J. L. MUELLER.

MEASURING, CUTTING, AND DISPLAYING MEANS FOR OIL CLOTH STANDS.

APPLICATION FILED APR. 23, 1914.

1,234,926.

Patented July 31, 1917.

2 SHEETS—SHEET 1.

Fig. 1.

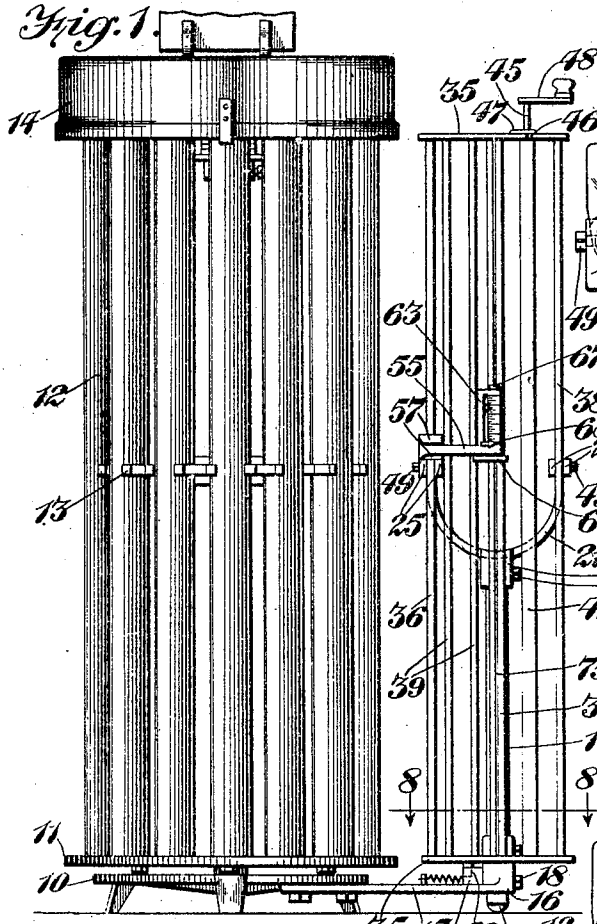


Fig. 4.

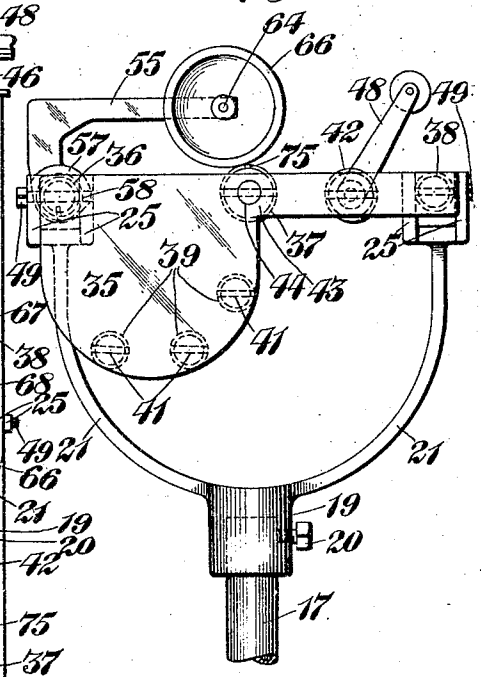


Fig. 5.

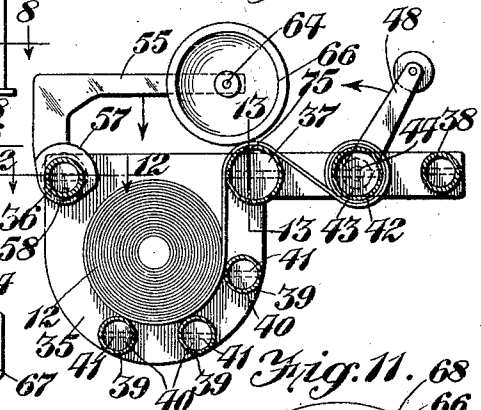


Fig. 10.

