

(No Model.)

E. HÖFEL.
WALKING CANE, &c.

No. 442,048.

Patented Dec. 2, 1890.

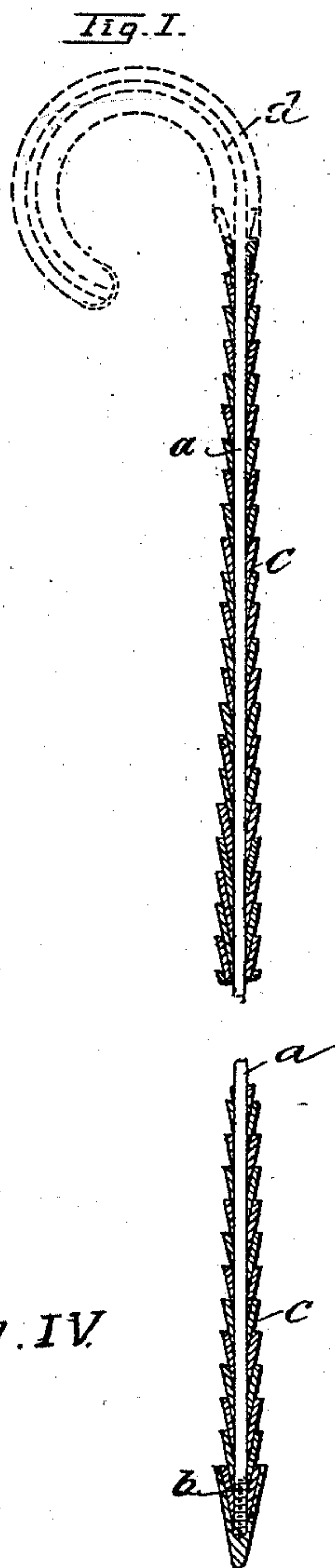
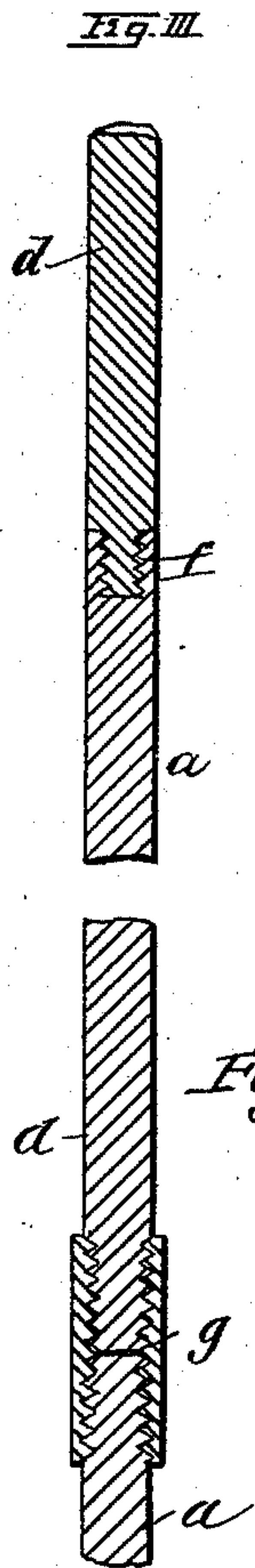
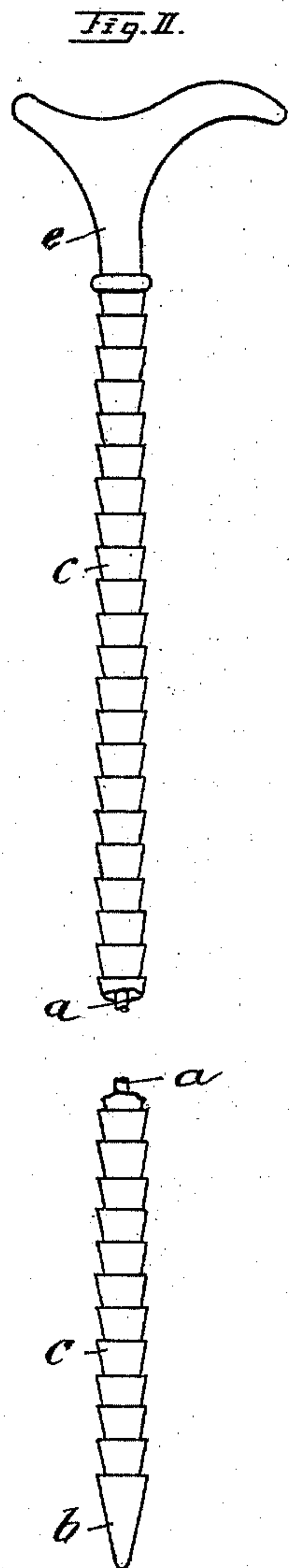


