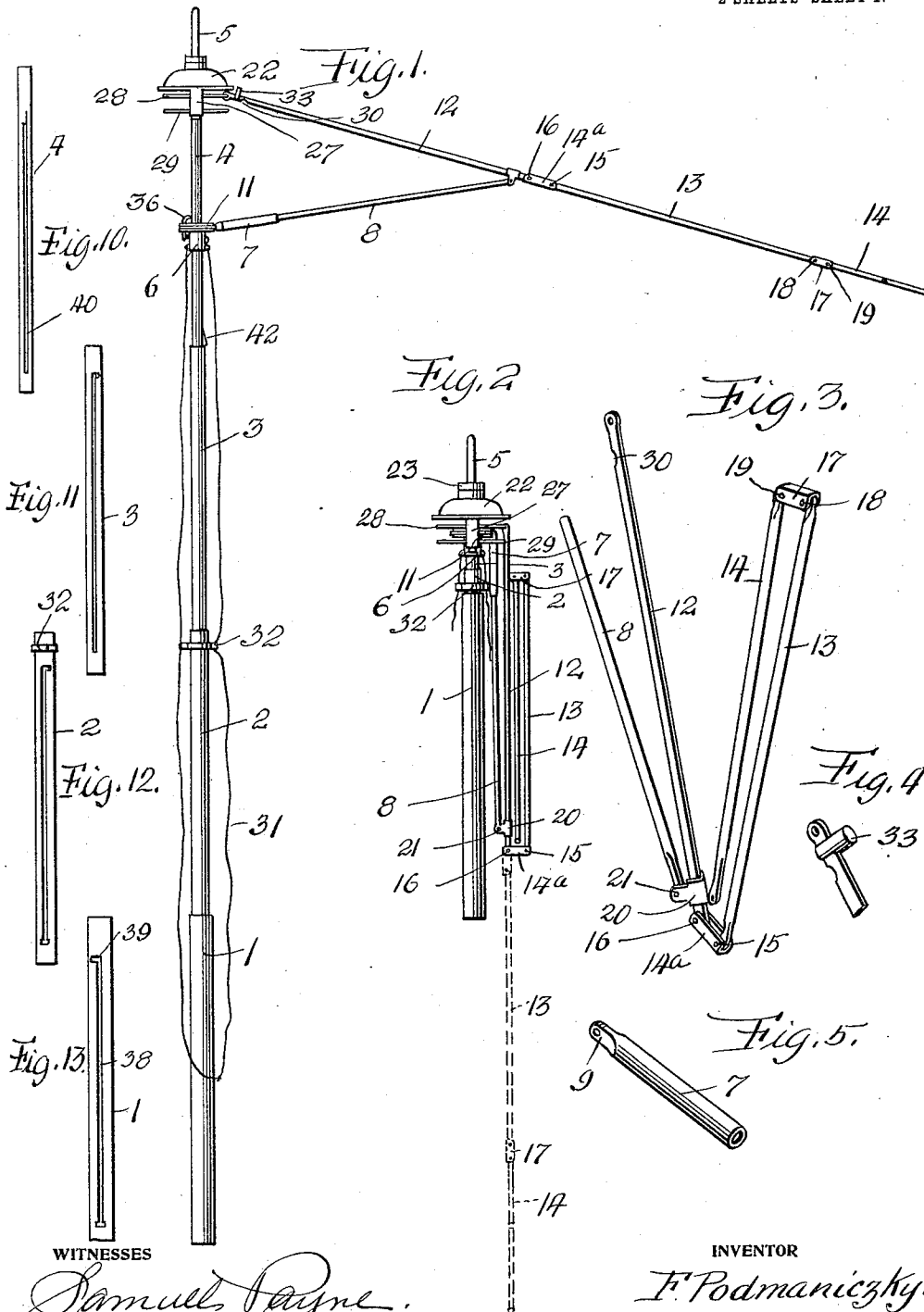


F. PODMANICZKY.
FOLDING UMBRELLA.
APPLICATION FILED MAR. 14, 1912.

1,052,954.

Patented Feb. 11, 1913.

2 SHEETS—SHEET 1.



WITNESSES

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Fig. 6.

