Feb. 2, 1943. J. C. OWENS 2,310,036

CARPET AND FLOOR COVERING TURN TABLE AND THE LIKE

Filed May 23, 1941 2 Sheets-Sheet 1

Fig. 1.

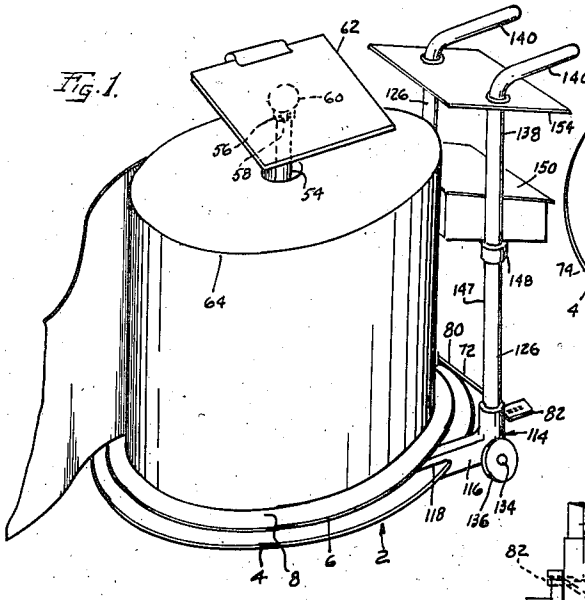


Fig. 3.

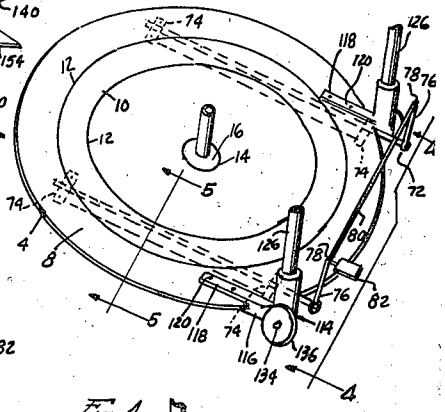


Fig. 4.

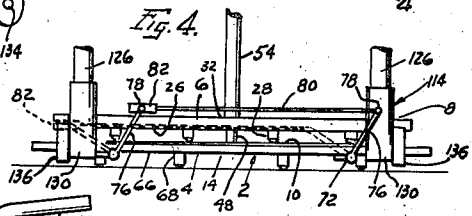


Fig. 2.

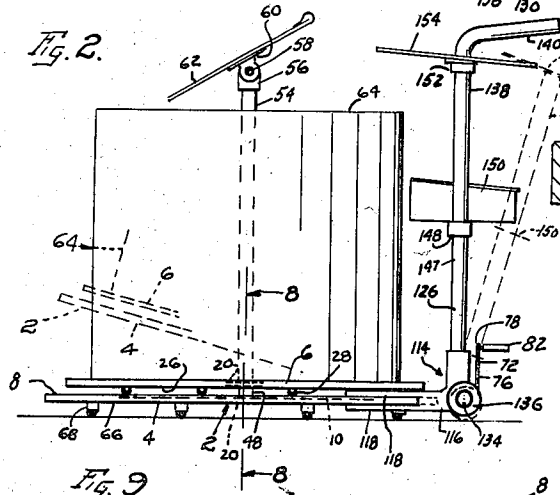


Fig. 5.

