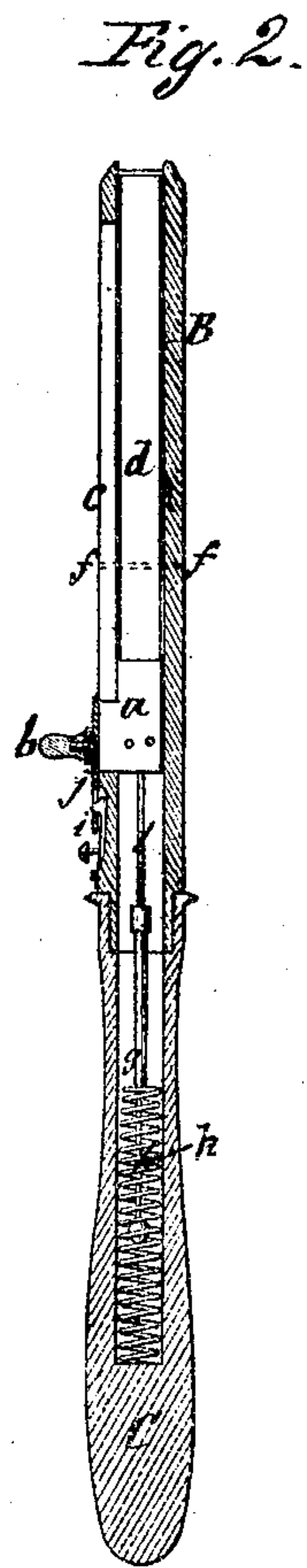
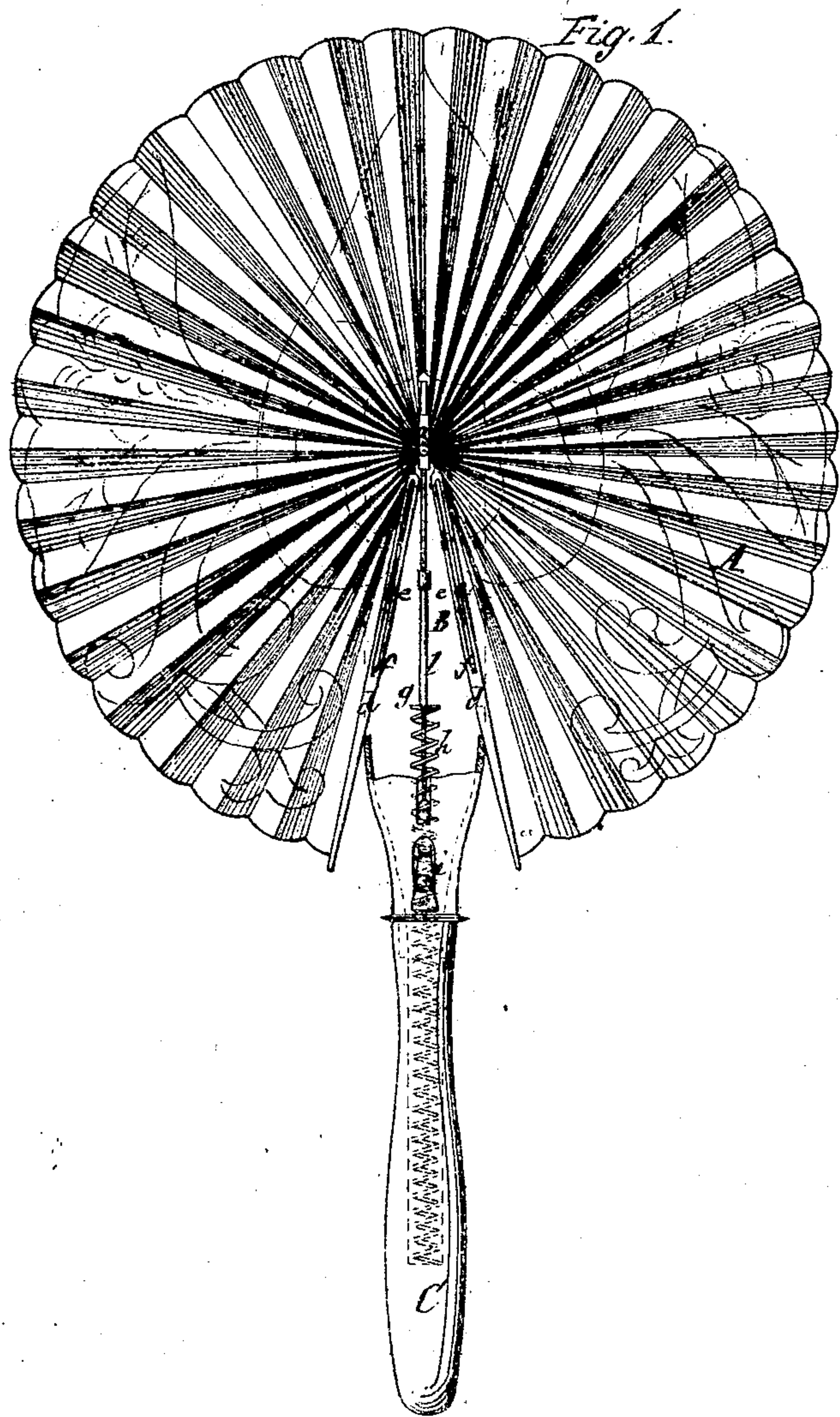


