

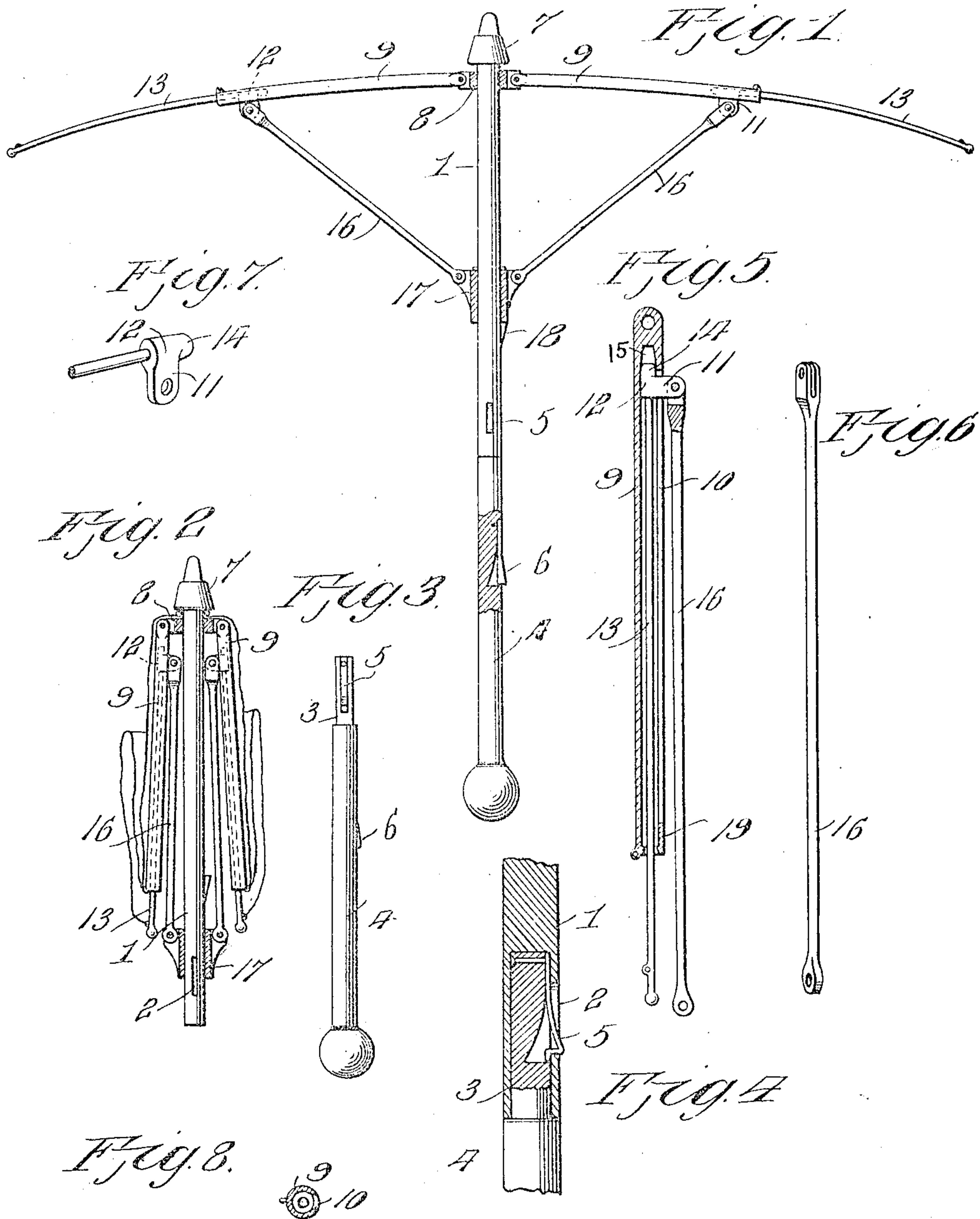
W. H. TAYLOR.

UMBRELLA.

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910,095.

Patented Jan. 19, 1909.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM H. TAYLOR, OF FAYETTEVILLE, TENNESSEE.

UMBRELLA.

No. 910,095.

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To all whom it may concern:

Be it known that I, WILLIAM H. TAYLOR, citizen of the United States, residing at Fayetteville, in the county of Lincoln and State of Tennessee, have invented new and useful Improvements in Umbrellas, of which the following is a specification.

This invention relates to new and improved umbrellas which may be folded together, or reduced in size so that the same can be put away in a small trunk or satchel or opened out and expanded into an umbrella of the usual size when required for use.