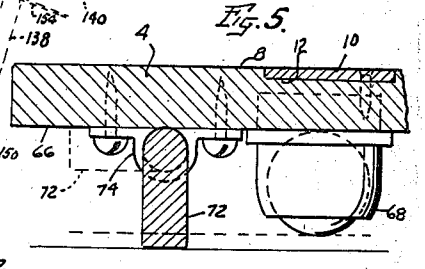
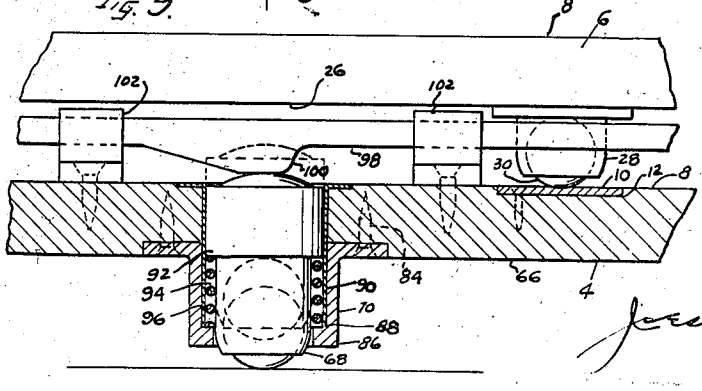


Fig. 9.



INVENTOR.

James C. Owens

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CARPET AND FLOOR COVERING TURN TABLE AND THE LIKE

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Fig. 6.

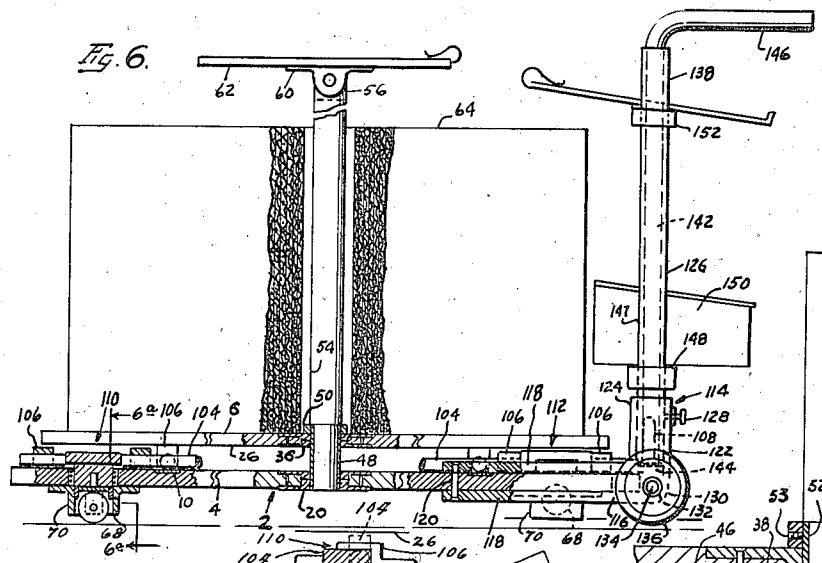



Fig. 6a

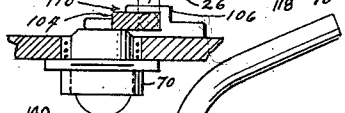



Fig. 8.

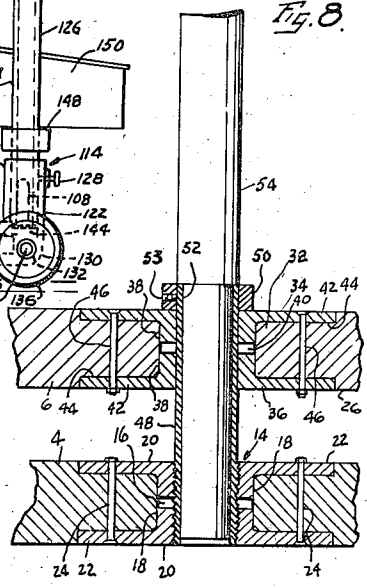



Fig. 7.

