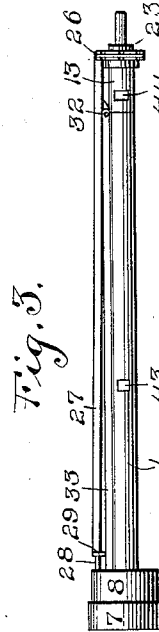
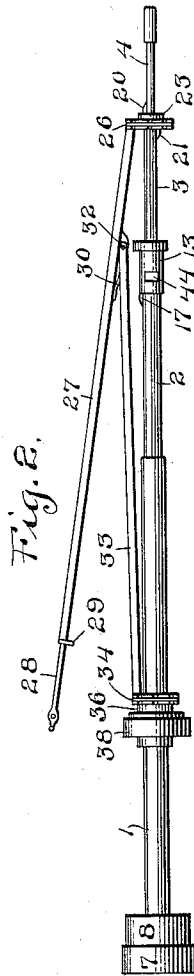
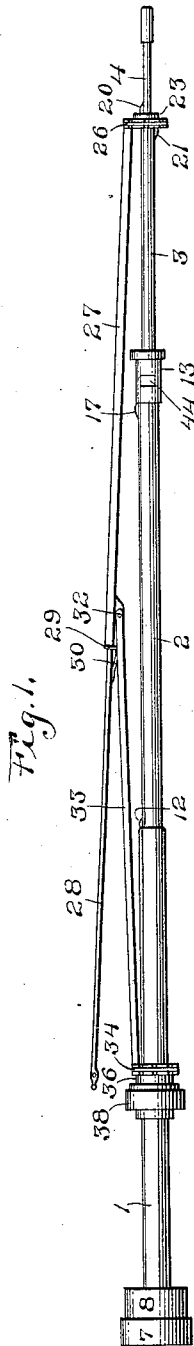


J. BOSNYÁKOVITS.
 UMBRELLA RUNNER LOCKING DEVICE.
 APPLICATION FILED NOV. 3, 1910.

Patented Jan. 21, 1913.

2 SHEETS—SHEET 1.

1,051,191.



Witnesses.

J. M. Smuggs
R. H. Butler

By

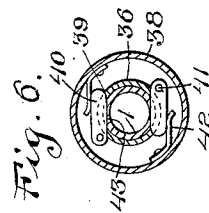
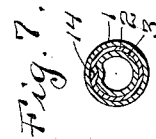
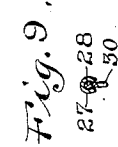
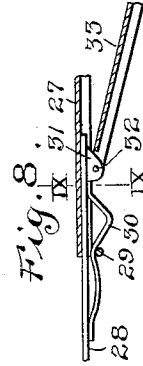
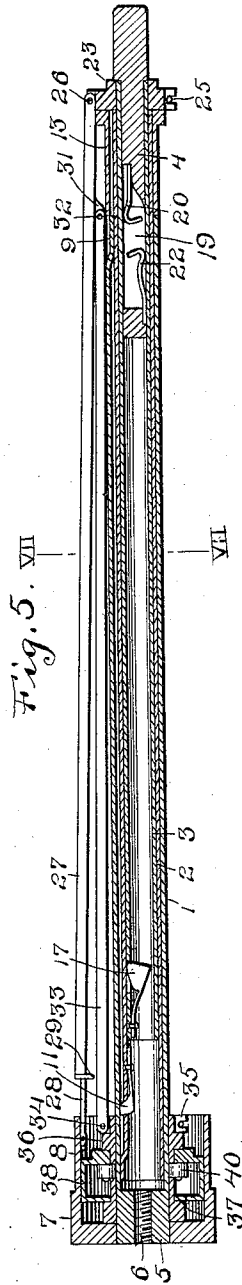
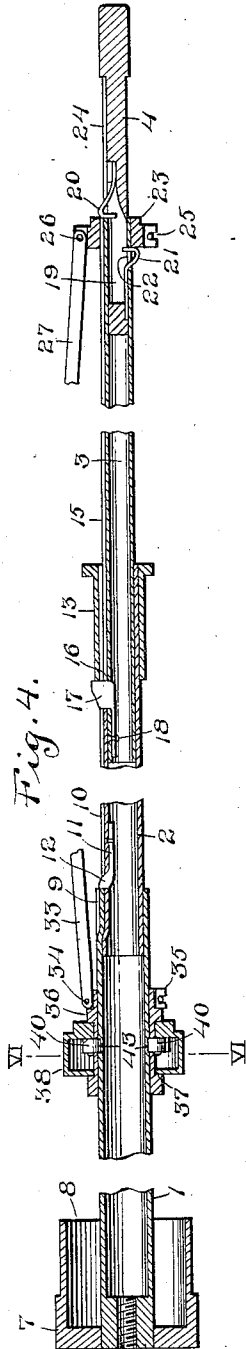
Inventor.
J. Bosnyákovits
N. C. Everett & Co.
 Attorneys.

