Nov. 7, 1967 D. SIEGEL 3,351,208

DISPLAY STAND FOR SUNGLASSES AND THE LIKE

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Fig. 7

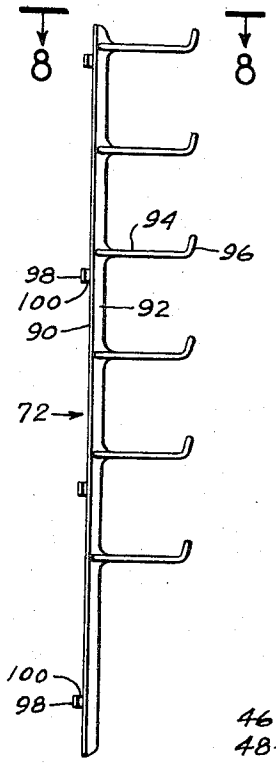


Fig. 8

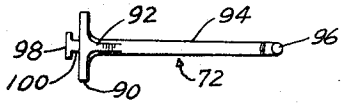


Fig. 11

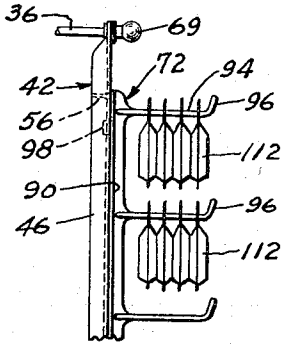


Fig. 15

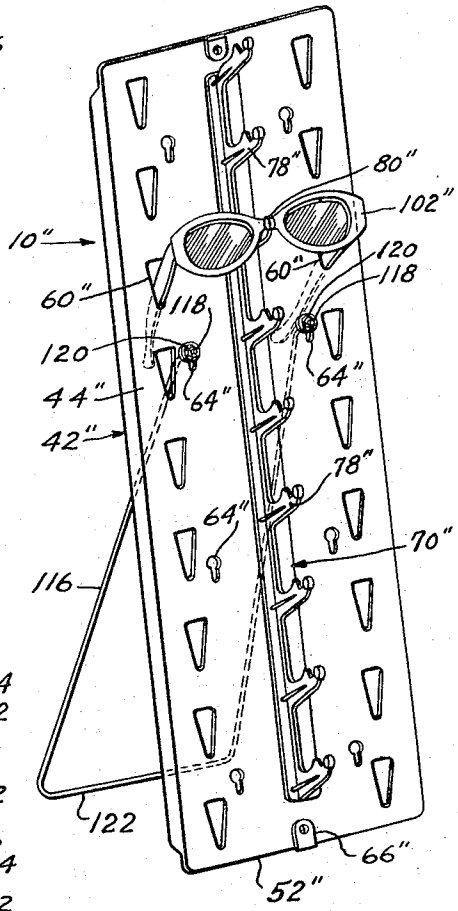


Fig. 12

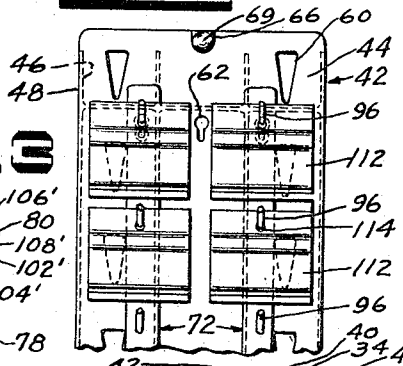


Fig. 13

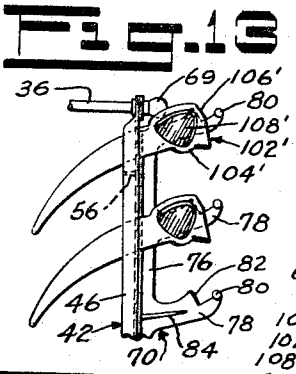


Fig. 1

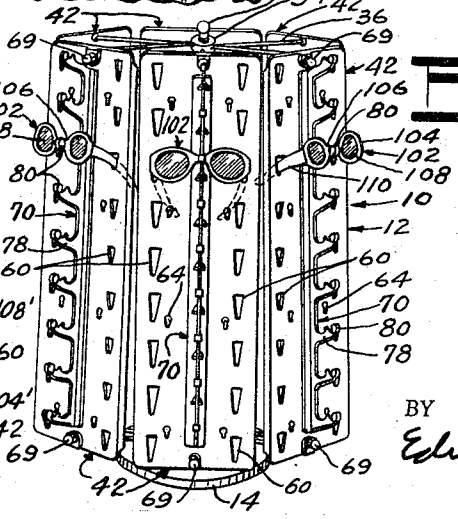
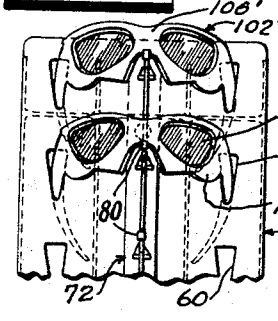


