No. 869,005. PATENTED OCT. 22, 1907.

W. C. L. MASKA.

UMBRELLA FIXTURE.

APPLICATION FILED AUG. 9, 1906.

Fig. 1.

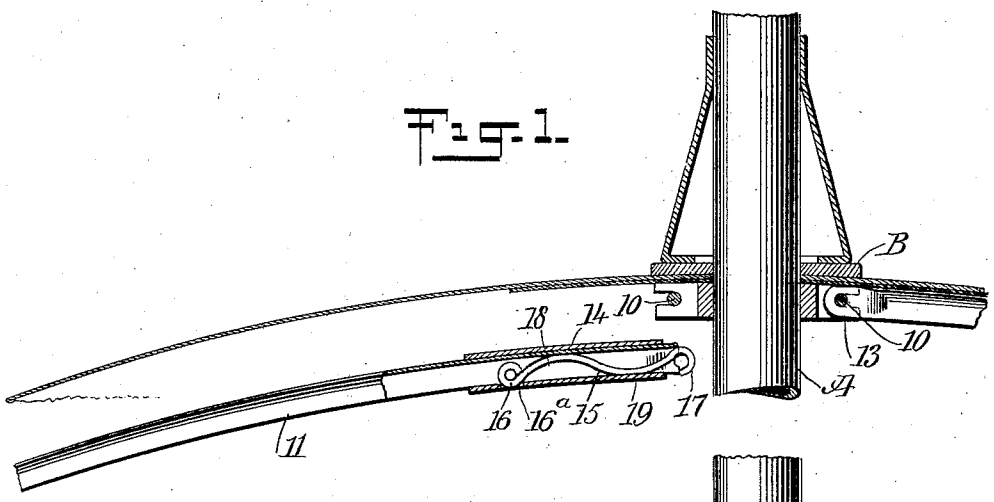


Fig. 2.

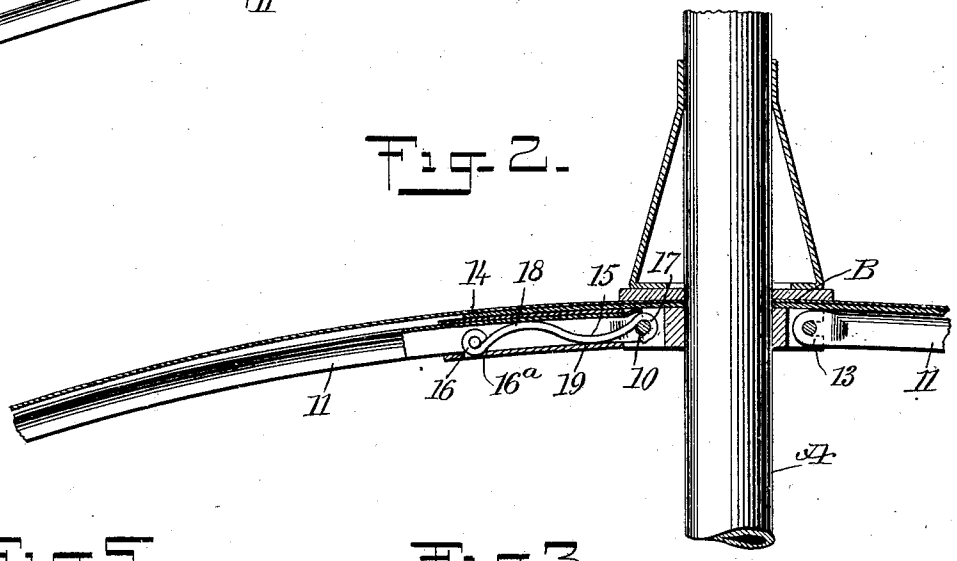


Fig. 5.

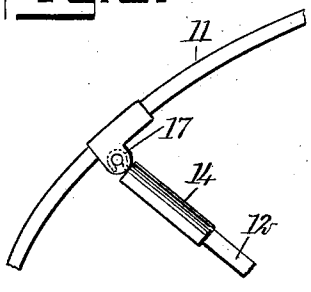


Fig. 3.

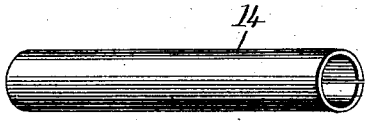
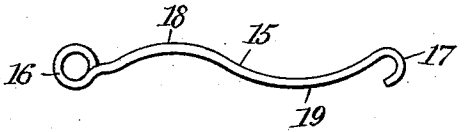


Fig. 4.



WITNESSES

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UMBRELLA-FIXTURE.

No. 869,005. Specification of Letters Patent. Patented Oct. 22, 1907.

Application filed August 9, 1906. Serial No. 329,838.

To all whom it may concern:

Be it known that I, WILLIAM CRISTIAN L. MASKA, a citizen of the United States, and a resident of the city of New York, Long Island City, borough of Queens, in the county of Queens and State of New York, have invented a new and Improved Umbrella-Fixture, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide a simple and readily applied substitute for the eye ends of umbrella ribs and stretchers when such parts become broken, which attachment or fixture will enable a damaged stretcher to be pivotally attached to a rib, or a damaged rib pivotally connected with the crown in practically as secure a manner as if the stretcher or rib were intact.

