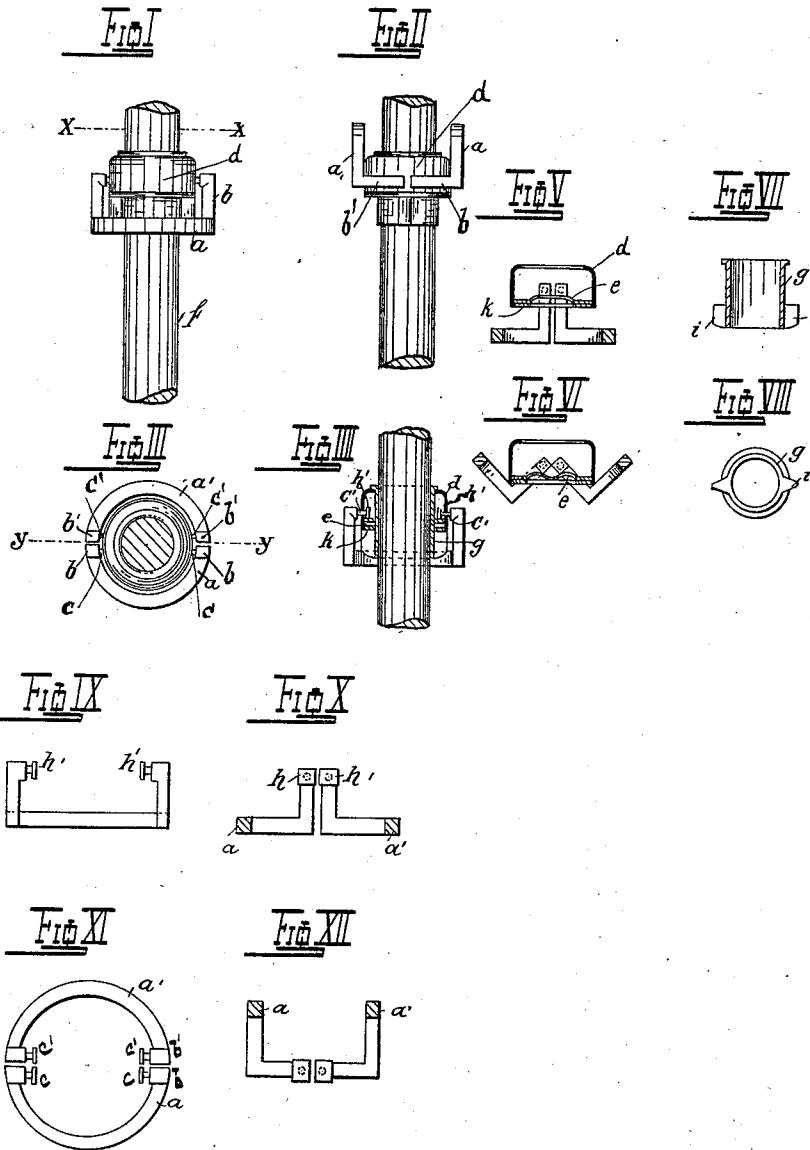


(No Model.)

F. W. T. JEDECK.
UMBRELLA RIB LOCKING DEVICE.

No. 522,016.

Patented June 26, 1894.



Witnesses:

J. C. Hebet.
L. Schultz

Inventor:

Ferdinand W. T. Jedeck,
By *W. A. de Vos*,
Attorney.

UNITED STATES PATENT OFFICE.

FERDINAND WILHELM THEODOR JEDECK, OF BERLIN, GERMANY.

UMBRELLA-RIB-LOCKING DEVICE.

SPECIFICATION forming part of Letters Patent No. 522,016, dated June 26, 1894.

Application filed November 28, 1892. Serial No. 453,303. (No model.) Patented in England November 15, 1892, No. 20,629.

