April 17, 1934. H. J. MOTT 1,955,436

UMBRELLA HOLDER

Filed May 3, 1933

Fig. 2.

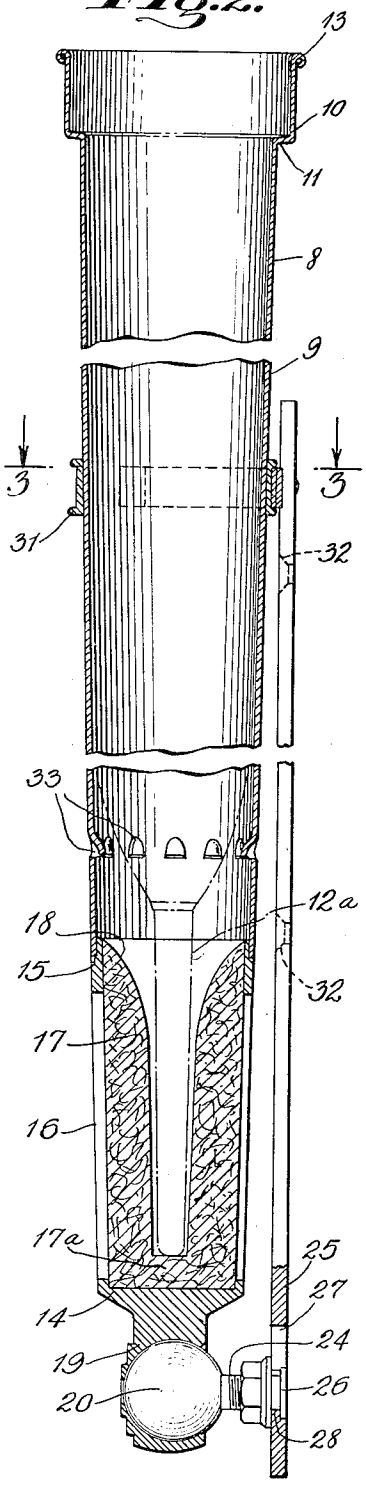


Fig. 1.

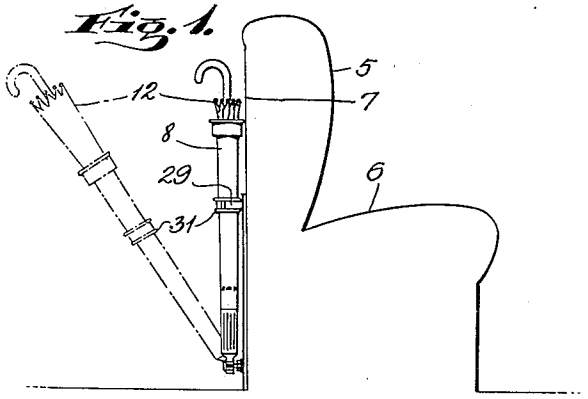


Fig. 3.

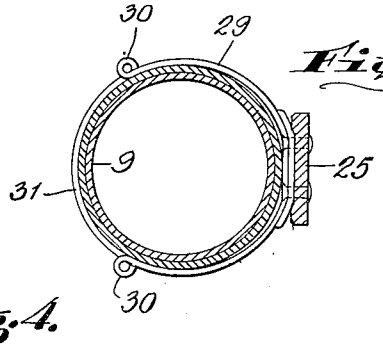
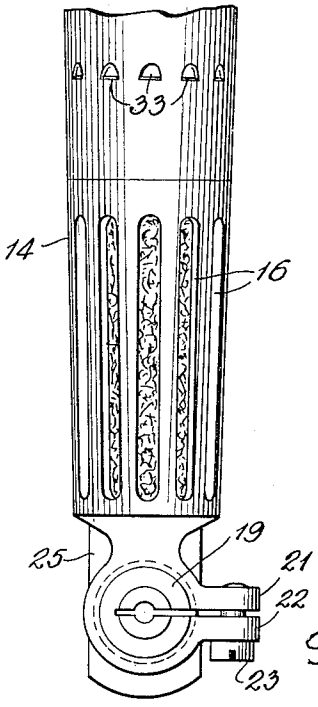


Fig. 4.



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UNITED STATES PATENT OFFICE

1,955,436

UMBRELLA HOLDER

Harriet J. Mott, Hollis, N. Y.

