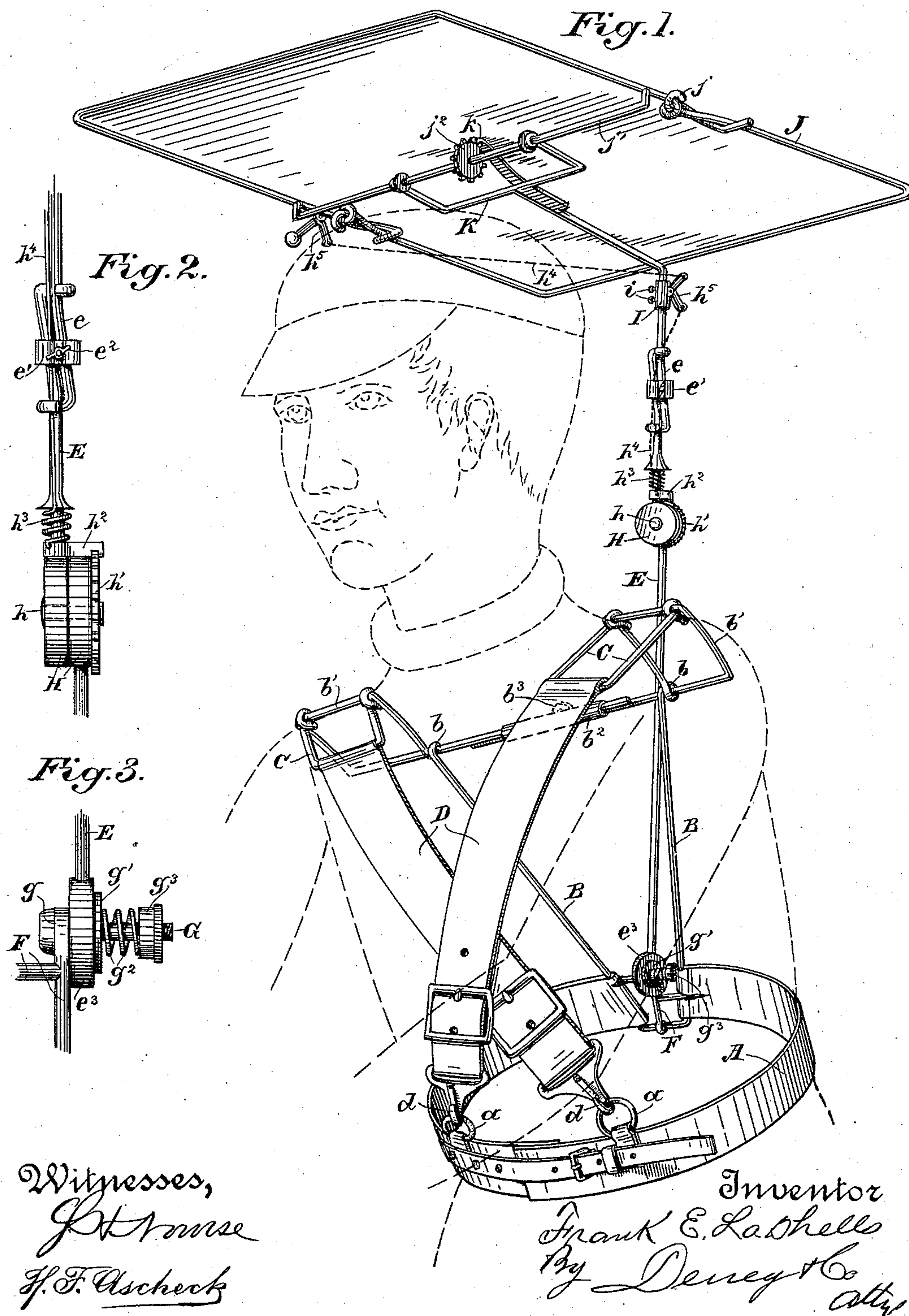


(No Model.)

F. E. LASHELLS.
SUNSHADE.

No. 578,572.

Patented Mar. 9, 1897.



UNITED STATES PATENT OFFICE.

FRANK EDWARD LASHHELLS, OF SACRAMENTO, CALIFORNIA.

SUNSHADE.

SPECIFICATION forming part of Letters Patent No. 578,572, dated March 9, 1897.

Application filed August 5, 1896. Serial No. 601,698. (No model.)

