United States Patent

Wyant

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[54] ROLL SUPPORT BRACKET FOR WEB DISPENSERS

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[52] **U.S. Cl.**.....**312/39,** 312/38, 242/55.2, 242/55.53, 242/71.9, 242/73

[51] **Int. Cl.**.....**B65h 19/00**

[58] **Field of Search** 312/37, 38, 39; 242/55.2, 55.53, 242/55.54, 71.9, 73

[56] **References Cited**

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2,182,108	12/1939	Anderson	242/55.2
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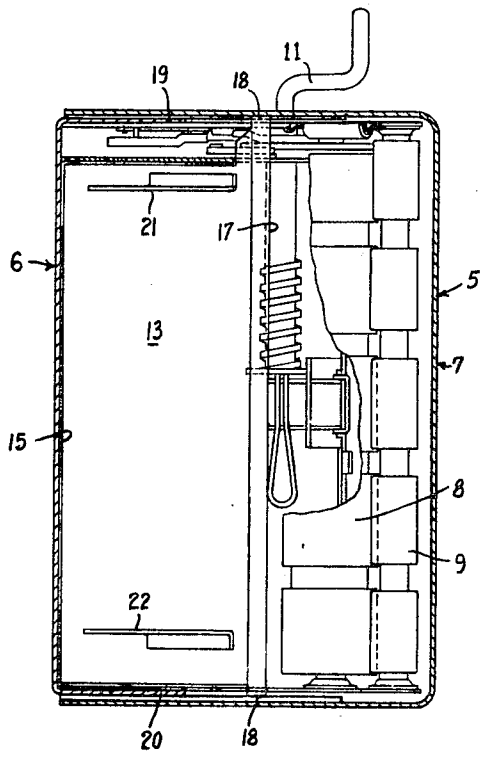
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[57] **ABSTRACT**

A web dispenser for feeding a web of material from a roll within a cabinet, the web being fed through the nip between a driving roll and a pressure applying roll, and a support plate for the roll of material mounted within the cabinet adjacent to and tangent to the top portion of the web driving roll, the support plate being projected at an angle downwardly and rearwardly of the web driving roll and brackets on the support plate to position the roll of material in axial parallel alignment with the nip between the driving and pressure applying rolls.