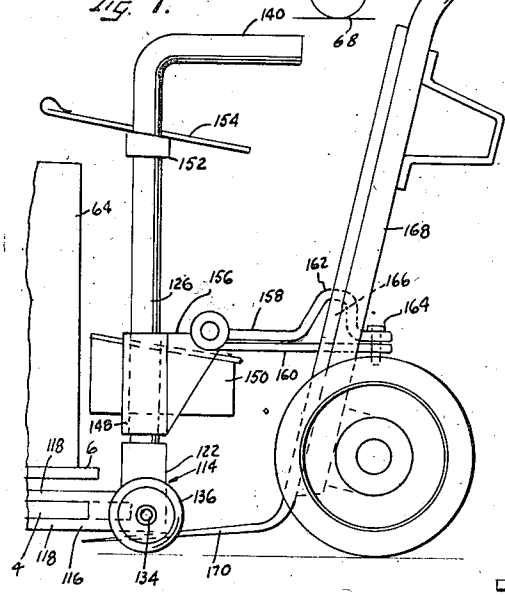



Fig. 10.

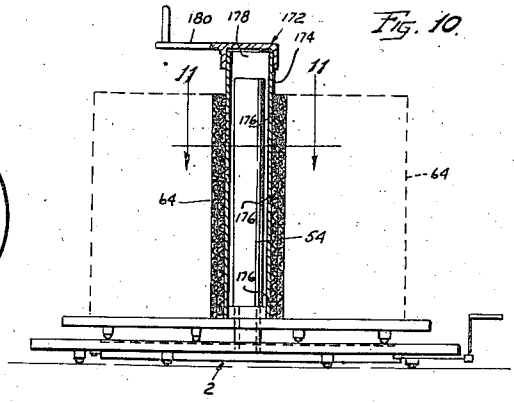
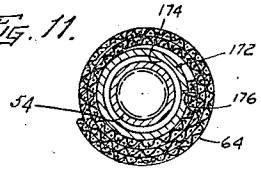



Fig. 11.




INVENTOR.

Jesse C. Owens

Patented Feb. 2, 1943 2,310,036

# UNITED STATES PATENT OFFICE

2,310,036

## CARPET AND FLOOR COVERING TURN-TABLE AND THE LIKE

Jesse C. Owens, Los Angeles, Calif.

Application May 23, 1941, Serial No. 394,877

5 Claims. (Cl. 242—55.2)

My invention relates to carpet roll holding turntables and more particularly to devices which are especially used and adapted for handling a carpet roll of a narrow width, such as ¾ carpet of 27'' in width or 4/4 carpet of 36'' in width, or other suitable floor covering, which is provided in a roll form.

Manifestly an object of my invention is to provide a turntable which is mounted on rollers or suitable coasters adapted for moving and shifting same about the floor, having a center shaft or suitable means provided at its center for holding said carpet roll in a position, so that it may be reeled off upon the floor or where said carpet is to be laid in longitudinal layers and then to be sewed together, permitting said turntable to be shifted and moved to another position in order to lay said carpet as required.

Further object of my invention is to provide said carpet roll holding turntable with a suitable elevating means for raising it off the ground or a floor and for allowing same to be shifted and moved from place to place with said carpet in position, and then, when said turntable is not in an adjusted position for allowing same to rest upon the floor and thereby preventing its shifting and moving when unreeling said carpet off the carpet reel.

Another object of my invention is to provide said turntable with a pair of circular plates which are disposed one over the other, wherein the upper plate forms a turntable upon which said carpet roll is positioned, having at its underside a plurality of rollers which are resting upon and are in contact with the circular ring disposed upon the upper surface of the lower or bottom plate, thus permitting its turning and spinning about its center axis, while said bottom plate at its underside is provided with an adjustable roller means for permitting the entire turntable to be moved and shifted from place to place and in addition said bottom plate having a set of suitable rest plates or brackets positioned therein which are adapted to be adjusted and be set firmly upon the floor, when said turntable is in place and position, while unreeling said carpet from the reel.

Further object of my invention is to provide the uppermost end of the center shaft of said turntable with a suitable plate or table means, which is tiltably and adjustably connected thereto and which may be removable from its position when so desired, so that in general uses it may be adapted for placing thereon the plans and drawings in accordance with which said carpet is to be laid upon the floor.

