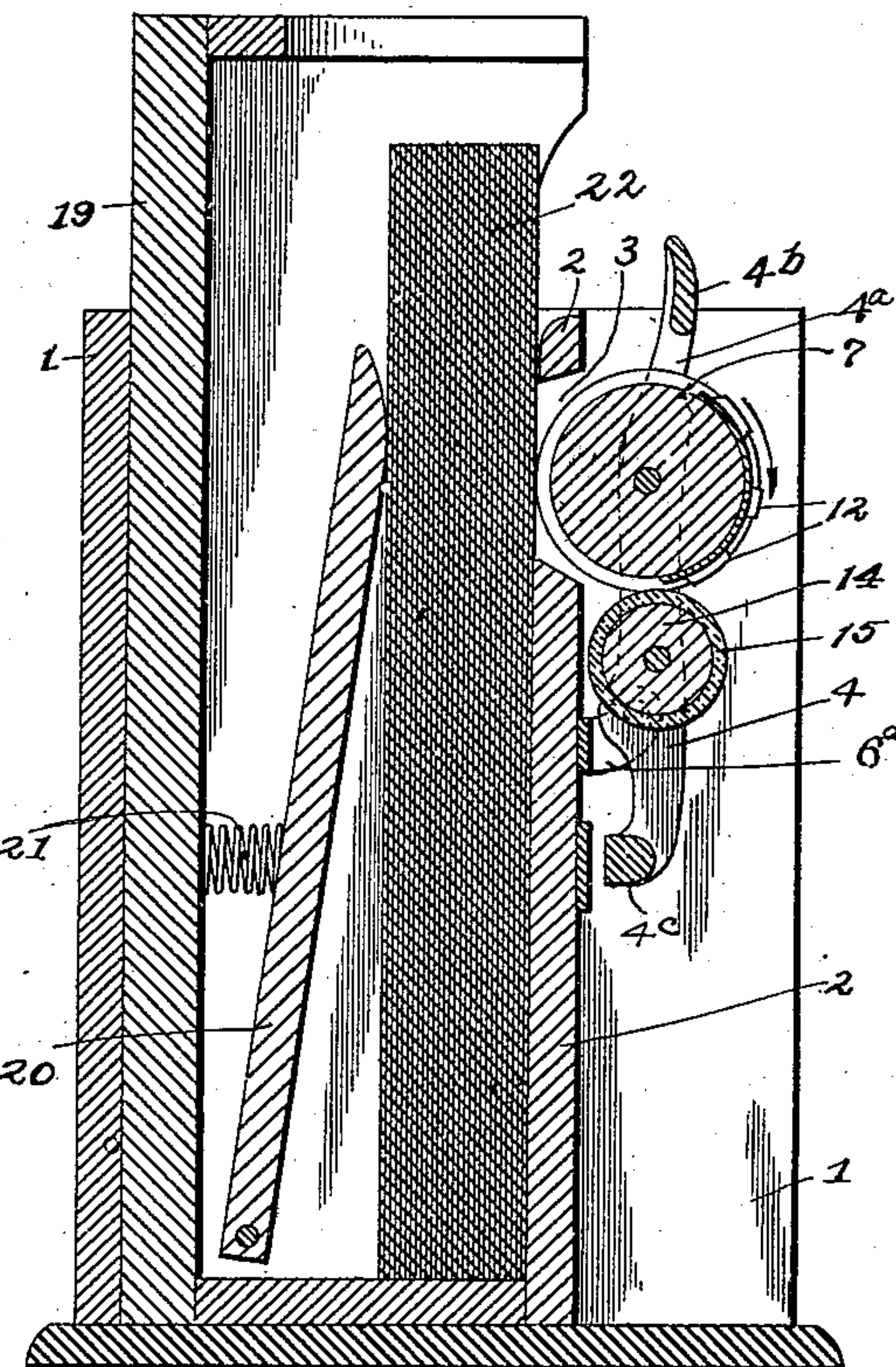


Fig. 2.

