(No Model.) 2 Sheets—Sheet 1.

M. N. JONES.

ROLL PAPER HOLDER AND CUTTER.

No. 441,669. Patented Dec. 2, 1890.

Fig. 1.

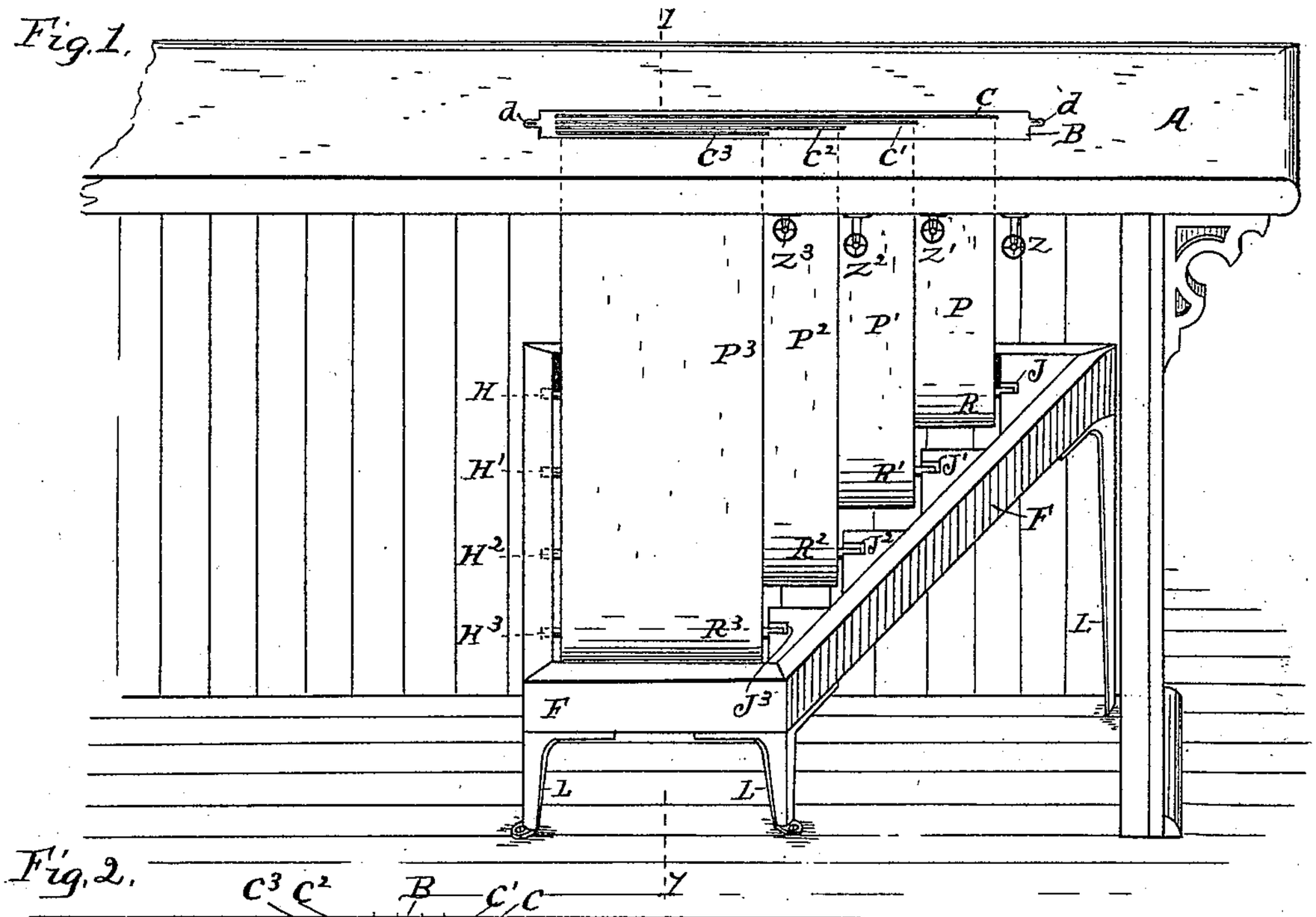


Fig. 2.