Another object of my invention is to provide said turntable with a suitable end frame means which is attached to the bottom plate of the apparatus and which may be used for connecting thereto a suitable adjusting or elevating means for raising said turntable off the floor, and in addition, said turntable having a pair of upright extensions which are provided with suitable side arms or handles wherein between a suitable table or writing board may be placed, which is adapted for placing thereon the tools of the workmen or the plans which are used for laying said carpet upon the floor, and also, said upright extensions of said apparatus while thus positioned may be easily utilized for handling and for wheeling said carpet reel holding turntable about the floor when moving same from place to place.

Further object of my invention is to provide said apparatus at the under side of said bottom plate with a suitable bracket means, which may be used and adapted for receiving and for holding in place the lifting end-section of the hand truck or other suitable mobile means and in addition having suitable clamping means connected thereto adapted for attaching and connecting it to the truck frame or its cross member, so that said turntable may be tilted off the floor or the ground and be moved considerable distances without dismantling or removing the carpet roll therefrom.

Other and further objects and advantages of my invention as will hereinafter more fully appear, I attain by the construction herein shown on the drawings and described in the specification, forming a part of my application.

Reference is had to the accompanying drawings in which the similar reference characters denote the similar parts.

In the drawings:

Fig. 1 is the perspective view of the invention, shown in position when unreeling the carpet from the reel.

Fig. 2 is the side elevational view of the apparatus showing the position of the rollers for rolling it about the floor, also, showing the position of the handles and the table attached thereto, including the center shaft with the table tiltably attached to its end.

Fig. 3 is the perspective view of the bottom plate of the apparatus showing the position of the elevating means in relation to its handle brackets.

Fig. 4 is the rear vertical elevational view of the bottom plate showing the relative position of the elevating means of the apparatus.

Fig. 5 is the fragmentary sectional view of the elevating member of the apparatus, taken on the line 5—5 of the Fig. 3, in slightly enlarged form.

Fig. 6 is the fragmentary sectional view of the apparatus showing the position of the upper and the bottom plates, including the elevating means for raising same off the floor and in addition showing the relative position of the bracket means for holding the handles in proper place.

Fig. 6ª is a vertical sectional view slightly enlarged, showing a position of the hinge and the cam member disposed therein, showing same in relation to the elevating means of the apparatus and disposed thereunder, also showing same connected to the bottom plate of said device, and taken on the line 6ª—6ª of the Fig. 6.

Fig. 7 shows the side elevational view and a partly fragmentary view of the turntable including the position of a truck member such as hand truck, showing it in position and in readiness for moving the turntable about the floor, or for raising it off the ground and for transporting it from place to place.

Fig. 8 is the fragmentary and sectional view of the turntable, showing the relative positions of the center shaft and the roller members disposed over the circular plate taken on the line 8—8 of the Fig. 2.

Fig. 9 is the fragmentary sectional view of the turntable showing the position of the circular plate and the rollers disposed thereon, also showing the rollers positioned underneath the bottom plate for rolling said turntable about the floor and in addition showing the elevating means connected thereto for lifting said turntable off the floor by means of a cam member.

Fig. 10 shows the side elevational and partly fragmentary view of the turntable, which is shown without the handle members, having its bottom plate provided with elevating means, showing its center shaft provided with a carpet winding apparatus.

Fig. 11 is the horizontal sectional view of the carpet winding member, taken on the line 11—11 of the Fig. 10.

Describing my invention more in detail, in its broader aspects, said invention comprises a turntable generally designated by numeral 2 which consists of a bottom plate member 4 and having a top plate member 6 positioned thereover.

Said bottom plate member 4 is provided at its upper surface 8 with a suitable circular ring member 10, which is flat in construction and if so desired, it may be set-in within a suitable groove 12 wherein it is fastened in place by means of screws as shown more particularly in Fig. 9, or be held therein in any other suitable manner most adaptable in practice.