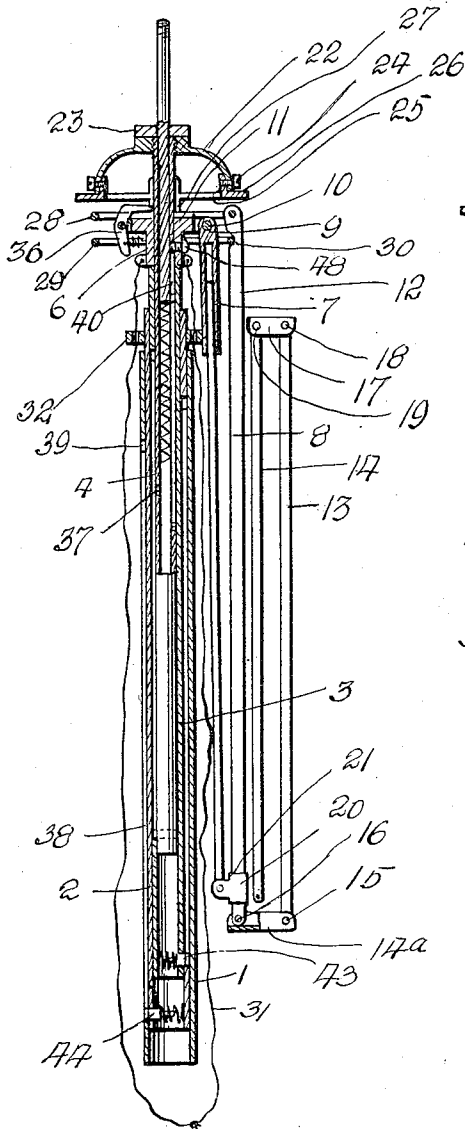


Fig. 7.

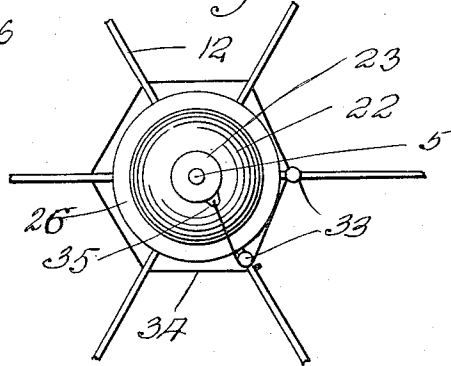


Fig. 8.

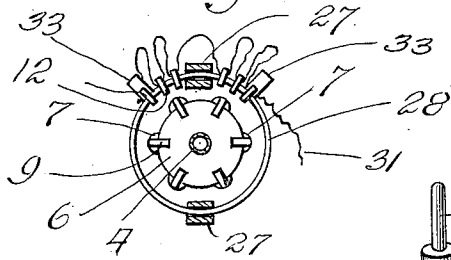


Fig. 9.

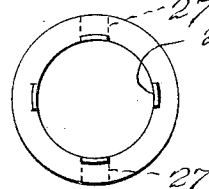
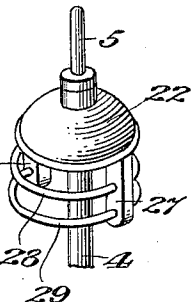


Fig. 14.



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UNITED STATES PATENT OFFICE.

FRANK PODMANICZKY, OF EAST PITTSBURGH, PENNSYLVANIA.

FOLDING UMBRELLA.

1,052,954.

Specification of Letters Patent.

Patented Feb. 11, 1913.

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To all whom it may concern:

Be it known that I, FRANK PODMANICZKY, a subject of the King of Hungary, residing at East Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Folding Umbrellas, of which the following is a specification, reference being had therein to the accompanying drawing.

15 This invention relates to folding umbrellas and has for its object to provide an umbrella of such class in a manner as hereinafter set forth which can be conveniently folded in a compact manner.

20 Further objects of the invention are to provide a folding umbrella which is strong, durable, efficient in its use, conveniently set up and foldable in an unusually compact manner.

25 With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts as hereinafter more specifically described and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claims hereunto appended.

30 In the drawings, Figure 1 is an elevation of a portion of an umbrella in accordance with this invention, illustrating the stick and a rib extended, Fig. 2 is a view of a portion of an umbrella in accordance with this invention, illustrating the stick and a rib folded and further illustrating in dotted lines the section of the rib extended, Fig. 3 is a view illustrating a rib and a stretcher connected thereto, Fig. 4 is a detail of the inner portion of one inner rib section, Fig. 5 is a perspective view of a coupling member for a spreader, Fig. 6 is a sectional elevation of a portion of the umbrella when closed, Fig. 7 is a top plan view with the ribs broken away, Fig. 8 is a sectional plan view illustrating the position of the ribs when the umbrella is folded, Fig. 9 is a detail of the supporting means for the cup, Figs. 10, 11, 12 and 13 are views illustrating the sections of the umbrella stick, and Fig. 14 is a detail.

50 Referring to the drawings in detail, the stick is formed of a series of telescopic sections 1, 2, 3 and 4 and a telescopic tip as indicated at 5. Mounted upon the section 4 of the stick is a runner 6 carrying a series of pivoted tubular coupling members

7, which are adapted to detachably receive the inner ends of the spreaders 8 when the umbrella is extended, thereby maintaining the spreaders in position. The coupling members 7 are hollow for a portion of their length and further formed with solid inner ends 9 which are mounted upon the pivot 10, carried by the flange 11 at one end of the runner 6, as clearly shown in Fig. 6.

