June 3, 1952 M. H. GORDON 2,598,992

PAPER DISPENSER

Filed Sept. 2, 1949 2 SHEETS—SHEET 1

FIG. 1.

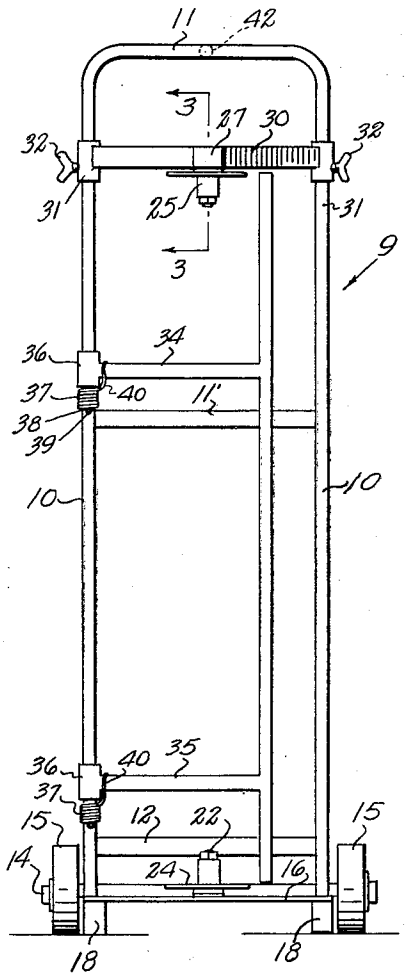
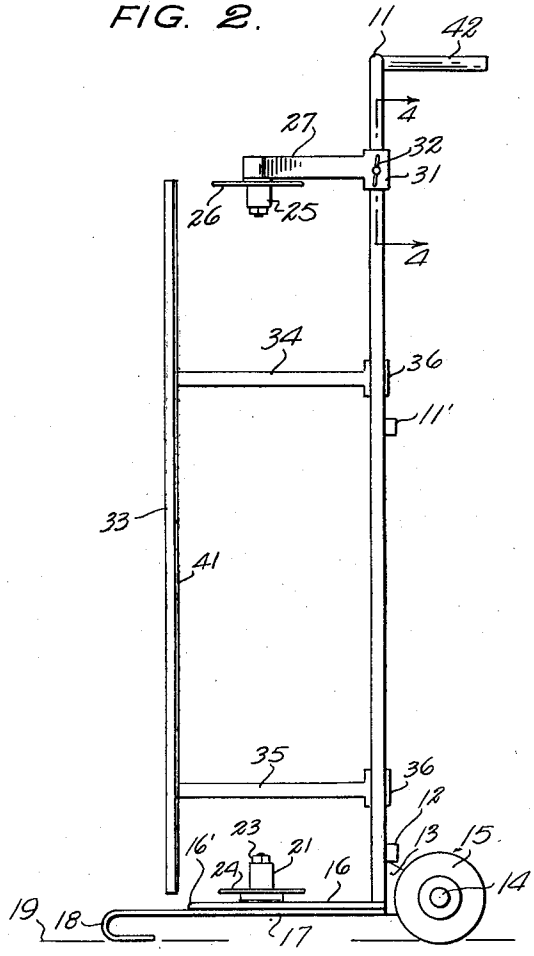


FIG. 2.



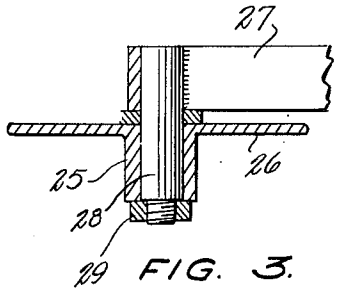


FIG. 3.

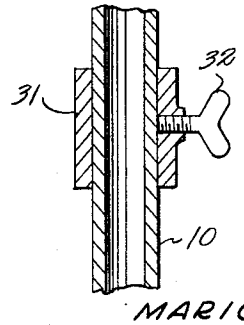


FIG. 4.

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FIG. 5.

