No. 734,311. PATENTED JULY 21, 1903.

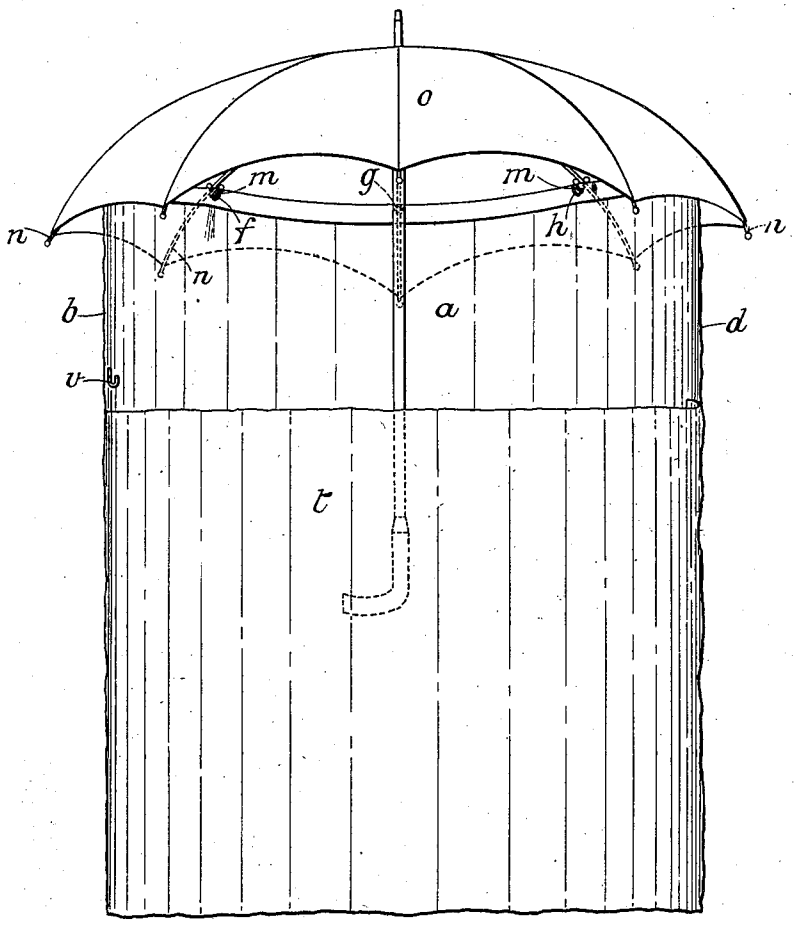
H. P. FERROUSSAT.

ATTACHMENT FOR UMBRELLAS.

APPLICATION FILED JAN. 26, 1903.

NO MODEL. 3 SHEETS—SHEET 1.

Fig. 1.



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Atty.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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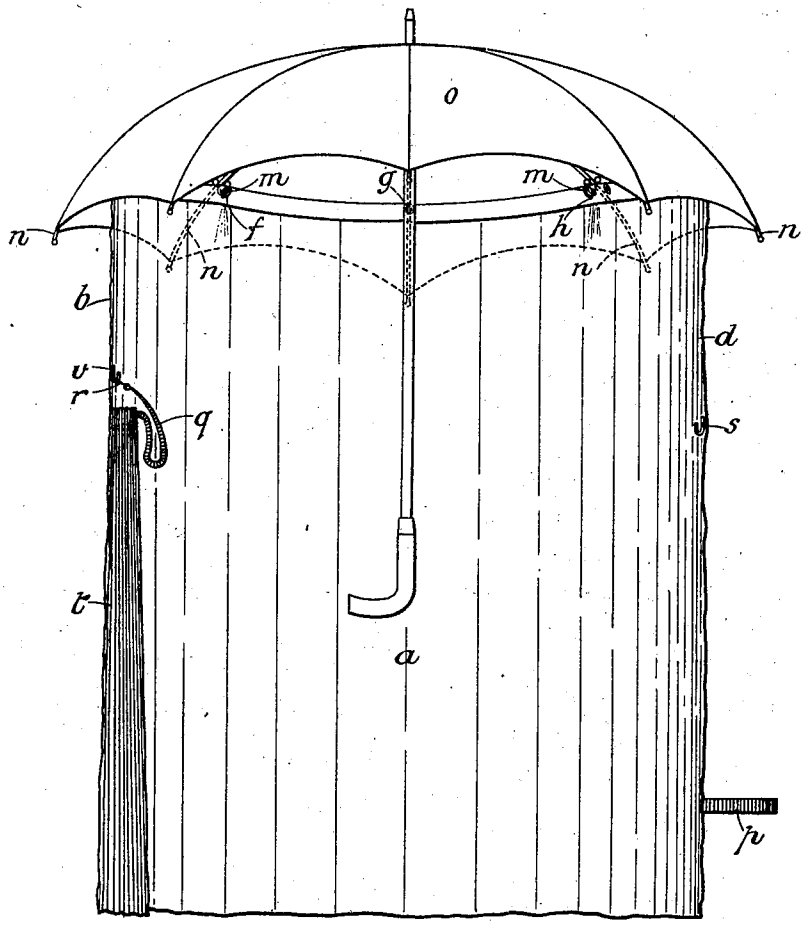
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APPLICATION FILED JAN. 26, 1903.

