

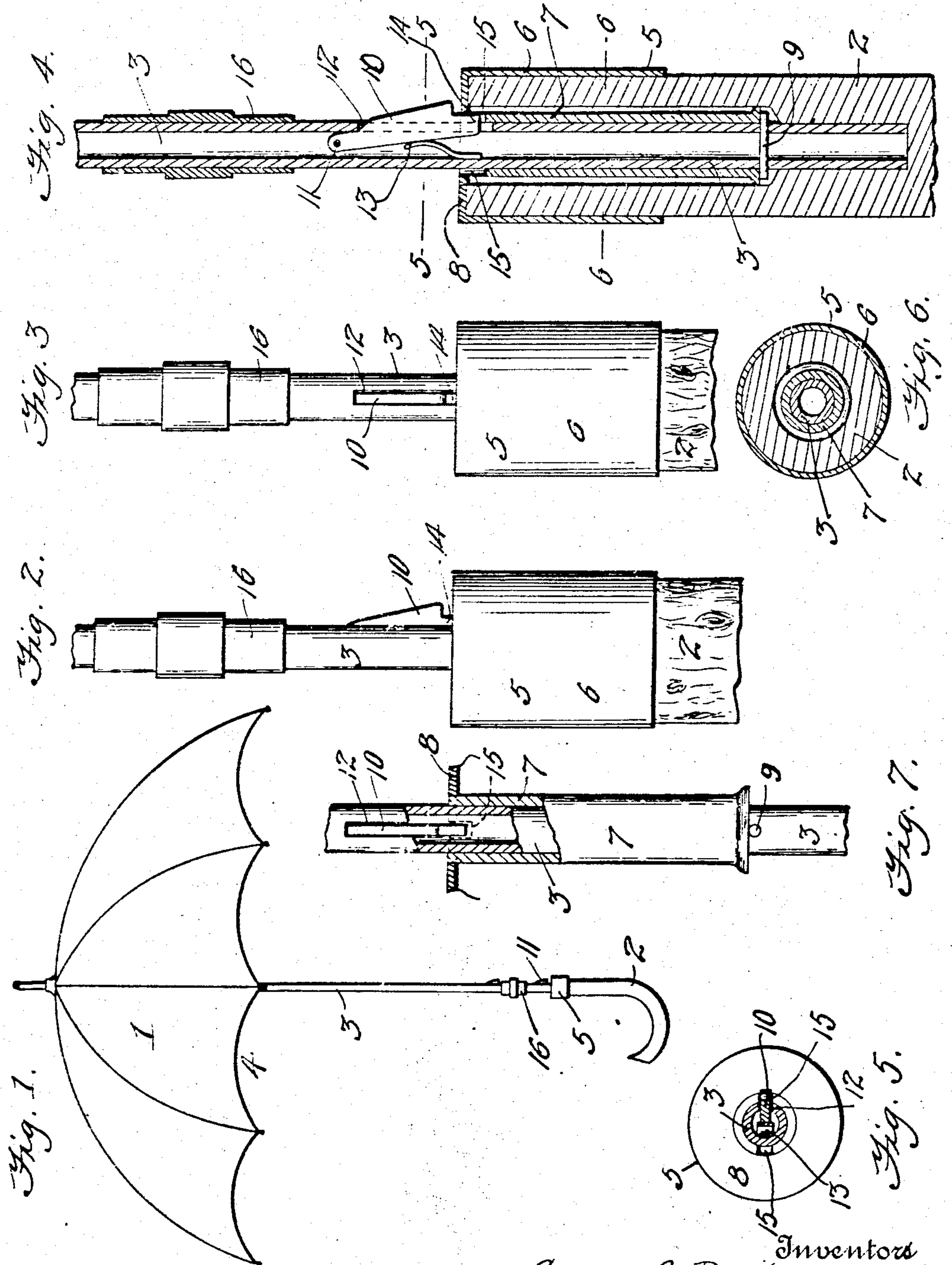
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PATENTED AUG. 14, 1906.

G. S. & J. M. BOWLING.

UMBRELLA.

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Witnesses

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UNITED STATES PATENT OFFICE.

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UMBRELLA.

No. 828,810.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, GEORGE S. BOWLING and JAMES M. BOWLING, citizens of the United States, residing at Clarksville, in the county of Montgomery and State of Tennessee, have invented certain new and useful Improvements in Umbrellas; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to improvements in umbrellas, parasols, and the like, and more particularly to one in which the frame or top is mounted to revolve.

The object of the invention is to provide an umbrella of this character in which its frame or top will be revolvably mounted in a simple and practical manner, so that it may revolve with respect to the handle when a person or obstruction of any kind strikes it, the revolving of the frame or top preventing injury to the covering and also the wrenching or twisting of one's hand.