The center section 14 of said bottom plate member 4 is provided with a suitable opening or passage 16 which is adapted to receive therein a pair of hub members 18 of the pipe flanges 20 and which are disposed therein with their hub members toward the center, as shown more clearly in Fig. 8, having their flange plates 22 set within suitable countersunk sockets and bolted together by means of suitable bolts 24, so that their flange plates 22 will remain entirely flush with the surface of the bottom plate 4.

The top plate member 6 is smaller in diameter as compared with the size of the bottom plate member 4, having its underside surface 26 provided with suitable coasters 28 which may be several in number and which are mounted therein as shown in Fig. 9, having their rollers or ball members 30 extending downwardly and in justaposition with and to said circular ring member 10 and thereby providing a hard surface upon which said top plate member 6 may turn and revolve while supported in its position by means of said coasters 28.

The center section 32 of said top plate member 6 is also provided with a pair of pipe flanges 34 and 36 respectively, having their hub members 38 disposed in the center passage 40, also having their flange plates 42 set-in within suitable countersunk sockets 44 and thereby providing the flush surface for the entire plate, further, in order to hold said flange plates 42 in position same are held in place by means of suitable bolts 46, as shown.

Said pair of pipe flanges 20 of said bottom plate member 4 and the pipe flanges 34 and 36 of said top plate member 6 are held in a position and in proper alignment one over the other by means of the upwardly extending pipe member 48, as shown in Fig. 8, wherein said pipe flanges 20 are screwed upon the bottom end of said upwardly extending pipe member 48, while the other pair of pipe flanges 34 and 36 are bored out to suit the outside diameter of said pipe member 48 and are free to rotate thereon, thus forming a suitable bearing to prevent a sideward slipping of said top plate member 6, then in order to prevent said top plate member 6 from becoming loose or be lifted over the top end of said pipe 48, a suitable stop collar member 50 is provided at the end 52 of said pipe 48 which is held in place by means of a set screw 53 and thereby allowing said top plate member 6 to rotate and turn about said upwardly extending pipe member 48 and also for allowing said coasters 28 to roll freely over the top surface of said circular ring member 10 and thereby eliminating the rolling friction as much as possible.

Said upwardly extending pipe member 48 is provided with a suitable hole to form a socket which is adapted for holding in place the center guide shaft member 54, which extends upwardly and terminates with a suitable hinge bracket member 56 and is provided with a suitable hinge pin 58 for pivoting same into any position desired, said hinge bracket member 56 is also provided with a suitable flange 60 for attaching same to the board or a table member 62, so that same may be swung to any position as in practice may be most desirable and convenient.

As shown in Figs. 1, 2 and 6, said center guide shaft 54 provides a brace for holding the carpet roll 64 in its proper position while resting upon the surface of said top plate member 6 at its end, then in order to prevent said carpet roll 64 from shifting, the top surface 8 of said plate member 6 may, if so desired, be provided with suitable serrations (not shown) which extend radially from the center and thereby providing sufficient surface friction between said carpet end and said plate member 6 for maintaining it in a proper position and when said top plate member 6 is rotating when unwinding said carpet 64 and while shifting said turntable 2 about the floor.

In order to roll and shift said turntable 2 about the floor, the underside surface 66 of said bottom plate member 4 is provided with a plu-

rality of rollers or suitable coasters 68, which in construction may be of any type, style or size, and which may be readily adaptable for the purpose to provide ease in handling of the apparatus.

In the preferred construction, said rollers 68 are attached to the underside surface of said bottom plate member 4, as shown in Figs. 2 and 5, whereas, as shown in Figs. 6 and 9 said rollers or coasters 68 are lined up in vertical position and are slidably mounted within suitable resting brackets 70, the purpose and the operation of which will be presently described.