NO MODEL. 3 SHEETS—SHEET 2.

Fig. 2.



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APPLICATION FILED JAN. 26, 1903.

NO MODEL. 3 SHEETS—SHEET 3.

Fig. 3.

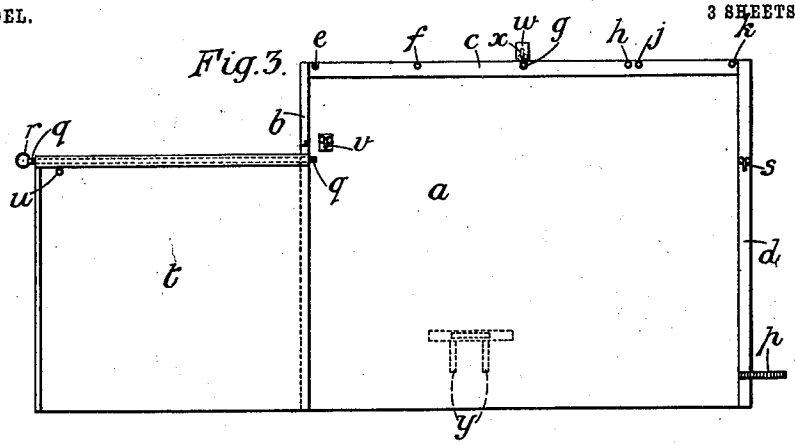


Fig. 4.

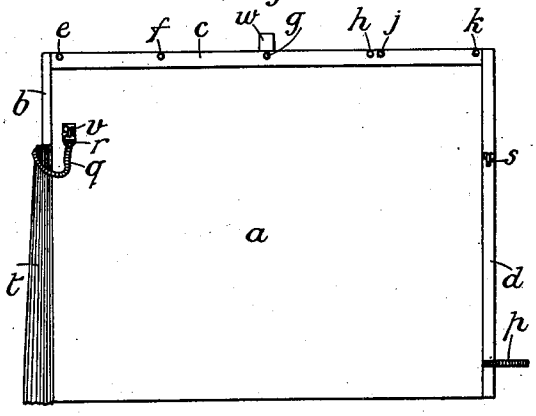


Fig. 7.

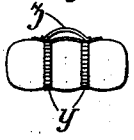


Fig. 8.

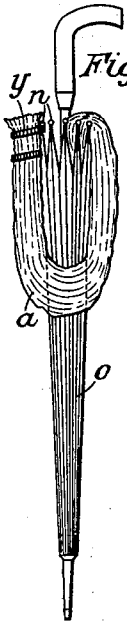


Fig. 5.

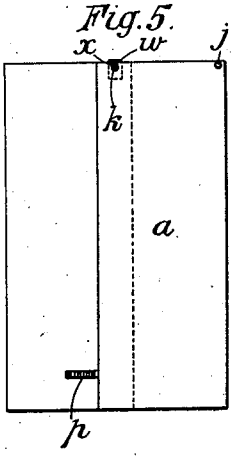
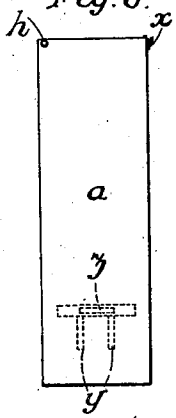


Fig. 6.



Witnesses:

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 734,311. Patented July 21, 1903.

UNITED STATES PATENT OFFICE.

HENRY P. FERROUSSAT, OF LONDON, ENGLAND.

ATTACHMENT FOR UMBRELLAS.

SPECIFICATION forming part of Letters Patent No. 734,311, dated July 21, 1903.

Application filed January 26, 1903. Serial No. 140,661. (No model.)

To all whom it may concern:

Be it known that I, HENRY PETER FERROUSSAT, a subject of the King of Great Britain, residing at London, England, have invented a certain new and useful Improved Attachment for Umbrellas, of which the following is a specification.

This invention relates to an improved attachment for umbrellas, whereby in addition to protecting the head and shoulders of a person carrying the same efficient protection against rain is afforded for the body and, if desired, also for the legs of the user. For this purpose, according to my invention, a detachable curtain is arranged to hang from the interior and to extend around one-half or any other desired portion of the circumference of the umbrella, said curtain being retained in position in any suitable manner—for example, by means of hooks. The curtain may be made of the same rainproof materials as those with which umbrellas are usually covered or it can be made of a waterproof material. The said curtain is provided with an apron which is joined to the lower half of one vertical edge thereof and which is adapted to be drawn across the front of the user and secured to the other side of the curtain. This apron serves to protect the lower front part of the body of the person carrying the umbrella without obstructing his view.