7 Claims, 3 Drawing Figures



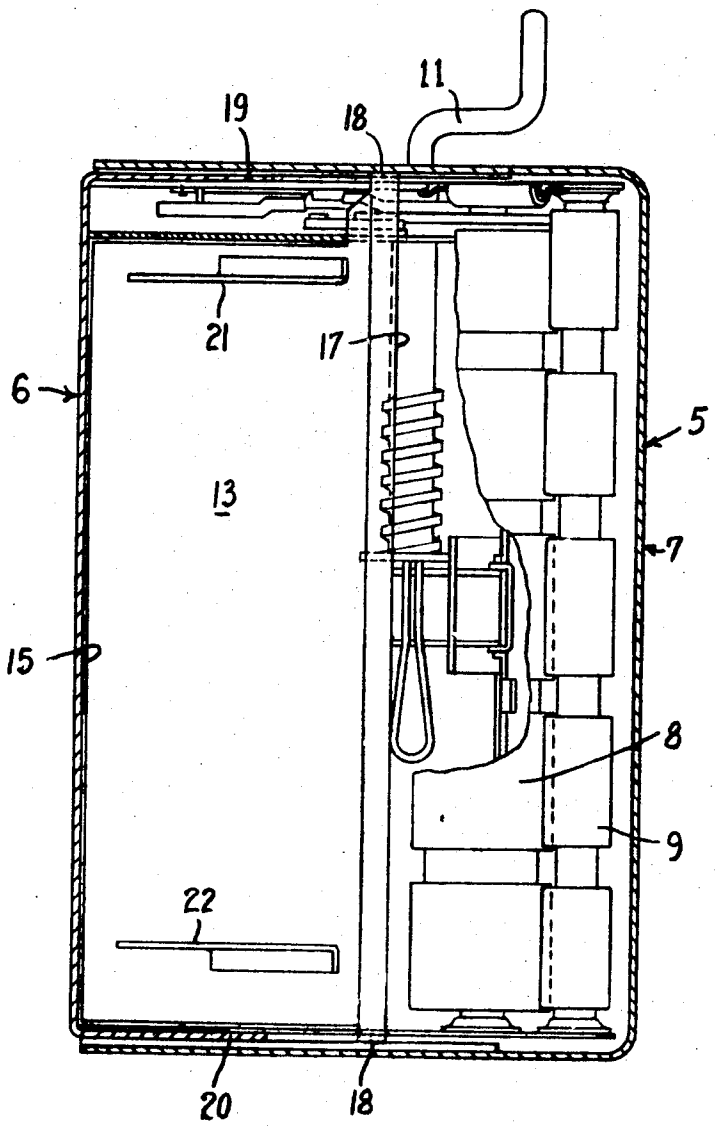


FIG. 1

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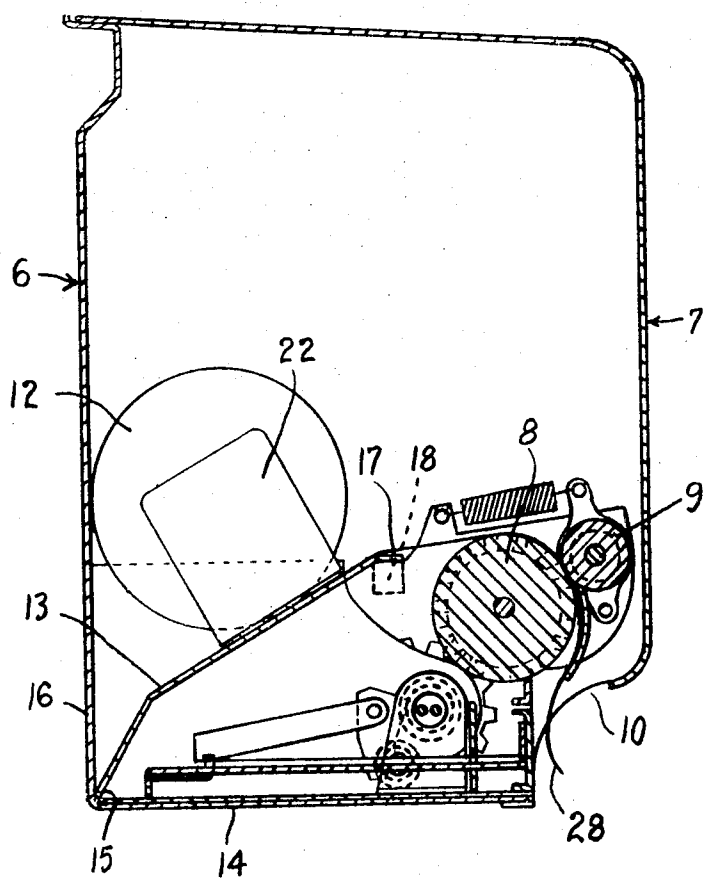