A further purpose of the invention is to provide an article of the character described which will be simple, durable and economic as well as readily applicable.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth and pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a section through the upper portion of an open umbrella and a sectional side elevation of a portion of a damaged rib, and a side elevation of the improved device applied thereto, the rib being disconnected from the crown; Fig. 2 is a view similar to that shown in Fig. 1, illustrating however the damaged rib connected with the crown; Figs. 3 and 4 are detail views of the device; and Fig. 5 is a side elevation of a portion of a rib and a portion of a stretcher, illustrating the pivotal connection between the two, accomplished by means of the improved device.

A represents the stick of an umbrella and B the crown secured to the said stick in any approved manner. The ribs 11 shown are of the ordinary construction, being of paragon formation, and are pivotally attached to the crown B through the medium of the customary encircling wire 10, which is passed through the eyes 13 at the inner or upper ends of said ribs.

Hitherto, when an eye 13 has been broken it has been customary to discard such rib and substitute a new one. The purpose of the present invention is to provide a device which will constitute a substitute for the damaged eye on the rib, enabling said rib to be retained in service. This device consists of a casing 14 of any desired length, preferably cylindrical in form, and said casing is slid over the inner end of the rib, if that is where the eye is broken, and the outer end of the casing is then brought practically to the outer broken end portion of the rib, as is shown in both Figs. 1 and 2.

In connection with the said casing 14 an attaching member 15 is employed. This attaching member is preferably made of wire of suitable gage, having a hook 17 formed at one end and an eye or enlargement 16 at its opposite end, the hook 17 being at the outer end of the wire; and the enlargement 16 is of sufficient size to be brought into frictional engagement with the under face of the upper member of the rib 11, and in engagement with the lower portion of the encircling casing 14, entering a slot 16^a made therein as is shown in Figs. 1 and 2. The body portion of the attaching member 15 is bent upon the lines of a compound curve, having an upwardly-arched section 18 at one side of its center and a downwardly-arched section 19 at the opposite side of its center, so that when the attaching member 15 has been passed into the casing 14 and into the channel portion of the rib 11, the arched portions 18 and 19 will also be in frictional engagement, one with the rib and the other with said casing, as is shown in Figs. 1 and 2. This is all that is necessary to hold the attaching device in place, and when the improved fixture has thus been placed in position on the damaged rib, the encircling wire for the crown can be passed through the hook member 17, and the rib will be as effectively connected with the crown as if the eye thereon was intact.

In Fig. 5 I have illustrated the application of this fixture to a stretcher 12, which is also of paragon construction; and when an eye of a stretcher has been damaged, the device is applied to the damaged end of the stretcher in the same manner as has been described relative to a rib. A pivotal connection can thus be made between a stretcher 12 and a rib 11, or between the stretcher and the runner, according to which end has been damaged. By reason of the enlargement 16 of the wire entering the slot 16^a in the casing 14, the wire is held firmly in position at its inner end, and the hook 17 is prevented from slipping from its hold when passed around a wire. The slot receiving the enlargement 16, however, may be made in the rib if desired.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent,—

1. As an improved article of manufacture an umbrella fixture comprising a casing adapted to engage a rib or stretcher, and an attaching member adapted to enter the casing, the said member having a body portion formed with an upwardly arched section at one side of its center and a downwardly arched section at the opposite side of its center, the said arched portions being adapted to frictionally engage the casing and the rib or stretcher, the said member having attaching means at its outer end.

2. As an improved article of manufacture an umbrella fixture consisting of a casing having a slot in its wall near one end, and a spring member adapted to be frictionally held in said casing, the said member having attaching means at one end and an enlargement at the other end adapted to enter said slot.

3. An umbrella fixture consisting of a casing adapted to

be slid over a rib or stretcher, and a member which enters the said casing, the said member being formed of spring material and constructed to have frictional engagement with the casing and with a rib or stretcher to which the fixture is applied, one of said parts with which the said member engages having a slot formed therein, the outer or projecting end of said member forming an attaching means and the other end having an enlargement adapted to engage said slot.

4. An umbrella rib or stretcher, a casing surrounding the same at one of its ends, and an attaching member located within the channeled portion of the rib or stretcher and made of spring material, the said attaching member having a body formed with curved portions adapted to frictionally engage the rib and casing, the said member having a hook at its outer or projecting end.

5. The combination with an umbrella rib or stretcher, of a casing surrounding the same at one of its ends and having a slot formed therein, and an attaching member located in the channel portion of the rib or stretcher, the said attaching member comprising a wire having a body portion formed with an upwardly arched section at one side of its center and a downwardly arched section at the opposite side of its center, the said arched portions being adapted to frictionally engage the rib and casing respectively, the said attaching member having a hook at its outer or projecting end and an enlargement at its other end, the said enlargement being of sufficient size to frictionally engage with the rib and the encircling casing and adapted to enter the slot in said casing.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM CRISTIAN L. MASKA.

Witnesses:

HERMAN HEESKE,

GEO. BLANK.