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ROTATABLE BASE

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FIG. 1

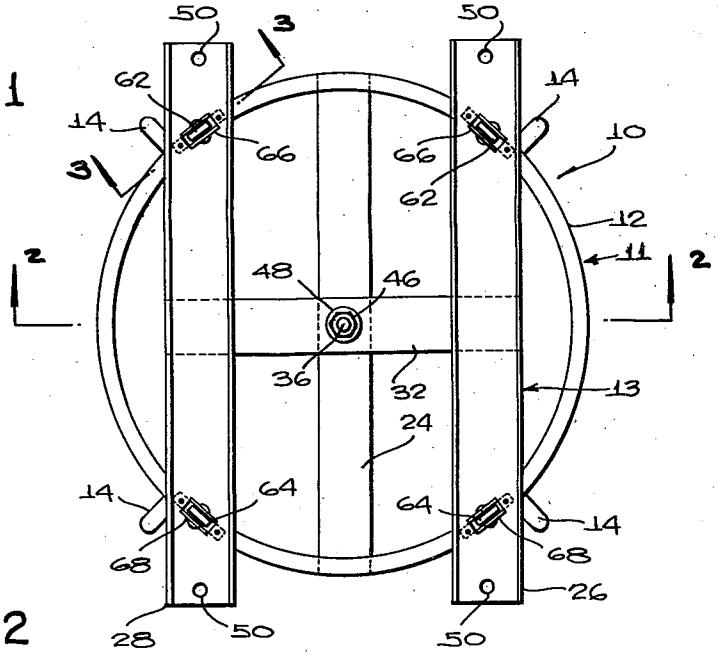


FIG. 2

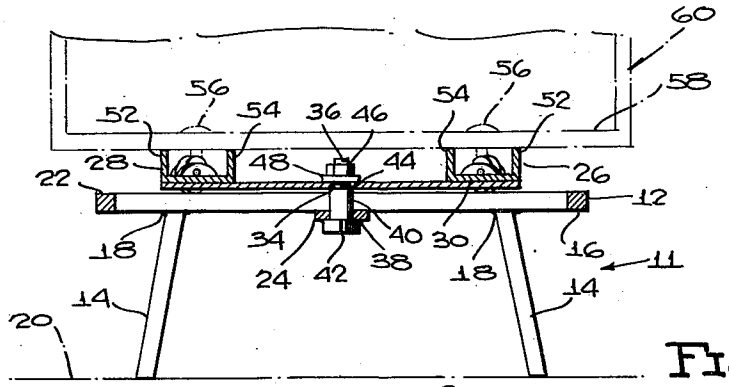


FIG. 3

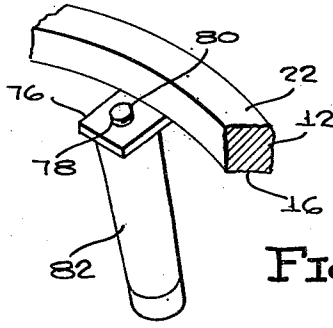
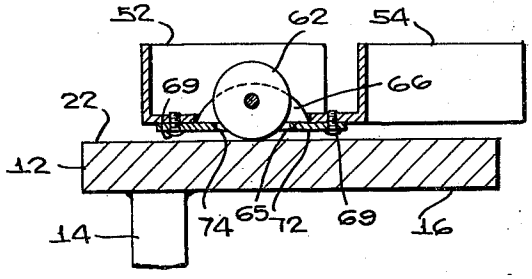


FIG. 4



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ROTATABLE BASE

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5 Claims. (Cl. 248—349)

This invention relates to an improved rotatable base for such as cabinet or console type television sets.

It is an object of this invention to provide a simple and more efficient rotatable base for a television set which prevents rocking of heavy television sets when supported thereon, and which can be made in attractive and serviceable forms at low cost.

Another object of this invention to provide a rotatable base of this kind which can be securely installed on to a wooden cabinet of either a table model or console model television set.

A further object of this invention is to provide a rotatable base of this kind which can be fitted with either metal or wooden legs to provide the required or desired height of the cabinet above a supporting surface, such as a floor.