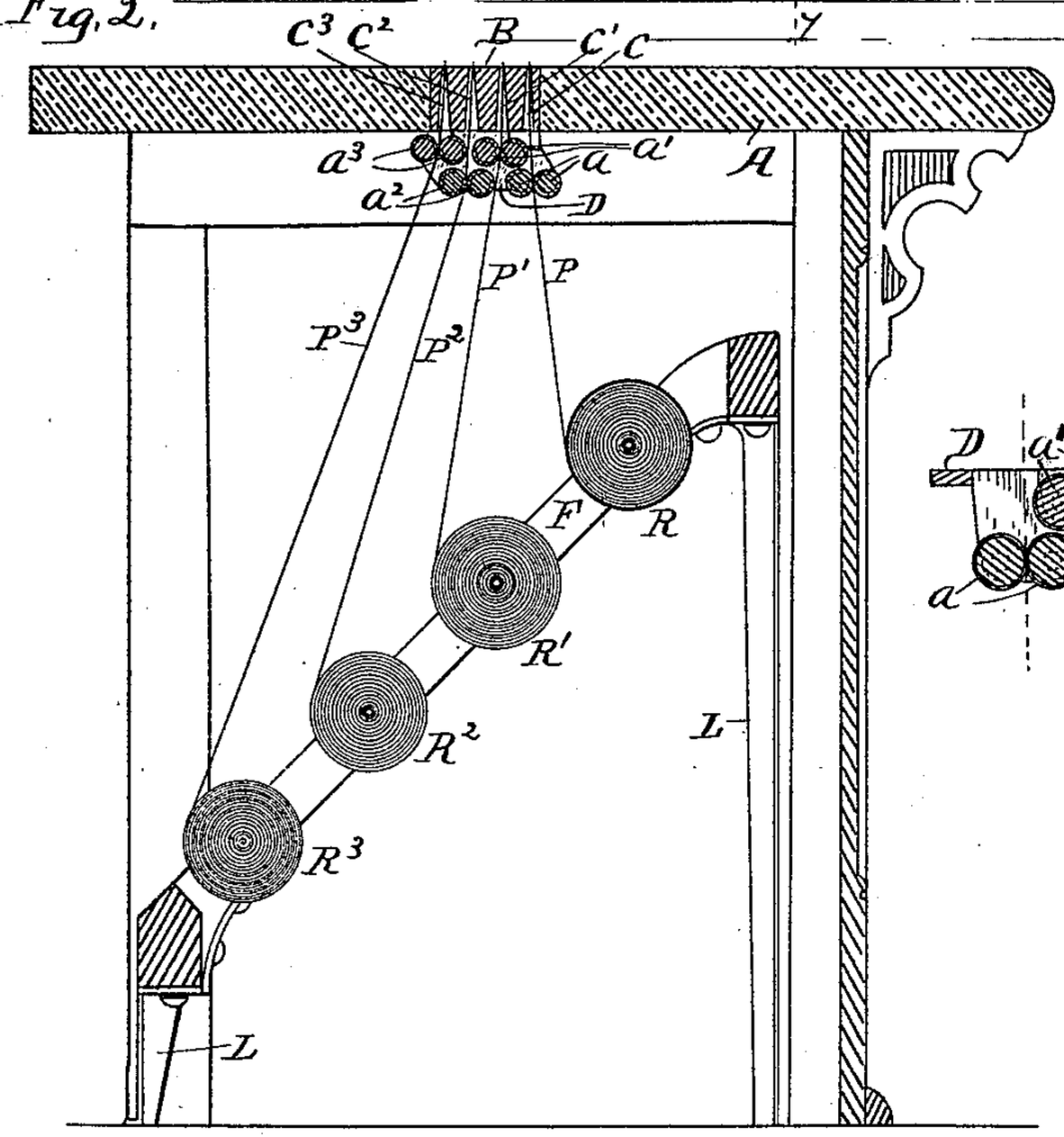
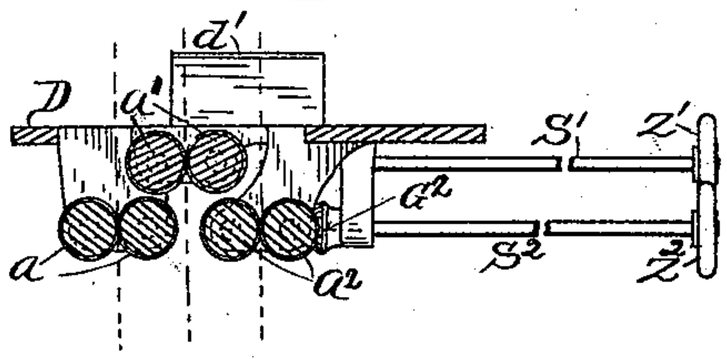