Fig. IV.

Witnesses.
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UNITED STATES PATENT OFFICE.

EWALD HÖFEL, OF LUGAU, GERMANY.

WALKING-CANE, &c.

SPECIFICATION forming part of Letters Patent No. 442,048, dated December 2, 1890.

Application filed January 30, 1890. Serial No. 338,669. (No specimens.)

To all whom it may concern:

Be it known that I, EWALD HÖFEL, a subject of the King of Saxony, residing at Lugau, in the Kingdom of Saxony and Empire of Germany, have invented a new and useful Combination-Rod, of which the following is a full, clear, and exact specification.

This invention relates to the manufacture of walking-canes, umbrella or parasol sticks, baskets, toys, picture-frames, chairs, stools, and other useful and fancy articles or articles of furniture or ornament; and its object is to utilize in the manufacture of the aforesaid articles the discarded paper cop-tubes employed in connection with the manufacture of textile fabrics, and which are used to sustain the yarns or fibers of which said fabrics are constituted.

The invention will first be particularly described, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference designate corresponding parts in all the views.

Figure I is a broken side elevation of a walking-cane, for instance, constructed in accordance with my invention, the handle being indicated by dotted lines. Fig. II is a broken side elevation of the completed cane, and Figs. III and IV are vertical sectional views of the core of the cane, showing different means of connection between the cane and its handle.

The core *a* of the walking-cane consists of a rod or bar of metal, or it may be a wire, of proper strength and suitable length, the lower end of which is threaded to receive a threaded ferrule *b*, shaped interiorly to correspond with the shape of the cop-tubes *c*, which, as shown, are conical in form, but may be cylindrical. Said cops are successively slipped upon the core *a* and fitted one in or upon another until the entire length of the core is sheathed by them. The core *d* of the handle *e*, of any desired contour, may be reduced and threaded at its lower end and screwed into a threaded socket *f*, formed in the upper end of the core *a*, as shown in Fig. III, or the abutting ends of said cores may be exteriorly threaded and united by a threaded coupling or sleeve *g*, as shown in Fig. IV. The core of the handle may

be incased by any suitable and preferred material.

The cop-tubes are pressed together between the handle and ferrule, and may be secured together and to the core *a* by glue or any suitable cement. Before being placed upon the core *a* the cop-tubes may be varnished, polished, or colored, as desired, and if colored may be arranged in groups of differing colors, so as to give to the cane a party-colored appearance.

While I have shown and described the cop-tubes as being conical in shape, cylindrical cops may be employed, if found desirable, and while I have shown and described the cop-tubes as entering into the construction of a walking-cane, I desire it to be understood that I do not limit my invention to that construction, as they may be equally as well utilized in manufacturing many other useful and fancy articles of furniture or ornament—such as instances, those hereinbefore specified—the cores being given the shape rendered necessary by the nature and use of the article to be constructed.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In the manufacture of walking-sticks and different kinds of ornaments, a composite rod formed of a central flexible core and a series of unbroken conical tubes strung thereon with the apex of one cone entering the base of the next cone, said cones being colored and varnished, substantially as set forth.

2. As a new article of manufacture, a walking-stick consisting in a flexible metallic core provided at its ends with a handle and ferrule, respectively, and a covering formed of unbroken conical tubes colored and varnished, the apex of one cone entering the base of the next cone and glued therein, substantially as set forth.

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

EWALD HÖFEL.

Witnesses:

RICHARD OSWALD ZIERFOLT,
C. A. HANSMANN.