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1,051,191.

Patented Jan. 21, 1913.

2 SHEETS—SHEET 2.



Witnesses.
J. H. Murgess
K. H. Butler

Inventor
 J. Bosnyákovits
 By *A. C. Ever* Co. Attorneys.

UNITED STATES PATENT OFFICE.

JOSEPH BOSNYÁKOVITS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF
TO STEPHEN BOSNYÁKOVITS, OF PHILADELPHIA, PENNSYLVANIA.

UMBRELLA-RUNNER-LOCKING DEVICE.

1,051,191.

Specification of Letters Patent.

Patented Jan. 21, 1913.

Application filed November 3, 1910. Serial No. 590,478.

To all whom it may concern:

Be it known that I, JOSEPH BOSNYÁKOVITS, a subject of the King of Hungary, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Umbrella-Runner-Locking Devices, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to umbrellas, more particularly to a locking device for the runner, and has for its object to provide a device for such purpose in a manner as hereinafter set forth, which is simple in its construction and arrangement, strong, durable, efficient in its use and comparatively inexpensive to manufacture.

The foregoing and such other objects as may hereinafter appear are attained by the novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed, and reference will now be had to the drawings forming part of this specification, wherein there is illustrated a preferred embodiment of the invention, but it is to be understood that the structural elements thereof are susceptible to such changes as fall within the scope of the appended claims.

In the drawings:—Figure 1 is a side elevation of the stick and one of the ribs and spreaders, the remaining ribs and spreaders being omitted, the elevation showing the stick in an extended position and the rib thereof closed in such position that the umbrella can be immediately used, Fig. 2 is a similar view showing the stick and rib partially folded or telescoped, Fig. 3 is a similar view showing the stick and rib completely folded or telescoped, Fig. 4 is an enlarged longitudinal sectional view of the stick of the umbrella partly broken away, showing the sections or parts thereof in an extended position, Fig. 5 is a similar view showing the stick in a collapsed or folded position, Fig. 6 is a cross sectional view taken on the line VI—VI of Fig. 4, Fig. 7 is a similar view taken on the line VII—VII of Fig. 5, the ribs and spreaders thereof being omitted, Fig. 8 is an enlarged longitudinal sectional view of a portion of one of the ribs and the spreader thereof, and Fig. 9 is a cross sectional view taken on the line IX—IX of Fig. 8.

An umbrella in accordance with this invention comprises a telescopic stick and telescopic ribs, the stick consisting of a plurality of sections and the ribs consisting of two sections, each having one of the sections thereof pivotally connected to a spreader which is pivotally connected to a runner slidably mounted upon the telescopic stick.

The stick comprises a tubular handle section 1, a tubular intermediate section 2, a tubular tip section 3, and a tip 4. The tubular handle section 1 has the lower end thereof closed, as at 5 and provided with an opening 6, the walls of which are threaded to receive the threaded shank of a suitable handle (not shown). Soldered or otherwise secured upon the closed end of the section 1 is a cylindrical runner housing 7 having the upper end thereof open, as at 8 to receive a runner to be hereinafter described.