With these and other objects in view, which will appear as the description progresses, the invention resides in the novel construction and arrangement of parts, hereinafter fully described and claimed.

In the accompanying drawing, Figure 1 is a side elevation of the device in its raised position, parts being shown in section to more clearly illustrate the details of construction. Fig. 2 is a similar view showing the device in its collapsed and folded position. Fig. 3 is a front elevation of the detachable handle. Fig. 4 is a detail sectional view illustrating the manner of securing the handle to the staff. Fig. 5 is an enlarged detail sectional view through the hollow rib, illustrating the position of the sliding portion of the rib when the latter is telescoped within the hollow rib. Fig. 6 is a detail perspective view of one of the braces. Fig. 7 is a detail perspective view of the head secured upon the outer rib members. Fig. 8 is a transverse sectional view through one of the hollow ribs.

Referring to the accompanying drawing the numeral 1 indicates the staff of the improved umbrella. This staff 1 has its lower portion provided with a tubular recess having its wall slit or cut away as indicated by the numeral 2. The tubular recess is adapted for the reception of a reduced extending portion 3 provided upon a detachable handle 4. The reduced extension 3 is also provided with a spring latch 5, which, when the handle is positioned upon the staff 1, is adapted to engage the lower wall provided by the slit or cut away portion 2. The handle 4 is also provided with a spring latch member 6 positioned within a recess provided by the handle and adapted for a purpose hereinafter to be described.

The numeral 7 indicates the top notch of

the staff 1 and 8 the ring secured upon the staff and which is adapted for pivotal engagement with the ribs 9 of the device. The ribs 9, in the present instance, each comprise hollow members having their rear faces provided with a longitudinally extending slit or cut away portion upon their lower faces as indicated by the numeral 10. This slit or cut away portion 10 communicates with the interior of the hollow ribs 9 and is adapted for the reception of an outwardly projecting offset portion 11 formed upon the head 12 of the outer rib members 13. The head 12 is provided with a cone-shaped projection 14, which is adapted to coact with a cone-shaped reduced portion 15 provided by the upper portion of the hollow brace 9. Pivotaly connected with the extensions 11 of the heads 12 are the braces 16. These braces 16 are of the usual construction and have their lower ends provided with the usual eyes by which they are pivotally connected with the runner 17 slidably mounted upon the staff 1.

The operation of the device is as follows: The staff 1 is provided with an outwardly projecting spring catch 18 which is adapted to engage the under face of the runner when the umbrella is in its raised position. When the umbrella is to be folded without being collapsed the spring 18 is forced within the opening provided for it by the staff 1 and the runner brought downwardly upon the staff 1 and the handle 4 until the catch 6 provided by the handle engages the upper portion of the runner and securely locks the same. When the umbrella is to be collapsed, the runner 17 is slid downwardly upon the staff 1, and the outer sliding ribs are allowed to slide within the ribs 9 until the cone-shaped extensions 14 engage the cone-shaped reduced recess within the hollow ribs. The cone-shaped extension 14 frictionally engaging the recess 15 forms a lock between the section 9 and the sliding section 13, so that the members are effectively retained in collapsed position and when the runner is slid upwardly to open the umbrella the braces 16 force the heads more tightly into engagement with the cone-shaped recesses of the hollow ribs until the ribs are spread upwardly when the head of the extensions 13 will slide outwardly within the hollow ribs 9 and contact with the shoulder 19 provided at one end of the slit or cut away portion 10 when the spring catch 18 engages the under surface

of the runner 17 and securely retains the braces and ribs in their open position, as illustrated in Fig. 1 of the drawing.

From the above description, taken in connection with the accompanying drawing, it will be noted that I have provided an extremely simple, cheap and effective umbrella, one which may be readily and easily collapsed and folded into small compass, or one, should it be desired may be readily employed as an ordinary umbrella.

Having thus fully described the invention what is claimed as new is:

In a folding umbrella, a staff, a handle removably connected with the staff, spring catches upon the handle, a ring secured to the staff, a plurality of hollow ribs pivotally connected with the ring, said hollow ribs having their under faces provided with lon-

gitudinally cut away portions, and the channel provided by the ribs having one of its ends tapering or cone-shaped, extensions for the ribs, a slidable head for each of these extensions, said head having a cone-shaped extension, and a right angular member provided with eyes and projecting through the longitudinal cut away portion of the hollow ribs, a runner upon the staff, a spring catch adapted to normally engage the runner and sustain the same in raised position, and brace members pivotally connecting the runner and the extending portion of the head.

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

WILLIAM H. TAYLOR.

Witnesses:

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