FIG. 2

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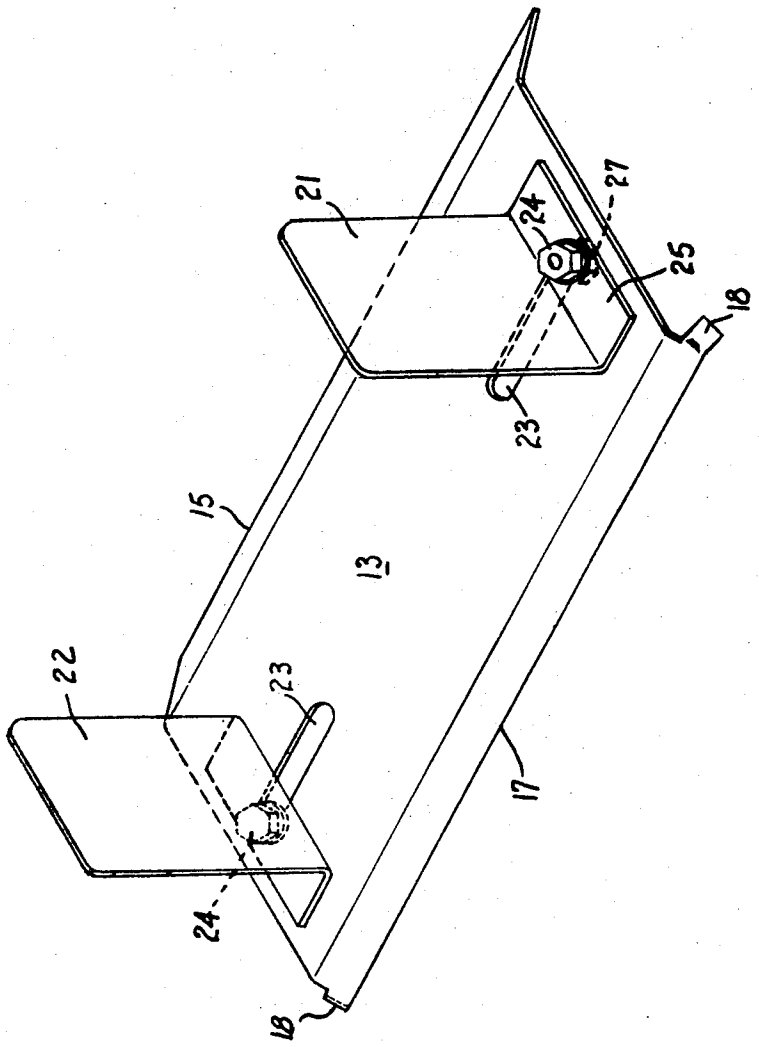


FIG. 3

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ROLL SUPPORT BRACKET FOR WEB DISPENSERS

This invention relates to improvements in dispensers for paper towels or other web like material and particularly to means for supporting rolls of paper towels of varying width within the dispenser.

In web dispensers such as that shown in U.S. Pat. No. 2,839,345, means are provided for pivotally supporting a roll of paper towelling which necessitates the use of special fitting in the ends of the sleeve on which the paper towelling is wound. This restricts the use of the dispenser to one width of roll of towelling.

The present invention consists of a simple removable support plate, located within the dispenser, on which the roll of paper towelling rests, and a pair of keeper plates or brackets mounted on the support plate adapted to locate between them the roll of paper towelling and hold the roll in proper alignment with the feed rolls dispensing the towelling.

The object of the invention is to provide a simple and inexpensive support for a roll of paper towelling within a dispenser.

A further object of the invention is to provide a replaceable support for a roll of paper towelling which will hold the roll of towelling in proper alignment within the towel dispenser.

A further object of the invention is to provide a support for a roll of paper towelling having adjustable bracket means to accommodate rolls of paper towelling of varying width.

These and other objects of the invention will be apparent from the following detailed specification and the accompanying drawings, in which;

FIG. 1 is a plan sectional view of one form of towel dispenser showing the roll support in place.

FIG. 2 is a vertical section taken on the line 2—2 of FIG. 1 showing a roll of paper towelling supported in the dispenser.

FIG. 3 is a plan view of the paper towel roll support showing the adjustable brackets between which rolls of varying width can be held in alignment with the towel dispensing rolls.

Referring to the drawings, the towel dispenser cabinet **5** is shown for illustrative purposes only, as the invention can be adapted to any type of cabinet dispensing paper towelling.

The cabinet **5** is in two pieces, a fixed wall mounted section **6** and a cover **7**. Mounted in the lower portion of the section **6** is the towel feed roll **8** and the pressure roll **9**.

The cover **7** is hinged to the section **6** and is provided with an opening **10** through which the paper towelling is dispensed.

In the cabinet **5** illustrated, there is shown crank means **11** for driving the towel feed roll **8**. However, the crank means **11** can be dispensed with and the paper towel can be withdrawn in usual manner by pulling the towelling downwards through the opening **10** against the tension of the pressure roll **9**.

The roll of paper towelling **12** is supported within the cabinet **5** by a removable support plate **13** inserted in the bottom rear portion of the section **6**. This support plate **12** is disposed at an angle to the bottom horizontal wall **14** of the section **6** of the cabinet and has its lower horizontal edge **15** resting against the corner between the horizontal wall **14** and the adjacent rear wall **16**. The upper horizontal edge **17** of the support plate **12** is at a level which is approximately tangent with the top of the towel feed roll **8** and is supported in that position by a pair of end lugs **18** engaging with end walls **19** and **20** of the section **6**.

