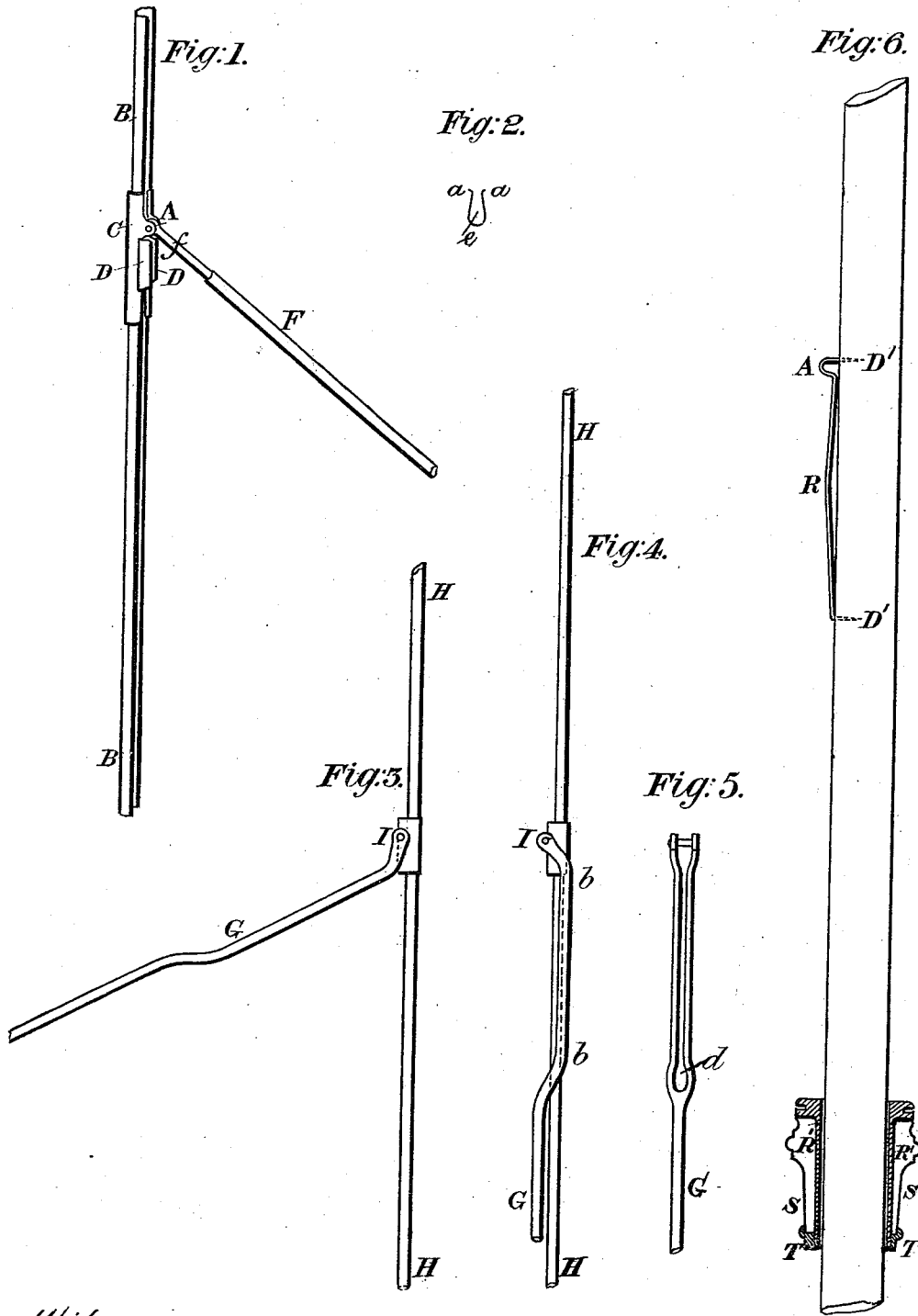


A. TESTE, Sr.  
Umbrella.

No. 208,347.

Patented Sept. 24, 1878.



Witnesses  
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# UNITED STATES PATENT OFFICE.

ANATOLE TESTE, SR., OF LYONS, FRANCE.

## IMPROVEMENT IN UMBRELLAS.

Specification forming part of Letters Patent No. **208,317**, dated September 24, 1878; application filed February 21, 1878; patented in England, June 19, 1877.

