

No Model.)

A. J. ROBINSON.
DETACHABLE UMBRELLA COVER.

No. 512,903.

Patented Jan. 16, 1894.

Fig. 1.

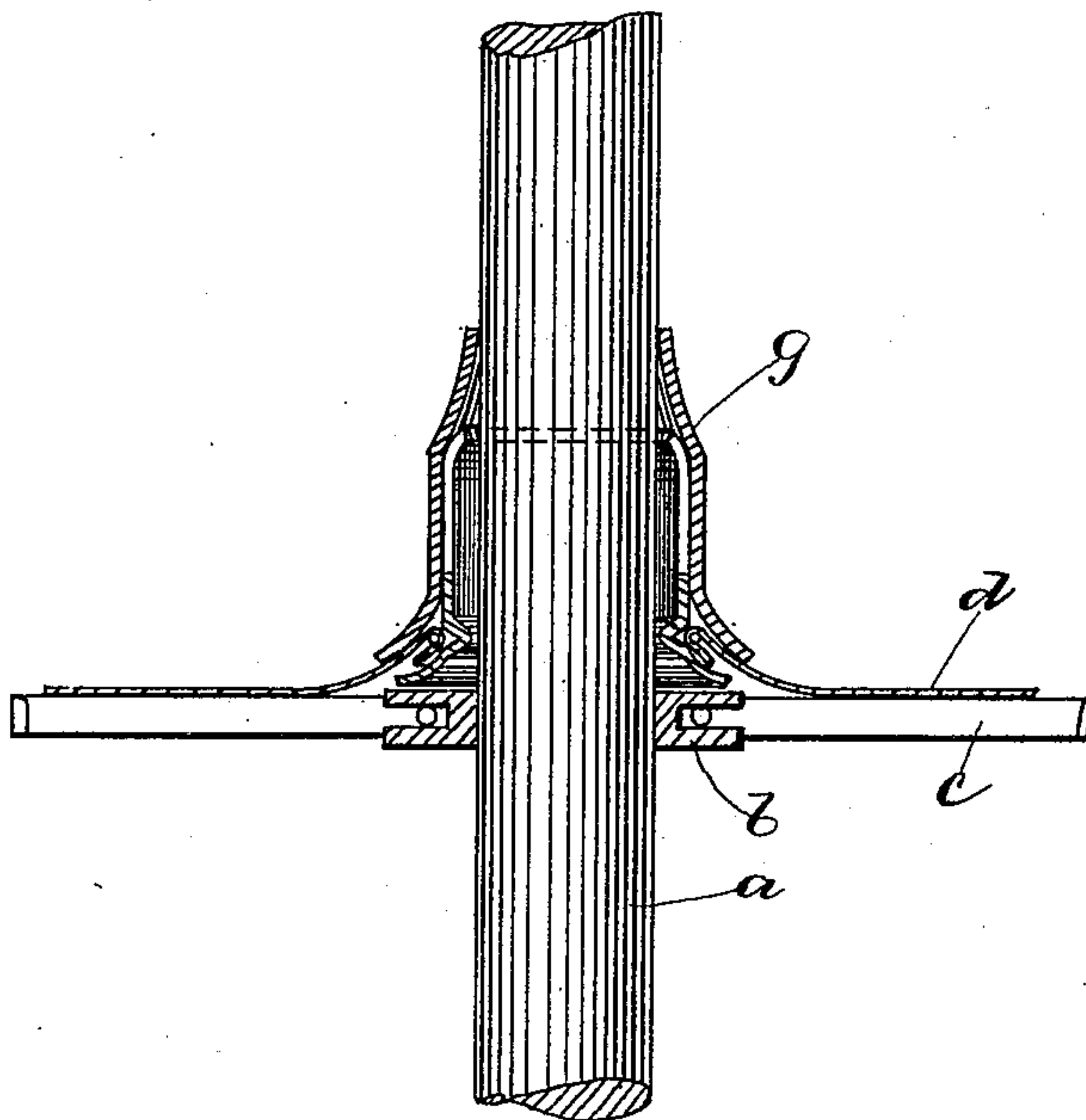


Fig. 2.

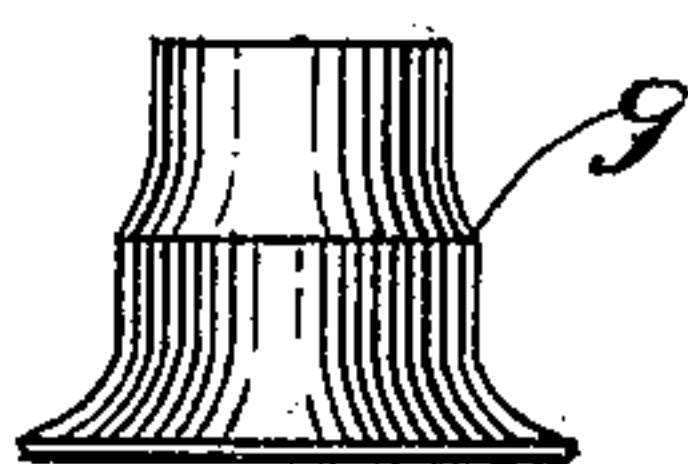


Fig. 3.

