

(Model.)

S. HEITER.  
Umbrella and Parasol.

No. 233,930.

Patented Nov. 2, 1880.

Fig. 1.

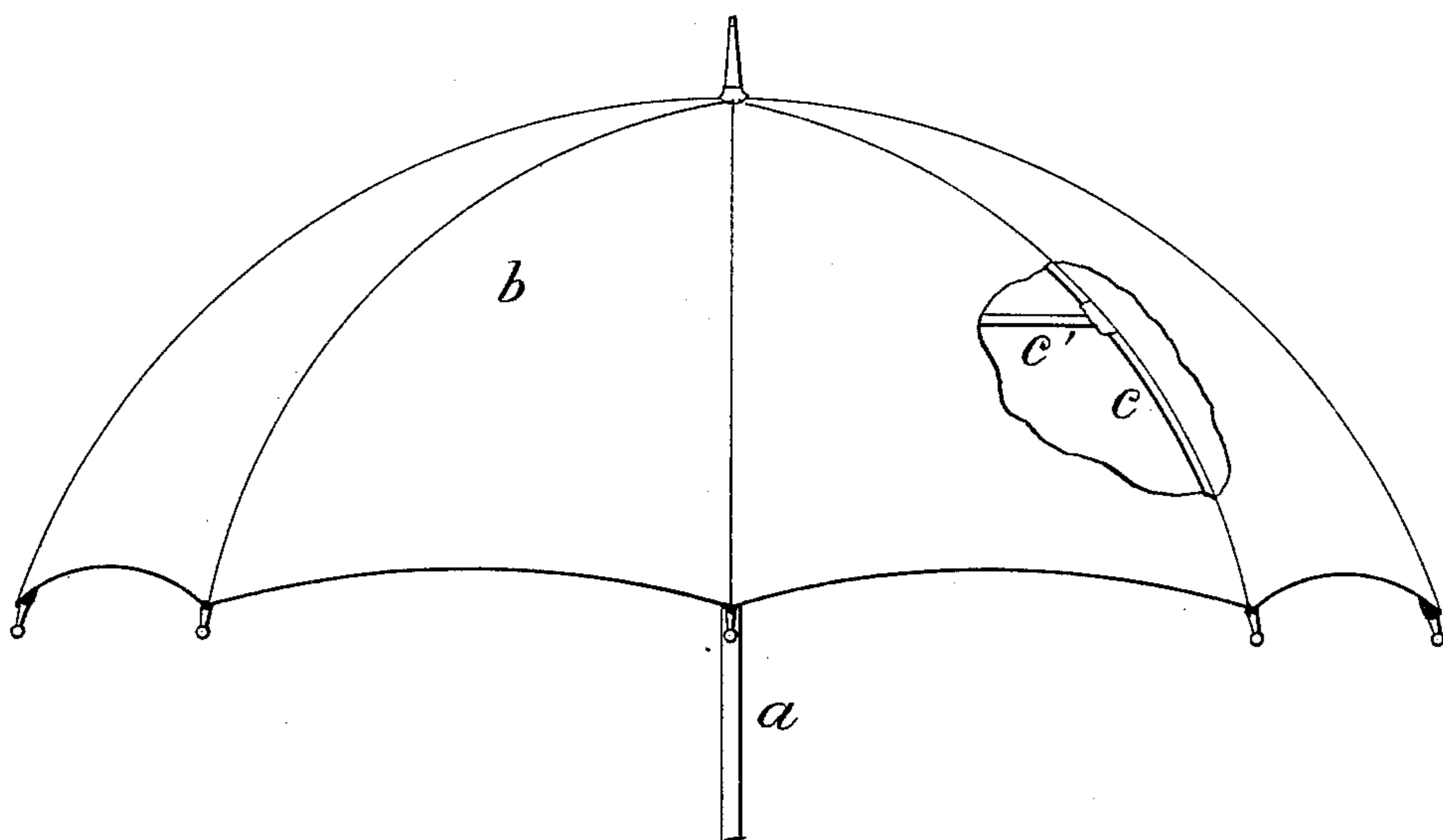
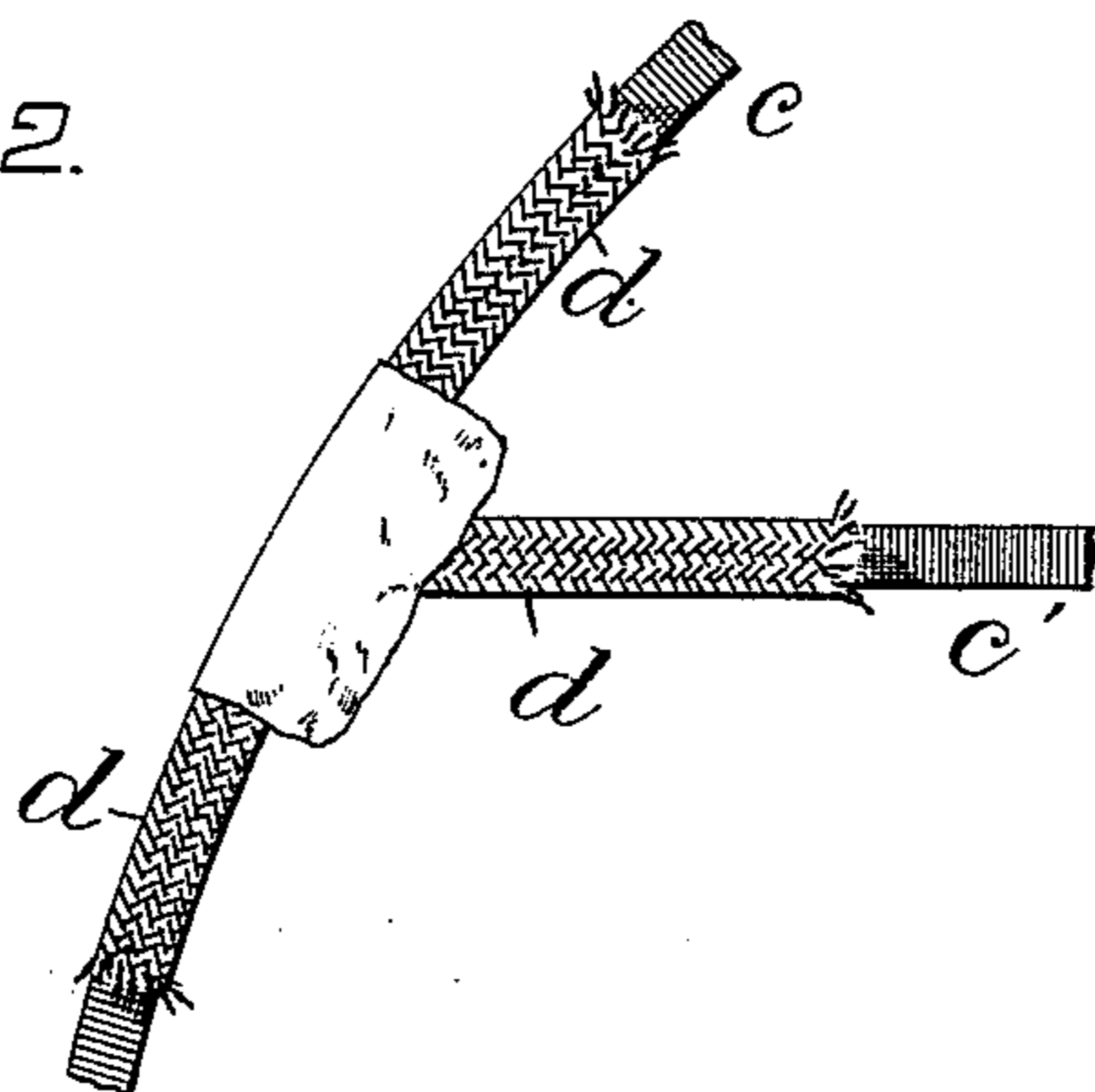


