

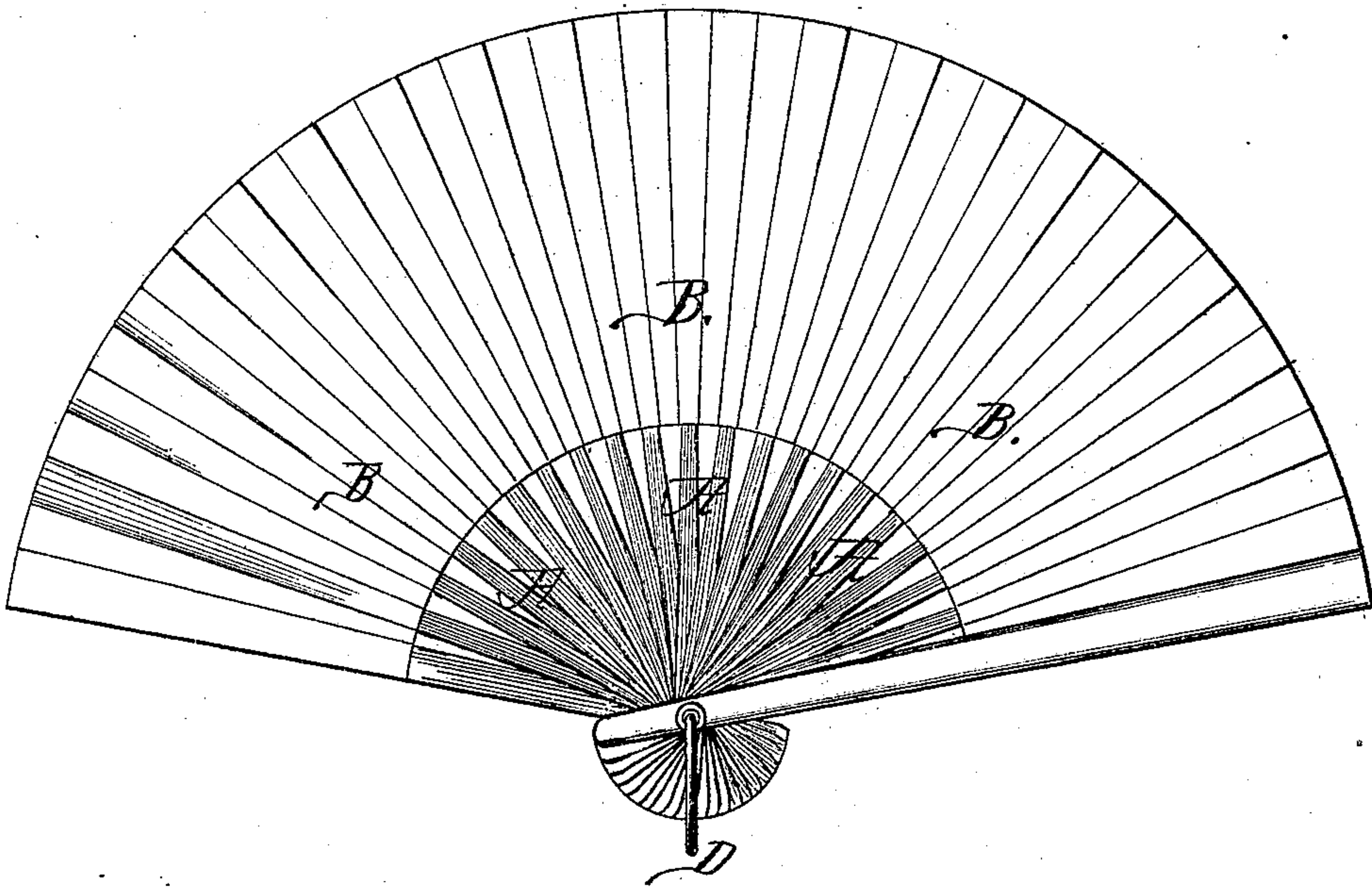
J. E. YOUNG.

FANS.

No. 181,513.