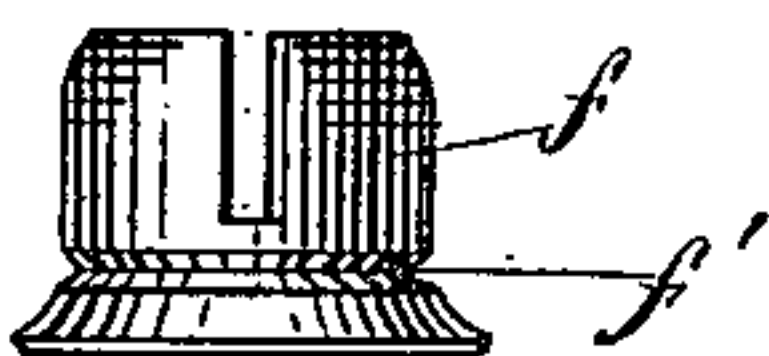
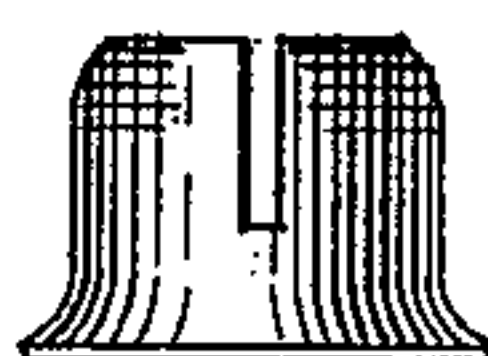


Fig. 4.



WITNESSES.

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UNITED STATES PATENT OFFICE.

ANDREW J. ROBINSON, OF BOSTON, MASSACHUSETTS.

DETACHABLE UMBRELLA-COVER.

SPECIFICATION forming part of Letters Patent No. 512,903, dated January 16, 1894.

Application filed December 19, 1892. Serial No. 455,611. (No model.)

To all whom it may concern:

Be it known that I, ANDREW J. ROBINSON, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Detachable Covers for Umbrellas, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

In detachable umbrella covers one of the most difficult results to be accomplished is to provide suitable means at the central or stick receiving opening to exclude the water, and at the same time present a neat finished appearance. Such detachable covers are usually put up in small boxes for sale, and are made of different sizes to conform to the different standard lengths of ribs or frames to which they are or may be attached. But while the ribs are made of standard lengths or substantially so, they are connected to sticks which vary materially in diameter, there being no standard sizes. Hence while it is an easy matter to make covers which will fit the frames, the difficulty arises in making a water tight central opening to fit the varying sizes of sticks. Attempts have been made to accomplish this result, as for instance by the employment of a flexible elastic washer or collar which would be self-forming to the varying sizes of sticks, but such means are objectionable because the finished product is too cumbersome, and unsightly and the life of the rubber is short. Metallic collars or caps have also been provided which have been secured to the stick, or to the notch which is rigidly connected with the stick, and when such collars or caps coincidentally snugly fit the stick they will exclude the water, but they are not adapted to be applied to an ordinary umbrella frame, requiring one of special construction, and hence the specially constructed umbrella frame is sold with a detachable cover thereon.

This invention has for its object to construct a detachable cover for umbrellas, which may be sold independently of the frame and which may be made of the different standard sizes to fit the different standard sizes of frames, and which has its central or stick receiving opening provided with suitable means

for snugly fitting the stick to thereby exclude water, and also present a neat finished appearance.

The means employed at the central or stick receiving opening of the cover which forms the essential feature of this invention consists of a ferrule composed of an inner part which is connected with the cover, and an outer part which is supported upon or by the inner part, being readily applied thereto or detached therefrom, and while said parts may be made of various shapes and proportions, the outer or detachable one is made to contact with the stick to thereby exclude water, and is hence termed the water-excluding cap.

As a preferable way of carrying out this invention, the outer or water-excluding cap has a cylindrical portion of a standard diameter to fit the inner part, and also a cylindrical portion of a lesser diameter to snugly fit the stick, and several different sizes of such water-excluding caps are made up, so that from a number of such caps one may be easily selected which will fit the stick to which the cover is to be applied, and when so selected it is placed upon the inner part of the ferrule, so as to be removed with the cover or independently at will. With each cover or number of covers sold a number of such water-excluding caps or collars of different sizes will be supplied, so that the selection may be easily made. The water-excluding cap being exteriorly arranged, also serves as a finishing cap, and when placed in position upon the inner part of the two part ferrule may assist in holding the cloth or material of the cover in place.