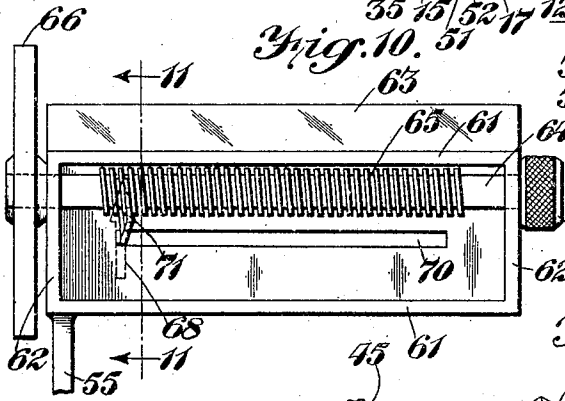


Fig. 11.

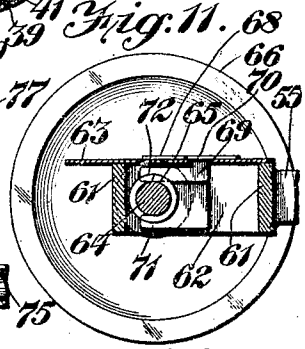


Fig. 13.

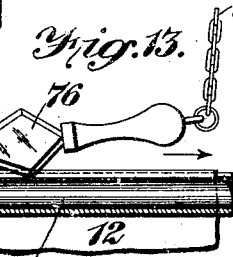


Fig. 9.

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2 SHEETS—SHEET 2.

Fig. 2.

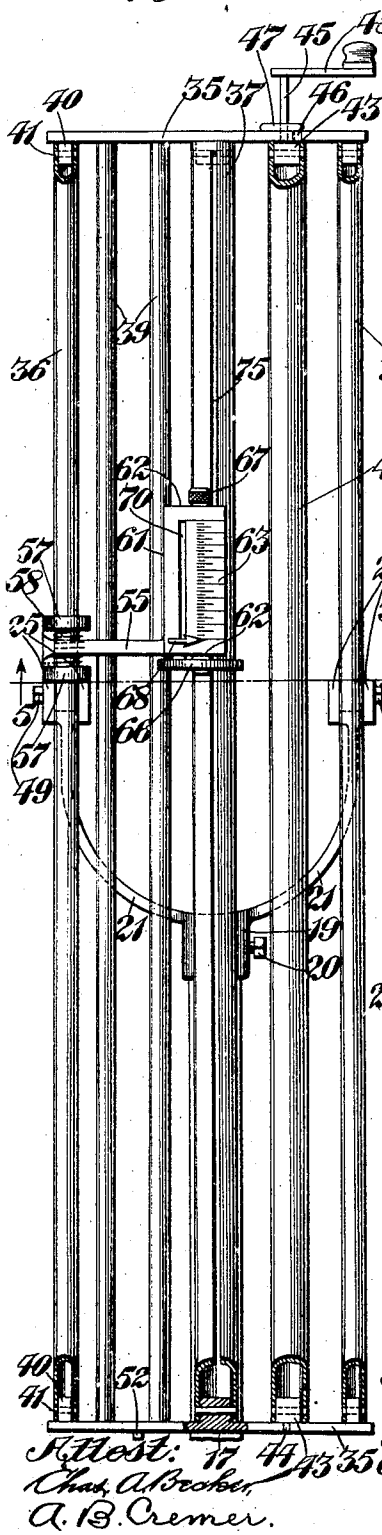


Fig. 7.

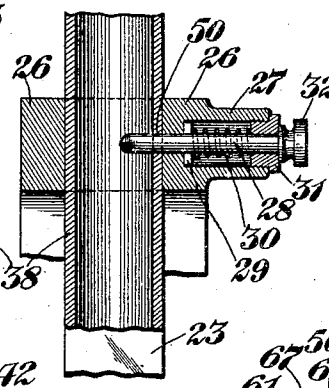


Fig. 8.

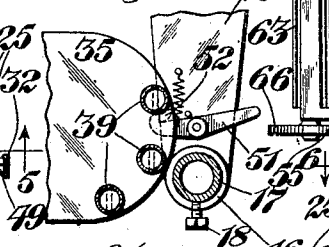


Fig. 6.