To all whom it may concern:

Be it known that I, FRANK EDWARD LASHHELLS, a citizen of the United States, residing at Sacramento, county of Sacramento, State of California, have invented an Improvement in Sunshades; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to that class of sunshades in which means are provided for adjustably attaching it to and supporting it from the body of the user.

My invention consists of the parts and the constructions and combinations of parts which I shall hereinafter describe and claim.

The object of my invention is to provide a sunshade adapted to be readily and firmly secured to the person and to fit persons of different sizes, said shade being capable of having its inclination and position varied to suit all circumstances. It is applicable for use in many situations and under various conditions, such as walking, horseback-riding, in vehicles, and, finally, for bicycle-riding, for which it will be found particularly useful, being adapted to conform to all the conditions thereof.

Referring to the accompanying drawings, Figure 1 is a perspective view of my sunshade. Fig. 2 is a detail of the side-swinging joint. Fig. 3 is a detail of the joint which swings forward and back.

A is a belt to be fitted to the waist of the user.

B is a back-frame attached to the back of the belt and having a connection above with shoulder-pieces C, to which are attached front straps D, which cross each other and are detachably connected, as by means of the snaps d , with rings a on the sides of the belt, in front. The frame B conforms in general shape to the back of the wearer, widening to the top or shoulders, as shown. It may be made of any suitable material and form, but the best construction is that here shown, in which it consists of a single piece of wire bent at its middle and secured at that point to the belt. Its sides thence diverge upwardly, form loops at b , squares at b' , its ends thence passing through the loops b and each entering from opposite directions a sleeve b^2 , provided with

a set-screw b^3 . By loosening this screw the ends may be drawn out or pushed in, according as it may be desired to widen or contract the upper end of the frame to fit the wearer, and thereupon, by tightening the screw, the ends will be firmly held.

The shoulder-pieces C may be of any suitable construction. They are here shown as wire links or bails pivoted to the squares b' , adapting them to readily conform to the shoulders and to fold to small compass when necessary for transportation.

The standard or stem E is provided with a sliding joint at e , adapting it to be extended and contracted to regulate the height of the shade. This joint is controlled and fixed by a clamp e' and thumb-nut e^2 . The foot of the standard is secured to the frame B by an adjustable controllable joint as follows:

In a suitable bearing F, (here shown as made of wire,) secured to the base of frame B, is carried a short shaft G, having a head-flange g . Upon this shaft is pivoted the disk foot e^3 of the standard. Upon the shaft is slidably mounted a friction-washer g' , controlled by a spring g^2 and a nut g^3 . Now by loosening this nut the standard may be adjusted forward and back to a suitable angle, and when the nut is again set up the washer g' will bind the standard-foot between itself and the shaft-flange and hold it firmly, thus fixing the standard in the position to which it is adjusted. The standard may also be moved from side to side to any desired angle by the following controllable joint: The standard is severed, and its severed ends are fitted with disks H, set side by side. One of these is fast upon a short pin h and the other is pivotally mounted thereon. The pin also carries a ratchet-wheel h' fast upon it. Upon that section of the standard which is pivotally mounted is a sliding pawl h^2 , controlled by a spring h^3 , the normal tendency of which is to hold the pawl to its engagement with the ratchet-wheel, thereby holding the standard rigid; but when the pawl is lifted from its engagement with the ratchet-wheel the joint is free and the upper section of the standard may be turned to any side angle desired. This disengagement of the pawl is effected by means of a wire h^4 ,

connected therewith, and thence extending upwardly in suitable guides and with intervening bell-cranks h^5 to the side of the shade-frame within easy reach.

5 For the purpose of readily reducing the device to as small compass as possible for packing the standard may be severed and provided with a coupling-sleeve I, with set-screws i . When the coupling is complete, the stand-
10 ard is rigid, but by loosening screws i the standard may be taken apart at the sleeve I and so be shortened for convenience in transportation.

J is the shade-frame. This is to be covered with any suitable material. The frame
15 may be of any suitable construction, but is preferably made of wire in two sections hinged at j , whereby it may be readily folded when required. This frame is secured to the stand-
20 ard by an adjustable and controllable hinge as follows: The frame is provided with a cross-rod j' , which is pivoted in the extremities of a bail or bracket K, secured to or formed with the upper end of the standard. Upon rod j'
25 is a ratchet-wheel j^2 , with which engages a spring-pawl k , secured to the standard. This engagement is sufficiently strong to hold the shade-frame in any position to which it is set and yet will allow it to be turned under the
30 pressure or pull of the hand to any desired angle.