Application May 3, 1933, Serial No. 669,125

12 Claims. (Cl. 135—13)

This invention relates to devices for supporting umbrellas to provide quick and convenient attachment and detachment of an umbrella with respect to the holder; and the object of the invention is to provide a tubular body which tapers or flares outwardly from its lower end portion to the upper open end portion thereof, and to the provision of a universal joint mounting and support for the holder arranged at the lower end thereof, permitting the swinging movement of the holder through various planes and at different angles with respect to the support; a further object being to provide a tubular body of the class described, the upper end of which is provided with an abrupt enlargement forming within the tube adjacent the upper end thereof a contracted wall, and therearound a receptacle to collect moisture that might be wiped from the fabric of the umbrella in the operation of inserting a wet umbrella into the holder; a further object being to provide as part of the support for the holder an elongated rod with means at the end thereof opposed to the universal joint support for tensionally engaging the tubular body of the holder to support it in predetermined position, and said means involving a yoke-shaped spring; a further object being to provide the lower end of the tubular body of the holder with a tubular or thimble-shaped pad of absorbent material adapted to collect and absorb the moisture discharged from a wet umbrella inserted into the holder, and still further, to provide openings in the bottom of the device registering with the absorbent pad to facilitate the drying of the pad or the evaporation of the moisture collected thereby; and a still further object being to provide vent passages at the lower portion of the tubular body to engage a circulation of air through said body when an umbrella is removed therefrom to dry out the tube as well as to aid in drying an umbrella placed in the tube; and with these and other objects in view, the invention consists in a device of the class and for the purpose specified, which is simple in construction, efficient in use, and which is constructed as hereinafter described and claimed.

The invention described and claimed herein is an improvement on that shown and described in a prior patent granted to me April 19, 1933, No. 1,904,510 and is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:

Fig. 1 is a diagrammatic view illustrating one method of mounting and using my improved umbrella holder.

Fig. 2 is a broken, sectional view through the holder on an enlarged scale and indicating in dot and dash lines the lower part of an umbrella positioned in the holder.

Fig. 3 is a section on the line 3—3 of Fig. 2; and,

Fig. 4 is a side view of the lower end portion of the device as seen in Fig. 2.

My improved device is adapted for mounting in connection with supports of various kinds and classes and may be used in the home, office or other place of business or in public buildings, but has a very practical adaptation and use in connection with motor vehicles for supporting umbrellas out of the way and yet facilitating the quick and accessible attachment and detachment of an umbrella with respect to the holder and to permit the swinging of the holder toward and from as well as laterally with respect to its support in many angles and through arcs of many degrees.

In Fig. 1 of the drawing, I have diagrammatically indicated at 5 the backrest of a seat 6 of a motor vehicle, and on the back wall 7 of the backrest and seat is supported one of my improved holders 8 which in the construction shown consists of a tapered tube 9, the upper open end of which is enlarged as seen at 10 to form at 11 a wiping shoulder portion which is engaged by the fabric of an umbrella 12 in inserting the same into the holder and forms of the enlargement 10 a receptacle for receiving whatever water or moisture may be discharged from the surface of the cloth in placing an umbrella in the holder. The free upper edge of the enlargement 10 is beaded as seen at 13 to form a finish edging.

The tube 9 is contracted to the lower end thereof and has attached thereto a thimble-shaped end piece or body 14 grooved as seen at 15 to receive the lower end of the tube 9 proper and the side walls of the body 14 are provided with circumferentially spaced openings 16 which are elongated in form in the construction shown. Within the body 14 and the opening 16 thereof is a tubular absorbent pad 17, the upper end of which is flared as seen at 18 to facilitate the insertion of the lower pointed end 12*a* of the umbrella 12 as indicated in dot and dash lines in Fig. 2 of the drawing into the pad 17 and to rest on the bottom wall 17*a* of the pad as seen.

Projecting from the lower end of the tubular body 14 is a split bearing 19 for a steel ball 20

to form what is termed as a ball or universal joint mounting and support of the holder 8. The bearing 19 has at one side portion and disposed at opposite sides of the split therein projecting flanges 21 and 22 which are clamped together by a screw 23 to gage the frictional pressure of the bearing 19 on the ball 20 and thus regulate the ease of movement of the holder 8 on its pivotal support. Extending from the ball 20 is a threaded pin 20*a* by means of which said ball is coupled with a suitable support, such for example as the supporting bar 24 in the construction shown, and this pin includes at its free end an enlarged head 26 adapted to pass freely through a large aperture 27 formed in the bar 25 and to drop into a smaller aperture 28 in which it is retained against displacement. This permits quick attachment and detachment of the holder 8 including the ball 20 with respect to its support.

At the upper end of the bar 25 is mounted a yoke-shaped spring 29, the ends of which terminate in rounded portions 30 to permit free movement of the tubular body 9 into and out of the yoke-shaped spring which forms a retaining clip for supporting the umbrella holder in upright position in the manner shown in full lines in Fig. 1 of the drawing. In the construction shown, the spring clip 29 engages a reinforcing ring 31 arranged on the tube 9, but this ring is not absolutely essential. The bar 25 will have screw holes such as indicated at 32 or other means facilitating its mounting in connection with a support.

At the lower end of the tube 9 and above the body 14 and pad 17 is a plurality of circumferentially spaced vent openings 33 formed by piercing the material of the tube 9 inwardly, thus preventing any discharge of moisture outwardly from the tube and yet permitting the circulation of air into and through the tube to facilitate drying out of the umbrella, pad 17 and the inner surface of the tube.

