(No Model.)

# G. M. D. MANAHAN.

## WRAPPING PAPER HOLDER AND CUTTER.

No. 442,066. Patented Dec. 2, 1890.

Fig. 1.

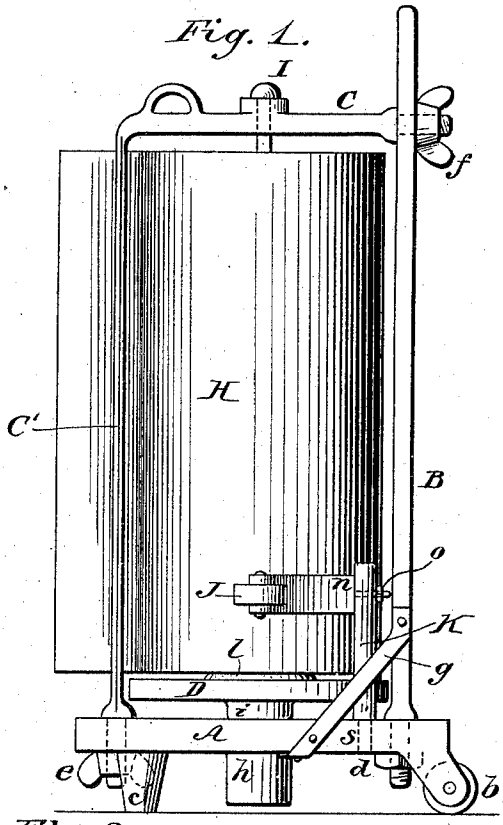



Fig. 2.

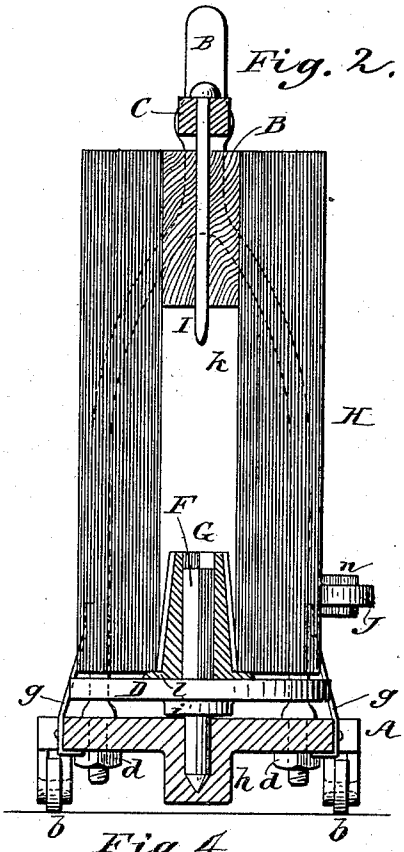



Fig. 3.

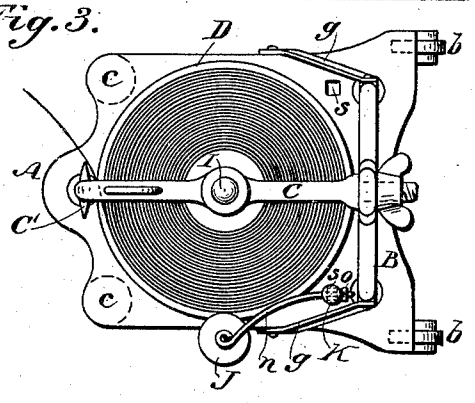



Fig. 4.

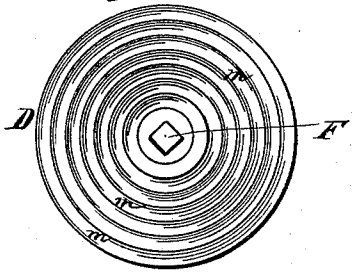



Fig. 5.

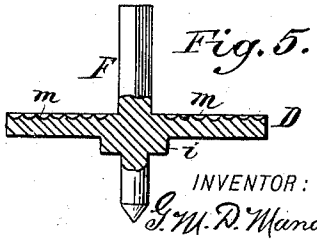
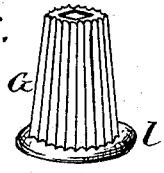



Fig. 6.