The upper end of the tubular handle section 1 is provided with a depressed portion extending longitudinally and constituting a rib 9 adapted to slide in a longitudinal groove 10 provided therefor in the tubular intermediate section 2, said groove extending from the upper end of said section to within proximity of the lower end thereof, the rib and the unrecessed portion of the section 2 forming a stop to limit the outward or extending movement of said section, said rib 9 however, permitting of the intermediate section 2 being telescoped within the handle section 1. The lower end of the intermediate section 2 is provided with a resilient detent or latch 11 adapted to extend through an opening 12 provided therefor in the lower end of the intermediate section and engage the upper end of the tubular handle section 1 at the depression 9 thereof to form a lock to prevent the return or telescoping of said sections 1 and 2.

Mounted upon the upper end of the tubular intermediate section 2 is a collar 13 having a longitudinally extending depressed portion to provide a rib 14 adapted to slide in a longitudinal groove 15 provided therefor in the tubular tip section 3, the depressions 9 and 14 preventing the sections 2 and 3 of the stick from rotating. The longitudinal groove 15 of the tubular tip section 3 extends from the upper end thereof to within proximity of the lower end thereof, the

lower end of the groove terminating in an opening 16 through which protrudes a resilient detent 17 secured, as at 18 in the lower end of the tubular tip section 3, said section 2 also having a slot 2^a below and within the collar, said slot, when alined with the opening 16, permitting the detent to engage under the lower end of the collar 13 and hold the tubular section 3 in an extended position relatively to the tubular intermediate section 2.

The lower end of the tip 4 is slidably mounted in the upper end of the tubular tip section 3, said tip having the lower end thereof slotted, as at 19 and arranged in said slot are two resilient detents or latches 20 and 21, the former being adapted to protrude from the slot 19 and engage the upper end of the tubular tip section 3, and the latter is adapted to protrude through an opening 22 provided therefor in the upper end of the tubular tip section 3 and engage the under side of a notch 23 mounted upon the upper end of the tubular tip section 3. The tip 4 is also longitudinally grooved, as at 24 to receive a depressed portion at the upper end of the tubular tip section 3, whereby the tip 4 cannot rotate in said section.

The material for the tip sections may be of any suitable metal. I prefer however, to employ steel for this portion of the structure, and I use this metal generally throughout the entire framework. The objectionable feature inherent in steel, namely, the tendency to oxidation, is obviated by subjecting parts to the well known bluing process, which has the double advantage of producing the desired temper and at the same time rendering the metal rust-proof.

The notch 23 is provided with the usual groove 25 for a retaining wire 26 adapted to pivotally hold the upper ends of the ribs of the umbrella, each rib comprising an upper channel-shaped section 27 and a lower rib section 28 adapted to slide in the channel-shaped section 27. The lower end of the upper section 27 is provided with an eye 29 and extending through said eye is a compound curved resilient latch 30 having one end thereof connected to depending apertured lugs 31, carried by the upper end of the rib section 28. The latch 30 is adapted to retain the rib section 28 in an extended position relatively to the upper section 27, but permits of said rib section being easily pushed into the upper section 27. Pivotally mounted between the apertured lugs 31 of the rib section 28 by a pin 32 is the end of a spreader 33, which is also channel shaped in order to add rigidity to the same. The lower end of the spreader 33 is pivotally connected by a retaining wire 34 to the upper grooved and notched end 35 of runner 36 slidably mounted upon the stick sections 1 and 2. The runner 36 has a circumferen-

tially arranged groove 37 and rotatably mounted in said groove is a hollow collar 38. The runner 36 is provided with two diametrically opposed slits or slots 39, and normally retained in said slits or slots are pivoted latches 40, said latches being pivotally mounted by pins 41 within the collar 38, the latches 40 being reversely arranged whereby the collar 38 can be rotated, for a purpose that will presently appear. The pivoted latches 40 are normally retained within the slits or slots 39 by small flat springs 42 secured to the inner side of the collar 38 at diametrically opposed points. The pivoted spring pressed latches 40 are adapted to engage in diametrically opposed segment-shaped grooves 43 provided therefor in the tubular handle section 1, also in similar grooves 44 provided therefor in the collar 13.