Fig. 3.



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(No Model.) 2 Sheets—Sheet 2.

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Fig. 4.

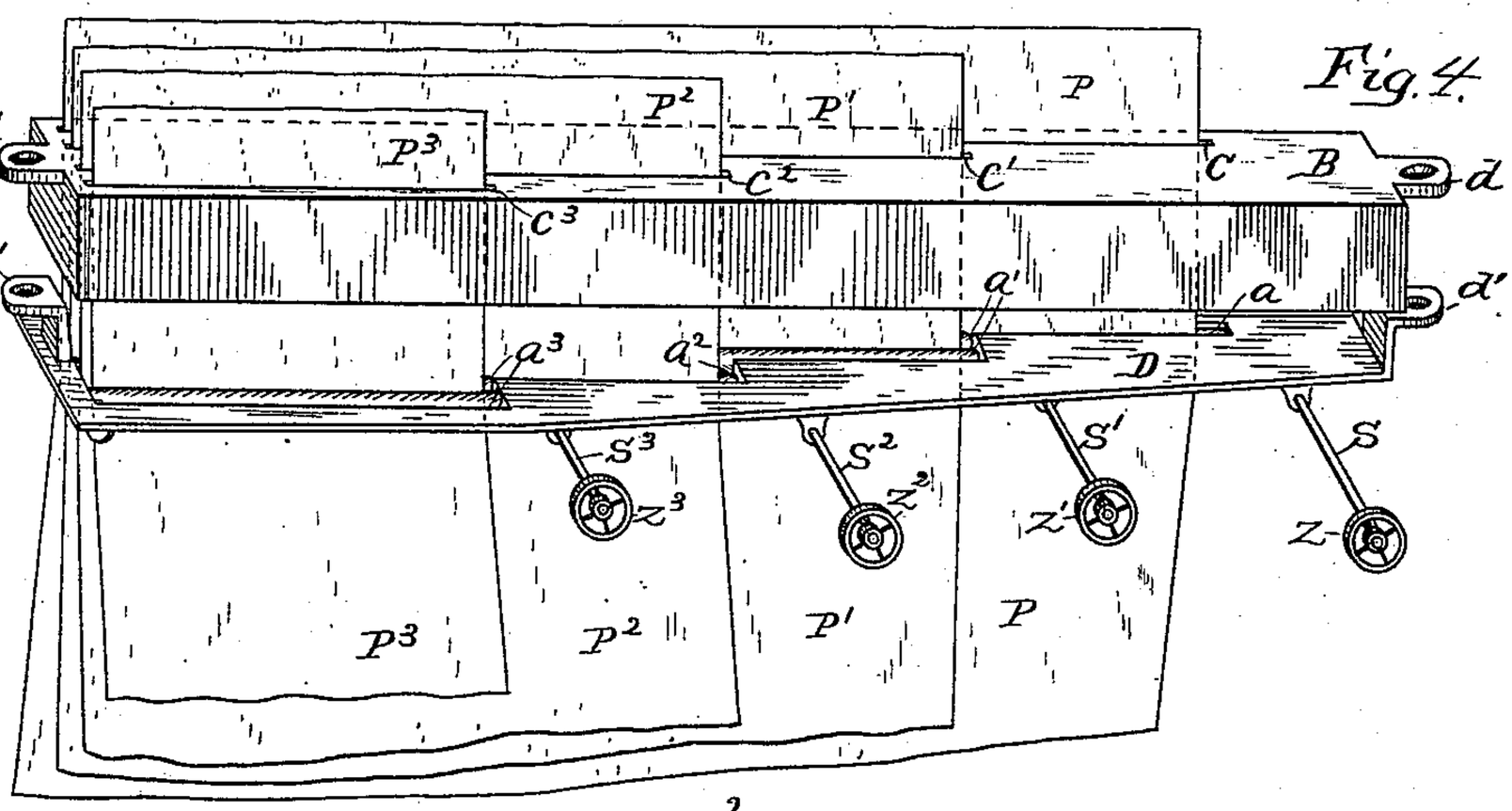

Fig. 5.

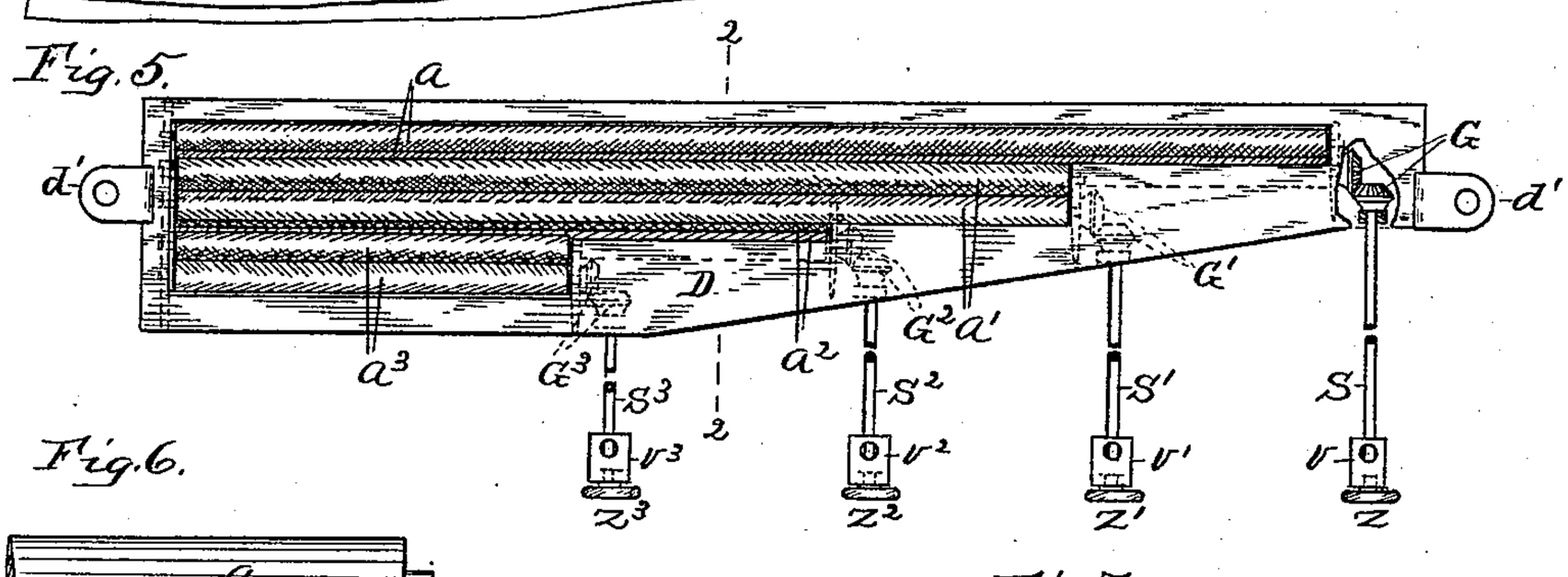

Fig. 6.