In order to prevent sliding and shifting of said turntable 2 when reeling off said carpet 64, the underside surface section 66 of said bottom plate member 4 is provided with a suitable elevator and braking means 72, which may be one or more in number and which when in position may be pivotally mounted and held in place by means of suitable brackets 74, each of which is provided with a suitably extending end, as shown in Fig. 3, to which the control levers 76 are attached and having their ends 78 linked together and held in their relative positions by means of a suitable link member 80, and in addition, having a suitable regulating member 82 connected thereto as shown, which in operation is used for elevating said turntable 2 off the floor and thereby allowing said braking means 72 to rest upon the floor surface, so that the sliding, shifting or moving thereof may be prevented, excepting when same is tripped upwardly and resting upon said rollers or coasters 68 hereinbefore described.

In the Figs. 6 and 9 the construction of the elevating apparatus is shown in a modified form, wherein said resting brackets 70 are mounted upon the underside surface 66 of said bottom plate member 4 and which are fastened thereto and held in place by means of screws or bolts 84, having their ends 86 extending downwardly and provided with a suitable recess 88 for forming a ledge, and in addition said brackets 70 having their center section bored out for holding in place a suitable guide and wear bushing member 90.

Said guide bushing 90 extends upwardly through the thickness of the bottom plate member 4 which is for holding said coaster 68 in a slidable position, in addition said coaster 68 is provided with a suitable shoulder member 92 for forming a chamber or a space 94 adapted to receive therein a suitable coil spring member 96 of which one end thereof is adapted to bear against said shoulder member 92 while its other end is resting against said recess 88 and thereby controlling the position of said coaster member 68 within said guide bushing 90 and said resting bracket member 70, as shown.

Directly above said guide bushing 90 including said coaster 68 which is slidably disposed therein, a suitable longitudinal cam member 98 is slidably mounted thereover and provided with a suitable cam raise 100 adapted for raising and for lowering and otherwise controlling the position of said coaster 68, then in order to hold and maintain the required position of said coaster 68 in relation to said resting bracket 70 said cam member 98 is mounted in and provided with a suitable guide bracket 102, as shown in Fig. 9.

Also, if so desired, said coaster and resting bracket assembly may be provided with a suitable cam member 104, as shown in Figs. 6 and 6a, which is hingedly mounted thereover and held in place by means of a suitable hinge member 106, while said cam member 104 is provided with suitable control lever or handle 108 adapted for a sideward movement thereof and thereby regulating its position and for elevating or tripping said turntable 2.

As shown in Figs. 6 and 6a said cam member 104 is broken off for the purpose of illustration, wherein one end thereof, generally shown as at 110, is shown engaging said coaster 68 and holding it in an adjusted and elevated position, while as shown at 112, said coaster 68 is in an upwardly tripped position in order to allow said coaster bracket 70 to rest upon the floor (shown in dotted lines) and thereby preventing its shifting or moving while unreeling said carpet 64.

In order to transport or move said turntable 2 from place to place, said bottom plate member 4 is provided with a suitable wheeling member, generally designated by numeral 114 which comprises a pair of brackets 116 each having a suitably constructed fork end 118 adapted for straddling said bottom plate member 4 and in order to hold said bracket 116 in place, suitable bolts 120 are provided therein for bolting same in position, as shown.

The rear section 122 of said brackets 116 is provided with a hub member 124 which is bored out to a suitable size and adapted for holding the upright pipe section 126 in an upright position and is also provided with a suitable set screw member 128 for locking said pipe section 126 in place.

Also at the bottom corner end 130 a suitable hub 132 is provided which is adapted for receiving and holding therein a spindle member 134 and which is for the purpose to hold and maintain a suitable wheel member 136 in place, the rim of which may be made out of resilient material such as rubber and the outside diameter in its preferred form is sufficiently small, as shown in Figs. 2 and 6, so that it may not touch the floor surface while said turntable 2 is either resting upon the floor or is elevated off the floor surface as shown in Figs. 1, 2, 4, and 5, or when resting upon the resting brackets 70 as shown in Figs. 6 and 9 respectively.