Fig. 14



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DISPLAY STAND FOR SUNGLASSES AND THE LIKE

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Fig. 1-A

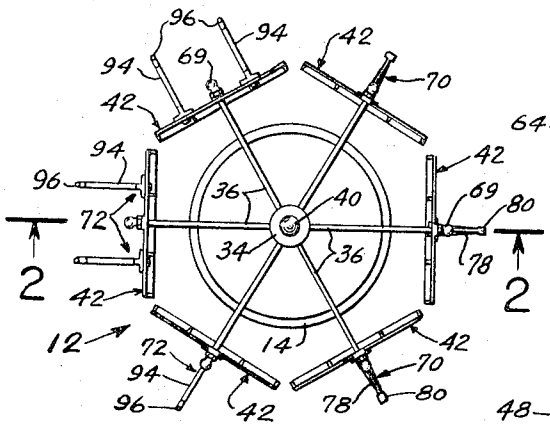


Fig. 3

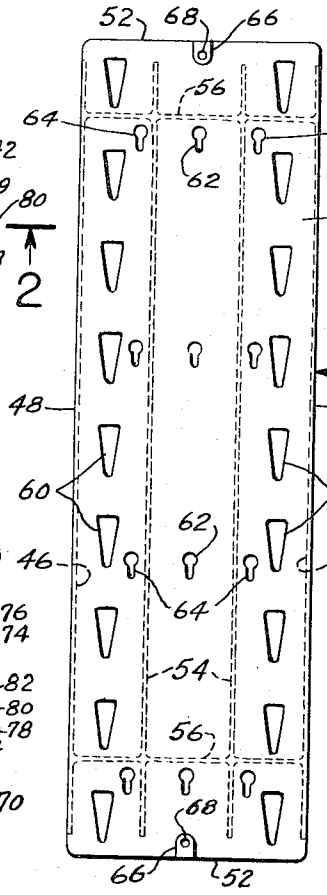


Fig. 5

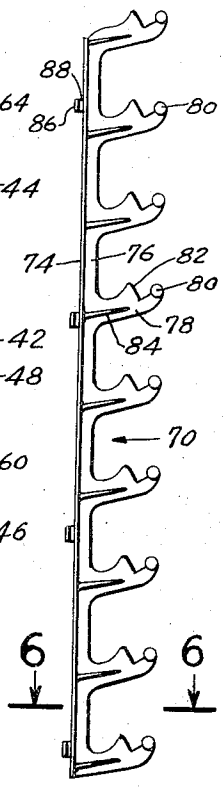


Fig. 2

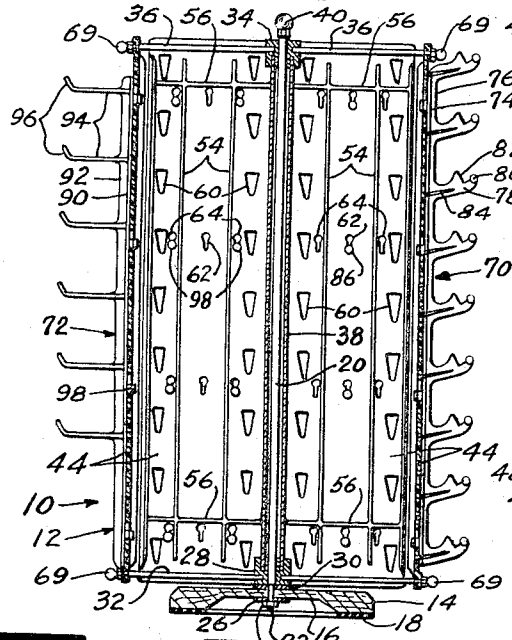


Fig. 4

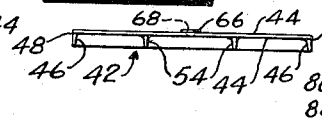


Fig. 6

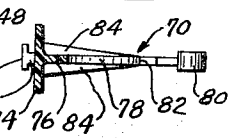


Fig. 9

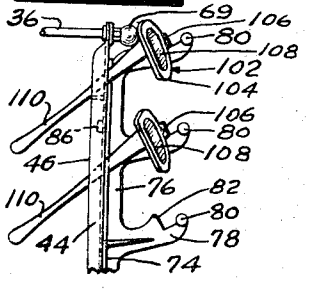
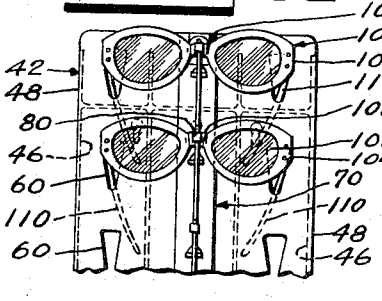


