(No Model.)

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UMBRELLA HOLDER.

No. 603,964. Patented May 10, 1898.

FIG. 1.

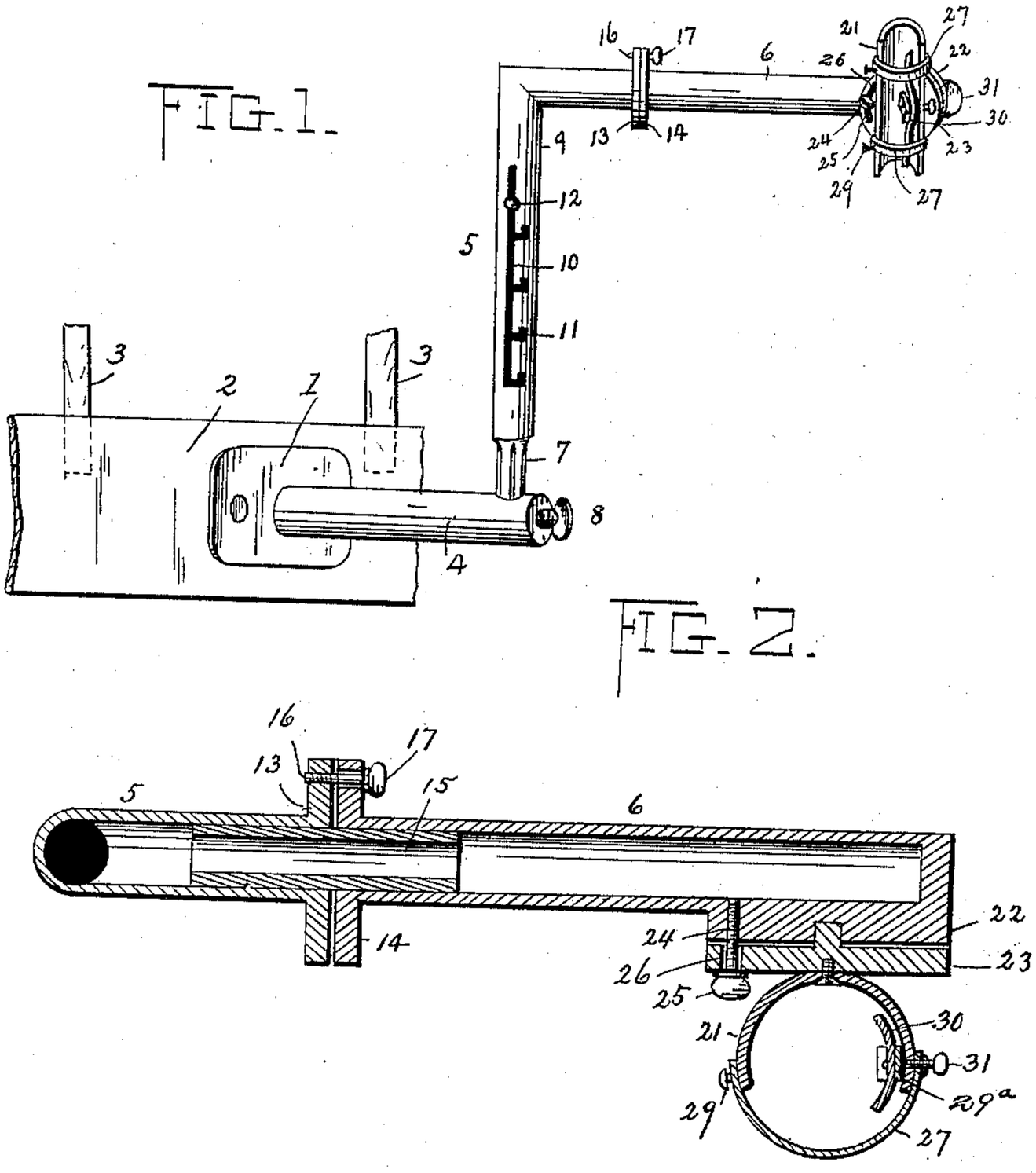

FIG. 2.

