

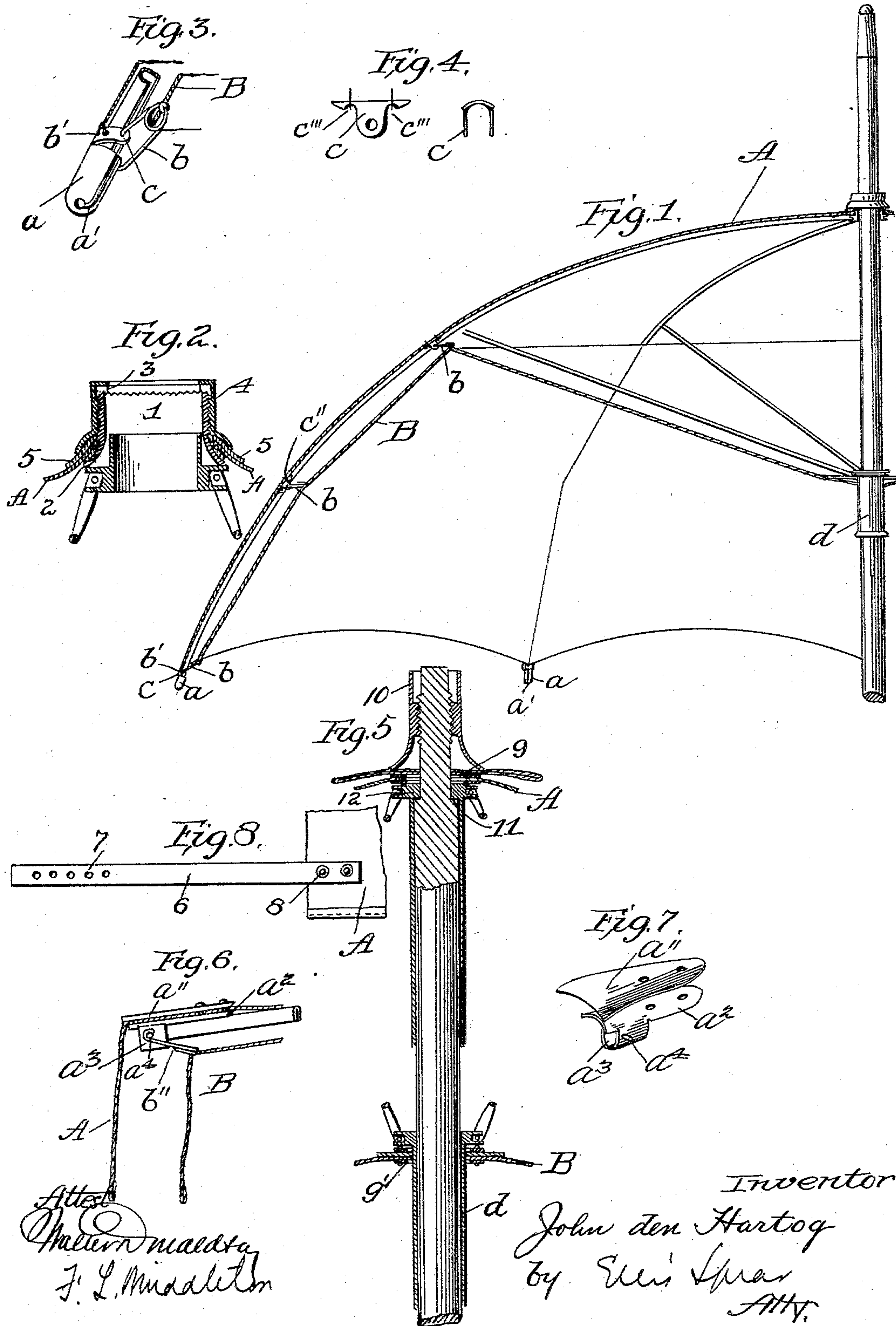
(No Model.)

J. DEN HARTOG.

COVER AND LINING FOR UMBRELLAS OR PARASOLS.

No. 556,846.

Patented Mar. 24, 1896.



UNITED STATES PATENT OFFICE.

JOHN DEN HARTOG, OF OGDEN, UTAH.

COVER AND LINING FOR UMBRELLAS OR PARASOLS.

SPECIFICATION forming part of Letters Patent No. 556,846, dated March 24, 1896.

Application filed April 27, 1895. Serial No. 547,383. (No model.)

To all whom it may concern:

Be it known that I, JOHN DEN HARTOG, a citizen of the United States, residing at Ogden city, in the county of Weber and Territory of Utah, have invented certain new and useful Improvements in Covers and Linings for Umbrellas, of which the following is a specification, reference being had therein to the accompanying drawings.

10 My invention relates to umbrellas and parasols, and its object is to provide a removable lining for the same to be used as an extra protection from the sun.

15 My invention includes the means for securing the covering to the frame so as to permit of its easy removal. It also includes the cap-piece for securing the covering to the umbrella-stick and the means for securing the lining in position.

20 The invention also includes the details of construction, as will be hereinafter described, and particularly pointed out in the claims.

25 In the accompanying drawings, Figure 1 is a sectional view through the umbrella in raised position. Fig. 2 is a detail of the cap for securing the covering to the stick. Figs. 3 and 4 are detail views. Figs. 5, 6, and 7 are details of a modification. Fig. 8 is a detail of the strap.

30 In the drawings the umbrella is shown at A, and is representative of any kind of umbrella or parasol to which my invention may be applied. Instead of stitching the outer covering to the ends of the ribs, as heretofore, I provide metal caps *a*, to which the cloth is stitched, the threads passing through the perforations *b'* in the flange thereof. These caps are then slipped over the tips of the ribs, and the spring of the material is sufficient to hold them in place, but at the same time permit the caps to be readily removed when desired. This makes a much better attachment than sewing the cloth directly to the ribs, as it is easily removable and there is less liability of the attachment becoming disconnected.