Fig. 10



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DISPLAY STAND FOR SUNGLASSES AND THE LIKE

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Filed May 12, 1966, Ser. No. 549,511
5 Claims. (Cl. 211—13)

This invention relates to new and useful improvements in display stands for sunglasses and the like.

A principal object of the present invention is to provide a display stand that will support and display sunglasses and other like objects at a slight angle to the horizontal for more effective display purposes.

Another object of the invention is to provide a display stand of this kind with means for readily mounting interchangeable bracket assemblies of various types.

A further object of the invention is to provide a display stand of this kind with a panel adapted to support desirably and interchangeably bracket assemblies of various types.

Yet another object is to provide a bracket assembly adapted to support sunglasses, paper or plastic containers and the like in effective display position.

A specific object of the invention is to provide a display stand of this type with panels having means for supporting bracket assemblies and for supporting the temples of sunglasses in interlocking relation, the bracket assemblies being adapted to support the bridge portions of the sunglasses, the sunglasses being supported at a slight angle to the horizontal.

For further comprehension of the invention and of the objects and advantages thereof, reference will be had to the description thereof to follow taken in connection with the accompanying drawings and to the appended claims wherein the novel features are set forth.

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

FIG. 1 is a front perspective view of a display stand embodying one form of my invention, sunglasses being shown supported and displayed thereon.

FIG. 1A is a top plan view thereof.

FIG. 2 is a vertical sectional view taken on the line 2—2 of FIG. 1A.

FIG. 3 is a front elevational view of one of the bracket assemblies supporting panels removed from the stand.

FIG. 4 is an edge view thereof.

FIG. 5 is a side elevational view of one of the bracket assemblies removed from the display stand.

FIG. 6 is a cross-sectional view taken on the line 6—6 of FIG. 5.

FIG. 7 is a side elevational view of another of the bracket assemblies removed from the stand.

FIG. 8 is a view as seen from the line 8—8 of FIG. 7.

FIG. 9 is an elevational view of the top of the bracket assembly shown in FIG. 5, sunglasses being shown supported and displayed thereon.

FIG. 10 is a front elevational view thereof.

FIG. 11 is a side elevational view of the bracket assembly shown in FIG. 7, with paper containers supported thereon.

FIG. 12 is a front elevational view thereof.

FIG. 13 is a view similar to FIG. 9 showing a modified type of sunglasses supported on one of the bracket assemblies.

FIG. 14 is a front elevational view thereof.

FIG. 15 is a front perspective view of a modified form of display stand, a sunglass being shown supported and displayed thereon.

Referring now in detail to the various views of the drawings, in FIG. 1 a display stand **10** embodying the preferred form of the invention is shown. The body **12** of the display stand is hexagonal in configuration and in cross-section. The body of the stand is supported on a circular flat base **14** having a shallow recess **16** in the bottom surface thereof. A rubber ring **18** is fastened to the bottom surface of the base by adhesive.

An upright solid metal post **20** is supported rotatably on the base **14**, its bottom threaded end **22**, reduced in diameter, extending through a central hole in the base and secured in position by a nut **24** fixed on the bottom end thereof, a washer **26** being interposed between the nut and base. A hub **28** is sleeved around the bottom end of the post **20** and turns therewith, the hub rotating on a washer **30** interposed between the hub and the top surface of the base **14**. A plurality of spaced metal spokes **32** radiate from the hub **28**, one end thereof being embedded in the hub. Another hub **34** is sleeved around the top end of the post **20** and turns therewith. A plurality of similar spaced spokes **36** radiate from hub **34**, one end thereof being embedded in the hub. The upper and lower spokes are in alignment. An elongated tubular member **38** is sleeved around the post **20**, from hub to hub, the ends being embedded in the hubs. The post **20** and spokes **32** and **36** constitute a rotary frame. The top end of post **20** extends above the top hub **34** and is threaded and has a ball-shaped handle **40** threaded thereon. The post **20** and spokes **32** and **36** constitute a rotary frame turnable by means of the handle **40**.