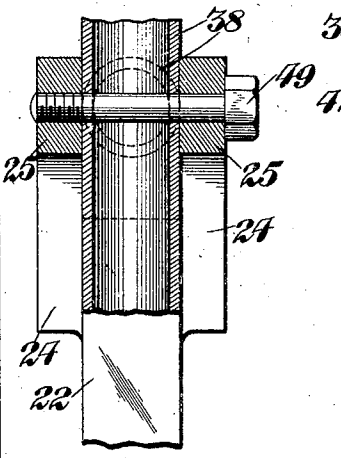


Fig. 12.

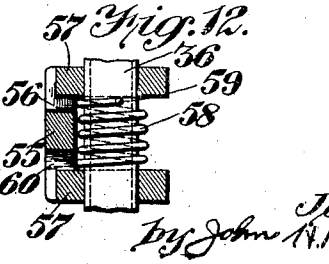
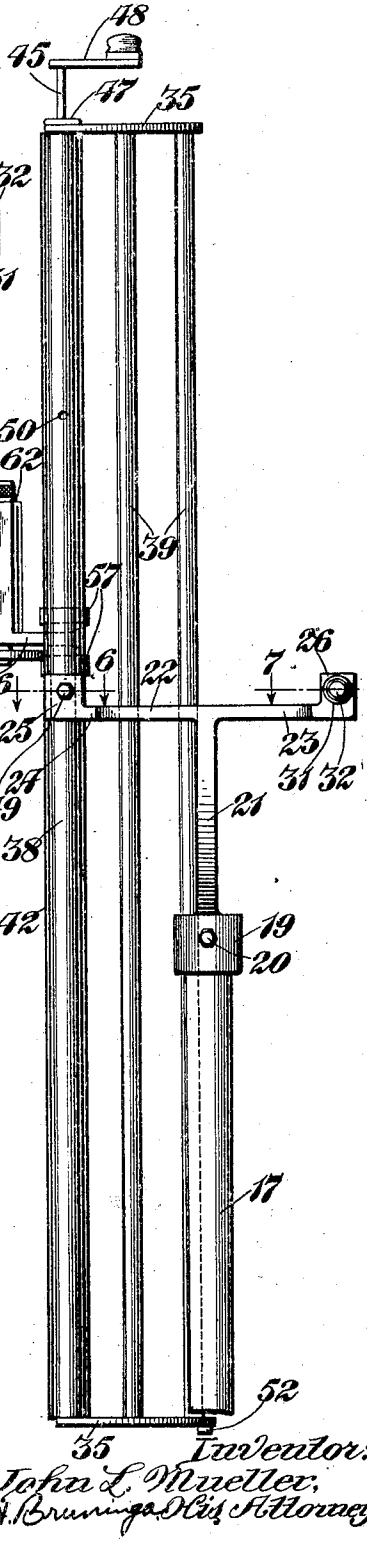


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN L. MUELLER, OF ST. LOUIS, MISSOURI.

MEASURING, CUTTING, AND DISPLAYING MEANS FOR OIL-CLOTH STANDS.

1,234,926. Specification of Letters Patent. Patented July 31, 1917.

Application filed April 23, 1914. Serial No. 833,934.

To all whom it may concern:

Be it known that I, JOHN L. MUELLER, a citizen of the United States, and residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Measuring, Cutting, and Displaying Means for Oil-Cloth Stands, of which the following is a specification.

This invention relates to measuring and cutting means, and more particularly, to measuring and cutting means for table oilcloth.

Table oilcloth is supplied in rolls, and is often 60 inches wide, the rolls are, therefore, as much as 60 inches in length. Such oilcloth is comparatively thin, and has no stiffness, so that it is rather inconvenient to handle. Such oilcloth has a pattern on one side, and the pattern is on the inside when rolled up, but in the display thereof, this pattern should be on the outside. The stands and racks used for displaying such oilcloth should occupy as small a space as possible, but should be so constructed as to properly display the goods with the pattern out.