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(No Model.) 2 Sheets—Sheet 2.

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FIG. 3

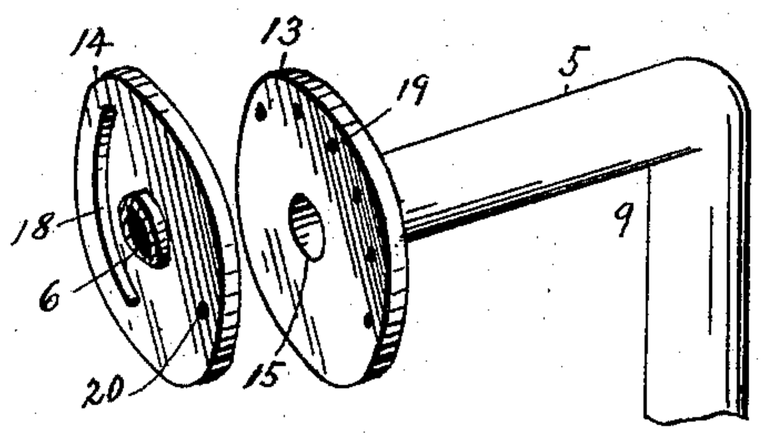
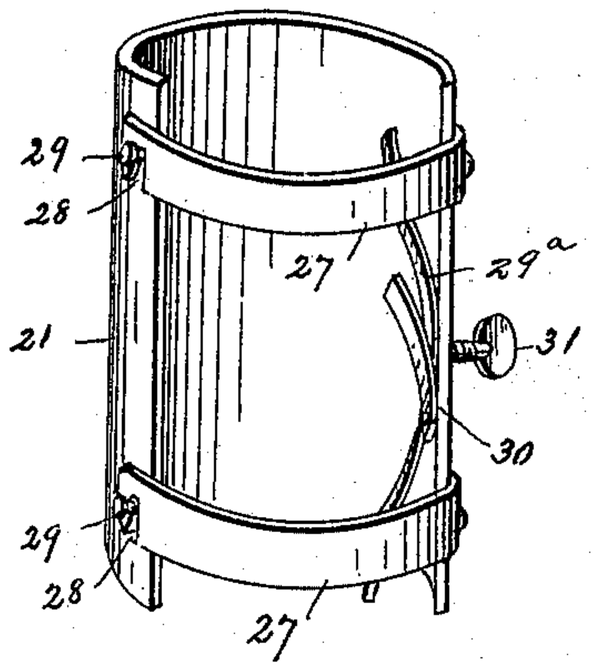


FIG. 4.



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UNITED STATES PATENT OFFICE.

LOUESE A. D. NORTHRUP, OF SHOREHAM, VERMONT.

UMBRELLA-HOLDER.

SPECIFICATION forming part of Letters Patent No. 603,964, dated May 10, 1898.

Application filed January 25, 1897. Serial No. 620,602. (No model.)

To all whom it may concern:

Be it known that I, LOUESE A. D. NORTHRUP, a citizen of the United States, residing at Shoreham, in the county of Addison and State of Vermont, have invented certain new and useful Improvements in Umbrella-Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in umbrella and similar holders.

The object of the invention is to provide a holder of the character mentioned which is adapted for use by pedestrians, cyclists, and others, whereby an umbrella or a like device may be carried by a person without the employment of the hands for retaining the umbrella in its proper position and thereby permitting the hands to be free for other purposes, and the invention further contemplates an umbrella or similar holder embodying in its construction simple and efficient means for enabling the same to be adjusted and thus allow the umbrella or like device being carried at different positions or attached to a vehicle-seat, as may be desired.

With these objects in view the invention consists in the novel construction, combination, and arrangement of parts, as will be hereinafter fully illustrated, described, and claimed.