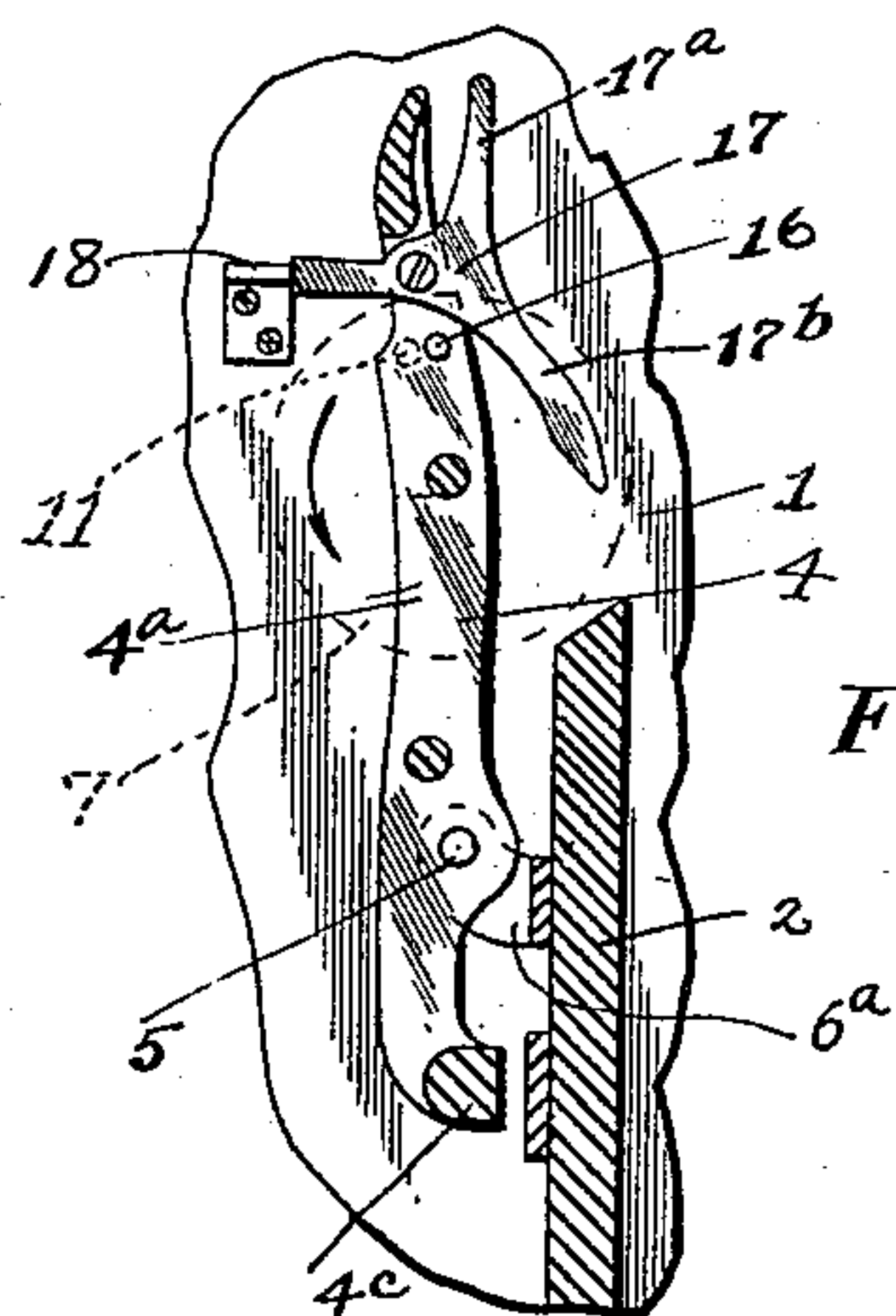


Fig. 3.

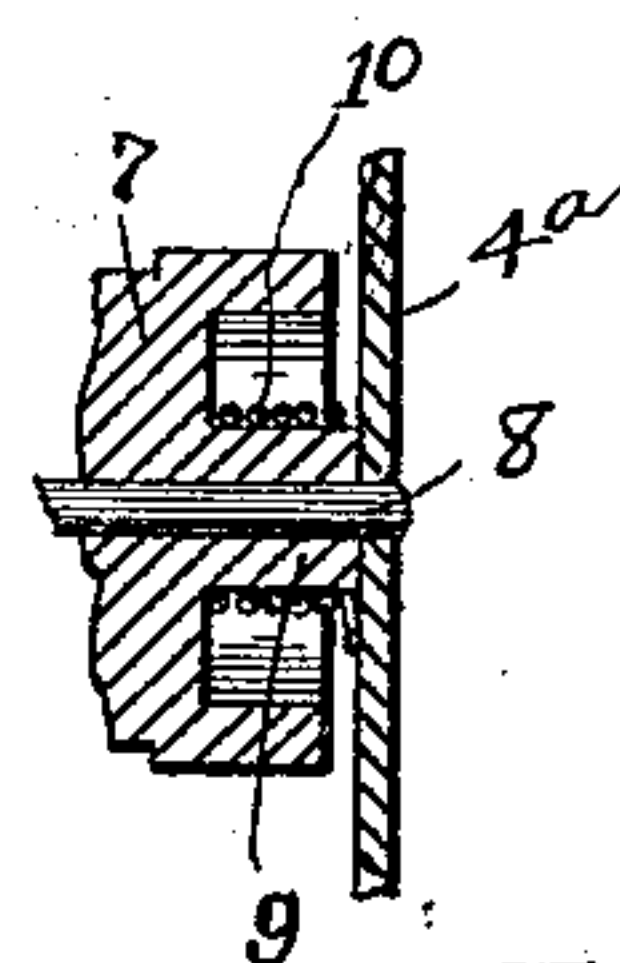


Fig. 4.