Mounted on the angled support plate **12** are a pair of brackets **21** and **22** disposed in planes transverse to the axis of the roll of paper towelling **12** and adapted to hold between them the roll of paper towelling in the desired alignment with the towel feed roll **8**.

Where only one width of paper towelling is to be disposed, the brackets **21** and **22** can be permanently secured to the support plate **13** by welding or other means. However, where it is desirable to be able to dispense towelling of different widths, the one or both of the brackets **21** and **22** can be made adjustable relative to each other. For this purpose, slots **23** are punched in the plate **13** and the brackets can be secured to the plate by well known means such as by providing a threaded nut **24** welded to the upper surface **25** of the flange **26** of the brackets and by a threaded screw **27** passing through the slots **23** in the plate **13** into threading engagement with the nuts **24**. Spring fasteners can also be used to secure the brackets **21** and **22** to the plate **13**.

When the brackets **21** and **22** are firmly secured on the plate, one fastening means on each bracket is usually enough to hold the brackets at right angles to the axis of the roll of paper **12**, However, if desired, two fastening means can be used.

In the operation of this invention the roll of towelling **12** is fitted between the brackets **21** and **22** to rest on the top surface **27** of the support plate **13** and against the rear wall **16** of the cabinet. The free end **28** of the towelling is drawn out over the horizontal edge **17** of the plate **13** and fed between the rolls **8** and **9** and through the opening **10** of the cover **7**.

The weight of the roll of towelling **12**, resting on the angled plate **13**, ensures that there will always be tension in the towelling between the roll **12** and the feed rolls **8** and **9**, resulting in a smooth and even withdrawal of the towelling from the cabinet.

When it is desired to insert a new roll of towelling the cover of the cabinet is opened and the core of the expended roll is removed and the replacement roll is fitted between the brackets **21** and **22**. If it is desired to use a roll of greater or lesser width than the roll previously used, the support plate **13** is lifted out of the cabinet and the brackets **21** and/or **22** are adjusted relative to each other to a spacing to suit the width of the replacement roll. The support plate is then reinserted in the cabinet and the new roll of towelling is fitted in place in the usual manner.

What I claim is:

1. In a web dispenser for feeding a web of material from a roll, a cabinet having a rear wall and bottom and end walls, a web driving roll and a pressure applying roll mounted in said cabinet in adjacent parallel alignment with each other to form a nip therebetween, a removable rolled web supporting plate mounted in said cabinet, one edge of said support plate being located adjacent to and tangent to the top portion of the said driving roll, the said support plate being projected at an angle downwardly and rearwardly from the said driving roll, and means on said support plate adapted to position the roll of web material in axial parallel alignment with the nip between said driving and pressure applying roll.

2. A web dispenser as set forth in claim 1 in which the said support plate and one wall of the cabinet form an acute angled pocket to receive and support the roll of web material.

3. A web dispenser as set forth in claim 1 in which the said support plate is rectangular in shape and a pair of lugs project from opposite end edges thereof to engage with adjacent end walls of the cabinet to hold the support plate in its angled position within the cabinet.

4. A web dispenser as set forth in claim 1 in which the said support plate has a pair of spaced apart brackets having opposing surfaces disposed in planes at right angles to the axis of the said driving and pressure applying rolls.

5. A web dispenser as set forth in claim 1 in which the said support plate has a pair of spaced apart brackets projecting upwards from the upper surface thereof, the said brackets having opposing surfaces disposed in planes at right angles to the axis of the said driving and pressure applying rolls, and the support plate and one wall of the cabinet form an acute angled pocket to receive and support the roll of web material.

6. A web dispenser as set forth in claim 4 in which the said brackets are adjustable on said support plate to vary the width therebetween, and securing means to hold the said brackets in their adjusted position on the support plate.

7. A web dispenser as set forth in claim 5 in which the said brackets are adjustable on the said support plate to vary the width therebetween, and securing means to hold the said brackets in their adjusted position on the support plate.

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