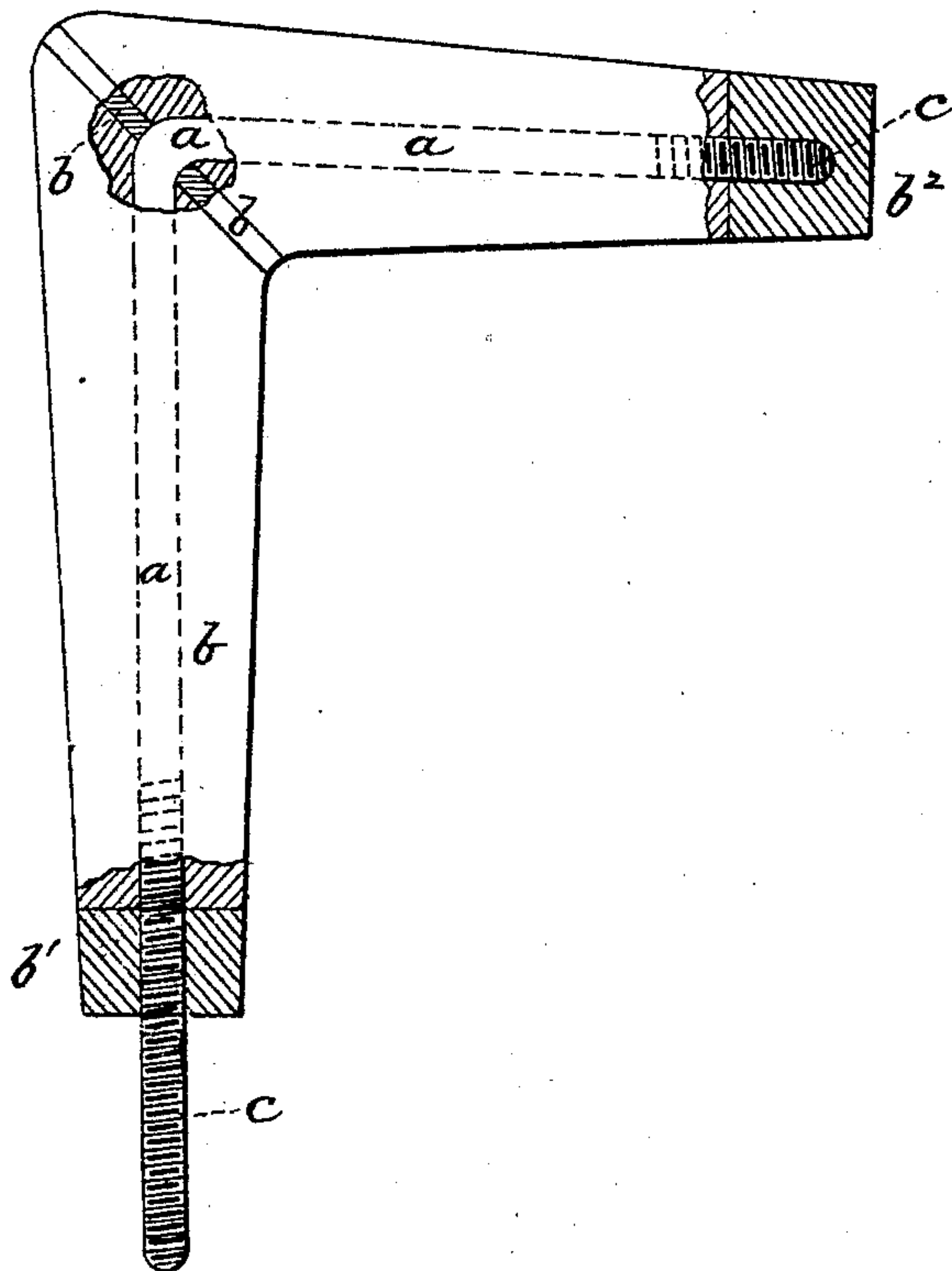


*H Nitzsche.*

*Cane Handle.*

*Patented Aug 21, 1866*

*Nº 57367*



*Witnesses.*

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# UNITED STATES PATENT OFFICE.

HERMAN NITZSCHE, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN CANE-HANDLES.

Specification forming part of Letters Patent No. 57,367, dated August 21, 1866.

*To all whom it may concern:*

Be it known that I, HERMAN NITZSCHE, of Saxony, now residing in the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented an Improvement in Composite Handles for Canes, Umbrellas, &c.; and I do hereby declare that the following is full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention consists in using a metal rod, on which the parts or pieces composing the handle are strung, and binding the whole firmly together in such manner as hereinafter shown.

To enable others to make and use my invention, I will proceed to describe its construction and operation.

The accompanying drawing is a side view, partly sectioned, showing the rod, &c.

Heretofore the great disadvantage that composite handles have labored under has been caused by the glue or cement with which the several parts are held together not having sufficient cohesive force to resist the strain caused by the materials of which the handles are composed, expanding or contracting in different degrees, whereby they become loose, and also, from the brittleness of the same, the least fall or jar fractures them beyond repair.

To obviate these objections I use a rod, *a*, bent to the proposed angle of the handle. An opening corresponding to the size of the rod is then formed in the center of each piece, *b'* *b* *b*<sup>2</sup>, &c., comprising the handle. These parts or pieces are then strung on the rod in the order which they are to occupy, the angle-piece *b* first and the butting-pieces on each length of the rod successively. The but-

ting-edges are then glued or cemented. The pieces *b'* *b*<sup>2</sup> remain loose, having threads tapped or cut in them corresponding to the screws *c c* cut on the ends of the rod. They act as nuts. When the gluing or cementing is completed they are screwed tight against the last pieces, and hold the whole firmly and securely together. The nut *b*<sup>2</sup> can be a socket-nut to finish the end of the handle, while the rod passes entirely through the nut *b'* and screws into or attaches the handle to the stick or barrel of the cane or umbrella. The handle, being now built up, is next formed or fashioned into the required shape.

Handles constructed by my method can be composed of a variety of different materials, be light and symmetrical, of varied forms, without having their strength in the least impaired.

The nut *b'* can be dispensed with by screwing the rod directly into the stick or barrel of the cane. For this reason I claim the stick or barrel, equivalent to the nut *b'* when used in its stead.

What I claim as my invention, and desire to secure by Letters Patent, is—

Holding together the parts composing an angular-shaped handle for canes, &c., and directing the lengths of the handle, forming the angle by means of the bent screw-rod *a*, the nuts *b'* *b*<sup>2</sup>, and the angle-piece *b*, substantially as herein specified and described.

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

HERMAN NITZSCHE.

Witnesses:

FRANCIS D. PASTORIUS,  
GEO. W. A. SCOTT.