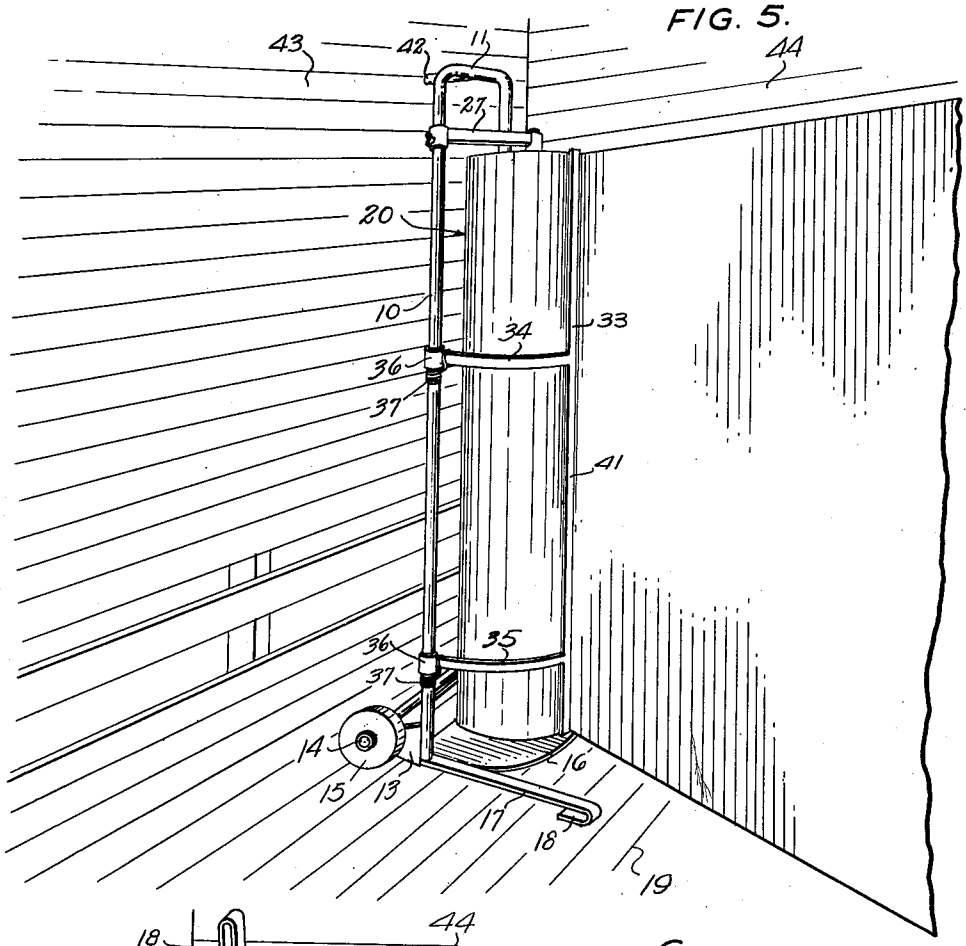
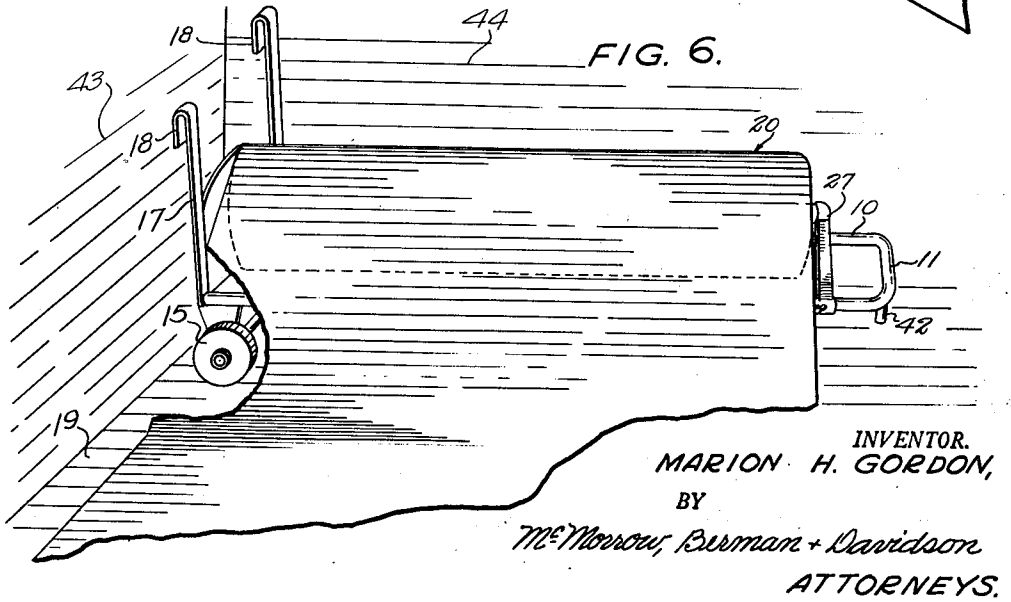


FIG. 6.