In the accompanying drawings, Figure 1 is a perspective view of an umbrella-holder constructed in accordance with the present invention. Fig. 2 is a longitudinal sectional view thereof. Fig. 3 is a detail perspective view of one of the joints for permitting adjustment of the holder. Fig. 4 is a similar view of the socket for receiving the handle of the umbrella.

Similar numerals of reference designate corresponding parts in all the figures of the drawings.

Referring to the drawings, 1 designates a base-plate which is adapted for attaching the holder to the body of a person or to the back of a vehicle-seat, as the case may be, and for the purpose of accomplishing the first-mentioned result a body-band 2 is employed, which is secured to the base-plate 1 in any suitable manner, said belt being formed of leather, webbing, or other suitable material, and for the purpose of more securely fastening the belt 2 upon the body of the person carrying the umbrella shoulder-straps 3 may be employed, said straps crossing each other and obviously holding the belt 2 in a secure position upon the person. The belt 2 is employed for securing the base-plate 1 to a person; but in the event that it is required to place the holder upon the seat of a vehicle the belt 2 will be dispensed with and other suitable fastening devices substituted therefor, such as straps, wires, pins, or any other approved form of attaching means.

Secured to the base-plate 1 and projecting outwardly therefrom is the supporting-arm of the holder, and said supporting-arm comprises a main stem 4, an elbow 5, and a socket-stem 6, the main stem 4 and socket-stem 6 being arranged in substantially horizontal planes when the holder is in its proper applied position; but it will be noted that the stem 6 is in a plane above the stem 4, the elbow 5 connecting the main stem 4 and the socket-stem 6 and permitting adjustment of the supporting-arm to enable the umbrella or like device being carried at different elevations.

The elbow 5 comprises a plurality of telescopic sections, the inner or lower one of which (designated by 7) has its lower end corrugated and fitted in the outer end of the main stem 4, a set-screw 8 being carried by the outer end of the main stem 4 and adapted to impinge against the corrugated end of the inner section 7. By means of the set-screw 8 it will be seen that the elbow 5 is adapted to be swung at various angles with relation to the main stem 4, and by reason of this construction it is evident that the umbrella carried by the socket-stem 6 may be so positioned as to afford protection for two persons, when such is necessary, as well as a single person.

The outer or upper section 9 of the elbow 5 is adapted to slide upon the inner or lower section 7, and for the purpose of effecting adjustment of the section 9 at different points throughout the length of the section 7 a bayonet-joint is employed. This joint comprises an elongated slot 10, formed in the section 9

and provided throughout its length with a series of lateral extension-slots 11, and in order to secure the section 9 to the section 7 the latter is provided with an engaging stud 12, which stud is adapted to normally lie within the slot 10 of the section 9 and slide throughout the same, the stud 12 being seated in one of the extension-slots 11 to retain the section 9 of the elbow 5 at different points upon the section 7. Any number of slots 11 may be employed and likewise any number of studs 12, and I therefore do not wish to limit myself to the precise construction herein shown.

The socket-stem 6 is connected to the elbow 5 in such manner that said stem may have a lateral movement with respect to said elbow 5, and in order that this may be attained a locking-disk 13 is soldered or otherwise secured upon the upper end of the elbow 5, a similar disk 14 being attached to the adjacent end of the socket-stem 6 in a similar manner, and when the stem 6 is in its proper position the disks 13 and 14 will oppose each other, as clearly shown in the drawings. A tubular extension 15 projects from the upper end of the elbow 5 into the adjacent end of the socket-stem 6, said tubular extension being of less diameter than the elbow 5 and the socket-stem 6, so as to readily fit therein, and the function of this tubular extension is to retain the stem 6 and elbow 5 in their proper relation to each other when lateral movement of the stem 6 is being effected. The disk 13 has rigidly secured thereon and projecting therefrom a set-screw 16, having mounted on its free end a thumb-screw 17, and said screw 16 is adapted to lie and work within a segmental slot 18, formed in the opposing disk 14. The disk 13 is further provided with a series of spaced perforations 19, adapted to be engaged by a stud 20, carried by the disk 14, and it will thus be seen that when the thumb-screw 17, carried by the screw 16, is loosened, so that said screw may pass throughout the length of the slot 18 for effecting lateral movement of the socket-stem 6, the stud 20 is adapted to be moved from one of the perforations 19 to another of the series and be engaged therewith, and by means of the stud 20 and the perforations 19 it is evident that the screw 16 is reinforced and a secure connection between the locking-disks 13 and 14 maintained. It is not absolutely necessary that the stud 20 and perforations 19 be employed, and consequently the same may be omitted, if desired; but if employed it is obvious that a greater degree of strength is imparted to the joint between the stem 6 and the elbow 5.