By reason of the several adjustments heretofore described the shade can be set up or down, forward or back, or sidewise, or tilted
35 to any position or angle to suit the circumstances, and it is firmly supported by the body of the user without subjecting him to the slightest inconvenience.

Having thus described my invention, what
40 I claim as new, and desire to secure by Letters Patent, is—

1. In combination with a sunshade, a vertically-adjustable supporting-standard therefor and a means for carrying the standard,
45 consisting of a waist-belt to be fitted to the user, an upwardly-diverging back-frame secured to the waist-belt and to which the standard is secured, and devices passing over the shoulders and connecting the top of the
50 back-frame with the waist-belt in front.

2. In combination with a sunshade, a vertically-adjustable supporting-standard therefor and a means for carrying the standard, consisting of a waist-belt to be fitted to the
55 user, an upwardly-diverging back-frame secured to the waist-belt and to which the standard is secured, shoulder-pieces pivotally secured to the upper end of said back-frame, and straps secured to said shoulder-pieces
60 and passing down in front and detachably connected to the waist-belt.

3. A body-harness for supporting a standard, said harness comprising a waist-belt, a back-frame secured thereto, and consisting of
65 a piece of wire bent at its middle and having its sides diverging upwardly, and to which

the standard is secured and devices passing over the shoulders and connecting the top of the back-frame with the waist-belt in front.

4. A body-harness for supporting a stand- 70
ard, said harness comprising a waist-belt, a V-shaped back-frame secured thereto and to which the standard is secured, shoulder-pieces pivotally secured to the upper end of the back-frame, and straps secured to said shoulder- 75
pieces and passing down in front and detachably connected to the waist-belt.

5. A body-harness for supporting a standard, said harness comprising a waist-belt, a back-frame secured thereto and to which the 80
standard is secured, said frame having means for laterally widening or contracting it, and devices passing over the shoulders and connecting the top of the back-frame with the waist-belt in front. 85

6. A body-harness for supporting a standard, said harness comprising a waist-belt, a back-frame secured thereto and to which the standard is secured, said frame consisting of wire, the ends of which overlap at the top, 90
and are fitted into a sleeve, with a set-screw, whereby they may be drawn apart or forced together, and fixed, to widen or contract the said frame, and devices passing over the shoulders and connecting the top of the back- 95
frame with the waist-belt in front.

7. In combination with a sunshade, a body-harness to be secured to the user, and a standard supporting the sunshade and secured to the back of the body-harness by a controllable 100
hinge adapting said standard to be swung forward and back and fixed, said joint comprising a shaft supported by the harness and having a flange-head, a sliding friction-washer on the shaft, and a spring and nut for operating it, and a foot of the standard, pivoted 105
on the shaft, and adapted to be frictionally held between the washer and the flange-head of the shaft.

8. In combination with a sunshade, a body- 110
harness to be secured to the user and a standard supporting the sunshade and secured to the back of the body-harness, said standard being severed and having its severed ends provided with disks set side by side, a pivot- 115
pin connecting the two, and a spring-actuated pawl, and a ratchet-wheel controlling the connection, and means for relieving the control whereby the joint may be bent or held rigid, said means consisting of a wire con- 120
nected with the pawl and thence extending to the sunshade within reach of the user and bell-cranks with which the wire is connected.

9. In combination with a sunshade, a supporting-standard therefor and the adjustable 125
connection between the two consisting of the cross-rod of the shade, having the ratchet-wheel, the bracket of the standard in which the cross-rod is pivoted, and the spring-pawl engaging and controlling said ratchet. 130

10. An improved sunshade and support comprising a standard connected with said

5 shade by a controllable hinge-joint adapting the shade to be turned to various angles, said standard having a controllable hinge-joint in itself whereby it may be swung from side to side, and a controllable slip-joint to lengthen and shorten it, a body-harness to fit the person of the user, and a controllable hinge connection between said standard and the body-

harness whereby the standard may be swung forward and back.

In witness whereof I have hereunto set my hand. •

FRANK EDWARD LASHIELLS.

Witnesses:

D. A. CARMICHAEL,
R. L. ESTES.