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UNITED STATES PATENT OFFICE

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PAPER DISPENSER

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Application September 2, 1949, Serial No. 113,829

3 Claims. (Cl. 242—55.5)

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This invention relates to a holder and dispenser for roll paper or the like for facilitating such operations as the lining of freight cars, the primary object of the invention being to provide a device of this kind which can be wheeled into position on a floor, like a hand truck, and is self supporting on a floor in either a perpendicular position parallel to a wall, or in a horizontal position parallel to a floor.

Another important object of the invention is to provide a device of the character indicated above which is readily adjustable to accommodate and dispense rolls of different lengths.

A further important object of the invention is the provision of a device of the above-indicated character which is simple in construction and which can be made in a serviceable rugged and mechanically excellent form at relatively low cost.

Other important objects and advantageous features of the invention will be apparent from the following description and the accompanying drawings, wherein, merely for illustration herein, a specific embodiment of the invention is set forth in detail.

In the drawings:

Figure 1 is a front elevation of the device;

Figure 2 is a side elevation thereof, looking from right to left in Figure 1;

Figures 3 and 4 are enlarged fragmentary transverse vertical sections, taken on the lines 3—3 and 4—4 of Figures 1 and 2, respectively;

Figure 5 is a perspective view showing the device in use in a perpendicular position for lining the walls of a freight car with paper from the roll carried by the device;

Figure 6 is a similar view showing the device in horizontal, floor-lining position.

Referring in detail to the drawings, wherein like numerals designate like parts throughout the several views, the numeral 9 generally designates the illustrated device, which comprises a frame comprising parallel tubular vertical legs 10, 10 joined at their upper ends by a bight portion 11, and spaced and connected at their lower ends by a cross-bar 12. Removably projecting triangular brackets 13, secured to the lower parts of the legs, support a transverse axle 14 having ground-engaging wheels 15, 15 on its opposite ends, positioned laterally outwardly from the adjacent legs 10. A cross-brace 11' is connected between the legs 10 below the bight portion 11.

Secured at right angles to and projecting forwardly from the lower ends of the legs 10, 10 is plate 16 of a front-to-rear depth at least as

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great as the diameter of the largest paper roll 20 to be handled. The plate 16 is substantially rectangular in shape with a curved forward edge 16'. Also secured to the lower ends of the legs and to the under side of the plate 16 are parallel bars 17, 17 which extend forwardly beyond the plate 16 and have downward return bends 18 on the forward ends serving as feet to engage the ground or floor 19. The location of the axle 14, the size of the wheels 15, 15 and the downward reach of the feet 18 are such that the feet 18 and wheels 15 constitute support points to support the device in its vertical position, perpendicular to the floor 19. These support points are located and sufficiently widely spaced to prevent tipping over of the device when supported thereon and weighted down by a paper roll 20.

Centered on the forward part of the plate 16 is a spool 21 journaled on a spindle 22 fixed to the plate 16 and held in place thereon by a nut 23. The lower part of the spool 21 has a relatively wide flange 24 upon which is adapted to rest the lower end of a paper roll 20, with the spool inserted in the opening (not shown) commonly provided in such paper rolls.

The upper spool 25, as shown in Figure 3, is similar to the spool 21, but inverted, and has a similar flange 26 and is secured in depending position to the forward ends of convergent arms 27 on a spindle 28 having a nut 29 on its lower end, the convergent arms 27 projecting forwardly from sleeves 31, 31, which are slidably confined on the frame legs 10, 10. The sleeves 31 are provided with wing set screws 32, 32 to engage the legs 10 and by means of which the cross-bar 30 and hence the upper spool 25 can be adjusted to accommodate paper rolls 20 of different lengths and then locked in proper position to retain the roll securely and rotatably on the device.