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

Be it known that I, ANATOLE TESTE, Sr., of 15 Rue de la Claire, Lyons, in the Republic of France, manufacturer, have invented new and useful Improvements in Umbrellas, Parasols, and Sun-Shades, which improvements are fully set forth in the following specification.

The essential feature of this invention consists in the employment of a series of lightly-flexible spring-clips, which, at the moment of closing the umbrella, lock each rib to its corresponding stretcher, and retain them coupled in a direction parallel to each other, thereby securely retaining the umbrella in a closed position without necessitating the use of a stop to act in connection with the runner.

When it is desired to open the umbrella, a slight effort exerted on the runner causes the spring-clips to open, and when fully opened the umbrella is retained in such position by a spring of peculiar form, thus obviating the necessity for any grooves in the stick, and not requiring the pressure of the thumb for closing.

The results obtained by this invention are, first, the power of opening and closing the umbrella by simply pushing or pulling the runner without having previously to disengage any spring; second, the opening out of the ribs is prevented by the secure closing of the umbrella.

In carrying this invention into effect the spring-clips employed to secure the umbrella in a closed position may be fixed upon each rib to clip each corresponding stretcher, or upon each stretcher to clip each corresponding rib.

The accompanying drawing, by giving an example of each of these two cases, will enable the principle of the invention to be understood.

The following is a description of the arrangement represented at Figures 1 and 2, in which the stretcher is clipped by the rib.

B is the rib. F is the stretcher, which is jointed to the rib by means of the hinge or joint A, which is carried by the furniture C, fixed upon the rib. Two metal clips, D D, are fixed upon this furniture below the hinge or joint, the sectional form of such clips being represented at Fig. 2. The width between the

sides *a a* of the clip being less than the diameter of the part *f* of the stretcher F, the latter, as it approaches the rib, will open out the parts *a a* and lodge itself in the space *e*, where it is retained by the elasticity of the sides *a a*.

The following is a description of the arrangement represented at Figs. 3, 4, and 5, in which the rib is clipped by the stretcher: There might be fixed to the stretcher a clip analogous to that before described, in which the rib could be received and held; but the elasticity of the forked portion of the stretcher G, which is connected to the rib H by the hinge or joint I, can be utilized. For this purpose the forked part of the stretcher is lengthened and bent, as shown, so that the parts *b b* may pass behind the rib when the umbrella is closed, as represented at Fig. 4. The distance between the parts *b b* is less than the diameter of the rib. The latter therefore opens out the parts *b b* in the act of being placed in the space *d*, (see Fig. 5,) where it is held.

The clips can also be adapted to the upper part of the umbrella by arranging at the top of each rib a clip of a similar character to that represented at Fig. 1, which would clip or seize a head of a nail or stud placed either upon the stick or upon the top notch-tube, which would be a little lengthened for the purpose, or else by arranging upon this tube a series of clips, which would seize or clip heads of nails or studs fixed to the ribs.

The umbrella is opened by pushing up the runner so that the stretchers pass beyond the horizontal. The runner then abuts against the stop A, (see Fig. 6,) which forms part of a spring, R, employed to press against the interior of the runner, in order securely to retain the umbrella in an open position.

To close the umbrella it is only necessary to pull down the runner without pressing upon the spring R, which latter is fixed to the stick by the two points D' D', as shown.

The runner is formed of an interior cylindrical tube, R', having no groove or slot therein, carrying at one end the notch to which the stretchers are jointed, and at the other end a screw-thread, on which is screwed a ferrule, T, which serves to hold in position the ornamental tube or cover S. The closing of the umbrella being obtained independently of the

runner, the latter is provided with no other accessory.

Having thus described the nature of the said invention and the mode in which I carry the same into effect, I would have it understood that what I claim is—

1. The clips D D, fixed to the ribs, and constructed and adapted to clip the parts *f* of the stretchers, in manner and for the purpose substantially as herein shown and described in respect to Figs. 1 and 2.

2. The clips D D, fixed to the stretchers, and constructed and adapted to clip the ribs, in manner and for the purpose substantially as herein described.

3. The clips D D, constructed and adapted

to clip onto the heads of nails or studs, substantially as described and shown.

4. The stretcher G, having the elongated forked part to adapt it to clip the rib, in manner and for the purpose substantially as herein shown and described.

5. The runner composed of an inner tube, R', and outer ornamental tube or cover, S, united together by a ferrule, T, screwing onto the tube R', in combination with the ribs, stretchers, and clips, substantially as herein shown and described.

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