

F. ECKSTEIN.
Canes.

No. 146,054.

Patented Dec. 30, 1873.

Fig: 1.

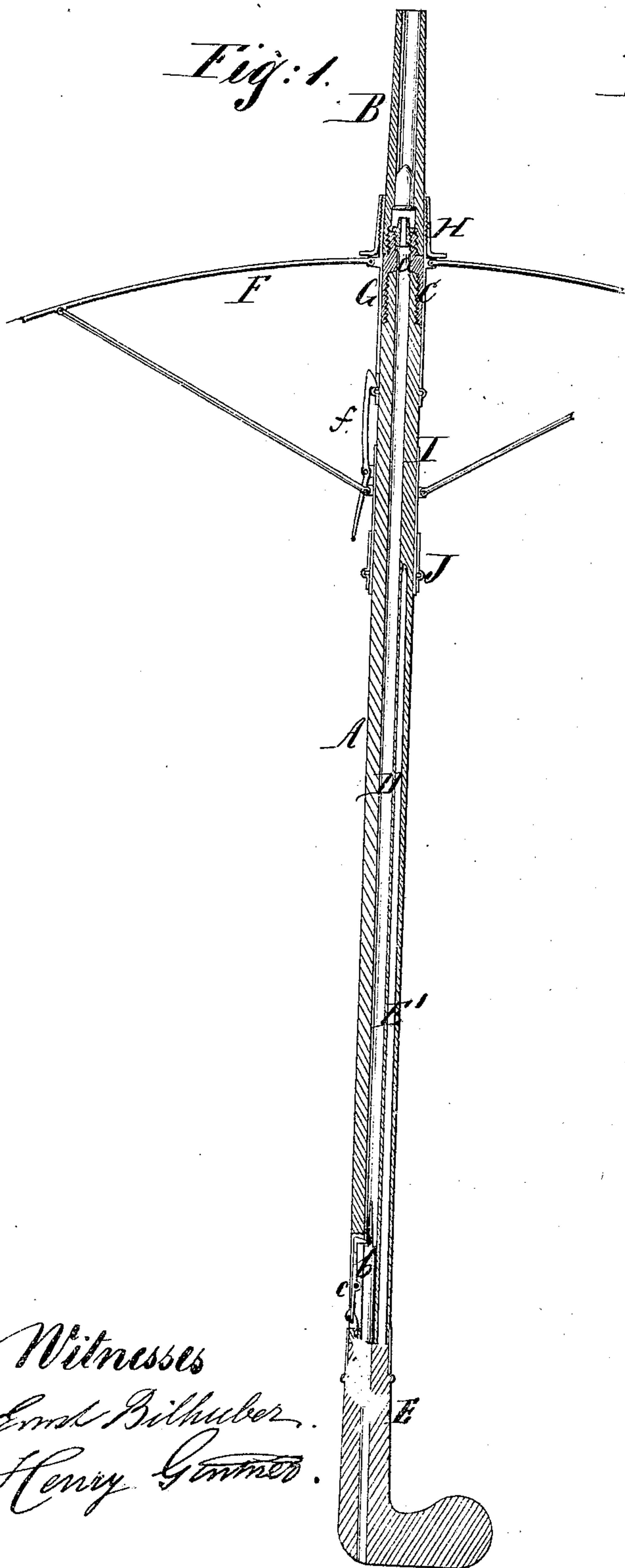
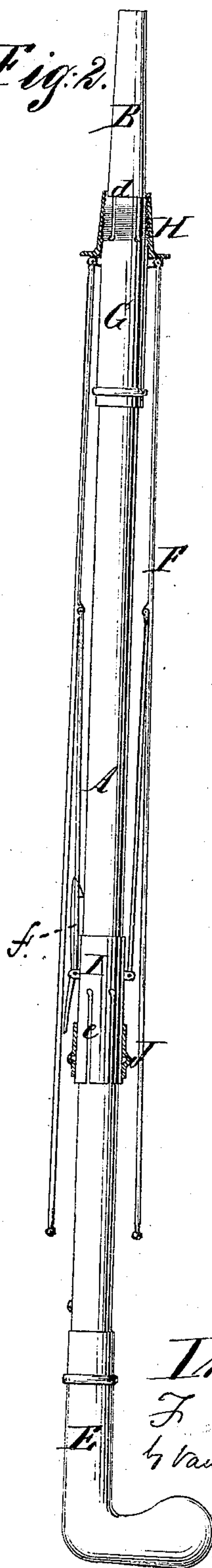


Fig: 2.