45 My lining is removably connected at various points to the cap and ribs, and is shown at B. It may be of any suitable material as the taste of the user may dictate, and more than one lining may be used with the umbrella or parasol if desired, thus giving variety and the appearance of a different article.

The lining is gathered at its center around the stick and can be closely held thereto by means of a draw-string. This provides a central opening of the lining to permit the passage of the head of the stick when the lining is being removed and provides a means for holding the lining closely to the stick and to all appearances unbroken under ordinary conditions.

The lining, as shown, is provided on the line of the ribs with a series of spring catches or fasteners *b b b*, and these hook onto the perforated ends of lugs or ears *c*. Each cap has its base-flange turned out to form a pair of these perforated ears, and a catch *b* on the lining engages the perforations, holding the lining at the edge. A sheet-metal clip passes around the rib near the point of its junction with the stretcher and terminates in ears, which receive the ends of a catch on the lining, and as each rib is provided with a like clip at the same point the lining is held securely at this point also. Intermediate of the caps and the stretchers a second clip *c''* is secured to the ribs, engaging a third set of catches on the lining, thus holding the lining at this point. These three supports for the lining will be sufficient, and indeed the central one may be omitted under some circumstances, as when the umbrella or parasol is small; but as many may be used as may be found necessary. The lining from its innermost point of attachment follows the line of the stretchers, being gathered around the handle at the upper part of the slide *d* of the umbrella or parasol.

The clips are concavo-convex in form and are adapted to fit any size rib. Each of their ends is provided with small recesses *c'''*, and these retain in position on the clips the threads which bind them into the outer covering.

It will thus be seen that by reason of the detachable connections the lining may be readily removed or replaced by any one and that it furnishes protection from the sun's rays by providing an air-space between it and the outer covering and permits of the removal of the lining when the umbrella is to be used as a protection from the rain. In some cases instead of covering the inside of the frame with the lining I may interpose it between the

frame and the outer covering, the connection in either case being the same except that clips *c* are attached to the cover and the hooks *b* omitted. The cap *a* is of peculiar construction to prevent its retaining water, which would necessarily run therein and rot the stitches holding the covering. To prevent this, a small duct along the bottom and outer end of the cap is made by bringing the meeting ends of the cap into close proximity, but not close enough to touch each other, which thus leaves the space or duct *a'*.

The cap for securing the outer covering to the stick is formed of two parts, the base-piece having the central threaded projection 1 and the laterally-extending base 2, the upper edge of the extension 1 being roughened or provided with small teeth for engaging and holding in position a small gasket 3. The covering is attached to the base 2 by turning it inside out and binding it around the projection 1 and then turning it back, the extension 2 retaining the covering in position by preventing it from slipping off. The central opening for the passage of the stick in the bottom part of the cap may be larger in diameter than the stick. The cap proper is shown at 4 and is threaded internally to screw upon the projection 1, the gasket 3 being interposed to make a tight joint. To improve the appearance, the bottom of the cap 4 is made flaring and retains in position the gasket 5.

I form the tie-strap 6 with a series of openings or eyes 7 in one end and attach the other end to the covering by a rivet having a head 8 to be engaged by the opening 7. Thus the strap can be used on any size of umbrella.

I show in Figs. 5, 6, and 7 a modification of the clips *a* as well as the cap for securing the covering to the stick and also a modification of the means for securing the lining to the stick. The clips in this form are chiefly designed for parasols wherein the cover extends over the ends of the ribs and hangs down. At a point on the outside cover that corresponds to the end of the rib is the plate *a''*, and directly beneath it on the inside of the cover is the plate *a'*. These two plates are riveted together, the cover being held interposed between them. The lower plate carries at its outer end the socket *a'*, into which the ends of the ribs are adapted to fit. Pins *a'* project from each side of the socket and are engaged by the hooks *b''*, carried by the lining.

The center of the covering is attached to a

flat ring 9 that fits over the stick, and the center of the lining is secured to a similar ring 9'.

The end of the stick upon which the internally-threaded cap 10 is screwed is reduced and threaded to correspond to the threads of the cap. The lateral extension 11 around the reduced end embraces the ring 12, to which the ribs are attached, and holds them rigidly to the end of the stick when the cap 10 is screwed down in place, the ring 9 being securely held interposed between the cap and the ring 12. The ring, which fits over the stick and to which the stretchers are attached, bears upon the ring 9' when the umbrella is being closed and forces the central part of the lining down.

What I claim is—

1. An umbrella comprising the frame, the covering for the same and the lining detachably connected at its outer edge to said frame, the inner edge thereof being adapted to be drawn about the central stick by a string inserted in the said edge, substantially as described.

2. An umbrella comprising the frame, the covering therefor, the devices having perforated ears carried by said cover, for attaching the same to said frame, the lining and the fasteners carried thereby and engaging said perforations for holding said lining in position, substantially as described.

3. An umbrella comprising the frame, the outer covering, the devices for securing the same to the ribs at the juncture of the stretchers and at its outer edges, the lining, and the spring-clips carried thereby for detachably securing said lining at the juncture of the stretchers and at its extreme outer edge to said devices, substantially as described.

4. In an umbrella, in combination, the frame, the outer covering, the caps secured to the outer covering and fitting the ends of the ribs, the perforated ears projecting from said cap, the inner lining and the spring-fasteners secured thereto, the arms of said fasteners engaging said perforations for securing the outer edge of said lining, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN DEN HARTOG.

Witnesses:

J. W. F. VÖLKER,
ALBERT BELL.