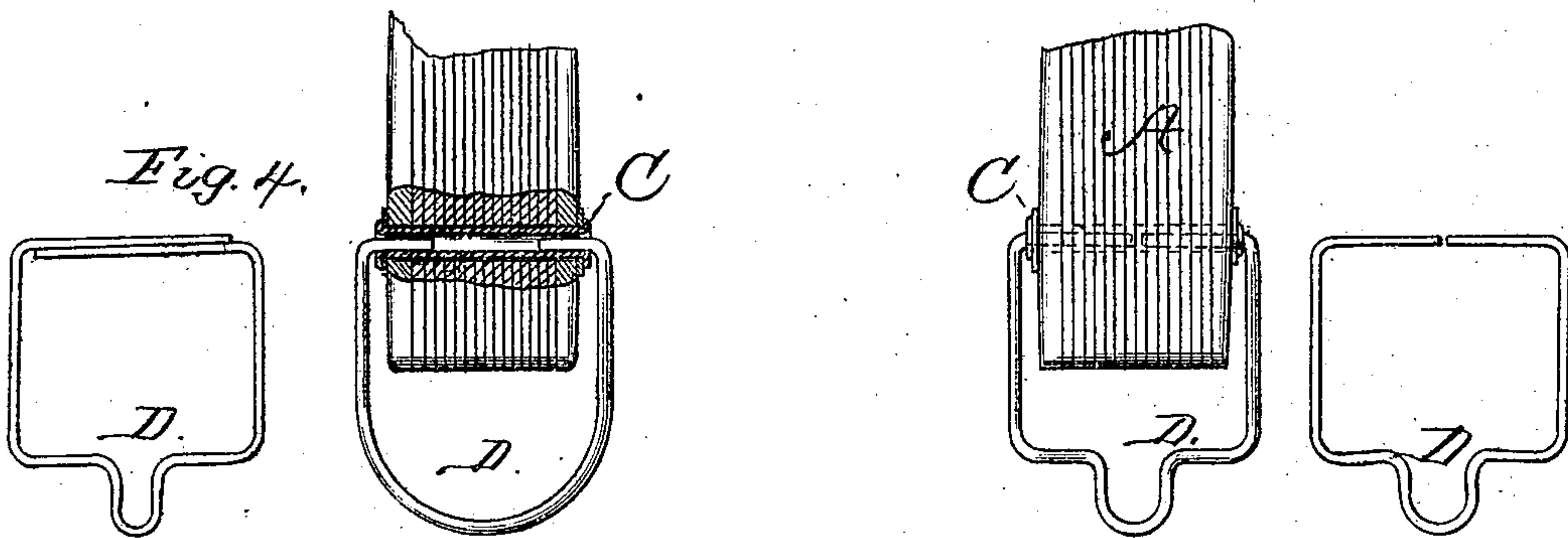
Patented Aug. 22, 1876.

*Fig. 1.*



*Fig. 2.*

*Fig. 3.*



Attest:  
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# UNITED STATES PATENT OFFICE.

JACOB E. YOUNG, OF WASHINGTON, DISTRICT OF COLUMBIA.

## IMPROVEMENT IN FANS.

Specification forming part of Letters Patent No. **181,513**, dated August 22, 1876; application filed June 16, 1876.

*To all whom it may concern:*

Be it known that I, JACOB E. YOUNG, of Washington, in the District of Columbia, have invented certain new and useful Improvements in Fans, of which the following is a specification:

This invention relates to certain improvements in that class of folding fans formed of a series of splints pivoted together at one end, with a web of paper or other fabric secured to the face ends, in such manner that the whole may be folded up in a small compass, or spread out for use when required.

In order to provide for conveniently carrying such fans they are generally constructed with a metallic bail or loop secured to the pivoted ends of the splints, by which the fan may be secured to a girdle or other article of wearing apparel. These bails, in the fans heretofore used, have been united upon the wire or pivot by which the splints are secured together. As thus constructed it is necessary to form, at the ends of the bail or loop, apertures or eyes for the insertion of the wire or rivet—an operation entailing considerable expense.

The object of my invention is to obviate this objection; and it consists in securing the ends of the splints together by means of a tubular metallic rivet, and in forming the loop or bail of such fan of an elastic metallic wire bent into proper shape, in such manner that the ends thereof may be sprung into the tubes, thus securing the bail in position, and avoiding all necessity of apertures or eyes in the same for riveting it to the fan.

In the drawing, Figure 1 represents a view of my improved fan. Fig. 2 represents a sectional showing of the bail I employ. Fig. 3 represents a modification, and Fig. 4 still another modification, of the same.

The letter A represents the splints of the

fan, constructed of wood or other material, in the usual manner; and B, the web of paper or other fabric forming the body of the fan. The letter C represents the rivet by which the splints are held together, which consists of a tube of metal of proper length, inserted through the aperture in the ends of the splints, and secured therein by upsetting the metal at the ends of said tube. The letter D represents the bail or loop, which consists of a wire of elastic metal bent into proper shape, the ends of which are sprung into the tubular rivet, and held therein by the elasticity of the bail. In the modification shown in Fig. 2 the ends of the bail are represented of such length as to just set in and be held in the ends of the tubular rivet; but it is evident that the ends of said bail may be made longer, so as to meet, as shown in Fig. 3, or to cross each other, and extend to each side of the tubular rivet, as represented in Fig. 4.

As thus constructed it will be evident that this class of fans may be much more cheaply made than heretofore, as the operation of forming the apertures or eyes at the ends of the bail is dispensed with.

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

In combination with a fan provided with a tubular rivet for securing the ends of the splints together, the bent-wire bail, constructed to be sprung into the ends of said tubular rivet, substantially as herein shown and described.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of the subscribing witnesses.

JACOB E. YOUNG.

Witnesses:

JOS. L. COOMBS,  
JAMES L. NORRIS.