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# UNITED STATES PATENT OFFICE.

GEORGE M. D. MANAHAN, OF NEW YORK, N. Y.

## WRAPPING-PAPER HOLDER AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 442,066, dated December 2, 1890.

Application filed March 12, 1890. Serial No. 343,679. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE M. D. MANAHAN, of the city, county, and State of New York, have invented a new and useful Improvement in Wrapping-Paper Holders and Cutters, of which the following is a full, clear, and exact description.

This invention relates to paper holders and cutters—such, for instance, as those used for wrapping paper—in which the roll of paper is supported to turn around a vertical axis running through the length of the roll instead of upon a horizontal one, and an upright cutter operating in connection with a roller is arranged to occupy a position to one side of the roll for cutting or tearing off the paper in lengths to suit as it is unreeled from the roll.

The invention consists in certain novel constructions and combinations of parts in a paper holder and cutter of the above description, substantially as hereinafter described, and more particularly pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is an elevation of my improved paper holder and cutter with a roll of paper in place thereon; Fig. 2, a vertical section of the same in a plane at right angles to Fig. 1, and Fig. 3 a plan thereof. Fig. 4 is a plan of a rotating table with attached spindle upon which the roll of paper is carried; Fig. 5 a mainly sectional vertical view of the same and Fig. 6 a perspective view of a fluted tapering thimble which is designed to be carried by the spindle of the table and engages with the interior of the roll of paper to insure the joint rotation of the roll and table.

Before proceeding to describe the construction and operation of the paper holder and cutter, I would observe that it is mainly designed to be used for holding and cutting large and heavy rolls of wrapping-paper, which on account of their great size and weight are very difficult to handle and place in an upright position on the holder and cutter, and which, moreover, as they come from the mill have a close wrapper around them to protect them and keep them from unreeling. Moreover, until the wrapper is removed, which, to keep the paper from springing loose, should not be done until the roll is in place to be used, it is difficult or impossible to discern in which of the two directions the paper is rolled or how it should be unreeled to secure the operation of the cutter in connection with it. The application of these remarks will appear hereinafter.

A is the platform of the apparatus, which rests upon the floor by means of rollers *b b* on its one side and a non-pivotal support or legs *c* on its opposite side. The reason of this will be afterward explained.

The frame of the apparatus other than the base or platform A is made up in part of a preferably bifurcated fixed stanchion B, threaded at its lower ends and secured by nuts *d d* to the platform A below on the roller side of the platform, and is further made up in part of an upper horizontal or cross bar C, having an attached double-edged cutter C′ extending vertically down to the platform on its opposite side to the stanchion, where it is secured by a thumb-nut *e* to the platform, and the cross-bar C is secured by another thumb-nut *f* to the stanchion B. The cutter C′ thus forms part of the main frame as well as performing its function as a double or opposite edged cutter.

Braces *g g* may be used to stiffen the stanchion B at its connection with the platform A.

D is a rotatable horizontal table arranged over the platform A and provided with a central upright fast spindle F, extending a short distance above and below the table. The portion of this spindle which extends below the table is made circular, and is free to rotate along with the table in a bearing or box *h*, forming part of or attached to the platform, and is provided with a collar *i*, that supports the table. The upper portion of said spindle is made angular to enter up within and engage with a friction-thimble G, of tapering form, in an upward direction and roughened or fluted vertically on its exterior to center and take hold upon the interior of the roll H of paper at its lower part. The upper portion of the roll is steadied and centered by a bolt I, passed down through the cross-bar C, and extending also down, but not necessarily

below, the usual wooden block *k*, with which the roll is plugged as it comes from the mill, a similar block or plug at the other end of the roll having been removed. Thus supported, the roll H is free to rotate along with its carrying-table D on what may be termed independent upper and lower bearings, the roll resting at its lower end upon a flange *l* at the base of the thimble G, which is synonymous to its resting on the table itself, as it will be apt to do by the sagging of the roll, and to secure a better grip of the table on the roll the table may be made with sharp circular ridges *m* on its upper surface; but no claim is made to this feature, and the ridges may be dispensed with and the fluted thimble G, which rests by its flange upon the table, alone be depended upon to give a roughened grip to hold upon the roll.

