

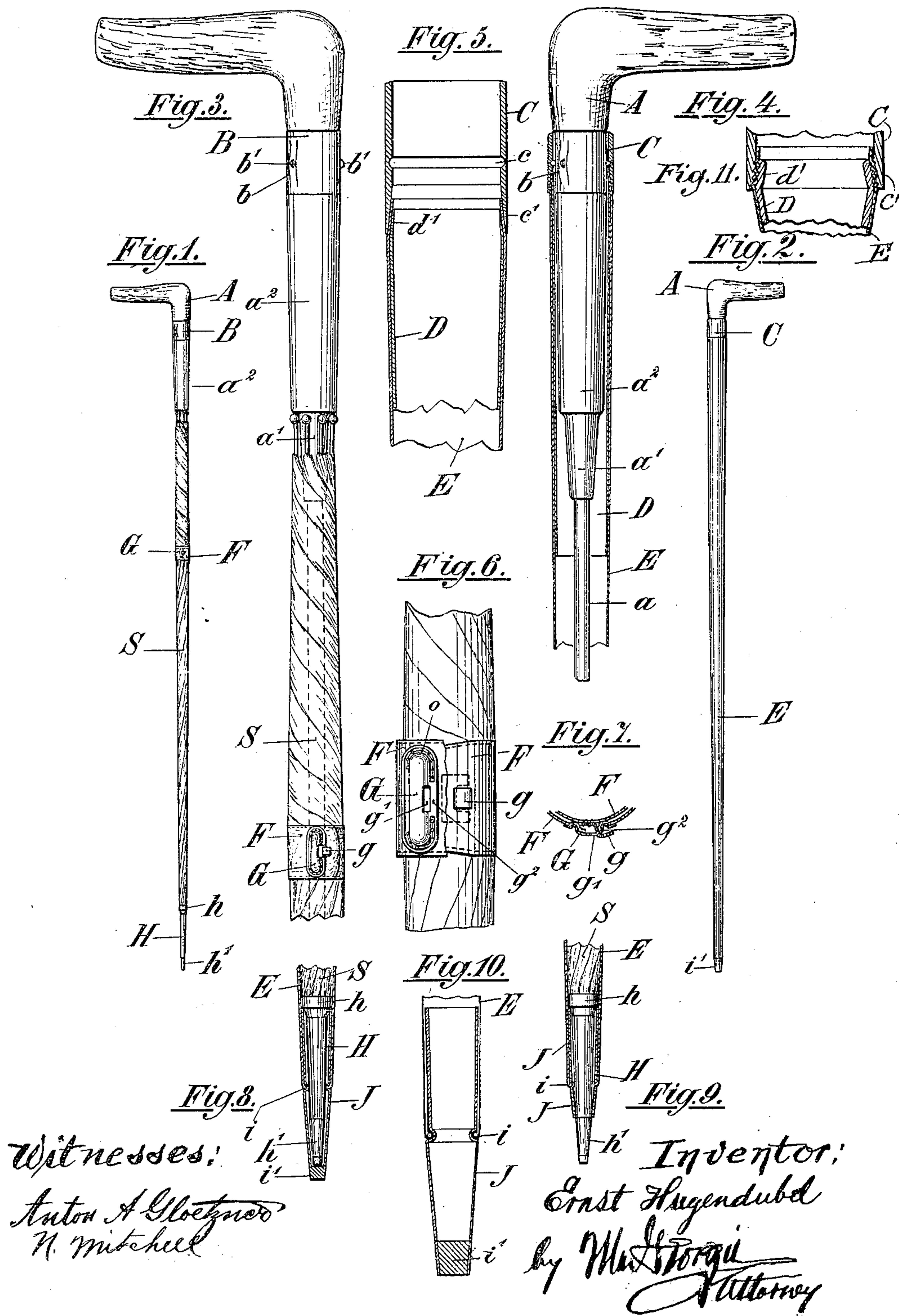
No. 661,990.

Patented Nov. 20, 1900.

E. HUGENDUBEL.
COMBINED CANE AND UMBRELLA.

(Application filed Dec. 10, 1898.)

(No Model.)



UNITED STATES PATENT OFFICE.

ERNST HUGENDUBEL, OF STUTTGART, GERMANY.

COMBINED CANE AND UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 661,990, dated November 20, 1900.

Application filed December 10, 1898. Serial No. 698,890. (No model.)

To all whom it may concern:

Be it known that I, ERNST HUGENDUBEL, a citizen of the German Empire, residing at Stuttgart, in the Kingdom of Württemberg, Germany, have invented certain new and useful Improvements in Cane-Umbrellas; and I do hereby 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.

My invention relates to improvements in cane-umbrellas.

The object of my invention is to provide a combined cane and umbrella which will comply with modern requirements as regards elegance of appearance and which may be converted quickly from its form as a cane to that of an umbrella, and vice versa.

A device embodying my invention consists in a combined cane and umbrella in which the cane is formed by stretching a flexible casing over the tightly-rolled umbrella, said casing being tightly stretched by means of suitable expanding devices at each end of different diameters, whereby the casing in combination with the visible umbrella-handle has all the appearances of a neat cane.