O. Bruck,
Fan.

No. 95,764.

Patented Oct. 12, 1869.



Witnesses.

C. W. W. W.
E. F. Kautenhuber

Inventor.

Otto Bruck
per
Van Santvoord, Atty

United States Patent Office.

OTTO BRÜCK, OF NEW YORK, N. Y.

Letters Patent No. 95,764, dated October 12, 1869.

IMPROVEMENT IN FANS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, OTTO BRÜCK, of the city, county, and State of New York, have invented a new and useful Improvement in Fans; 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 sectional front view of this invention when the fan is unfolded.

Figure 2 is a transverse section of the same when the fan-leaf is folded.

Similar letters indicate corresponding parts.

This invention consists in the arrangement of a spring and guide-rod in combination with the central head of a fan-leaf, and with radiating arms provided with guide-slots, catching over pins, which are secured in the frame of the fan, in such a manner, that by pushing the head down against the action of the spring, the fan-leaf is folded up by the action of the slotted arms, and by releasing the head, the fan-leaf is automatically unfolded by the action of the spring.

In the drawing—

The letter A designates a fan-leaf, made of paper, muslin, or any other suitable material capable of being folded up and expanded, as shown.

Said leaf is secured to a central head, *a*, which slides in and out between the two side-pieces of the frame B, and from which extends a button, *b*, through a slot, *c*, in one of said pieces, so that said head can be readily operated.

To the edges of the fan-leaf are secured the radiating arms *d*, which are rigid, and serve to stiffen the fan-leaf, and which are provided with guide-slots *e*, catching over pins *f*, which are rigidly secured in the frame B.

As the head *a* is pushed down toward the handle C of the frame B, the arms *d* are made to slide over the pins *f*, and they are finally turned, and thereby the fan-leaf is folded up between the two side pieces of the frame B, as shown in fig. 2, and as the head *a* is moved out away from the handle C, the arms *d* are reversed, and the fan-leaf is unfolded, as shown in fig. 1.

From the head *a* extends a rod, *l*, which is provided with a collar, *g*, that presses against the end of a spring, *h*, enclosed in the hollow handle C, and as the head is pushed down toward the handle, the spring is compressed. In this position the head is retained by a spring-catch, *i*, which is secured to the outside of the frame B, and which catches into a hole in a plate, *j*, fastened to the head.

By pressing on the spring-catch, the head *a* is released, and the spring *h* carries the same back to the position shown in fig. 1, causing the fan-leaf to unfold automatically.

When the fan-leaf is folded, and the head retained by the spring-catch *i*, the fan can be conveniently carried in the pocket, and by a slight pressure on the spring-catch, the fan-leaf unfolds, and the fan is ready for use.

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

The combination, with the head *a*, slotted arms *d*, and fan A, of the spring *h* and rod *l*, substantially as and for the purpose described.

This specification signed by me, this 5th day of August, 1869.

OTTO BRÜCK.

Witnesses:

M. CAMPBELL,

U. S. Consul, Dresden.

W. A. OTTO UHLIG.