Arranged at the outer end of the stem 6 is a socket 21, preferably concavo-convex in cross-section, so that one side thereof will be open, and mounted on the outer end of the stem 6 is a locking-disk 22, opposite to which is a similar disk 23, securely fastened in any suitable manner to the socket 21. The disk 22 is provided with a set-screw 24, having mounted on its free end a thumb-nut 25, and said screw 24 extends through and works within a segmental slot 26, formed in the locking-disk 23. Through the medium of the screw 24 and its nut 25 it is quite evident that the disks 22 and 23 may be secured together, and it will be noted at this point that the socket 21 is secured to that side of the disk 23 which is opposite to the side thereof lying adjacent to the disk 22. By this construction the disk 23 is free to rotate upon the disk 22 for effecting angular positioning of the socket 21 for maintaining the handle of the umbrella or like device at various angles, the joint between the socket 21 and stem 6 being substantially the same as the joint between the stem 6 and the elbow 5. It is also evident that, if desired, the locking-disks 22 and 23 may be provided with the perforations 19 and stud 20, but such is not essential.

By reason of the concavo-convex shape of the socket 21 the handle of an umbrella may be readily inserted therein, and in order that said handle shall be retained within the socket 21 a plurality of locking-arms 27 are pivoted at one of their ends to one side of the socket 21, and each of said arms 27 is provided in its opposite end with an elongated slot 28, adapted to receive a stud 29, formed on the side of the socket 21 opposite to the pivotal points of the arms 27. From the fact that the arms 27 are pivoted at one of their ends the same are free to swing on such pivots away from the open side of the socket 21 to allow the handle of an umbrella or like device being inserted in said socket, and immediately upon so placing such handle the arms 27 are returned to their position across the open side of the socket 21 and the slots 28 thereof caused to receive the studs 29, whereby the arms 27 are locked and the handle retained in the socket 21. For insuring a more positive retention of the handle in the socket 21 a strip 29^a is arranged at one side of said socket, said strip extending throughout the length of the socket 21, and secured on the strip 29^a at a point substantially midway its ends and extending at right angles to said strip is a semicircular clamping-piece 30, an adjusting-screw 31 being connected to the strip 29^a and passing through the side of the socket 21, in which the strip 29^a is disposed. It will thus be seen that by rotation of the adjusting-screw 31 the locking-strip 29^a and the catch 30, carried thereby, may be forced across the socket 21 or such movement reversed, whereby the handle of the umbrella or like device may be clamped and held or said handle released from said clamp, as the case may be. This movement of the strip 29^a, as is apparent, is substantially at right angles to the open side of the socket 21, so that while the locking-arms 27 will prevent the handle of the umbrella passing out of the open side of said socket the strip 29^a and the

catch 30, carried thereby, will tend to jam the handle against the side of said socket opposite to the strip 29ª, and thus firmly hold the umbrella-handle in the socket 21. In lieu of the locking-arms 27 the socket 21 may be provided at its open side with a closing-plate, so connected to said socket as either to slide or swing thereon, and thus it will be seen that when the umbrella-handle is placed in the said socket the plate may be closed over the open side thereof and retain the handle therein.