J is a pressure-roller arranged to bear upon the outside of the roll of paper to keep its folds from springing outward when the roll is in place and free to be drawn upon. This roller is carried by a spring *n* to give the necessary pressure and to provide for its following up the roll as it is unreeled or drawn upon, said spring being secured at its back end by a pivot-like projection passing horizontally through a rod-like standard K and by a nut *o*. The standard K is fitted to engage with either side of the platform A on opposite sides of the roll to be drawn upon by means of angular recesses *s s* in said platform, and the same, with its attached spring and roller, is transferable to either of such recesses, and the spring, with its attached roller, capable of being turned on its pivoted projection on loosening the nut *o* to adapt the same spring-roller pressing device to work upon either side of the roll of paper, according to the direction in which it is to be unreeled.

When the roll is in place on the apparatus, the whole may be readily removed about the store or warehouse, or from one place to another, by simply using the upper extended portion of the stanchion B as a handle by which to cant the whole apparatus and make it rest or run exclusively on the rollers *b*; but when the machine or apparatus is in use it is allowed to rest not only upon the rollers, but upon the non-pivotal support or legs *c*, which will keep it steady in running off paper from the roll.

To put the roll in place it is only necessary to release the nuts *e f* and remove the cross-bar C and cutter C′ and to insert the friction-thimble G in the lower end of the roll, when the roll may be readily lifted to its place on the table D and the thimble engaged with its spindle F, or the thimble G may be first placed upon the spindle F of the table, after which the cross-bar C and cutter C′ may again be secured in position and the bolt I inserted in its place. By the construction, as described, for supporting the roll, using independent upper and lower bearings, it will only be necessary to lift the heavy roll but a very short height to place it where required instead of over a long central bar running entirely up its center from the base, and there will be no liability of breaking or bending the carrying-bar. The roll is put in its place with its wrapper on to hold the folds together, and when the wrapper is removed, and it being noticed in which direction the paper has been reeled, the spring-roller presser J *n* K is transferred to either side hole *s* in the platform and the roller or spring *n* suitably turned to secure the proper action of the roller on either side of the roll, according to the direction in which the paper has been reeled. To draw upon the roll, the outer loose end of the paper is passed to either cutting-edge side of the double cutter C′, which will be governed by the direction in which the roll requires to turn to be unreeled. The cutting or tearing off the paper in lengths, as required, is effected by pulling on the free end of the roll of paper till the necessary length has been drawn out and bending the same over the outer edge of the cutter in a backward or reverse direction to the curvature which the paper acquired in reeling, and then tearing the paper upward or downward where it is creased by the cutter, which acts as a straight-edge to effect a straight cut. When thus tearing the paper, the one hand of the operator may be applied, if necessary, to hold the roll from turning. The pressure-roller J follows up the roll of paper as it decreases in size and serves to keep said roll compact and to cause a long free end portion of the paper having the natural curve in it produced by reeling to remain after each cut between the pressure-roller and the cutter to be grasped by the hand of the operator for a succeeding draft and cut of the paper; or the roll, if desired, may be slightly turned direct by the one hand to aid the operator's convenient grasp of the free end curved portion by the other hand. This is continued or repeated till all that is necessary to be severed from the roll for wrapping purposes has been drawn out and cut or torn off.

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

1. In an upright combined paper holder and cutter, the combination, with the stanchion B of the main frame, constructed to also form a handle, of the platform A, having lower rollers *b* on the side of it next to said stanchion and one or more non-pivotal supports or legs *c* on its opposite side, substantially as and for the purposes set forth.

2. In an upright combined paper holder and cutter, the combination of the platform A, the fixed stanchion B, and the removable combined cross-bar C and double-edged cutter C′, connected with said stanchion and platform, the whole forming a main frame and cutter, combined essentially as described.

3. The combination, with the platform A, of the rotatable table D, its spindle F, the

tapering friction-thimble G, the upper bearing-bolt I, and frame carrying said bolt, substantially as shown and described.

4. In an upright combined paper holder and cutter, the combination, with the platform A, of the removable spring-roller pressure device J *n* K, transferable to opposite sides of the platform, the spring portion *n* being fitted to turn in the portion K to adapt the roller to work on opposite sides of the roll of paper, essentially as herein set forth.

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