Another object of the invention is to provide an umbrella having a revolvably-mounted frame or top which may be readily held against rotation by locking it to the handle.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of devices, as hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of an umbrella constructed in accordance with our invention, the frame or top being in its elevated or open position. Fig. 2 is a detail view, on an enlarged scale, of the upper portion of the handle and the lower portion of the rod or stick. Fig. 3 is a view similar to Fig. 2 looking in a plane at right angles to the same. Fig. 4 is a longitudinal sectional view through the parts shown in Fig. 2. Figs. 5 and 6 are transverse sectional views taken on the lines 5-5 and 6-6 in Fig. 4; and Fig. 7 is a detail view, partly in section, of the lower end of the rod removed from the handle.

Referring to the drawings by numeral, 1 denotes an umbrella or the like of any well-known or preferred construction, consisting of a handle 2, a rod or stick 3, and a frame or top 4.

In the practice of our invention we prefer-

ably mount the top 4 so that it revolves in respect to the handle 2, and we may do this by making the frame or top 4 revolve upon the stick or stem 3 or by making the latter revolve in the handle 2. We preferably adopt the latter course, as in the present embodiment of the invention, and secure the top or frame 4 rigidly upon the stem 3.

The stem 3 is here shown in the form of a metal tube which has its lower end projecting into an opening or socket in the handle 2 and secured therein. The handle 2 carries at its upper end a fixed ferrule 5, from which the rod extends and in which it may either turn or rotate freely or be locked therein, as presently explained. The ferrule 5 consists of a cylindrical outer tube or band 6, which fits over and is secured to the end of the handle, and an inner tubular sleeve or thimble 7, which is rigidly secured in the closed end 8 of the outer band 6. The lower end of the rod 3 projects through and rotates in the sleeve 7, but is prevented from moving endwise therein by the cross-pin 9, located in the lower portion of the rod, and a locking-dog 10, arranged in the rod at the closed end 8 of the ferrule. This locking dog or pawl is in the form of a notched plate, which is pivotally mounted, as at 11, in the rod and slides radially in a longitudinal slot 12, formed therein. A spring 13 forces the dog or catch 10 normally out through the slot 12, so that its end 14 enters one or more notches 15, formed in the upper or outer end of the sleeve 7, and locks the rod to said sleeve, and hence to the ferrule, and at the same time prevents endwise movement of the rod and ferrule with respect to each other. When the dog or catch 10 is forced into the rod, its end 14 disengages the notches 15, so that the rod can turn freely in the sleeve 7. The dog or catch 10 may be quickly moved inwardly to its released or disengaged position and retained in such position by a collar or sleeve 16, which is slidably mounted upon the rod 3 between the upper end of the ferrule and the lowermost spring-catch, which holds the umbrella-frame in its closed position.

The construction, operation, and advantages of the invention will be readily understood from the foregoing description, taken in connection with the accompanying drawings. It will be seen that when the operating collar or band 16 is moved up upon the

rod 3 out of engagement with the dog or catch 10 the rod will be locked to the ferrule, and hence to the handle, so that the top 4 cannot rotate, and that when said collar is 5 moved down over the inclined projecting edge of the dog or catch 10, so as to force the same through the slot 12 into the rod, its end 14 disengages one of the slots or notches 15 in the sleeve 7 and permits the rod to rotate 10 freely in the handle. When it is permitted to rotate, there is little or no liability of the cover being torn or injured by striking objects, and the umbrella can be more easily handled in windy weather, there being no 15 strain upon the frame of the top 4. When it is desired to roll the corner of the top or when it is desired to have the top fixed with respect to the handle 2, the collar 16 is simply pushed up upon the rod to release the 20 catch or dog 10, as will be readily understood.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of 25 this invention as defined by the appended claims.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

30 1. An umbrella comprising a handle, a rod or stick revolvably mounted in said handle, a spring-actuated locking-dog carried by said

rod or stick and adapted to engage a seat in said handle to prevent the rotation of said rod or stick, and means for retracting said 35 dog or catch.

2. An umbrella comprising a handle, a rod or stick revolvably mounted in said handle, a spring-actuated locking-dog carried by said rod or stick and adapted to engage a seat in 40 said handle to prevent the rotation of said rod or stick, and a sliding collar upon said rod adapted to coact with said dog or catch, substantially as described.

3. An umbrella comprising a handle, a ferrule secured thereon and having a tubular 45 guide-sleeve projecting into said handle, a tubular rod mounted to rotate in said sleeve, a pivotally-mounted, spring-actuated locking-dog in said tubular rod adapted to engage a 50 seat in said sleeve to lock said rod against movement in said sleeve, and a sliding collar upon said rod adapted to retract said dog and hold it in its retracted position, substantially as described and for the purpose set forth. 55

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

GEORGE S. BOWLING.
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Witnesses:

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