My present invention also comprises convenient means for packing the curtain and its apron in a portable form, as hereinafter described.

In the accompanying drawings, Figure 1 is a front view of one form of the curtain shown suspended from an open umbrella, the apron being opened out. Fig. 2 is a similar view to Fig. 1, but with the apron drawn or bunched up. Fig. 3 is an inside view of the curtain and its apron drawn to a smaller scale and shown in an extended position apart from an umbrella. Fig. 4 is a similar view to Fig. 3, showing the apron drawn or bunched up. Figs. 5, 6, and 7 are views illustrating successive stages in the folding up of the curtain. Fig. 8 is a view representing the umbrella closed with the curtain attached.

Like letters indicate corresponding parts throughout the drawings.

a is the curtain, which is preferably strengthened along its vertical and upper edges *b c d* by means of stitched folds or the like, and in the fold along the upper edge *c* are arranged a series of eyeleted holes *e f g h k*, adapted to hook on a series of hooks *m n*, fixed to the interior of the umbrella, preferably to the ribs at a suitable distance from the tips thereof. The curtain is of such width that it occupies when suspended about half the circumference of the umbrella. In lieu of attaching the hooks to the umbrella and the eyelets to the curtain the hooks may be on the curtain and the eyelet-rings on the umbrella. Any other equivalent mode of attachment may be used.

p is a loop of elastic material secured near the edge *d* for passing over a thumb or one of the fingers of the person holding the umbrella, and *q* is a band of elastic material secured at one end to one vertical edge *b* of the curtain and provided at its other end with means, such as an eye or ring *r*, for attachment to a hook *s*, secured to the other vertical edge *d* of the said curtain.

t is an apron having one edge attached to the lower part of the vertical edge *b* of the curtain *a* and having its upper edge turned over and stitched or otherwise secured, so as to form a channel through which slides the elastic band *q*. The apron *t* is also provided at its upper outer corner with means—for example, an eyeleted hole *u*—for engaging with the hook *s*, whereby the said apron can be secured across the opening between the vertical edges *b d* of the curtain. When the apron is not required for use, it is drawn up or gathered along the band *q*, and the ring *r* at the end of the said band can be hooked onto a hook *v* on the curtain *a*.

In order to facilitate the folding up of the curtain when detaching it from the umbrella, the said curtain is provided at or near the center with a flap *w*, formed of webbing or other suitable strong material and bearing a hook *x* on its outer side. This flap is adapted to be folded inward over the central eyelet-hole *g*, so that the hook *x* is then on the inside of the curtain. In folding up the curtain the apron *t* is first drawn up or gathered along the band *q* and the ring *r* put on the hook *v*, as shown in Figs. 2 and 4. The eyes *e* and *k* are then unhooked from their respective

hooks and successively placed on the hook *x*. The eyelet *h* is next unhooked and the curtain again folded and the extra eyelet *j* placed on the same hook as that carrying the eyelet *f*. The curtain can then be removed from the umbrella and rolled up into the form shown in Fig. 7, in which it can be held by elastic bands *y y*, secured thereto. A handle *z* is also provided for enabling the curtain to be easily carried; but it may be carried in a waterproof bag, if desired. It will be understood that the method of folding forms no part of my invention.

The umbrella can be closed without detaching the curtain, and the latter may then be hung over the tips of the ribs, or the end of the curtain may be gathered in one of the elastic bands *y*, which latter may then be hung on one or more of the ribs, as indicated in Fig. 8.

In some instances I arrange a tape in the upper edge of the curtain and secured at the middle, so that the curtain when unhooked from the umbrella may be drawn up or gathered on this tape and so closed instead of being folded.

What I claim is—

1. The combination of an umbrella, a curtain detachably suspended from the interior thereof, and an apron extending between the vertical edges of the curtain.

2. The combination of an umbrella, a curtain detachably suspended from the interior thereof and extending around about one-half the circumference of the umbrella, an apron permanently attached to one vertical edge of the curtain and means for temporarily attaching the free edge of the apron to the other vertical edge of the curtain.

3. The combination of an umbrella, a curtain detachably suspended from the interior thereof, an apron permanently attached to one vertical edge of the curtain, means for connecting the free edge of the apron to the other vertical edge of the curtain, and means to allow of gathering the apron to one side when not in use.

4. The combination of an umbrella, a curtain detachably suspended from the interior thereof, an apron permanently attached to one vertical edge of the curtain, means for connecting the free edge of the apron to the other vertical edge of the curtain, a band capable of sliding in the upper edge of said apron, and means for securing said band to the vertical edges of said curtain, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

H. P. FERROUSSAT.

Witnesses:
GEORGE HARRISON,
HENRY W. LYNDEN.