Said upright pipe extension 126 extends upwardly to any desired height as in practice may be most desirable, preferably, however, not to reach higher than the maximum width of the carpet 64, thus allowing the upper ends 138 of said pipe 126 to be bent so as to form a suitable handle 140, or, if so desired, said pipe 126 may terminate at the end section 138 having its hollow section provided with a suitable rod member 142, see Fig. 6, the bottom end of which, as at 144 is flared out to prevent its slipping out and for allowing it to turn sidewardly, while the outwardly extending rod end is bent or curved as shown to provide suitable handle 146 with which to handle said turntable.

For the purpose to facilitate workmen, in handling their tools and equipment required in their work, the mid-section member 147 of said upright pipe member 126 is provided with a suitable bracket member 148 which is for the purpose to hold the tool box 150 in place, while at its top section and nearly at the end 138 another set of brackets 152 are provided which are adapted for holding a suitable plate or a table board 154 in place, which in use may be utilized for any suitable purpose as in practice may be most desirable and be found useful.

In the Fig. 2 as shown in dotted lines, said turntable 2 is tilted rearwardly off the coasters

68, thus while in that position and bearing upon the wheel members 136 same may be wheeled over the floor with ease, however, at times when it may be necessary to transport and move said turntable 2 a considerable distance, same may be connected to a suitable mobile member, such as a hand truck or the like, therefore in order to facilitate such handling of the apparatus, said upright pipe members 126 are provided with suitable brackets 156, each having a suitable hinge bar 158 and 160, of which one of them is provided with a loop 162 also each having a socket or hole at the end which holds and receives therein the lock bolt member 164.

Said loop member 162 is for the purpose to engage the cross-bar 166 of the hand truck 168, or, it may be used for attaching said turntable 2 to a suitable member of the mobile means which may be used for that purpose, allowing its lift end 170 to be placed and held in place at the underside section of said brackets 116 and thus facilitating the handling and moving of said turntable 2 when empty or when having a roll of carpet thereon.

In the Fig. 10 said turntable 2 is shown provided with a center guide shaft 54 wherein the hinged bracket 56 is removed and eliminated therefrom, having however a suitable carpet re-wind member 172 provided therein, which comprises a longitudinal tube member 174 disposed over said shaft member 54 and extending downwardly toward the bottom section thereof, also having a plurality of suitable hook members 176 provided at its outside surface section which are adapted for hooking and for holding the end of the carpet in place, also, said tube member 174 at its uppermost end section 178 is provided with a handle or crank member 180, so that it may be used for turning and for winding said carpet 64 upon said shaft 54 and for winding same upon the top plate member 6.

When said carpet 64 is wound in its place, then said tube member 174 may be released from its hooked position by reversing the movement of said crank member 180 and thereby un-hooking said hook member 176 and releasing its gripping position, whereupon said re-wind member 172 may be removed.

If so desired, said re-wind member 172 may be used for reeling and winding the un-cut carpet upon the top plate member 6 of said turntable 2, or if so desired, same may be used for re-winding and measuring the carpet lengths or for transferring said carpet 64 from one turntable to another or for winding it upon a suitable core for storage.

While I have thus described my invention with great particularity, it may be clear that the same may be modified throughout a wide range.

I accordingly do not propose to be limited to the exact details of construction herein shown on the drawings and described in the specification, but reserve the right in practice to make the necessary changes and modifications therein which may come within the scope of the appended claims.

I claim as my invention:

1. In the apparatus of the class described comprising a pair of plates disposed one over the other, a center bearing means provided in one of said plates for permitting its turning, a plurality of roller means mounted at the under side of the upper plate and disposed at the surface of the bottom plate for reduction of the friction therebetween, a plurality of roller means mounted at the underside of said bottom plate for facilitating the moving and shifting of the apparatus, a pair of elevating means inter-connected together and positioned at the underside of said bottom plate for elevating said rollers and for braking and holding said apparatus in stationary position, and a regulating means connecting said last mentioned means for controlling and regulating their position and for tripping same off its elevated position when not in use.