In accordance with the present invention, a plurality of panels **42** are removably mounted in upright vertical position on the frame in side by side relation. The panels are formed of transparent plastic material. Each panel **42** comprises an elongated rectangular shaped body **44** with shallow flanges **46** along the long side edges **48** thereof. A pair of spaced reinforcing ribs **54** extend lengthwise on both sides of the center thereof terminating short of the end edges of the body. The ribs **54** are the same depth as the flanges **46**. A rib **56** extends across the body **44**, spaced from each end thereof, intersecting the elongated ribs **54** and are connected to the side flanges **46**. A series of triangular shaped elongated slots **60** is formed in the body of the panel closely spaced from each side edge **43** in opposed relation. The apical ends of the slots extend downwardly. A series of spaced keyholes **62** is formed in the body along the longitudinal center thereof. A series of keyholes **64** is also formed in the body of the panel between the center keyholes **62** and each series of triangular shaped slots **60**, the center keyholes **62** and the side keyholes **64** being in vertical and horizontal alignment. The side keyholes **64** are in opposed relation. Enlargements **66** are formed in the outer or front surface of the body **44** of each panel at each end thereof at the center thereof. A hole **68** extends through each enlargement.

The panels **42** are removably mounted on the radial spokes, the top end of the panels being mounted on top spokes **36**, extending through the holes **68** in the enlargements **66** thereat and the bottom end of the panels being similarly mounted on the bottom spokes **32** aligned with the top spokes and extending through the holes **68** in the enlargements **66** thereat. The panels are removably fixed in position by means of spherical nuts **69** threaded on the extreme protruding ends of the spokes. The panels are angularly disposed relative to each other as best seen in FIG. 1A. The panels rotate with the frame.

For use with the panels for supporting sunglasses and similar shaped objects I have provided various types of bracket assemblies, such as the bracket assembly **70**

shown in FIG. 5 and the bracket assembly **72** shown in FIG. 7. The display stand may mount bracket assemblies of the same type or preferably may mount a number of each as shown in FIGS. 1 and 1A.

Each bracket assembly **70** is formed of transparent plastic material and includes an elongated flat body **74** with an integral flange **76** extending from the front center thereof. At spaced intervals along the flange **76**, integral radial arms **78** project forwardly of the body, the arms slanting upwardly slightly from the horizontal. The bottom surface of the arms taper slightly upwardly and terminate in a solid disc-shaped extremity **80** pointing upwardly. The top surface of the arm adjacent its intersection with the flange is slightly curved opening upwardly terminating in an inverted V-shaped lug **82** and continues upwardly in an upwardly slanting surface to the disc-shaped member **80**, as best seen in FIG. 5. Opposed ribs **84** extend along the outer surfaces of the arms on both sides thereof from the flat body **74** thereof to a point in line with the pointed end of the lug **82**. Keys, in the form of buttons **86** with reduced neck **88**, are integrally formed on the rear surface of the body **74** in spaced relation therealong. In assembling, the buttons are inserted through the round portions of the keyholes **62** and then moved downwardly in order to interlock with the edges of the narrow portion of the keyhole. The dimensions of the keyholes and buttons permitting this operation.

Each bracket assembly **72** shown in FIG. 7 includes an elongated flat body **90** of transparent plastic material with a central forwardly extending flange **92**. At spaced intervals along the flange are round arms **94** of the same material as the body. The arms terminate at their outer ends in bent ends or hooks **96** which are disposed at a slight angle to the vertical. At spaced intervals along the rear surface of the body, there are keys in the form of buttons **98** with reduced necks **100**.

In use, sunglasses are supported and displayed on the bracket assemblies **70** and **72** when assembled in the display stand. For example, sunglasses **102** are shown supported on the display stand **10** in FIG. 1 and also shown in FIGS. 9 and 10. The sunglass **102** comprises lens frames **104**, **104** connected by a bridge portion **106**, the frames supporting lenses **108**. Side arms or temples **110** are hingedly connected to the frames as is customary. In mounting the sunglasses **102** on the bracket assembly **70**, the side arms or temples **110** are inserted into a pair of opposed triangular slots **60** and the bridge portion **106** connecting the lens frames is positioned on or seated on the upwardly slanting portion of the arm **78** between the lug **82** and the disc-shaped extremity member **80** as shown in FIGS. 1, 9 and 10. It will be noted that the bottom long edges of the temples **110** are seated against the apical ends of the slots and interlocked with the side edges of the slots so that the temples are directed slightly upwardly thereby tilting the lens frames slightly from the vertical as best seen in FIGS. 9 and 10. This is the most effective position for displaying sunglasses.