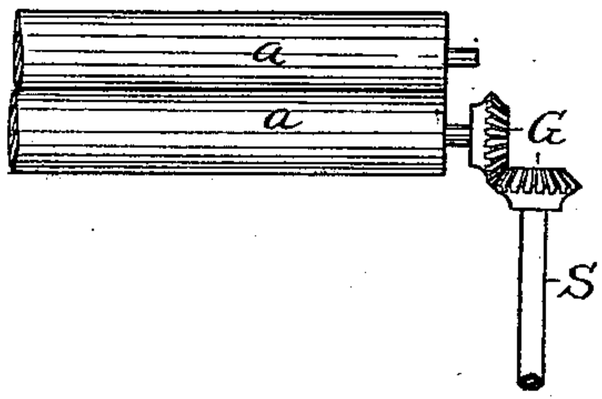

Fig. 7.

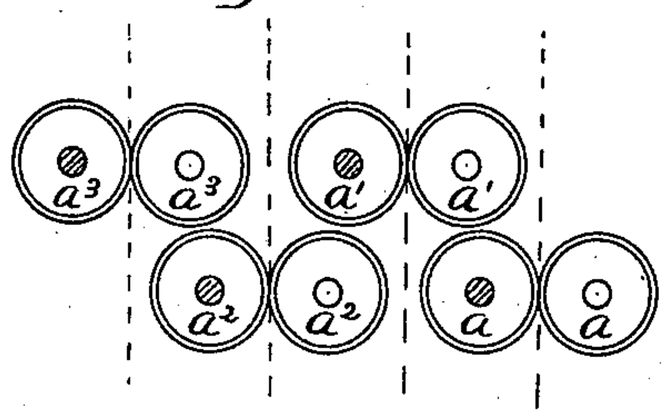

Fig. 8.

