

R. RAY.  
Umbrella.

No. 229,752.

Patented July 6, 1880.

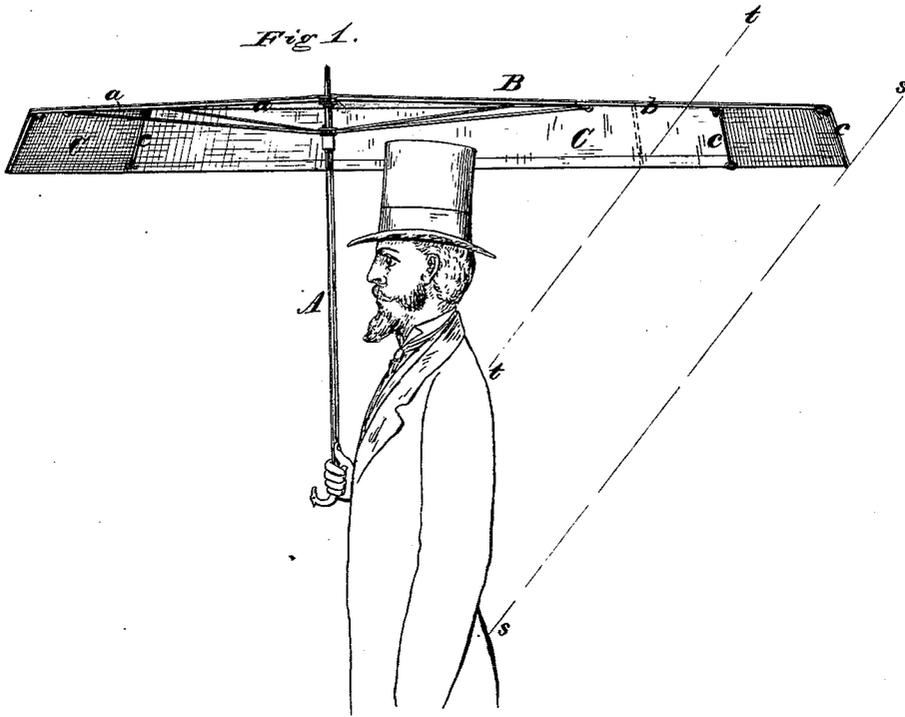


Fig 2.

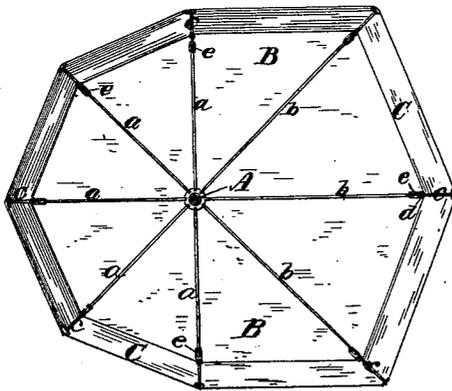
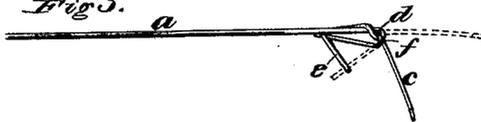


Fig 3.



WITNESSES

Geo. F. Graham,  
J. S. Wright

By

Harry King

INVENTOR.

Richard Ray.

his Attorney

# UNITED STATES PATENT OFFICE.

RICHARD RAY, OF LAKE CITY, FLORIDA, ASSIGNOR OF ONE-HALF OF HIS  
RIGHT TO ALEXANDER H. EGE, OF MECHANICSBURG, PA.

## UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 229,752, dated July 6, 1880.

Application filed July 2, 1878.

To all whom it may concern:

Be it known that I, RICHARD RAY, of Lake City, in the county of Columbia and State of Florida, have invented certain new and useful  
5 Improvements in Umbrellas; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference  
10 being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to umbrellas or sunshades; and it consists in so constructing the  
15 top or cover as to more effectually protect the person from the rays of the sun or from rain.

Figure 1 is a general view of my invention with the top in vertical longitudinal section. Fig. 2 is a bottom-plan view of the top or  
20 cover, with handle in transverse section. Fig. 3 is a side view of the outer end of one of the main ribs with a supplemental rib attached thereto.

Upon the handle A, and in the usual manner, I mount the top B. *a a* are short main  
25 ribs placed upon one side of the umbrella, and *b b* are main ribs of greater length, and placed on the opposite side thereof. These ribs *a* and *b* are pivoted to the handle in the usual well-known manner.  
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To the outer end of the main ribs are attached supplemental ribs *c* in such a manner as to form, in conjunction with the cover, a  
35 drooping flange, C, around the outer edge of the top. The outer end of each main rib is so bent or shaped as to form a loop, *d*, and guide *e*. Each supplemental rib *c* is bent or shaped in such a manner as to form an eye or loop, *f*,  
40 which links into loop *d*, thus forming a hinge. The upper end of supplemental rib *c* extends inward and rides in the guide *e*. This guide limits the sweep of the inner end of rib *c* in such a manner as to prevent the outer end of  
45 the same from folding outward upon the main rib when the top is lowered, as also to prevent its folding inward too far when the top is raised.

The cover to the main and supplemental ribs is made from one and the same piece of material, and is so constructed as to form the droop-

ing flange C when the umbrella is raised. The top is raised and lowered by means of the usual well-known mechanism.

The supplemental ribs *c* may be dispensed with, and the main ribs extend outwardly in  
55 a straight line when the umbrella is raised, in which case an ornamental border may loosely hang down from the edge of the cover.

It will be observed from the peculiar construction of the top of my improved umbrella  
60 that, first, the brace-rods, when the umbrella is raised, lie in nearly a horizontal plane, as shown in Fig. 1, thus affording more room for the hat of the person under the umbrella than  
65 does the usual rounded-top umbrella; secondly, the edge of the covering material extends from point to point of the various ribs in a straight line, thus providing more protecting-surface than is found around the edge of the rounded-  
70 top umbrella; thirdly, the main ribs lying in, or nearly in, a flat plane, the cover can be formed from one piece of material, which, when extended over and properly gored, also forms the drooping portion of the cover; and, fourthly,  
75 by means of the extended ribs the head of the person under the umbrella falls immediately below the central portion of the cover, assuming the handle to be held perpendicularly, thus affording more protection to that portion  
80 of the person exposed to the sun's rays or to rain, as shown by the broken line *s s*, Fig. 1, than is given by the usual form of umbrella, where the ribs are all equal in length, as shown by broken lines *t t*, Fig. 1.

Having thus fully described my invention,  
85 what I claim, and desire to secure by Letters Patent, is—

1. An umbrella having its staff connected eccentrically to the roof or cover, substantially as shown and described.  
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2. In an umbrella, the top B, constructed with its rear portion longer from the point of contact with the handle than the front portion thereof, whereby the central portion of the top is situated immediately over the bearer's  
95 head when the handle is held in a vertical position, substantially as described.

3. In an umbrella, the main ribs *a* and *b*, in combination with the drooping supplemental ribs *c*, provided with stop mechanism on their  
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upper ends, whereby the sweep of their outer ends is limited, substantially as and for the purpose described.

4. In an umbrella, the combination of the top B, constructed with its rear portion longer from the point of contact with the handle than the front portion thereof, the drooping supplemental ribs *c*, and shade-flange C, arranged to operate substantially as and for the purposes set forth.

5. In an umbrella, the main rib, constructed

with loop *d* and guide *e*, in combination with the supplemental rib *c*, provided with loop *f*, arranged to operate as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

RICHARD RAY.

Witnesses:

HARRY KING,  
GEO. F. GRAHAM.