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ROBERT D. SIMPSON, OF COLUMBUS, OHIO, ASSIGNOR TO HALLWOOD CASH REGISTER COMPANY, OF COLUMBUS, OHIO, A CORPORATION OF NEW JERSEY.

PAPER-BAG HOLDER AND PRINTER.

SPECIFICATION forming part of Letters Patent No. 725,785, dated April 21, 1903.

Application filed November 20, 1901. Serial No. 82,978. (No model.)

To all whom it may concern:

Be it known that I, ROBERT D. SIMPSON, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Paper-Bag Holders and Printers, of which the following is a specification.

My invention relates to the improvement of printing devices; and the objects of my invention are to provide an improved printer and bag or paper holder of such construction and arrangement of parts as to insure the automatic printing operation on the paper bag or sheet as the same is drawn from the holder, to provide in conjunction therewith means for throwing the printing mechanism out of operative condition, and to produce other improvements the details of construction of which will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of my improved printing and paper-holding device. Fig. 2 is a central sectional view on line *xx* of Fig. 1. Fig. 3 is a sectional view on line *yy* of Fig. 1, and Fig. 4 is a detail view in section of a portion of one end of the printing-roller.

Similar numerals refer to similar parts throughout the several views.

In carrying out my invention I employ an upright box-like casing 1, which is provided in front of its center with a vertical partition 2, which extends upward from the bottom of the casing to the open top thereof and which in its upper portion is provided with a transverse opening 3, extending throughout its width.

In front of the partition 2 and having its upper portion projecting slightly above the latter I provide a roller-carrying frame 4, comprising the parallel side frame-bars 4^a, which are connected at their upper and lower ends by top and bottom bars 4^b and 4^c. This frame has the lower portion of its side arms pivotally supported, as indicated at 5, in the outwardly-projecting end arms or brackets 6^a of a transverse bar 6, which is secured to the forward face of the partition 2.

7 represents a printing-roll which has its end spindles 8 journaled in the side bars 4^a of the frame 4 at such height as to bring said roll opposite and permit of its projection within the transverse opening 3 of the partition 2. At one end the printing-roll is recessed to produce, as indicated in Fig. 4 of the drawings, a hub-like termination 9, and on which is wound and with which is connected at one end a spring 10, the remaining end of the latter being connected with the adjoining frame-bar 4^a. One end of the printing-roll is provided, as indicated in the drawings, with an eccentrically-arranged projecting pin 11. The periphery of the printing-roll between its end portions is adapted to have suitably mounted thereon rubber type or other suitable printing projections 12, while the end portions of said roll are enlarged, the peripheries of said enlargements being, as indicated at 13, roughened. Below the printing-roll I journal between the side arms or bars 4^a of the frame 4 a smaller roll 14, said lower roller being covered between its end portions with a suitable width and thickness of ink-absorbing material or padding 15.

On the inner side of one of the side frame-bars 4^a and in the upper portion thereof I provide an inwardly-projecting stop-pin 16, and above the latter I pivot to said side frame-bar the forwardly-extending arm of a trip-lever 17, the latter having its rear portion formed with upwardly and downwardly extending arms 17^a and 17^b. The trip-lever is so balanced as to normally retain its forwardly-extending arm in a horizontal position or in position to contact with the rear side of a lug or bracket 18, which projects from the inner face of the adjoining side of the casing 1.

Within the box or casing 1 in rear of the partition 2 is adapted to be inserted vertically a paper or bag holding case 19, the latter being of greater height than the casing 1 and having its forward and upper sides open. Pivoted in the lower and rear portion of the sack-receptacle 19 is the lower end of a presser-plate 20, between which and the rear side of said receptacle is provided a spring 21, which normally presses the outer portion

of said presser-plate 20 outward. Between the presser-plate and the forward partition 2 are inserted the desired number of compactly-arranged paper sacks or sheets 22, the presser-plate bearing against the rear side of the rear sack or sheet and retaining said sacks in close contact with the partition 2 and thereby forming a platen.