Figure 1, shows in vertical section the central or stick receiving portion of a detachable umbrella cover embodying this invention; Fig. 2, a side elevation of the outer member of the two part ferrule termed the water-excluding cap or collar; Fig. 3, a side elevation of the inner member of the two part ferrule termed the stick-receiving ferrule or collar, which is or may be connected with the cover, and Fig. 4, a modified form of stick-receiving ferrule or collar to be referred to.

The stick *a*, notch *b*, ribs *c*, and cover *d* provided with means at the outer edge (not

shown) for securing it to the ends of the ribs are or may be all of any usual or suitable construction.

The cover *d* has at its central or stick-receiving opening a ferrule composed of the inner part *f* represented as a collar, which is of suitable diameter to receive the sticks of all sizes, and is hence termed the stick-receiving ferrule, and the outer part *g* likewise represented as a collar or cap, and having a cylindrical portion of a standard diameter to fit and retain itself firmly upon the inner part *f*, and a cylindrical portion of a diameter to snugly fit the stick, to thereby exclude water, and hence said part is termed the water-excluding cap. The inner part *f* is slitted in order that the outer part may be more firmly retained thereon frictionally. The inner part *f* is or may be grooved circumferentially as shown at *f'*, Fig. 3, so that the cover may be connected with it by a cord *f*², which enters the groove; or said groove may be omitted as represented in Fig. 4, and the cover connected either by a cord or in any other suitable way.

The water-excluding cap *g* has a flange at its lower end to assist in holding the cover in place if desired, although said flange also assists in improving the general appearance of the cap. It will be seen that the water-excluding cap *g* is exteriorly arranged and hence serves as the finishing cap, and as shown presents an excellent appearance; and furthermore that said cap is detachably connected with the cover so as to be removed with said cover or not as desired. To cover the umbrella frame the cover of the proper size corresponding to the size of the frame is selected and placed upon the frame, after which the cap or collar *g*, which may be selected to fit the stick, is placed in position upon the part *f*.

While the part or collar *f* is herein shown as made of sufficient height to provide an efficient seat or support for the water-excluding cap, and furthermore is made in a single piece, it is obvious that it may be made in several pieces connected together or not as desired.

It will be obvious that when the parts are assembled the water excluding cap or collar will retain its position under all ordinary conditions, and furthermore that the parts may be assembled by an unskilled person.

I do not broadly claim a detachable cover having a ferrule at the central or stick receiving opening composed of two separate parts or collars adapted to be connected together or supported one upon or by the other, one of which is detachable and snugly fits the stick to thereby exclude water; nor do I herein claim broadly an independent metallic water-excluding cap having a contracted portion to snugly fit the stick when applied to or connected with the cover so as to be removed with it or not as desired, as such broad features form the subject matter of another

application Serial No. 458,085, filed by me January 11, 1893; nor do I herein claim any of the features claimed in said application. 70

I claim—

1. A detachable umbrella cover having a ferrule at the central or stick receiving opening composed of two separate collars, the inner one of which is attached to the cover and has a slitted cylindrical portion to yield to receive the outer one, and thereby hold it frictionally thereon, and the outer one has a contracted portion to snugly embrace the stick, substantially as described. 80

2. A detachable umbrella cover having a ferrule at the central or stick receiving opening composed of the outer detachable collar having an enlarged cylindrical portion of a standard diameter, and a contracted portion of a size to snugly fit the stick, and the inner collar likewise having a cylindrical portion of standard diameter to receive upon it the enlarged cylindrical portion of the outer collar, the cloth being held in place between said collars, said ferrule being held down upon the outer edge of the cover with the ribs, substantially as described. 90

3. A detachable umbrella cover having a ferrule at the central or stick receiving opening connected with it composed of the outer collar having an enlarged cylindrical portion of a standard diameter, and a contracted cylindrical portion of a size to snugly fit the stick, and the inner collar likewise having a cylindrical portion of standard diameter to receive upon it the enlarged cylindrical portion of the outer collar, substantially as described. 95

4. A detachable umbrella cover having a ferrule connected thereto at the central or stick receiving opening, composed of a stick-receiving collar, grooved to receive the binding cord of the cover, and having a cylindrical portion of a standard diameter, and a water-excluding collar or cap having a cylindrical portion of a standard diameter to fit upon and be supported by the stick-receiving collar, and having its upper end contracted to snugly fit the stick, said ferrule being held down upon the outer edge of the cover with the ribs, substantially as described. 105

5. A detachable umbrella cover having a ferrule at the central or stick receiving opening composed of an inner collar permanently attached to the cover, and a finishing cap selected to snugly fit the stick to thereby exclude water, thereafter connected to the inner collar, the cover with the completed ferrule being thereafter removable as an entirety, substantially as described. 120

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

ANDREW J. ROBINSON.

Witnesses:

GRACE A. ROBINSON,
BERNICE J. NOYES.