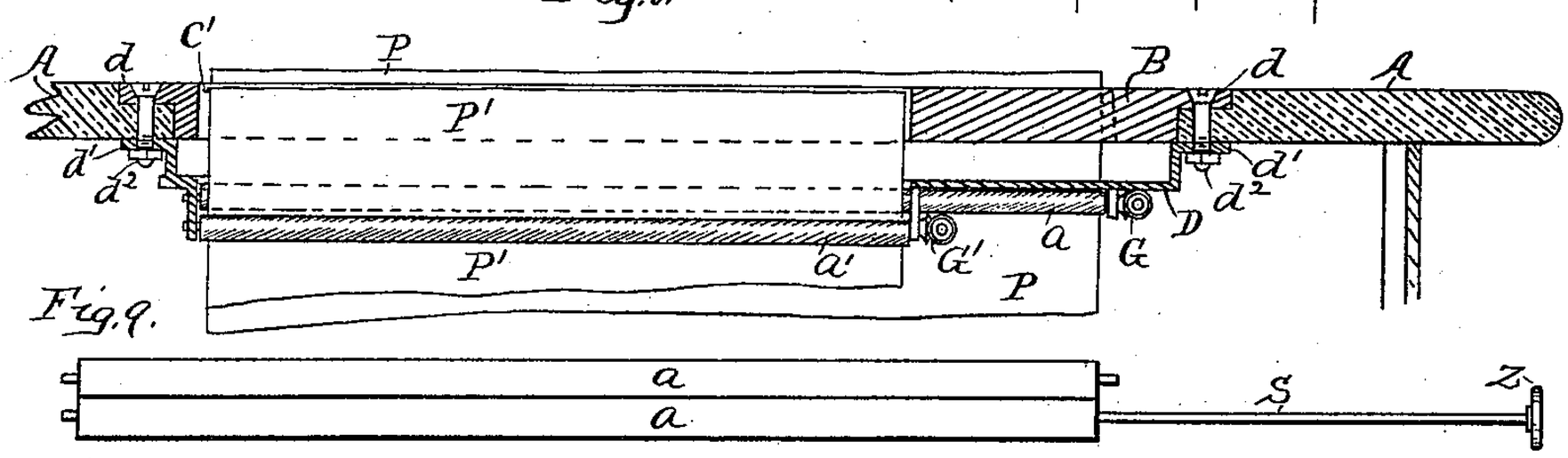

Fig. 9.

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UNITED STATES PATENT OFFICE.

MARSHALL N. JONES, OF ABILENE, KANSAS.

ROLL-PAPER HOLDER AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 441,669, dated December 2, 1890.

Application filed February 18, 1890. Serial No. 340,875. (No model.)

To all whom it may concern:

Be it known that I, MARSHALL N. JONES, a citizen of the United States of America, residing at Abilene, in the county of Dickinson and State of Kansas, have invented certain new and useful Improvements in Roll-Paper Holders and Cutters, of which the following is a description, reference being had therein to the accompanying drawings and the letters of reference thereon, forming a part of this specification, in which—

Figure 1 is a rear perspective elevation of a store-counter showing my invention applied thereto. Fig. 2 is a cross-sectional elevation of the same on line 1 of Fig. 1, looking toward the left. Fig. 3 is a detail cross-sectional view of the roller-frame and rollers of my invention on line 2 of Fig. 5, looking toward the right, which rollers are arranged adjacent the under surface of the counter for holding and feeding up the paper. Fig. 4 is a detail perspective view of the slotted frame, which is seated in a recess in the counter, and of the roll-frame and paper holding and feeding rolls below the slotted frame, showing their relative position, also showing the wrapping-paper strips as they would appear in the act of being fed up between their respective rollers and through the slots of the slotted frame, which frames and rollers are a part of my said invention. Fig. 5 is a top plan view of said roller-frame and rollers, also showing the mechanism for rotating the rollers, a portion of the frame being broken away to more clearly show the gears of said mechanism. Fig. 6 is a detail plan view of a portion of one pair of said rollers and of the gears and shaft by means of which they are rotated. Fig. 7 is an end plan of said rollers, showing the relative position of the four pairs I have herein illustrated. Fig. 8 is a vertical longitudinal section of the counter and of the slotted frame and roll-frame and its rollers attached to the counter, also showing the wrapping-paper strips held by means of the said rollers; and Fig. 9 is a plan view of a pair of said paper holding and feeding rollers provided with the shaft for rotating them, integral and extending parallel with one roller-journal.

This invention relates to certain improvements in paper-holders for holding rolls of wrapping-paper in stores, and is designed to be arranged beneath the counter and used by drawing the paper from the rolls through slots in the counter in such quantities as may be desired for use in wrapping goods and parcels, and when a sufficient quantity of paper has been drawn from the slot it is torn off at the slot.

It consists of a frame supported off the floor, beneath the counter, for holding the several sizes of rolls of paper, of a slotted frame seated in a recess in the counter having its upper surface on a plane with the counter surface, and provided with the several sizes of slots corresponding in number and length with the wrapping-paper, and the width of the several strips of the same, and of a set of rollers arranged in pairs, parallel with and beneath the slotted frame, a pair for each strip of wrapping-paper, each pair corresponding in length with the width of its respective strip. These pairs of rollers are respectively and independently provided with an extending shaft, either geared thereto or integral therewith, and each such shaft with a hand-wheel, by means of which the rollers are rotated for the purpose of taking the paper strips from the paper-rolls below and feeding them up through their respective slots far enough so that they may be grasped and drawn from the slots until a sufficient quantity is had, and the said rollers are for the further purpose of holding the paper from dropping from the slots when not being used.