One of the objects of this invention, therefore, is to provide a combination display stand and dispensing means, more particularly, measuring and cutting means, which will properly display the goods, which will be convenient to handle, and which will occupy a small space.

Another object is to provide a combination display stand in which the rows of goods are displayed vertically, and placed horizontally when measured and cut.

Another object is to provide supporting means for the rolls, which will so support these rolls, that the goods can be measured accurately and cut square across.

Another object is to provide a construction in which the rolls can be readily placed into and out of position, either in the display stand or in the carrier for the measuring and cutting means, which is simple in construction and operation, and convenient to handle.

Further objects will appear from the detail description taken in connection with the accompanying drawings, in which:

Figure 1 is a side elevation of a combination stand embodying this invention,

Fig. 2 is an enlarged detail side elevation of the measuring and cutting mechanism,

Fig. 3 is a side elevation of Fig. 2,

Fig. 4 is an end elevation of Fig. 2, showing the measuring and cutting frame in position for measuring and cutting,

Fig. 5 is a section on the line 5—5, Fig. 2,

Fig. 6 is an enlarged section on the line 6—6, Fig. 3 with the dispensing carrier in horizontal position,

Fig. 7 is an enlarged section on the line 7, Fig. 3,

Fig. 8 is a section on the line 8—8, Fig. 1,

Fig. 9 is a detail perspective view of one end of the measuring and cutting frame, showing the latch for the winding roll,

Fig. 10 is an enlarged bottom view of the measuring mechanism,

Fig. 11 is a section on the line 11—11, Fig. 10,

Fig. 12 is an enlarged view, partly in section, the section being taken on the line 12—12, Fig. 5, and,

Fig. 13 is a detail section on the line 13—13, Fig. 5, and showing the cutting knife in position for cutting the cloth.

Referring to the accompanying drawings, 10 designates a base supporting a rotary carrier 11, which rotary carrier is adapted to detachably support rolls of oilcloth 12 at the top and bottom. Clamps 13 are provided for clamping the rolls intermediate their ends, and hold the oilcloth in rolled up position. The carrier is also provided with a removable top 14 for covering the ends of the rolls. This display stand is fully shown and described in my Patent No. 1,144,229, dated June 22, 1915, to which reference is had for details of construction.

The base 10 has secured thereto a laterally extending bracket 15, provided with a boss 16 for supporting a standard 17, which is made of pipe, this standard being clamped in the boss by a set screw 18. The standard has mounted thereon, as seen more clearly in Figs. 2, 3 and 4, a bracket 19, clamped thereto by means of a set screw 20, and this bracket has a pair of upwardly extending arms 21 forming a fork. Each of the arms 21 has forwardly and rearwardly extending arms 22 and 23. The arms 22 are forked, as shown at 24 Fig. 6, and these

forks have upwardly extending spaced lugs 25 thereon. The arms 23, Fig. 7, have upwardly extending spaced lugs 26 thereon. One of these lugs on one of these arms 23 has a boss 27, formed hollow, to receive a sliding bolt 28 provided with a cross-pin 29. A spring 30 in the boss bears at one end against the cross-pin 29, and at the other end against a plug 31 threaded into the boss. The bolt has a knurled head 32, whereby it may be operated.

The dispensing or measuring and cutting carrier comprises a pair of end plates 35 connected, as seen in Figs. 2, 4 and 5, by hollow bars or pipes 36, 37, 38 and 39, and the end plates have cast thereon lugs 40 which take into the ends of these pipes. Cross-pins 41 pass through the lugs 40 and the pipes 36, 37, 38 and 39, but the pipes 39 may be left free to revolve on the lugs 40 so as to form rolls. A pipe 42 has lugs 43 pinned to the ends thereof, and one of these forms a pintle 44 engaging a hole in one of the end plates 35, while the other lug has a shaft 45 engaging a slot 46 in the other end plate, as seen in Fig. 9. A pivoted latch 47 is provided to take over the shaft 45 and hold the roll in position, and this shaft is provided with a handle 48 whereby it may be turned. The bars 36 and 38 are pivoted between the lugs 25 by means of screws 49, and the pipe 38 is also provided with a hole 50, Figs. 3 and 7, adapted to be engaged by the bolt 28. The arm 15 has mounted thereon, Figs. 1 and 8, a spring-operated latch 51 engaging a keeper lug 52 projecting from the bottom plate 35.