The operation and advantages of the herein-described holder will be readily understood from the preceding description, and when it is desired to place an umbrella in the holder the socket 21 receives the same, when the form of holder shown in Fig. 1 is employed by simply swinging the locking-arms 27 so as to permit the open side of the socket 21 being free of obstructions. The umbrella-handle is now placed in said socket and the locking-arms 27 swung back into their normally-closed position, when the slots thereof are caused to receive the studs 29, carried by the socket 21, and by adjusting the screw 31 the strip 29ª and clamp 30 are moved, so that said clamp may embrace the umbrella-handle and assist the arms 27, retaining said handle within the socket 21, as before described. By means of the locking-disks 22 and 23 at the outer end of the socket-stem 6 the umbrella may be given any desired degree of inclination forwardly or rearwardly, and by adjusting the locking-disks 13 and 14 the socket-stem 6 may be rotated laterally and thus impart to the umbrella-handle a lateral adjustment. In the event that it is desired to retain the umbrella in a position for properly protecting two persons the set-screw 8 is operated, so that the corrugated end of the inner section 7 of the elbow 5 may be rotated within the outer end of the main stem 4, and thus a horizontal movement may be given to the socket-stem 6, whereby the umbrella may be swung around to one side of the main stem 4 and thus position said umbrella, so as to enable the same protecting the persons thereunder. By means of the bayonet-joint between the outer section 9 and inner section 7 of the elbow 5 the socket-stem 6 may be raised to any point above the main stem 4 or lowered, as the case may be, as the length of the slot 10 will permit, the locking-stud 12 being engaged with one of the extension-slots 11 and retaining the sections of the elbow 5 in their adjusted position.

From the foregoing it is obvious that I have provided a holder which is adapted for supporting umbrellas, parasols, and the like without the necessity of applying the hands thereto either when walking or riding in a vehicle, and the invention may be employed by cyclists as well as pedestrians and others with as good results either in rain or for protection from the sun. By means of the strip 29ª and clamp 30 different sizes of handles may be securely held within the socket 21, and in lieu of the joints between the elbow 5 and the main stem 4 and between the socket-stem 6 and the upper end of the elbow 5 swivel or ball-and-socket joints may be used separately, or a universal joint may be substituted for the two joints mentioned. A ball-and-socket joint may also be substituted for the joint between the socket 21 and the socket-stem 6 with the umbrella-handle being fastened into the ball of the joint either by hinging or a slide connection.

I do not wish to restrict myself to any special material from which the device may be made; but, if desired, tin, brass, nickel, silver, copper, iron, gold, aluminium, &c., may be used, either in solid or open-work, and may be finished with paint or bronze, or japanned, gilded, plated, or in any other suitable manner.

Various other changes in the form, proportion and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. A holder for umbrellas and the like, involving the combination of a base-plate for convenient attachment to a body-belt or other like support having a vertical face, a main stem projecting horizontally from said base-plate, an axially-adjustable, telescopic piece extending vertically from the main stem, an axially-adjustable, horizontal socket-arm, and a socket, whereby the umbrella may be supported away from the body, and may be adjusted at any desired elevation and angle, substantially as described.

2. A holder of the class described, comprising a supporting-arm formed of a main stem, a socket-stem, and a sectional elbow connecting said stems, one end of said elbow being corrugated and fitted in the main stem, a screw carried by said main stem and adapted to engage the corrugated end of the elbow, whereby the latter is locked against rotation, means for locking the sections of the elbow together, adjustable connections between the elbow and the socket-stem, whereby said socket-stem is adjustable upon the elbow, a socket carried by the socket-stem and adapted to receive an umbrella or the like, said socket being adjustable upon said socket-stem, and locking-arms carried by said socket and adapted to secure an umbrella or the like within said socket, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

LOUESE A. D. NORTHRUP.

Witnesses:

MARCIA A. DOUGLAS,

CHARLOTTE D. HOWARD.