My invention will now be described in connection with the accompanying drawings and then more particularly pointed out in the claims.

In the drawings, Figure 1 is a view of my device with the cane-casing removed; Fig. 2, a similar view with the casing in place, showing the device in its form as a cane; Fig. 3, a detail view, on an enlarged scale, showing the upper portion of the umbrella stick and handle; Fig. 4, a similar view showing the upper portion of the flexible cane-casing and its attached sheath in section; Fig. 5, a detail sectional view, on a still further enlarged scale, illustrating the means for coupling the upper end of the cane-casing to the umbrella stick and handle; Fig. 6, a detail view in elevation, on an enlarged scale, illustrating the form of fastening-band employed by me; Fig. 7, a detail sectional view of part of said band; Figs. 8 and 9, detail views showing two ways in which the lower end of the cane-casing may be secured to the umbrella-tip; Fig. 10, an enlarged detail view of the

tip device employed in Fig. 8 for holding the cane-casing, and Fig. 11 a detail view of the coupling device shown in Fig. 5 on a still further enlarged scale.

Referring to the drawings, A is an umbrella-handle having a stick *a* of small diameter in order to permit the umbrella-cover S to be rolled into a small compass. The umbrella-stick is provided below the handle with a long tapered portion *a*², below which is a short tapered portion *a*¹, the function of which tapered portions will be pointed out hereinafter. Between the top end of the long tapered portion *a*² and the lower end of the handle is located a ferrule or ring B, having catch devices formed in the present instance by stamping up portions of the ferrule B to form spring-bows *b*, each of which is provided with a small rounded nose *b*¹, arranged to enter a rounded groove *c*, formed in the interior of a collar C, adapted to slip loosely over the umbrella and over the ring or ferrule B. The lower end of the said collar C is coned or beveled outward and provided with screw-threads, as shown in Figs. 5 and 11. Into this threaded portion is screwed the correspondingly coned and threaded end of a sheath D, the sheath and collar C being arranged to receive between them and clamp the upper end of a flexible tubular cane-casing E, which is made preferably of leather and which tapers downward, as shown in Fig. 2.

The lower end of the cane-casing E is secured in a groove *i* of a tapering hollow ferrule J, which, if desired, may have a metal end or point *i*¹, as shown in Figs. 8 and 10, or may be in the form of an open socket, as illustrated in Fig. 9.

When the casing E is drawn over the umbrella, the collar C fits snugly over the ring or ferrule B, to which it is held by the spring-catch devices *b* engaging the groove *c*, while the ferrule J bears against a projection *h* on the point H of the umbrella-stick, whereby the casing E is held taut and tapers continuously from the top to the bottom, thus presenting the appearance of an ordinary walking-stick.

The thin metal sheath D, which is located inside the upper end of the casing, serves to hold the said casing E in its properly-distend-

ed condition over the thinner part of the umbrella and almost up to the thickest part of the same, at the same time imparting a certain rigidity to the upper part of the stick.

5 It therefore serves to protect the casing from rubbing against the ends of the ribs and consequent wear.

With my device a band-fastener must be employed which fits closely to the umbrella, 10 thereby opposing but little resistance to the insertion of the umbrella into or its removal from the casing. Without such a band-fastener the casing E and the umbrella-cover would soon become so frayed or worn as to 15 be unsightly and worthless. In order to avoid this disadvantage, I have produced a band-fastener to be employed in connection with my improved cane-umbrella, this fastener consisting of a band F, Figs. 6 and 7, pro- 20 vided with a flattened hook g , arranged to enter a slot g' in an elongated eyelet-plate G and to engage a bar g^2 of said plate. The said eyelet-plate has its center domed or otherwise rounded outward in order to hold the 25 casing E slightly away from the hook g and to form an incline over which the open end of the casing E may be drawn in putting the umbrella into the said casing E. The eyelet-plate G has a countersunk groove around the 30 domed or rounded portion, said groove being provided with holes o , through which passes the thread employed for securing the eyelet-plate G to the end of the band-fastener F, said thread lying in the said groove, whereby

all wear of the casing E against said thread 35 is prevented.

The long tapered portion a^2 of the umbrella-stick permits the ready insertion and removal of the casing E, while the short tapered portion a' receives the ends of the ribs of the umbrella-frame when the umbrella is closed, so 40 that externally they occupy but a small space and therefore have a neat appearance.

Having thus fully described my invention, what I claim as new, and desire to secure by 45 Letters Patent of the United States, is—

1. In a cane-umbrella, the combination, with an umbrella having a stick, of a ring secured to the stick and provided with a spring-bow portion having a nose, a flexible casing 50 arranged to slip over the umbrella, and a collar connected to said casing, and provided with a groove for engagement with the nose on the spring-bow.

2. In a cane-umbrella, the combination with 55 an umbrella and a flexible casing arranged to slip over said umbrella, of a sheath within the said casing, and a collar outside said casing and removably connected to said sheath, whereby the casing is clamped to the collar, 60 and means for removably securing the collar and sheath to the extremity of the casing.

In testimony whereof I affix my signature in presence of two witnesses.

ERNST HUGENDUBEL.

Witnesses:

AUGUST DRAUTZ,
N. WAGNER.