An arm 55, Figs. 2, 4, 5 and 12, is provided with a head 56 having spaced lugs 57 thereon, apertured to pivotally support this arm on the pipe 36. A spring 58 is mounted on the bar 36 between the lugs 57, and is attached at one end to the bar 36, while its other end bears against the head 56. This spring normally tends to move the arm in the direction of the arrow, Fig. 5. The arm 55 is provided, as seen more clearly in Figs. 2, 10 and 11, with a hollow frame, comprising, sides 61 and ends 62, and this frame is covered by a graduated dial-plate 63. A shaft 64 is rotatably mounted in the ends 62 of the frame, and is provided with a threaded portion 65, with a wheel 66 (which may be knurled) and a knurled head 67. A pointer 68, Fig. 11, has a projection 69 passing through a slot 70 in the plate 63, and this lug is provided with projections 71 and 72 taking into the threads 65 on the shaft 64.

The hollow bar 37 has extending therealong, as seen more clearly in Figs. 2 and 13, a cutting slot 75 which is positioned immediately under the point of contact of the wheel 66 with the bar, and a cutter 76, attached to the frame by a chain 77, is adapted to pass through and along this slot.

The dispensing or measuring and cutting frame is arranged to be swung from a vertical to a horizontal position on the standard 17, and is latched in either position, being held in the vertical position by latch 51 and in its horizontal position by latch 28. The wheel 66 may be swung on the bar 36 to position it either over the bar 37, or move it from out of position over the frame. Rotation of the wheel 66 will cause a rotation of the shaft 64 connected thereto, and this will, in turn, cause the pointer 68, through engagement of parts 71 and 72 with thread 65, to travel along the slot in the dial plate 63, which is graduated in any suitable units as shown in Fig. 2. If a sheet of oilcloth passes over the bar 37, and the measuring wheel 66 is thrown out of the way, the goods can be cut by passing the knife 76 in along the slot 75, as shown in Fig. 13.

The general operation is as follows: The parts are normally in the position shown in Fig. 1, with the dispensing or measuring and cutting carrier in a vertical position alongside of the display carrier, and latched in that position by the latch 51, Fig. 8. When it is desired to measure and cut a piece of oilcloth from one of the rolls, this roll is removed from the display carrier by a radial movement, the latch 51 released with the foot, and the measuring and cutting frome moved to a horizontal position and latched by the bolt 28, Fig. 7. The measuring wheel is then swung out of the way and the roll laid in position on the revoluble bars 39, as seen in Fig. 5. The end of the oilcloth is then passed over the cutting bar 37, the measuring wheel moved down to engage the pattern face of the oilcloth, and the end of the oilcloth pulled out over the bar and wound once around the winding roll 42. It will be noted that, during this pulling out of the oilcloth, when pulling out sufficient to place it on the winding roll, the measuring wheel will measure the amount pulled out. The handle 48 is then moved in the direction of the arrow, Fig. 5, and the required amount of oilcloth measured. The measuring wheel is then raised out of the way, and the knife 76 run along the slot 75 to cut the measured amount. The roll of oilcloth is then returned to the stand, the measured part removed with the winding roll 42 from the frame, and this measured part slipped off. It will be found that the pattern side of the oilcloth will be sufficiently adhesive to stick to the winding roll 42, so that only a short piece has to be passed around this winding roll by hand.