Witnesses
Ernst Bilhuber.
Henry Gummer.

Inventor.
F. Eckstein
by Van Santen & Knapp
his attys

UNITED STATES PATENT OFFICE.

FRANK ECKSTEIN, OF NEW YORK, N. Y.

IMPROVEMENT IN CANES.

Specification forming part of Letters Patent No. 146,054, dated December 30, 1873; application filed December 3, 1873.

To all whom it may concern:

Be it known that I, FRANK ECKSTEIN, of the city, county, and State of New York, have invented a new and Improved Umbrella, Sword and Gun Cane, combined; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a vertical central section of this invention. Fig. 2 is a sectional side view of the same.

Similar letters indicate corresponding parts.

This invention consists in a cane for an umbrella, which is bored throughout its length, and the front end of which forms the barrel of an air or blow gun, while the rear end thereof forms the handle of a sword or dagger, the sword being contained in the body of the cane, aside of the bore, in such a manner that, in addition to a support for the umbrella, my cane forms a ready and useful weapon; it consists, further, in the combination, with said cane, of a detachable umbrella, which is made entirely independent from the cane, and can be taken off and put on at will.

In the drawing, the letter A designates the stick or cane of an umbrella, which is made of wood or metal, and is rendered hollow, by boring or otherwise, throughout its length. On the front end of such cane is a short metallic barrel, B, such as are used in fire-arms, which is secured on the ferrule C, or on the cane itself, by a screw-thread, so that it can be readily detached for loading or any other purpose. The bore D of the cane extends throughout the ferrule C, at which point—that is, immediately in the rear of the gun-barrel—said bore is contracted by inserting therein a plug, *a*, which has an opening of sufficient diameter for the passage of the needle of an arrow or bolt, *b*. This arrow is fitted in the bore D, and held in the rear end thereof, next the handle E, by a spring-catch, *c*, which catch can be depressed by a button on the outer surface of the cane.

The handle E of the cane forms, also, the handle of a sword or dagger, E', which has its sheath in the body of the cane alongside of the bore D. Said handle is also made hollow, to form a continuation of the bore, and by blowing into the same, and at the same time

releasing the arrow *b*, such arrow will shoot forward and explode the cartridge or other priming in the barrel B. The bore of the handle E is of a smaller diameter than that of the body A of the cane, by which means the arrow *b* is prevented from falling out through said handle. The letter F designates an umbrella, which is supported on the cane A by means of its crown-piece G, which is made in the form of a tube or sleeve, and is provided with slits or incisions *d* in its top end, so that, by screwing a cap, H, thereon, said crown-piece is compressed and clamped in the cane.

That portion of the cane which receives the crown-piece is roughened, (or, together with the latter, may be provided with an annular groove,) so that, by the friction engendered, the two parts will firmly adhere to each other when compressed by the screw-cap H.

The umbrella is opened and closed, in the usual manner, by means of a slide, I, which is also provided with slits or incisions *e*, and is provided with a movable clamping ring or collar, J. This ring is brought into use, when the umbrella is closed, to compress and clamp the slide I, which being connected with the ribs of the umbrella, said ribs are thereby held down on the cane.

In opening the umbrella, the clamping-ring is loosened, and the slide is moved upward until a spring retaining-hook, *f*, thereon catches over a projection on the crown-piece G. The ribs will now have been spread to their full extent, and the slide I may again be clamped by means of its ring J, in order to assist in holding the parts up on the cane.

By these means the construction and operation of the umbrella are rendered entirely independent from the cane; and, furthermore, when detached, the cane is rendered fit for use as a walking-stick.

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

The cane A, provided with the barrel B, bore D, handle E, and sword E', with or without the detachable umbrella, constructed, arranged, and combined substantially as and for the purpose described.

This specification signed by me this 24th day of November, 1873.

FRANK ECKSTEIN.

Witnesses:

CHAS. WAHLERS,
E. F. KASTENHUBER.