Other objects and advantages will become apparent from a consideration of the following detailed description, forming the specification, taken in conjunction with the accompanying drawings, in which:

Figure 1 is a top plan view of a rotatable base embodying this invention;

Figure 2 is a transverse vertical cross sectional view taken substantially along line 2—2 of Figure 1, showing in phantom lines a television set cabinet thereon;

Figure 3 is an enlarged fragmentary cross sectional view taken substantially along line 3—3 of Figure 1; and

Figure 4 is a similarly enlarged fragmentary perspective view showing an alternate mounting of support legs for the base.

With continued reference to the drawings, the illustrated base, generally designated 10, comprises a table 11 composed of a horizontally disposed preferably metal ring 12 to whose underside 16 is secured a plurality of support legs 14. Since the legs 14 are preferably made of metal, they may be secured to the ring 12 as by being welded thereto as at 18, and the legs extend downwardly and outwardly therefrom to provide a solid support for the ring and to maintain the ring in a horizontal plane with respect to a support surface which may be a floor 20.

The upper surface 22 of the ring 12 defines a trackway, as will presently appear.

A diametrical support and reinforcing plate 24 extends across the ring and is secured at its opposite ends to the underside 16 of the ring, as by being welded thereto.

The base 10 further comprises a rotor 13 comprising a pair of spaced parallel cabinet support members 26 and 28 which are in the form of U-shaped metal channel bars having the undersides of their webs 30 secured centrally intermediate the ends of the channel bars upon the upper surface of a flat cross bar 32 adjacent opposite ends of the cross bar, as by being welded thereto.

The cross bar 32 is provided centrally intermediate its ends with an opening 34 and the reduced externally threaded upper portion 36 of a bolt 38 which extends upwardly therethrough. The larger diameter shank portion 40 of the bolt passes through a suitably formed opening in the support plate 24, and the head 42 of the bolt is secured

to the lower surface of the plate 24 as by being welded thereto. The cross bar 32 rests rotatably upon the shoulder 44 on the upper end of the shank portion 40 of the bolt 38. A nut 46 and a washer 48 are engaged on the threaded bolt portion 36 to secure the cross bar 32 on the bolt. The shoulder 44 being on a level slightly above the ring 12, the rotor 13 is rotatably supported free of the table 11 for rotation through 360 degrees.

The channel bars 26 and 28 are provided in their webs 30 with bolt holes 50 adjacent the opposite ends thereof and midway between their side flanges 52 and 54 for the reception of bolts 56 (Figure 2) for securing the bottom 58 of a television set cabinet, generally indicated at 60, upon the channel bars, so that the cabinet is installed on the rotor 13.

A pair of similar rollers 62 and 64 are rotatably mounted on respective roller support brackets 66 and 68 secured, as indicated at 69, to the undersides of the webs 30 of the channel bars 26 and 28 adjacent opposite ends thereof at points spaced inwardly from the bolt holes 50. The rollers 62 and 64 of the channel bars depend through suitably formed openings 65 provided in the webs 30 thereof, as shown in Figures 2 and 3. Thus, as clearly shown in Figure 3, the rollers are disposed to ride upon the trackway defined by the surface 22 of the ring 12. The rollers are disposed obliquely with respect to the longitudinal center lines of the channel bars, as shown in Figure 1, so that they follow the periphery of the ring 12 as the rotor 13 is rotated about the vertical axis of the bolt 38.

The roller brackets have base plates 72 which engage the undersides of the channel bar webs 30 and have openings 74 through which lower portions of the rollers depend and bear upon the trackway 22.

In Figure 4, there is shown a modified form of the invention wherein the ring 12 is provided with inwardly extending ears or lugs 76, spaced angularly therearound and secured to the underside 16 thereof. Each of the ears or lugs is provided with a centrally disposed, internally threaded hole 78 for the reception therein of an externally threaded stud 80 extending centrally longitudinally from the upper end of a tapering cylindrical leg 82, preferably made of wood. Thus, the ring 12, in the form of the invention shown in Figure 4, will be supported above the floor or support surface 20 upon a plurality of angularly spaced legs 82 detachably carried by and depending from the ring 12.

