June 16, 1964 J. FELDMAN 3,137,470

BRACKET FOR MOUNTING ON A HOLLOW POST

Filed Oct. 1, 1962

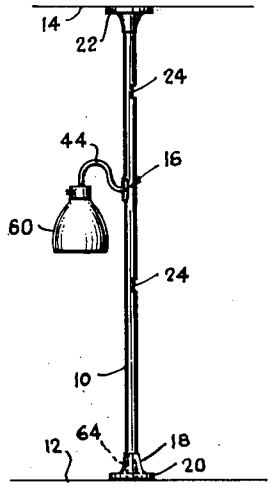


Fig. 1

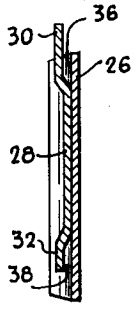


Fig. 8

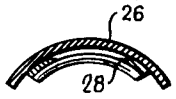


Fig. 7

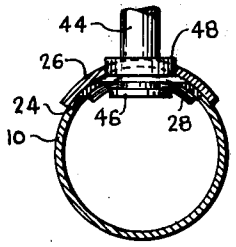


Fig. 6

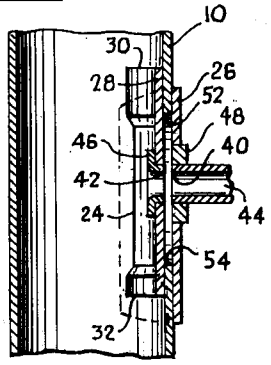


Fig. 5

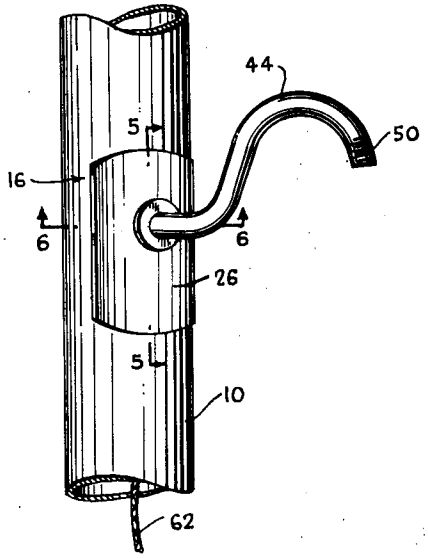


Fig. 2

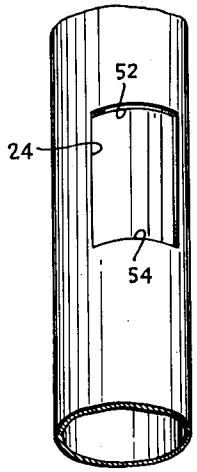


Fig. 3

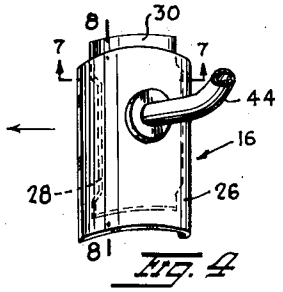


Fig. 4

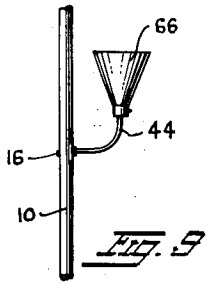


Fig. 9

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BRACKET FOR MOUNTING ON A HOLLOW POST

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This invention relates generally to fixture supports and more particularly to a detachable adapter bracket assembly for supporting articles for display on a tubular body.

It has become common practice to display merchandise in mercantile establishments on a tubular support reaching from the floor to the ceiling, the tubular support having a number of cutouts for detachably receiving brackets for supporting fixtures. However such brackets are likely to become accidentally dislodged. It is a principal object of the present invention to provide a bracket assembly for use with a tubular support and which permits easy removal from the tubular support but which makes accidental dislodgment unlikely.

Another object is to provide a detachable bracket assembly which is easily removable but which resists accidental dislodgment even when substantial force is exerted thereon.

A further object of the invention is to provide a removable adapter bracket assembly which is adapted to support articles of merchandise for display in merchandise establishments.

Yet another object is to provide an adapter bracket assembly on which an article may be rigidly but removably attached.

It is an additional object to provide an adapter bracket assembly which can be fastened to a tubular support easily and without the use of tools or mechanical fastening elements such as crews or nails.

Still another object of the invention is to provide an adapter bracket assembly which is simple in construction and which can be manufactured and sold at a reasonable cost.

For further comprehension of the invention and of the objects and advantages thereof reference will be had to the following description and accompanying drawings and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

FIG. 1 is a side elevational view of a tubular support with an adapter bracket assembly embodying the present invention applied thereto.

FIG. 2 is an enlarged perspective view of a part of the tubular support of FIG. 1 showing the adapter bracket assembly in position, the lamp being omitted.

FIG. 3 is a view similar to FIG. 2 the adapter bracket assembly being omitted.

FIG. 4 is a perspective view of the adapter bracket assembly.

FIG. 5 is an enlarged vertical sectional view taken on the plane of the line 5—5 of FIG. 2.

FIG. 6 is a cross-sectional view taken on the plane of the line 6—6 of FIG. 2.

FIG. 7 is a cross-sectional view taken on the plane of the line 7—7 of FIG. 4.

FIG. 8 is a vertical sectional view taken on the plane of the line 8—8 of FIG. 4.

FIG. 9 is a view similar to FIG. 2 but showing a modified form of adapter bracket assembly.

Referring in detail to the drawings, in FIG. 1 an upright metal tubular post **10** is shown extending from the floor **12** to the ceiling **14** with an adapter bracket assembly indicated generally at **16** applied thereto. The bottom of the post **10** is shown threaded into an internally screw threaded socket **18** having a base **20** suitably fastened

to the floor. The top of the post is threaded into an annular member **22** suitably fastened to the ceiling **14**.