The object of this invention is to support the rolls of wrapping-paper entirely beneath the counter, thereby leaving the counter unobstructed with the paper, and in such manner that either of the several widths of paper desired to be used may be separately and independently rolled up through its slot, drawn therefrom until a sufficient quantity is drawn, and then torn off at the slot, leaving nothing above the slot as an obstruction.

Referring to the drawings, A represents a store-counter.

B is the slotted frame set in a recess in the counter, as shown in Figs. 1, 2, and 8, and is provided with the end ears *d* for securing it by means of the bolts *d*, as shown, and with the parallel slots *c*, *c'*, c^2, and c^3, of equal width, but of different lengths, as shown.

D is the roll-frame having the end ears d', by means of which it is secured to the under side of the counter by the bolts d^2, leading down from the ears d, as shown in Fig. 8.

$a\ a$, $a'\ a'$, $a^2\ a^2$, and $a^3\ a^3$ are the paper holding and feeding rollers, which are arranged in pairs, a pair below each slot of frame B corresponding in length with the length of the respective slot above, and each provided with end journals which are arranged in corresponding bearings depending from the frame D, thereby supporting them so that they will freely rotate, each one bearing against its fellow roller. Fixed on the end of one roller-journal of each pair of rollers is a miter or bevel-gear arranged, meshing with a corresponding gear which is fixed on a side extending shaft, which shaft is suitably boxed to frame D, and leads therefrom to the rear side of the counter, where it is likewise boxed, and there provided with a hand-wheel for the purpose of grasping and rotating the shaft, and thereby rotating the rollers.

The several gears described are shown at G, G', G², and G³. (See Fig. 5.) The shafts of the respective pairs of rollers are shown at S, S', S², and S³, and their respective hand-wheels at Z, Z', Z², and Z³, and their outer bearings at V, V', V², and V³, which bearings are designed to be secured to the under part of the counter.

For the purpose of contracting the width of slotted frame B and the frame D the rolls of frame D are arranged on two planes, as shown in Figs. 2, 3, 5, 7, and 8, with the gear-shafts leading therefrom on different planes, as shown in Figs. 3, 4, and 8, and with the depending bearings of the character and arranged in the manner shown in Fig. 3.

F is the frame for supporting the rolls of paper R, R', R², and R³, and is arranged under the counter in an inclined position, supported off the floor by means of the standards L, as shown, and is broader at its upper side, as shown in Fig. 1, which form is attained by means of diverging one inclined side rail of the frame. To the inner side of said diverging rail is either formed or secured a series of right-angled offsets or steps, thereby forming spaces of different lengths between said offsets and the opposite inclined side rail.

J, J', J², and J³ are sockets of the respective offsets, into which one end journal of the respective rolls R, R', R², and R³ are seated, while the opposite end journals of the rolls rest in corresponding holes in the opposite rail, as shown by dotted lines at H, H', H², and H³, thus adapting the said rolls to be removably seated in the frame, and by means of the described offsets rolls of different length are accommodated, which are respectively provided with the different widths of paper represented at P, P', P², and P³, and each paper consists of one continuous strip wound to form the rolls, as shown. In use the end of the said paper strips are drawn a little way off their roll and started up between their respective holding and feeding rollers, when by means of turning the hand-wheels they are forced up into their respective slots, and the slots are of sufficient depth so that the paper, after leaving the feed-rollers, will be properly guided and will not buckle and thereby prevent the perfect working of the device.