While there are shown and described herein preferred embodiments of the invention, it is to be understood that the structure is susceptible to change and modification within the practicability of the invention and is limited only by the scope of the claims appended hereto.

What is claimed is:

1. In a rotatable base, a table comprising a horizontal ring having an upper surface and an underside, a diametrical support plate extending across said ring and secured at its ends to the ring, a bolt secured to said support plate and concentric to said ring, said bolt having a shank rising from the support plate and terminating in a reduced threaded upper end portion, a shoulder on said shank between the shank and said threaded upper end portion, a rotor comprising a diametrical cross bar having a central opening rotatably receiving said threaded upper end portion, said cross bar resting rotatably upon said shoulder, a nut on said threaded upper end portion bearing downwardly upon said cross bar, a horizontal support fixed on and extending crosswise of said cross bar, and a roller on said support bearing rollably upon the upper surface of said ring.

2. In a rotatable base, a table comprising a horizontal ring having an upper surface and an underside, a diametrical support plate extending across said ring and secured

at its ends to the ring, a bolt secured to said support plate and concentric to said ring, said bolt having a shank rising from the support plate and terminating in a reduced threaded upper end portion, a shoulder on said shank between the shank and said threaded upper end portion, a rotor comprising a diametrical cross bar having a central opening rotatably receiving said threaded upper end portion, said cross bar resting rotatably upon said shoulder, a nut on said threaded upper end portion bearing downwardly upon said cross bar, a horizontal support fixed on and extending crosswise of said cross bar, and a roller on said support bearing rollably upon the upper surface of said ring, said support comprising a pair of laterally spaced parallel support bars.

3. In a rotatable base, a table comprising a horizontal ring having an upper surface and an underside, a diametrical support plate extending across said ring and secured at its ends to the ring, a bolt secured to said support plate and concentric to said ring, said bolt having a shank rising from the support plate and terminating in a reduced threaded upper end portion, a shoulder on said shank between the shank and said threaded upper end portion, a rotor comprising a diametrical cross bar having a central opening rotatably receiving said threaded upper end portion, said cross bar resting rotatably upon said shoulder, a nut on said threaded upper end portion bearing downwardly upon said cross bar, a horizontal support fixed on and extending crosswise of said cross bar, said support comprising a pair of laterally spaced parallel support bars, a pair of rollers mounted on each support bar and bearing rollably upon the upper surface of said ring.

4. In a rotatable base, a table comprising a horizontal ring having an upper surface and an underside, a diametrical support plate extending across said ring and secured at its ends to the ring, a bolt secured to said support plate and concentric to said ring, said bolt having a shank rising from the support plate and terminating in a reduced threaded upper end portion, a shoulder on said shank between the shank and said threaded upper end portion, a rotor comprising a diametrical cross bar having a central opening rotatably receiving said threaded upper end portion, said cross bar resting rotatably upon said shoulder, a nut on said threaded upper end portion bearing downwardly upon said cross bar, a horizontal support fixed on and extending crosswise of said cross bar, said support comprising a pair of laterally spaced parallel channel bars having webs and upstanding side flanges, the webs of the channel bars having openings at their opposite ends, and roller brackets secured to the channel bar webs in the regions of said openings having rollers depending through said openings and bearing rollably upon the upper surface of said ring.

5. In a rotatable base, a table comprising a horizontal ring having an upper surface and an underside, a diametrical support plate extending across said ring and secured at its ends to the ring, a bolt secured to said support plate and concentric to said ring, said bolt having a shank rising from the support plate and terminating in a reduced threaded upper end portion, a shoulder on said shank between the shank and said threaded upper end portion, a rotor comprising a diametrical cross bar having a central opening rotatably receiving said threaded upper end portion, said cross bar resting rotatably upon said shoulder, a nut on said threaded upper end portion bearing downwardly upon said cross bar, a horizontal support fixed on and extending crosswise of said cross bar, and a roller on said support bearing rollably upon the upper surface of said ring, said support comprising a pair of laterally spaced parallel support bars, in combination with a television set cabinet having a bottom resting upon said support bars, and fastening holes in the support bars and elements extending therethrough engaging the cabinet bottom and securing the cabinet in place on the support bars.

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