2. In the apparatus of the class described comprising a pair of plates disposed one over the other, a center bearing means in said pair of plates for permitting their turning, a removable center guide shaft means disposed in said center bearing means, a plurality of roller means disposed between said plates for preventing the friction therebetween, a plurality of roller means mounted at the underside of the bottom plate for permitting the moving and shifting of the apparatus, an elevating means associated with the bottom plate of said apparatus for raising same including said roller means off the floor and for holding said apparatus in a stationary position, a pair of brackets connected to said bottom plate, wheels mounted in said brackets, a pair of upright extension means connected to said brackets having their uppermost ends terminating with handles for raising and for wheeling said apparatus upon said wheels, and regulating means connecting said elevating means for controlling and regulating its position and for tripping same off its elevated position when not in use, substantially as described.

3. In the apparatus of the class described adapted for reeling on the carpet roll and for holding it in position while un-reeling same, comprising, a pair of plates one of which is rotatably mounted over the other, a bearing member in the center of said plates for holding same in their concentric positions, a center shaft extending out of said center bearing, an elevating and braking means connected with the bottom plate of said apparatus for elevating same and for holding said apparatus in stationary position while unwinding said carpet therefrom, a re-wind tube rotatably mounted upon said center shaft, a plurality of hook means connected to said re-wind tube for holding the end of said carpet in position while winding same thereon, and crank means connected to the upper end of said re-wind tube for turning said re-wind tube and said center shaft together while winding said carpet thereon, substantially as described.

4. In the apparatus of the class described adapted for reeling and for holding the carpet roll thereon, comprising a bottom plate, a shaft bearing mounted in the center of said bottom plate, a circular plate positioned upon the upper surface of said bottom plate, a top plate member revolubly mounted over said bottom plate, a plurality of roller means mounted at the underside of said top plate and positioned in juxtaposition to said circular plate for reducing the friction between said bottom plate and said top plate, a plurality of roller means mounted at the underside of said bottom plate for moving and for shifting said apparatus when in carpet reeling or in un-reeling position, a set of elevating and braking means mounted at the underside of said bottom plate for elevating said apparatus off said roller means and for holding said apparatus in a stationary position, a regulating means connecting said elevating and braking means for controlling and regulating its position and for tripping same

off its elevated position when not in use, a removable center shaft mounted in said shaft bearing for holding said carpet roll in position and upon said top plate, a pair of bracket means connected to said bottom plate having wheels connected thereto, a pair of upright pipe extensions mounted in said bracket means each terminating with a handle, a table member mounted between said upright pipe extensions, a tool box mounted underneath said table member and adjustably connected with said upright pipe extensions, and adjustable table member mounted upon the end of said center shaft, substantially as described.

5. In the apparatus of the class described adapted for holding the carpet roll thereon comprising a top and the bottom plate members, a circular plate member mounted upon the top surface of said bottom plate member, a plurality of rollers mounted at the underside of said top plate member and disposed upon said circular plate member for reducing the friction between said plates, a center bearing member in said bottom plate member having its end extending upwardly, a center bearing in said top plate member for revolving and turning about said extended end of said center bearing in said bottom plate member, a center guide means disposed in said extended end of said center bearing member, a plurality of roller means mounted at the underside of said bottom plate for moving and for shifting said apparatus about the floor surface, a set of elevating means mounted at the underside of said bottom plate for lifting said apparatus off the floor surface and for holding same in a stationary position, means connected with said set of elevating means for controlling the position of said elevating means, a bracket means connected to said bottom plate member, an extension pipe member connected to said bracket means for controlling the position of said apparatus when resting upon said roller means, a center shaft member connected to said center bearing member for holding said carpet in central position while winding or un-reeling said carpet, substantially as described.

JESSE C. OWENS.