

(No Model.)

J. WRIGHT & J. M. BECHTER.

UMBRELLA STICK.

No. 288,606.

Patented Nov. 13, 1883.

FIG.1.

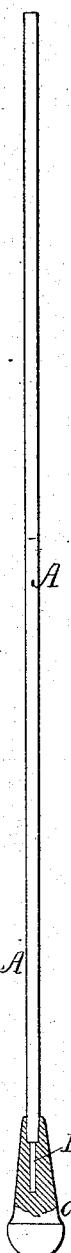


FIG.3.

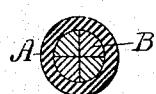


FIG.2.



FIG.4.

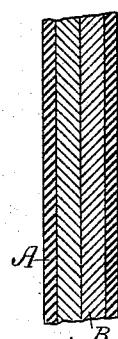


FIG.5.



WITNESSES:

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JOSEPH WRIGHT AND JOSEPH M. BECHTER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNORS TO SAID JOSEPH WRIGHT AND EDMUND WRIGHT, OF SAME PLACE, AND JACOB H. FILSON, OF NEW YORK, N. Y.

UMBRELLA-STICK.

SPECIFICATION forming part of Letters Patent No. 288,606, dated November 13, 1883.
Application filed August 27, 1883. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH WRIGHT and JOSEPH M. BECHTER, citizens of the United States, and residents of Philadelphia, Pennsylvania, have invented certain Improvements in Umbrella-Sticks, of which the following is a specification.

Our invention consists of the combination of a bamboo or Tonquin stick made internally true with a wooden core cemented to the stick, the object of our invention being to make a light and strong stick for umbrellas, parasols, or canes.

In the accompanying drawings, Figure 1 is a view of a stick made according to our invention; Fig. 2, a transverse section of the stick drawn to an enlarged scale; and Figs. 3, 4, and 5 are views illustrating another method of carrying out our invention.

The bamboo or Tonquin sticks which we prefer to employ in carrying out our invention are well-known articles of commerce and have been used in the manufacture of canes and for the sticks of umbrellas or parasols; but, owing to their flexibility, they are not well adapted to this purpose unless they are of large diameter, and consequently more or less clumsy in appearance. These bamboo or Tonquin sticks are hollow, with their transverse diaphragms at intervals, and these we remove and at the same time make the sticks internally true by a suitable boring-tool. Into the interior of each stick thus prepared we force a core of hard straight grained wood—maple, for instance—glue or other cement being used to effect a perfect union of the tubular stick with its core. The core must extend throughout the entire length of the bamboo stick, and preferably beyond one end of the same. Thus, in the umbrella-stick shown in Fig. 1 the handle *a* is secured to the end of the stick and to the projecting end of the core *B*, which is continued beyond the end of the bamboo tube *A*.

Hollow wooden sticks have heretofore been re-enforced with metal tubes and rods; but

while strength was thus imparted to the tubular sticks of comparatively small diameter, they were rendered heavy and clumsy by their association with metal. A more homogeneous stick may be made by combining the bamboo with a wooden core and cementing the two together than with one of metal. At the same time a bamboo stick of small diameter is rendered sufficiently strong and tough by the core of wood, which adds but little to the weight of the bamboo.

While a plain wooden core of comparatively hard wood will be available in carrying out our invention, we prefer to make the core of sections of bamboo in the manner shown in Figs. 3, 4, and 5. Thus a strip of bamboo of the desired length may be cut into strips, as shown in Fig. 5, and these strips may be combined, as shown in Fig. 3, to form the core, the strips being glued or otherwise connected together, and, after being reduced to the proper size, forced into and glued to the trued interior of the bamboo stick, thereby imparting great strength to the same without adding materially to its weight. The bamboo has a glazed or enameled outer surface or shell, which renders it extremely strong and rigid; hence the preference we give it for use in making the core.

We claim as our invention—

1. As a new article of manufacture, an umbrella-stick or cane in which a strip of bamboo made internally true is combined with a wooden core fitted tightly within and cemented to the bamboo, substantially as set forth.

2. The combination of a bamboo-stick made internally true with a core composed of strips of bamboo cemented to the stick, as specified.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

JOSEPH WRIGHT.

JOSEPH M. BECHTER.

Witnesses:

JOHN E. PARKER,
HARRY SMITH.