As in all umbrellas, a cover (not shown) made of a suitable fabric is employed and connected to the notch 23, the lower ends of the upper rib sections 27 and the lower ends of the rib section 28 in the usual manner.

To fold the umbrella when in an open position as shown in Fig. 1, the lower ends of the rib sections 28 are grasped in one hand, the collar 38 partially rotated with the other hand to shift the pivoted spring pressed latches 40 out of engagement with the grooves 43. The lower rib sections 28 are then pushed upwardly carrying the stretchers 33 and the runner with them, the section 28 telescoping within the section 27 and the runner moving over the section 1 onto section 2. While still grasping the ribs, the detent 12 is then pressed inwardly releasing the section 1 and permitting it to be pushed upwardly upon the intermediate section 2, the upper end of the section 1 passing through the runner and riding into engagement with the detent 17, pressing the same inwardly until the detent lies wholly within the planes of the section 2, said section riding into contact with the collar 13, this movement continuing until the runner is housed within the housing 7. As the outer face of the detent is beveled, the movement of the section 1 outward provides an inward movement to the detent, and this movement of the detent 17 causes its lower end to be pressed below the wall of the slot 2^a, in position where the movement of section 3 will cause the detent to pass entirely within the planes of said section 3. It is then only necessary to press inwardly upon the latch 20 and push the tip 4 into the tubular tip section 3, the latch 21 readily riding out of the opening 22.

To open the umbrella when closed, the operator grasps the lower ends of the ribs and by a steady pull the tubular handle section 1 is moved through the runner until

the detent 11 is encountered and released. By then gripping the runner, it can be moved downwardly a sufficient distance on the intermediate section 2 to allow said runner and the lower ends of the rib sections 28 to be grasped, and by continuing the downward pull the rib sections 28 can be withdrawn from the rib sections 27. It is now only necessary to pull the tip 4 out of the tip section 3 and the umbrella is in position for use.

When it is desired to carry the umbrella in the position shown in Fig. 1, whereby it can be used for walking purposes, it is only necessary to rotate the collar 38 of the runner 36 to allow the latches 40 to engage in the grooves 43.

To raise the umbrella and use the same as a shield or protection from rain, the collar 38 of the runner 36 is rotated to release the latches 40, the runner pushed upwardly upon the sections 1 and 2 until it rides upon the collar 13, and then the collar 38 is rotated to place the spring pressed pivoted latches 40 in engagement with the grooves 44.

The runner housing 7 is made of a sufficient diameter to accommodate the lower ends of the rib sections 28 besides the runner 36 and the collar 38 thereof, thereby holding the ribs in their folded position and presenting a parcel that can be easily carried in a valise or in the pocket of a coat.

What I claim is:—

1. In an umbrella, a stick provided with a pair of grooves, a runner mounted thereon and provided with a rotatable collar, and a

plurality of spring controlled locking devices carried by the collar and capable of being shifted into said grooves when the collar is operated whereby the runner is locked upon the stick.

2. An umbrella comprising a stick, a runner mounted thereon and provided intermediate its ends with slots and further provided intermediate its ends with a rotatable collar, and locking means carried by the collar and shiftable thereby to extend through said slots and engage in the stick for locking the runner upon the stick.

3. An umbrella comprising a stick, a runner mounted thereon and including a tubular body portion provided with a peripheral groove and further having a slot opening into said groove, a shiftable collar mounted in the groove, and a spring controlled locking device carried by the collar and capable of being shifted thereby and engage in the stick for locking the runner.

4. An umbrella comprising a stick formed of a plurality of telescopic sections, a runner adapted to be shifted upon the larger section when the runner is lowered, and a collar mounted upon a section of smaller diameter to make the latter the same diameter as the larger section for the purpose of accommodating the runner when raised.

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

JOSEPH BOSNYÁKOVITS.

Witnesses:

MAURICE L. WURZEL,
ALBERT GRAYER.