The post is adapted to support merchandise in display condition and for this purpose is formed with a plurality of rectangular shaped cutouts **24**. In accordance with the present invention, the adapter bracket assembly **16** is detachably mounted in a cutout **24**.

This bracket assembly **16** comprises an outer metal plate **26** rectangular in plan and slightly arcuate in cross-section, the dimensions of the plate being slightly larger than the dimensions of the cutout **24**. An inner plate **28** of similar shape but smaller in dimensions than the outer plate is rigidly clamped to the outer plate and is arranged so that its top end **30** extends above the top end of the outer plate. This arrangement leaves the bottom end **32** of the inner plate spaced inwardly of the bottom end of the outer plate. Furthermore, the top end **30** of the inner plate is bent inwardly of the outer plate, out of the plane of the body of the inner plate, providing a clearance **36** between the offset top end of the inner plate and the top end of the outer plate, the clearance serving as a socket. The bottom end **32** of the inner plate is also bent inwardly out of the plate of the body of the inner plate providing a clearance **38** between the offset bottom end of the inner plate and the body of the outer plate. The clearance **38** serves as a socket.

The plates **26** and **28** are formed centrally of their contacting portions slightly above the middle thereof with aligned holes **40** and **42**, respectively. An elongated generally S-shaped pipe **44** has one end extending through the aligned holes. A washer **46** is soldered or otherwise suitably fixed around the extreme inner end of the pipe sealing the hole **42** in the inner plate. Another washer **48** is soldered or otherwise suitably fixed around the pipe **44**, closely spaced outwardly of the washer **46**, and sealing the hole **40** in the outer plate. The washers **46** and **48** clamp the plates **26** and **28** to each other. The outer end of the pipe **44** is externally screw threaded as indicated at **50**.

The plates **26** and **28** together with the pipe **44** constitute an adapter bracket assembly which can readily be attached to and detached from a tubular support having an opening or cutout such as the post **10** with openings or cutouts **24**. In order to attach the assembly, the joined plates **26** and **28**, as a unit, using the pipe **44** as a handle, are placed over the cutout and the protruding top end **30** of the inner plate **28** is inserted through the top of the cutout. The unit is then lifted upwardly so that the top edge **52** of the cutout **24** is received in the clearance **36** between the top ends of the plates. The unit is then swung inwardly using the top edge **52** as a fulcrum point bringing the offset bottom end **32** of the inner plate **28** through the cutout; and inwardly of the bottom edge **54** of the cutout. The unit is next slid downwardly so that the bottom end **32** of the inner plate **28** slides under the bottom edge **54** of the cutout **24** and the bottom end of the outer plate **26** slides over said bottom edge whereby the top edge **52** of the cutout becomes interlocked in the socket **36** and the bottom edge **54** of the cutout becomes interlocked in the socket **38** whereby the bracket assembly is rigidly attached to the post **10** against accidental dislodgment, but can be manually detached if desired. The dimensions of the inner plate **28** and of the cutout **24** permit this operation.

An electric lamp **60** is shown mounted on the outer end of the pipe **44** for display purposes. The conductors, shown as a cable **62**, for such electric lamp or other electrical fixture supported on the pipe **44** pass inwardly through an opening **64** in the base **20**, upwardly through the tubular post **10** and outwardly through the pipe **44** to the lamp or other fixture.

In FIG. 9, a modification of the invention is illustrated

wherein the pipe 44 is curved upwardly and supports an ornamental plug 66 on the open end thereof. The pipe and plug serve as a hat rack or the like. In all other respects, the modification is the same as the form of invention shown in FIG. 1 and similar reference numerals are used to indicate similar parts.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and that various changes and modifications may be made within the scope of the invention as defined in the appended claims.

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

1. A bracket assembly for demountable attachment to an upright tubular post having a plurality of spaced cutouts therein, comprising an outer rectangular curved plate, an inner similarly shaped plate nested in said outer plate, the ends of the inner plate being offset inwardly of the outer plate providing clearance at such ends serving as sockets for interlocking with the edges of a cutout in the tubular post, a device attached to the plates and projecting radially thereof for detachably supporting an article, and spaced washers at one end of the device clamping the nested plates to each other.

2. A bracket assembly for demountable attachment to an upright tubular post having a plurality of spaced cutouts therein, comprising an outer rectangular curved plate, an inner similarly shaped plate nested in said outer plate, said inner plate having smaller dimension than said outer plate, said plates arranged so that one end of the inner plate protrudes outwardly of the adjacent end of the outer plate, the ends of the inner plate being offset inwardly of the outer plate providing clearances at such ends serving as sockets for interlocking with the end edges of a cutout in the tubular post, a pipe attached to the plates and projecting radially thereof for detachably supporting an article, and spaced washers on the inner end of the pipe for clamping the plates to each other; the outer end of the pipe being screw threaded to receive the threaded portion of a supported article.

3. A bracket assembly for demountable attachment to an upright tubular post having a plurality of spaced cutouts therein, comprising an outer rectangular curved plate, an inner plate having smaller dimensions than said outer plate, said plates arranged so that one end of the inner plate protrudes outwardly of the adjacent end of the outer plate, the ends of the inner plate being offset inwardly of the outer plate providing clearances at such ends serving as sockets for interlocking with the end edges of a cutout in the tubular post, a pipe attached to the plates and projecting radially thereof for detachably supporting an article, and spaced washers on the inner end of the pipe for clamping the plates to each other, the outer end of the pipe being screw threaded to receive the threaded portion of a supported article, said outer plate having larger dimensions than said cutout whereby said cutout is concealed, said inner plate being longer than said cutout but narrower.

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