Each of the ribs is formed of an upper section 12, an intermediate section 13 and an outer section 14. The section 12 is connected to the section 13 through the medium of a channel shaped link 14^a, which is pivoted at 15 to the inner end of the intermediate section 13 and at 16 to the outer end of the upper section 12. The section 13 is connected to the section 14 by a channel shaped link 17, which is pivoted as at 18 to the outer end of the section 13 and as at 19 to the outer end of the section 14. The links 14^a and 17 are so set up with respect to the rib sections that the section 14 can be folded back upon the section 13 and then the two sections folded back upon the section 12, as clearly shown in Fig. 3. The section 12 in proximity to its outer end has affixed thereto a collar 20, formed with a pair of inwardly extending lugs 21, to which is pivotally connected the outer end of the spreader 8. The inner end of the spreader 8, when the umbrella is extended, is positioned in the outer end of the coupling member 7, as clearly indicated in Fig. 1.

Connected to the outer end of the section 4 of the stick is a dome-shaped cap 22, maintained in position upon the stick against outward movement by a nut 23. The cap is connected by the rivets 24 and a pair of lugs 25, carried by a flat ring 26. The ring 26 has depending therefrom a pair of diametrically opposed supports 27, in which are mounted a pair of circular loops 28, 29. Pivotally mounted upon the loop 28 are the inner ends of the upper rib sections 12, these latter in proximity to their inner ends are notched as at 30 for the reception of the loop 29, the latter constituting a spacing loop to maintain the sections 12 away from the stick as illustrated in Fig. 6.

Connected to the runner 6 is a flexible member 31, which passes through apertured guide flange 32, carried by the section 2. The member 31 is utilized for pulling the runner 6 toward the handle end of the stick.

to position the spreaders to maintain the ribs extended.

To prevent a shifting movement of the ribs, certain of the upper sections of the ribs are provided with lugs 33 which associate with a flexible member 34. The said member 34 extends through the upper sections 12 of the ribs, around the lugs 33 and is connected to an apertured protuberance projecting from the cap 22. When the member 34 is passed off of one of the lugs 33, the ribs can be shifted to the position shown in Fig. 5, that is to say, when the umbrella is folded.

The runner 6 is provided with a latch 36, which engages in an opening 37 in the section 4 when the umbrella is extended, thereby maintaining the runner in the position to which it has been shiftable by the member 31 as shown in Fig. 1. Each of the sections 1, 2 and 3 of the stick is provided with a longitudinally-extending slot 38, having the upper end thereof angularly disposed as at 39. The section 4 is formed with a longitudinally-extending slot 40. To prevent the turning of the runner upon the section 4, the runner carries a screw 48 having its inner end extending in the slot 40. The section 4 is provided with a latch 42, which engages over the top edge of the section 3 to maintain the section 4 extended with respect to the section 3. The section 3 carries a spring latch which travels in the slot 38 of the section 4, and when the section 3 is slightly turned, the latch will engage in an angle shaped end 39 of the slot in the section 2, thereby maintaining the section 3 extended with respect to the section 2. The section 2 carries a spring latch 44, which travels in the slot 38 of the section 1, and when the said section is turned slightly, the latch engages in the angle shaped end of the slot 38 of the section 1, thereby maintaining the section 2 extended with respect to the section 1.

When it is desired to open the umbrella, the sections of the stick are extended and locked after which the member 31 is pulled toward the handle end of the stick, such action shifting the runner toward the handle end of the stick and to the position as shown in Fig. 1. If the spreaders are attached to the coupling members 7 when the runner is shifted in the manner as stated the ribs of the umbrella swing upwardly when the runner is shifted, but if the spreaders are not attached to the coupling members when the runner is shifted, after the runner has been

positioned, the inner ends of the spreaders are seated into the coupling members 7 which action will maintain the ribs in an extended position. After the ribs are extended the tip 5 is then pulled outwardly. The flexible member 34 is then connected to the lugs 33 which prevents the shifting of the ribs with respect to each other. When it is desired to fold the umbrella the sections of the stick are released and telescoped one within the other, the runner is then moved toward the cap 22 to the position shown in Fig. 6, and the ribs and spreaders then folded to the position shown in Fig. 6.

What I claim is:

1. An umbrella comprising a stick, a runner carried thereby, a circular loop surrounding said stick and of greater diameter than said runner, means connected with and projecting from the stick for supporting said loop, a series of foldable ribs having the inner sections thereof pivotally mounted upon said loop, a circular spacing loop surrounding the stick in proximity to the first mentioned loop and adapted to engage in the inner rib sections for spacing these latter from the stick, spreaders pivotally connected at their outer ends to said inner rib sections and adapted to have their inner ends connected to said runner.

2. An umbrella comprising a stick, a runner carried thereby, a circular loop surrounding said stick and of greater diameter than said runner, a series of foldable ribs having the inner sections thereof pivotally mounted upon said loop, a circular spacing loop surrounding the stick in proximity to the first mentioned loop and adapted to engage in the inner rib sections for spacing these latter from the stick, means connected with the stick and projecting therefrom and connected to the loops for supporting them, spreaders pivotally connected at their outer ends to said inner rib sections and having their inner ends connected with the runner, a cap connected to the stick and provided with means for supporting said loops, and means connected to the cap and extending through and connected to the inner rib sections for maintaining them in position when the umbrella is extended.

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

FRANK PODMANICZKY

Witnesses:

CHRISTINA T. HOOD,
H. C. EVERT.