It will thus be seen that the invention accomplishes its objects. A combination dis-

play and dispensing or measuring and cutting stand is produced, which will occupy a small space and present a desirable appearance when the measuring and cutting mechanism is not in use. The carrier 11 can be rotated to permit convenient display of, and proper selection from, any of the oilcloth rolls on the stand, and to permit ready removal of a selected roll and proper positioning of the same in the dispensing carrier or frame to measure and cut off any desired length of oilcloth. Since the oilcloth is in a horizontal position when measured and cut, it can be manipulated more conveniently, and the measuring and cutting can be performed more accurately than if this oilcloth roll were in a vertical position. At the same time, the carrier is so constructed that it will be in a vertical position and occupy a small floor space when not in use. The measuring device is not only small in construction, but has only a slight amount of friction, and there will, therefore, be no slipping of the oilcloth with respect to the measuring wheel. The point of contact between the measuring wheel and the oilcloth coincides exactly with the cutter slot 75. It is, therefore, insured that the oilcloth will be cut at the exact point as measured from the end of the piece. Since the device can be constructed almost entirely of pipe, its weight will be small.

The device as a whole meets all contingencies arising in the operation of handling the oilcloth throughout the various stages of displaying, measuring and cutting the same, and provides for these various steps being conveniently and expeditiously performed, and results, therefore, not only in a minimum expenditure of time and labor on the part of the salesman, but also in a saving of material by preventing waste incident to measuring and cutting the cloth and damaging of the goods in handling. Thus, it is apparent that the device as a whole results in a marked saving in time, labor and material, together with an economizing of store space, and that the attainment of these results is due to the combination and coöperative arrangement of the parts of the device as a whole, by which it may carry out the various steps of the operation of the handling of the goods.

It is obvious that various changes may be made in details of construction without departing from the spirit of this invention, and it is to be understood, therefore, that this invention is not to be limited to the specific construction shown and described.

Having thus described the invention, what is claimed is:

1. The combination with a base, of a display carrier mounted thereon and having means constructed and arranged to detachably support the upper and lower ends of vertically disposed rolls of goods, adapting the rolls for complete removal from said carrier at will in dispensing the goods, and a dispensing carrier mounted on said base and constructed and arranged to support in horizontal position a roll removed from said display carrier.

2. The combination with a base, of a display carrier mounted thereon and having means constructed and arranged to detachably support the upper and lower ends of vertically disposed rolls of goods, adapting the rolls for complete removal from said carrier at will in dispensing the goods, and a dispensing carrier pivotally mounted on said base and constructed and arranged to support in horizontal position a roll removed from said display carrier, the pivotal axis of said dispensing carrier being disposed in a plane intermediate the ends of the vertically disposed rolls.

3. The combination with a base, of a display carrier mounted thereon and having means constructed and arranged to removably support vertically disposed rolls of goods, adapting the rolls for complete removal from said carrier at will in dispensing the goods, and a dispensing carrier mounted on said base and constructed and arranged to receive a roll taken from the display carrier and to support the same horizontally in elevated position above the base.

4. The combination with a base, of a display carrier mounted thereon and constructed to detachably support the upper and lower ends of the rolls of goods, adapting the rolls for complete removal from said carrier at will in dispensing the goods, a dispensing carrier mounted on said base and constructed and arranged to receive and support a roll taken from the display carrier and permit the goods to be unrolled therefrom while positioned thereon, and measuring means on said dispensing carrier.

5. The combination with a base, of a display carrier mounted thereon and having means constructed and arranged to detachably support the upper and lower ends of vertically disposed rolls of goods, adapting the rolls for complete removal from said carrier at will in dispensing the goods, and a dispensing carrier pivotally mounted on said base and adapted to normally stand vertically in an unobstructing position adjacent to said display carrier, the pivotal axis of said dispensing carrier being disposed in a plane intermediate the ends of the vertically disposed rolls adapting said carrier to be moved to an elevated horizontal position above the base to receive and support a roll taken from said display carrier.

6. The combination with a base, of a display carrier mounted thereon and having means constructed to detachably support the

upper and lower ends of vertically disposed rolls of goods, adapting the rolls for complete removal from said carrier at will in dispensing the goods, a dispensing carrier mounted on said base and constructed and arranged to receive and support a roll taken from the display carrier, and means for pivotally supporting said dispensing carrier intermediate its ends, constructed to permit said dispensing carrier to be positioned vertically and horizontally with respect to said display carrier.

In testimony whereof I affix my signature in the presence of these two witnesses.

JOHN L. MUELLER.

Witnesses:
J. H. BRUNINGA,
FRANKLIN MILLER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."