I have illustrated four widths of paper and parts for their accommodation; but I do not desire to confine this invention to any given number of parts or widths of paper, as a greater or less number may be used with like effect. Neither do I desire to confine myself to the exact relative arrangement of the rollers for holding and feeding the paper, as they may all be arranged on one plane, if so desired, by simply arranging the slots c, c', c^2, and c^3 a little farther apart. Neither do I desire to confine this invention to the exact arrangement of the slotted frame—that is, lengthwise with the counter—as it will operate as well crosswise, and in such instance the gears shown in Fig. 5 can be dispensed with and the shafts for turning the rolls made to extend direct from one roll, as shown in Fig. 9; also, I desire to state that the entire device may, when desired, be constructed smaller than that illustrated and arranged in a case for holding smaller paper-rolls of less width, &c., such as used by druggists and the like. As a means of rendering the rollers a, a', a^2, and a^3 more adhesive to the paper passing between them, I prefer to cover them with rubber or some equivalent substance, as shown in the drawings.

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

1. The roll-paper holder and cutter consisting of the combination of the slotted frame seated in a suitable support, the pairs of holding and feeding rolls suitably supported parallel with and beneath the slotted frame, the mechanism described for rotating said rollers, and the frame supported beneath said rollers for holding and dispensing the rolls of paper of different width, substantially as and for the purpose specified.

2. The roll-paper holder and cutter consisting of the combination of a paper-roll-supporting frame having one diverging side rail provided with a series of right-angled offsets for accommodating rolls of different length, a frame provided with a series of slots, a slot for each respective width of paper, through which the paper is taken for use, and a series of pairs of rollers for taking the paper from its rolls, holding it from dropping from the slots from where it is used and feeding it to and through said slots, and the mechanism, consisting of the series of connected shafts and hand-wheels, for rotating said rollers, substantially as and for the purpose set forth.

3. In a roll-paper holder and cutter, the com-

bination, with the paper-roll-supporting frame and the frame B, provided with the series of slots c, c', c^2, and c^3, of the frame D, secured adjacent to said slotted frame, the pairs of rollers a, a', a^2, and a^3, mounted in frame D, a pair for and corresponding in length with each said slot, and the shafts S, S′, S², and S³, respectively provided with the hand-wheels Z, Z′, Z², and Z³, and connecting said rollers through the medium of gears, in the manner substantially as and for the purpose set forth.

4. The roll-paper holder and cutter described, consisting of the combination, with a suitable support, of the inclined diverging frame F, provided with the standards L, the frame offsets and journal bearings and sockets, as set forth, the frame B, provided with the graduated slots c, c', c^2, and c^3, supported above said diverging frame, the pairs of graduated paper holding and feeding rollers a, a', a^2, and a^3, supported between said diverging and slotted frames, and the mechanism consisting of the connected shafts S, S′, S², and S³, respectively provided with a hand-wheel by means of which their connected rollers are respectively and independently rotated, in the manner substantially as and for the purpose specified.

5. The roll-paper holder and cutter, consisting of the combination, with the counter or other suitable support, the slotted frame B, seated in a recess with its upper surface on a plane with the counter or other surface to which it is attached, the frame for supporting the rolls of different-width paper arranged below the said slotted frame, and a series of pairs of intermediate paper holding and feeding rollers corresponding in length with the several widths of paper, and the shafts and hand-wheels arranged connecting said rolls and leading to the counter-edge for rotating said rolls, in the manner substantially as and for the purpose set forth.

6. The combination, in the roll-paper holder and cutter described, with the counter or other suitable support, of the slotted frame B, provided with the ears d d, the frame D, provided with the corresponding ears d' d', the securing-bolts d^2 d^2, and the paper holding and feeding rollers a, a', a^2, and a^3 and their operating mechanism, consisting of the shafts S, S′, S², and S³, their hand-wheels Z, Z′, Z², and Z³, and the gears G, G′, G², and G³, supported by means of the frame D, substantially as and for the purpose set forth.

7. In the wrapping-paper holder described, in combination with the frame D, the pairs of graduated rollers a, a', a^2, and a^3, arranged on different planes within said frame, and the mechanism for rotating said rollers, substantially as and for the purpose set forth.

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