To all whom it may concern:

Be it known that I, FERDINAND WILHELM THEODOR JEDECK, a subject of the German Emperor, residing at Berlin, German Empire, have invented a certain new and useful Locking Device for the Ends of the Ribs in Umbrellas, of which the following is a description, a patent for the said invention having been granted to me in Great Britain on the 15th day of November, 1892, numbered 20,629.

In my improved locking device for the ends of the ribs in umbrellas, I employ semi-circular bows, provided with arms forming right angles with said bows, which arms are mounted in a casing fastened to the stick of the umbrella so as to allow of a rotary motion. The pivots of the arms housed in said casing are acted upon by a spring likewise arranged in said casing, and in this manner I secure the locking device in open or closed position.

In the annexed drawings which form a part of this specification, and in which like parts are designated by like letters of reference throughout all the views, I have illustrated my locking device.

Figure I, shows the locking device when closed. Fig. II, shows the same when open. Fig. III, shows a section on the line $\alpha-\alpha$ of Fig. I. Fig. IV, shows a section on the line $y-y$ of Fig. III. Figs. V and VI, illustrate the manner in which the arms of the bows are housed in the casing fastened to the stick, and the action of the spring upon the pivots of the arms. Figs. VII and VIII, show the inner socket fastened to the stick and carrying the spring casing. Fig. IX, shows a side view of one of the bows. Fig. X, shows the two bows in the closed position. Fig. XI, shows a top view of the two bows; and Fig. XII, shows the bows in open position.

As hereinbefore said, the bows which effect the locking of the ribs are acted upon by a spring. In the construction illustrated in Figs. I to VIII the device is formed of two semi-circular bows a, a' ; the arms $b, b, b' b'$ of which are mounted so as to allow of a rotary motion by means of pivots $c, c, c' c'$ in the casing d , in which casing is also arranged a spring e , and which casing is attached to the socket g fastened to the stick f , so that

the bows are secured in open and closed position by the spring e . To this end the pivots $c, c, c' c'$ of the arms $b, b, b' b'$ are (as shown in Figs. IX to XII), provided with square heads $h, h, h' h'$, which are acted upon by the spring e , located in the casing d in the manner illustrated in Figs. V and VI. Said socket g is provided with wings or projections i , which support the ring k ; said ring k serving as a bottom for the casing d , and sustaining the spring e that is arranged as hereinbefore said, in said casing d . The socket g projects up centrally through the casing d , (Fig. IV) and is flanged over the top of said casing d . In this manner the flanging of the socket g , in connection with the projections i holds the casing d , with the spring e , in position, as will be readily understood on examining Fig. IV.

If (as shown in Fig. VI) the bows a, a' are turned upward, i. e., the locking device is opened, the spring e will be first pushed in by the square heads h , as shown in Fig. VI, and thereupon reassume its original position as soon as the bows are entirely opened. The same action takes place when the device is closed, so that the bows a, a' are secured in both the open and closed positions by the spring e .

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

1. A locking device for the ribs in umbrellas, consisting of a socket piece adapted to be fixed on the umbrella stick, a casing on said socket piece, a spring in said casing, semi-circular bows for locking the ends of the ribs and provided with arms that are perpendicular to the bows, pivots on said arms working in said case and square heads on the pivots adapted to engage said springs so that the bows will be secured in both open and closed positions, substantially as described.

2. The combination with a locking device for the ends of ribs of umbrellas of a socket piece on the umbrella stick, a casing secured thereon, a compressible spring in said casing, and bows adapted to lock the ribs of the umbrella and provided with arms pivoted in said casing and carrying square heads that are

adapted to act on said spring, substantially as described.

3. The combination with locking devices for ribs in umbrellas, and with the socket *g* and casing *d*, of a spring in said casing, arms pivoted in said casing and provided with heads having working faces at right angles each to each and adapted to be held by said spring in both the open and closed position, and bows

connected with said arms and adapted to lock to the ends of the ribs of the umbrella, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

FERDINAND WILHELM THEODOR JEDECK.

Witnesses:

W. HAUPT,
BRUNO EBERTH.