Fig. 2.



ATTEST:

*Julian H. Hurdle,*  
*Jos. L. Dimithorne.*

INVENTOR:

*Simon Heiter*  
*By R. Chewell*  
*his attorney*

# UNITED STATES PATENT OFFICE.

SIMON HEITER, OF NEW YORK, N. Y.

## UMBRELLA AND PARASOL.

SPECIFICATION forming part of Letters Patent No. 233,930, dated November 2, 1880.

Application filed July 8, 1880. (Model.)

### *To all whom it may concern:*

Be it known that I, SIMON HEITER, a citizen of the United States, residing at New York, in the county and State of New York, have invented a certain new and useful Improvement in Umbrellas and Parasols; and I do hereby declare that the following is a full, clear, and exact description, reference being made to the drawings accompanying and forming a part of the same.

The object of my improvement is to provide a neatly-fitting enveloping medium or cover for the frame, ribs, and stretchers of an umbrella and parasol, so as to protect the silk or other material with which the frame is covered from undue wear caused by the contact of the ribs; and to attain this end I envelop such ribs in a tubular case, as will be more fully set forth hereinafter.

In the accompanying drawings, Figure 1 is a side view of an umbrella, a portion being broken away to show the ribs; and Fig. 2 is an enlarged detail view of a portion of the ribs.

*a* is the handle of the umbrella, *b* the covering, and *c c'* the ribs and stretchers forming the frame.

In the manufacture of umbrellas and parasols it is essential, in order to make a tightly-fitting and slightly cover, that the material of which such cover is made should be drawn or strained over the ribbed frame as tightly as is possible and yet enable the cover to be tacked to each rib, and consequently those portions of the material which come into contact with the upper side and edges of the ribs soon wear out by the constant friction of the ribs upon it; likewise, when the umbrella is closed, the edges of the folds soon become cut from the contact of the material with the metal or whalebone ribs, and before long the umbrella

presents a series of uniform and unsightly holes.

To obviate this difficulty is the main purpose of my invention, and to accomplish my object I envelop all the ribs with a braided tubular casing, *d*. It is necessary that this casing should be braided especially for this purpose, and loose enough to possess considerable elasticity to enable it to be drawn over the ribs and cling tightly and smoothly to them, and at the same time present a soft yielding surface to the silk or other covering material. Before the covering is placed on the frame each rib is thus incased in the braided tube and the umbrella then finished up in the usual way.

By my improvement the danger of the cutting and wearing out of those parts of the cover which come in contact with the ribs before the other portions have become worn is entirely obviated.

It has been found by experience that the casing braided in tubular form is the simplest and most desirable for use; but I do not limit myself to this form alone, as it may be found desirable in some styles of frames to employ some other form.

I am aware that the ribs and stretchers of umbrella-frames have heretofore been covered by winding thereon strands of wool or silk, and therefore I do not claim this manner of covering such parts as my invention; but

What I do claim as my improvement, and desire to secure by Letters Patent, is—

In an umbrella, the ribs and stretchers *c c*, in combination with a tubular braided casing, substantially as herein set forth, and for the purpose described.

Witnesses:

SIMON HEITER.

FR. RAACKE,  
S. S. GLEN.