In mounting the sunglasses on the bracket assembly **72**, the temples **110** are inserted into a pair of opposed slots **60** and the bridge portions **106** connecting the lens frames are positioned on or seated on the round arms **94** adjacent the intersections with the flanges **92** as shown in FIG. 14. The bottom edges of the temples will contact the bottom apical ends of the slots tilting the ends of the temples downwardly and the lens frames with lens upwardly so that the lenses are positioned at an angle to the horizontal.

It will be noted from FIG. 11, that the bracket assembly **72** is adapted to support and display a number of paper or plastic containers **112** along the arm **94** in back to back relation by slipping the holes **114** in the top center of the containers over the hooked ends **96** thereof.

In FIGS. 13 and 14, a modified form of sunglass **102'** is shown supported and displayed on a bracket assembly **70** in a manner similar to the mounting of the sunglass **102** thereon shown in FIG. 9. The sunglass **102'** differs from sunglass **102** in that the lens frames **104'** are curved and the openings therein are oval-shaped to support oval-shaped lenses **108'**.

FIG. 15 illustrates a modified form of display stand **10''** for supporting and displaying sunglasses such as the sunglass **102''**. The display stand **10''** comprises a U-shaped round wire frame **116** and a single panel **42''** supported thereby. The frame is formed with angular ends or hooked threaded ends **118** extending through a pair of opposed keyholes **64''** in the body of the panel, and the frame and panel are fixed together by nuts **120** on the protruding ends. A bracket assembly **70''** is interlocked with the central keyholes in the body of the panel and is adapted to support sunglasses on the arms **78''** similarly to the arms **78** of assembly **70**. A sunglass **102''** similar to sunglass **102** is shown supported and displayed on the stand. The frame **116** rests on its bight portion **122** and the panel **70''** on its bottom end edge **52''**.

While I have illustrated and described the preferred embodiments of my invention, it will be understood that changes and modifications may be made in details of construction without departing from the principle of the invention and I desire therefore to be limited only by the state of the prior art and the appended claims.

I claim:

1. A display stand for sunglasses and the like including at least one rectangular shaped panel and means for supporting said panel at a slight angle to the vertical, said panel having a transparent plate-like body with a series of spaced keyholes extending centrally of the longitudinal center of the body, with a series of triangular shaped slots along each long side edge of the body, in opposed spaced relation and with a series of pairs of keyholes disposed angularly of the triangular shaped slots, said centrally disposed keyholes removably supporting a bracket device having forwardly extending arms for supporting the bridge portion of a sunglass frame, a pair of opposed triangular shaped slots adapted to receive the temples of said sunglass frame, with the edges of the temples seated in the ends of the triangular shaped slots and the bridge portion of the frame seated adjacent the upper end of the arm whereby the lens frame and the lenses are positioned at a slight angle to the vertical.

2. A display stand for sunglasses and the like as defined in claim **1** wherein the panel has a recess with a central hole at the center of each of its top and bottom ends, said recesses intersecting the end edges, and wherein the means for supporting the panel at a slight angle to the vertical includes a rotary frame having an upright central post, arms radiating from the top of the post, one of said top radial arms extending through the hole in the top recess in the body of the panel, one of the bottom radial arms extending through the hole in the bottom recess in the body of the panel, the top radial arms being shorter than the bottom radial arms, and nuts on the extending ends of the radial arms.

3. A display stand for sunglasses and the like as defined in claim **1** wherein the means for supporting the panel at a slight angle to the vertical includes a U-shaped frame with the free ends of its side legs having bent threaded ends extending through a pair of opposed keyholes in the body of the panel, and nuts on the extending ends of the U-shaped frame, said frame adapted to rest on the bight portion thereof on a supporting surface, the bottom end edge of the panel adapted to rest on said supporting surface, at a point spaced from said bight portion.

4. A display stand for sunglasses and the like as defined in claim **1** wherein the forwardly extending arms of the bracket device each has its upper edge extending slightly at an angle to the horizontal, an upstanding integral lug on said upper edge midway the ends thereof, and a curved disc-shaped member on the extra free end of the arm, the upwardly slanting surface between the lug and disc-shaped member adapted to receive the bridge portion of the lens

frame of a sunglass, said bracket device having keys on the rear surface thereof coacting with the keyholes in the longitudinal center of the body of the panel.

5. A display stand for sunglasses and the like as defined in claim 1 wherein the forwardly extending arms of the bracket device each is elongated and round in cross-section and terminates in an upwardly bent end disposed at a slight angle to the vertical, and keys on the rear surface of the bracket device coacting with the keyholes in the longitudinal center of the body of the panel.

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