In the use of the holder, it will be understood that an umbrella may be withdrawn from the holder while in its upright position as indicated in full lines in Fig. 1, or the holder may be swung forwardly and downwardly or laterally and downwardly or through any angle of movement capable to be performed by the tube on its supporting ball 20 to facilitate the withdrawal of the umbrella from the holder or in the operation of inserting the umbrella therein, and by no means is it essential that the umbrella be supported in upright position, as the same may be supported in a horizontal position with respect to any particular supporting body, and it will be capable of a movement, in some instances, through an arc of 360°, as well as one of at least 180° in planes transversing one another.

It will be understood that my invention is not limited to the use of the bar 25, as the ball 20 may be secured to a suitable support and if the spring or clip 29 is employed, this again may be secured directly to a support. Furthermore, it will appear that by controlling the frictional engagement on the ball 20, the holder 8 with an umbrella therein may be retained in different positions of adjustment without the use of other supporting means, nor is my invention necessarily limited to the specific structure of the lower end of the tube as herein disclosed, and various other changes in and modifications of the structure herein set out may be made within the scope of the appended claims without departing from the spirit of my invention or sacrificing its advantages.

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

1. A holder of the class described comprising an elongated tubular body closed at one end and open at the opposite end, and means involving a frictional ball bearing joint for supporting the tubular body in connection with a suitable support.

2. A holder of the class described comprising an elongated tubular body closed at one end and open at the opposite end, means involving a frictional ball bearing joint for supporting the tubular body in connection with a suitable support, the closed end of said body including therein a pad of absorbent material, and openings formed in said end of the body and exposed to said pad to evaporate moisture absorbed thereby.

3. A holder of the class described comprising an elongated, tubular body closed at one end and open at the opposite end, means involving a frictional ball bearing joint for supporting the tubular body in connection with a suitable support, the closed end of said body including therein a pad of absorbent material, openings formed in said end of the body and exposed to said pad to evaporate moisture absorbed thereby, and said tubular body having vent openings adjacent and above said pad.

4. A holder of the class described comprising an elongated, tubular body closed at one end and open at the opposite end, means involving a frictional ball bearing joint for supporting the tubular body in connection with a suitable support, the closed end of said body including therein a pad of absorbent material, openings formed in said end of the body and exposed to said pad to evaporate moisture absorbed thereby, said tubular body having vent openings adjacent and above said pad, including wall portions extending into said tubular body preventing the discharge of water outwardly through said body.

5. A holder of the class described, comprising an elongated, tubular body closed at one end and open at the opposite end, means involving a frictional ball bearing joint for supporting the tubular body in connection with a suitable support, the closed end of said body including therein a pad of absorbent material, openings formed in said end of the body and exposed to said pad to evaporate moisture absorbed thereby, said tubular body having vent openings adjacent and above said pad, including wall portions extending into said tubular body preventing the discharge of water outwardly through said body, and a yoke-shaped spring clip adapted to engage said body at a point spaced from said universal mounting to support said body against accidental movement.

6. A holder of the class described, comprising an elongated, tubular body closed at one end and open at the opposite end, means involving a frictional ball bearing joint for supporting the tubular body in connection with a suitable support, the closed end of said body including therein a pad of absorbent material, openings formed in said end of the body and exposed to said pad to evaporate moisture absorbed thereby, said tubular body having vent openings adjacent and above said pad including wall portions extending into said tubular body preventing the discharge of water outwardly through said body, a yoke-

shaped spring clip adapted to engage said body at a point spaced from said universal mounting to support said body against accidental movement, the upper open end of said tubular body including an enlarged portion, and a supporting bar with which said joint and spring clip are coupled.

7. A holder of the class described comprising an elongated tubular body closed at one end and open at the opposite end, means involving a frictional ball bearing joint for supporting the tubular body in connection with a suitable support, the closed end of said body including therein a pad of absorbent material, and said pad being tubular in form and the upper end of the bore thereof being flared outwardly.

8. A holder of the class described comprising an elongated tubular body closed at one end and open at the opposite end, and means involving a frictional ball bearing joint for supporting the tubular body in connection with a suitable support, the lower end portion of said tubular body having circumferentially spaced vent apertures.

9. A holder of the class described comprising an elongated tubular body closed at one end and open at the opposite end, and means involving a frictional ball bearing joint for supporting the tubular body in connection with a suitable support, the lower end portion of said tubular body having circumferentially spaced vent apertures inwardly of which is a tubular member of absorbent material.

10. A holder of the class described comprising an elongated tubular body closed at one end and open at the opposite end, and means involving a frictional ball bearing joint for supporting the tubular body in connection with a suitable support, the lower end portion of said tubular body having circumferentially spaced vent apertures inwardly of which is a tubular member of absorbent material, and there being other vent apertures in said body above said member.

11. A holder of the class described comprising an elongated tubular body closed at one end and open at the opposite end, means for movably mounting said body in connection with a suitable support, a thimble-shaped absorbent pad mounted within the closed end of said body, and said body having circumferentially spaced apertures registering with said pad.

12. A holder of the class described comprising an elongated mounting bar, an elongated tubular body normally arranged in parallel relation with respect to said bar, means for movably supporting one end portion of said body on said bar to permit swinging movement thereof with respect to the bar, and means for detachably coupling the other end portion of said body with said bar.

HARRIET J. MOTT.