A cutter bar 33, extending parallel to the axes of the spools 21 and 25, has upper and lower lateral arms 34 and 35, respectively, terminating in sleeves 36, 36 journaled on the left-hand frame leg 10 and supported thereon at the proper height by means of coiled springs 37 circumposed on the frame leg and having lower ends 38 secured to the leg, as indicated at 39, and upper ends 40 projected laterally and hooked around the outward sides of the arms 34 and 35, whereby the cutter bar 33 is normally engaged inwardly against a paper roll positioned on the spools 21 and 25 so that the paper can be pulled against the cutting edge 41 of the cutter bar and cut

from the roll. The cutter bar 33 can be swung outwardly to an out-of-the-way position against the resistance of the springs 37 when inserting or removing a paper roll into or from the device.

The upper bar or bight portion 11 has at its middle a rearwardly-projecting arm 42 to act as a foot when the device is being used in its horizontal position, as shown in Figure 6, the length of the foot 42 being such that the wheels 15, 15 and the foot 42 engage the floor 19 and support the device parallel thereto. The foot 42 also serves as a handle for trundling the device over the floor 19 in a rearwardly-tilted position like an an ordinary hand truck.

As shown in Figure 5, the device 9 carrying a paper roll 20 is adapted to be placed against a wall 43 of a freight car or the like, with the foot 42 and the wheels 15, 15 against the wall to assure a perpendicular upright position of the device, and sidewise against an intersecting wall 44. The free end of the paper is then pulled out along the wall 44 to the extent necessary and cut off by the cutter bar 33 and the paper is then applied to the wall 44.

As shown in Figure 6, lining of the floor 19 with paper from the roll 20 is accomplished by placing the device 9 in a corner between the walls 43 and 44 in its horizontal position on the floor 19 and along the wall 44. Thereupon, the free end of the paper can be drawn out to the extent necessary and the paper is then cut off by means of the cutter bar 33 and applied to the floor 19.

I claim:

1. In a portable paper roll holder, a frame comprising a pair of vertical laterally spaced parallel side members, an upper cross member connected to and extending between the upper ends of said side members, a lower cross member connected to and extending between the lower ends of said side members, said lower cross member comprising a horizontal plate projecting forwardly from said side members, an upwardly directed lower flanged spindle centered on said plate, foot means depending at the outer edge of said plate for engaging the ground, laterally spaced wheels mounted on the lower end of said frame and positioned rearwardly therefrom for engaging the ground in conjunction with said foot means to support said frame in an upright position with said plate parallel to the ground, sleeves slidable along upper portions of said frame side members, a forwardly projecting arm rigidly secured to each of said sleeves, means connecting the forward ends of said arms together, a downwardly directed upper flanged spindle on said means in vertical alignment with the lower spindle, and releasable locking means operating between said sleeves and said frame side members for locking said upper spindle at selected elevations above said lower spindle.

2. In a portable paper roll holder, a frame comprising a pair of vertical laterally spaced parallel side members, an upper cross member connected to and extending between the upper ends of said side members, a lower cross member connected to and extending between the lower ends of said side members, said lower cross member comprising a horizontal plate projecting forwardly from said side members, an upwardly directed lower flanged spindle centered on said plate, foot means depending at the outer edge of said plate for engaging the ground, laterally spaced wheels mounted on the lower end of said frame and positioned rearwardly therefrom for engaging the ground in conjunction with said foot means to support said frame in an upright position with said plate parallel to the ground, sleeves slidable along upper portions of said frame side members, a forwardly projecting arm rigidly secured to each of said sleeves, means connecting the forward ends of said arms together, a downwardly directed upper flanged spindle on said means in vertical alignment with the lower spindle, and releasable locking means operating between said sleeves and said frame side members for locking said upper spindle at selected elevations above said lower spindle, said upper cross member having a rearwardly projecting centered handle engageable with a vertical wall in conjunction with said wheels to preclude rearward tilting of said frame toward the wall out of upright position, said handle acting as a floor engaging foot in conjunction with said wheels in a prone position of said frame.

3. In a portable paper roll holder, a frame comprising a pair of vertical laterally spaced vertical side members, an upper cross member connected to and extending between the upper ends of said side members, a lower cross member connected to and extending between the lower ends of said side members, said lower cross member comprising a horizontal plate projecting forwardly from said side members, an upwardly directed lower flanged spindle centered on said plate, sleeves slidable along upper portions of said frame side members, forwardly projecting arms rigidly secured to said sleeves, a downwardly directed upper flanged spindle mounted on a forward part of said arms in vertical alignment with the lower spindle, and releasable locking means operating between said sleeves and said frame side members enabling adjusting said upper spindle vertically relative to said lower spindle to selected positions on said frame.

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