March 27, 1951 W. E. VOGEL 2,546,530

FRAME STRUCTURE AND SUPPORT THEREFOR

Filed March 15, 1948

Fig. 1

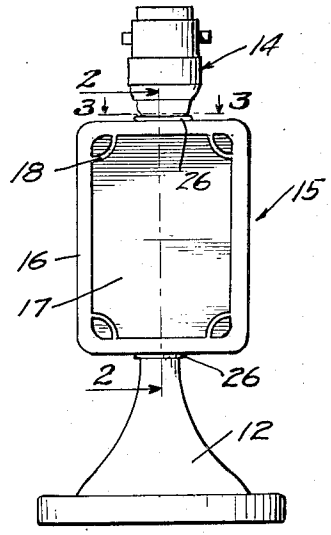


Fig. 2

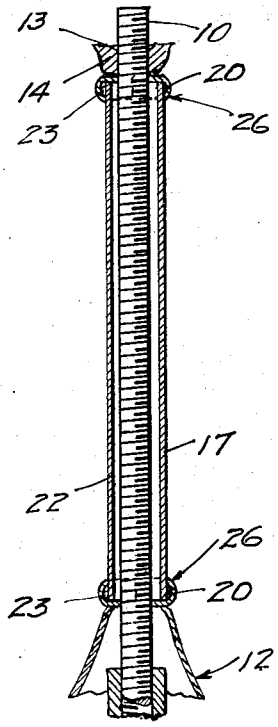
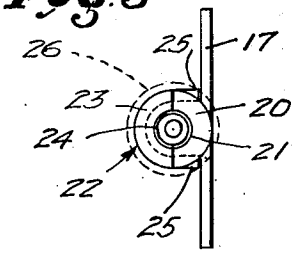


Fig. 3



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FRAME STRUCTURE AND SUPPORT THEREFOR

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2 Claims. (Cl. 40—125)

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This invention relates to a display device and particularly pertains to a frame structure and support therefor.

In the use of display devices which comprise a frame within which a picture, price tag, or other such articles might be held it is desirable to provide a structure which is simple in design and which may be easily assembled to be mounted upon a standard or other type of supporting member.

It is the principal object of the present invention therefore to provide a frame structure within which a sheet of material to be displayed may be easily mounted and which frame structure may be quickly assembled upon or removed from a cylindrical support disposed at any desired angle to the horizontal. The present invention contemplates provision of a frame within which an article to be displayed may be easily inserted and which frame is designed to lie parallel to a cylindrical supporting member and to be held in position thereon by a back piece and opposite end clamping means.

The invention is illustrated by way of example in the accompanying drawings, in which:

Figure 1 is a view in elevation showing the application of the present invention to the standard of a lamp structure.

Fig. 2 is an enlarged fragmentary view in section as seen on the line 2—2 in Fig. 1 and shows the details of construction of the clamping means.

Fig. 3 is an enlarged view in transverse section as seen on the line 3—3 in Fig. 1 and shows the manner in which the frame and back piece are assembled around the cylindrical supporting member.

In describing the construction of the device which embodies the present invention and in explaining one manner in which it may be used the structure has been here illustrated as mounted upon the standard of a lamp. It is to be understood, however, that the frame structure could be conveniently mounted upon any other cylindrical support when the support is disposed either horizontally or vertically.

Referring more particularly to the drawings, 10 indicates a cylindrical supporting member here shown as being threaded at its opposite ends, the lower end of the supporting member 10 is threaded into the central threaded bore 11 of a lamp base 12, and the upper end of the supporting member 10 is shown as being threaded into the central threaded bore 13 of a lamp socket 14. It is to be understood that when the

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device is not used upon a lamp socket nuts or other threaded members may be substituted for the base 12 and the socket 14 and will provide the same purpose as here explained which is to clamp the device upon the supporting member 10. The display device is generally indicated at 15. It includes an outer frame 16 which is preferably molded of plastic material and is integral with a flat back member 17 against which an article to be displayed may rest. The back member 17 is offset rearwardly from the plane of the front face of the frame 16 and thus provides an area circumscribed by the frame. At the corners of the frame are fastening members 18 which are here shown as representing a quadrant of a circle and are offset from the back face 17 so that the corners of a photograph or display card 19 may be tucked under the holding members 18 to hold the card in place. At the upper and lower edges of the frame structure are semicircular locking members 20. The opposing faces of the locking members 20 lie in a plane coincident with the respective upper and lower edges of the frame 16 and project thereabove. They lie in parallel planes normal to the plane of the frame 16 and have a semicircular seat 21 which agrees in radius with the radius of the diameter of the supporting member 10. Thus, as shown in Fig. 3, the supporting member will be partially embraced by each one of the locking members 20. Complementary to the arcuate locking members 20 and embracing the supporting member 10 is a back piece 22. This back piece has an overall length agreeing with the distance between the outer end faces of the two locking members 20. Thus the opposite ends of the back member 22 will lie in the same plane as the outer ends of the locking members 20. The ends of the back member are formed with semicircular locking portions 23 which are complementary to the locking portions 20 and have a semicircular seat 24 which also embraces the supporting element 10. The length of the back member 22 which agrees with the locking portion 23 is semicircular throughout and provides a tubular housing within which the supporting element 10 is inclosed. The opposite edges of the arcuate section of the back members are continued tangent to its outer surface by parallel extensions 25 which rest against the back face of the frame structure 16. These extensions are notched so that they will fit between the locked members 20 and provide a complete inclosure for the supporting element 10. It will thus be evident that the locked members 20 and 22 provide an annular extension

beyond the opposite ends of the frame 16. These extensions receive lock rings 26. One of the rings is mounted on each end of the supporting member and is cup-shaped with the cupped portions opposing each other. The cupped ends of the rings fit over locking members 20 and 22 and hold them in an assembled position. The entire structure is then held by tightening the base member 12 onto one end of the support 10 and the socket 14 upon the other end of the support 10. As previously explained the frame structure may be mounted upon any desired support 10 although it has here been shown as being mounted upon a vertical standard of a lamp.

It will thus be seen that the invention here disclosed is simple in construction, that it may be easily molded from plastic material, and that it may be readily clamped into position and removed therefrom without the use of complicated fastening means.

While I have shown the preferred form of my invention as now known to me, it will be understood that various changes may be made in combination, construction and arrangement of parts by those skilled in the art, without departing from the spirit of my invention as claimed.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. In combination with a longitudinally extending supporting member having threaded sections adjacent its opposite ends, a display structure adapted to be mounted thereon, said structure comprising a rigid frame adapted to lie against one side of said longitudinal support, a pair of semicircular locking members formed at opposite ends of said frame and protruding

therefrom, said locking members being formed with arcuate seats adapted to conform to the supporting member, a backing member disposed upon the opposite side of the supporting member from the frame structure and having arcuate end portions complementary to the arcuate locking members carried by the frame whereby said arcuate end portions and the locking members will embrace the supporting member, cup-shaped members freely mounted upon opposite ends of the supporting member and into which said locking means and the arcuate ends of the backing member protrude, and threaded members upon opposite ends of the supporting member to engage said cups and force the cups toward each other whereby the frame structure and the backing member will be held in an assembled position upon the supporting member.

2. The structure of claim 1 including the backing member being formed with opposite side walls extending around the supporting member and abutting agianst the back face of the frame structure whereby the supporting member will be concealed.

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