When the forwardly-extending arm of the trip-lever 17 is in the position shown in Fig. 3—that is, in engagement with the casing-lug 18—the swinging frame 4 is retained in such position as to cause a printing contact of the type projections 12 with the outer surface of the outer paper bag when the printing-roll is rotated. The spring of the printing-roll serves to normally retain said roll in such position that its printing projections are on the outer side thereof; but in pulling upward and outward the outer paper sack or sheet the frictional contact of the latter, with the roughened end surface 13 of the printing-roll, results in rotating said printing-roll until the type projections which have been inked by contact with the inking-pad 15 of the roll 14 come into printing contact with the sack or sheet which is being withdrawn. The printing operation being thus completed, the end pin 11 of the roll comes into contact with the lower arm 17^b of the trip-lever 17, raises said trip-lever arm and causes the forwardly-extending arm thereof to drop out of contact with the casing-lug 18, permitting the trip and upper portion of the frame 4 to move outward. The frictional contact of the paper bag or sheet and the printing-roll being thus broken, the latter is free to return through action of its spring to its normal position or until its pin 11 is again in contact with the outer side of the pin 16. If it is desired to produce the printed impression upon the next sack, the frame 4 is moved inward by hand until the forwardly-extending arm of the trip-lever 17 again contacts with the rear side of the lug 18, after which the operation of withdrawing a sack and printing thereon may be repeated.

From the above-described construction and operation it will be seen that a combined sack holder and printer is provided of simple and inexpensive construction and that means are provided for automatically throwing the printing mechanism out of operative position at each withdrawal of a sack.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a paper-bag holder and printer, the combination with a case or cabinet having a projection and means for the retention of a number of paper bags or sheets in the front thereof, of a pivoted frame, a spring-actuated printing-roll and an inking-roll journaled therein, a pivoted lever on said frame adapted when the latter is pressed inward to engage the projection of the case and means on said printing-roll for tripping said lever out of en-

gagement with said case projection when the printing operation has been completed, substantially as specified.

2. In a paper-bag holder and printer, the combination with an external casing open at its top and having a partition in its forward portion, a pivoted frame mounted in front of said partition, a spring-actuated printing-roll and an inking-roll mounted in said frame, of a vertically-removable paper-bag receptacle supported in said casing in rear of said partition and having an open front to expose the bags, and a pivoted spring-actuated plate within the back of the receptacle to press the paper sacks or sheets against said partition and in position for contact with the printing projections of the printing-roll, substantially as specified.

3. The combination with a main frame, of a platen, a swinging frame pivoted to the main frame, a rotatable printing-roll mounted upon the swinging frame above the pivotal support thereof, a pivotal device mounted upon the swinging frame and bearing against a portion of the main frame to hold the swinging frame with the printing-roll in coöperative relation with the platen, and a trip carried by the roll, the pivotal supporting device being in the path of the trip.

4. The combination with a main frame, of a platen, an upright swinging frame pivoted to the main frame, a rotatable printing-roll mounted upon the swinging frame, a vertically-swinging angular lever intermediately pivoted to the swinging frame, a lateral projection upon the main frame and normally engaging one end of the lever to hold the swinging frame with its printing-roll in operative position, and a trip upon the roll, the opposite end of said lever being in the path of the trip to disengage the latter from the projection.

5. The combination with a main frame having a platen, an upright swinging frame pivoted near its lower end to the main frame, a printing-roll journaled in the upper portion of the swinging frame and having a spring-tensioned journal to automatically return the roll to its normal position, a lateral projection upon the main frame and at the outer side of the swinging frame, a vertically-swinging angular lever pivoted intermediately upon the swinging frame with its outer arm normally engaging the projection to hold the swinging frame with the printing-roll in operative relation to the platen, and a trip projection carried by one end of the printing-roll, the inner arm of the lever lying in the path of the trip projection.

6. The combination with a casing having an opening in the front thereof, of opposite bracket members projected in front of the casing and below the opening, an open upright frame pivoted to the bracket members near the lower end of the frame, a printing-roll journaled in the frame opposite the opening in the casing, a spring connected to the

roll and to the frame to automatically return
the roll to its normal position, a projection
on the casing and extending transversely
across one upright edge of the frame at the
5 outer side thereof, an angular lever pivoted
intermediately upon the frame with its outer
arm normally engaging the projection to hold
the frame at its inner limit, and a trip pro-

jection carried by one end of the roll, the in-
ner arm of the lever lying in the path of the re-
trip projection.

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In presence of—

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