

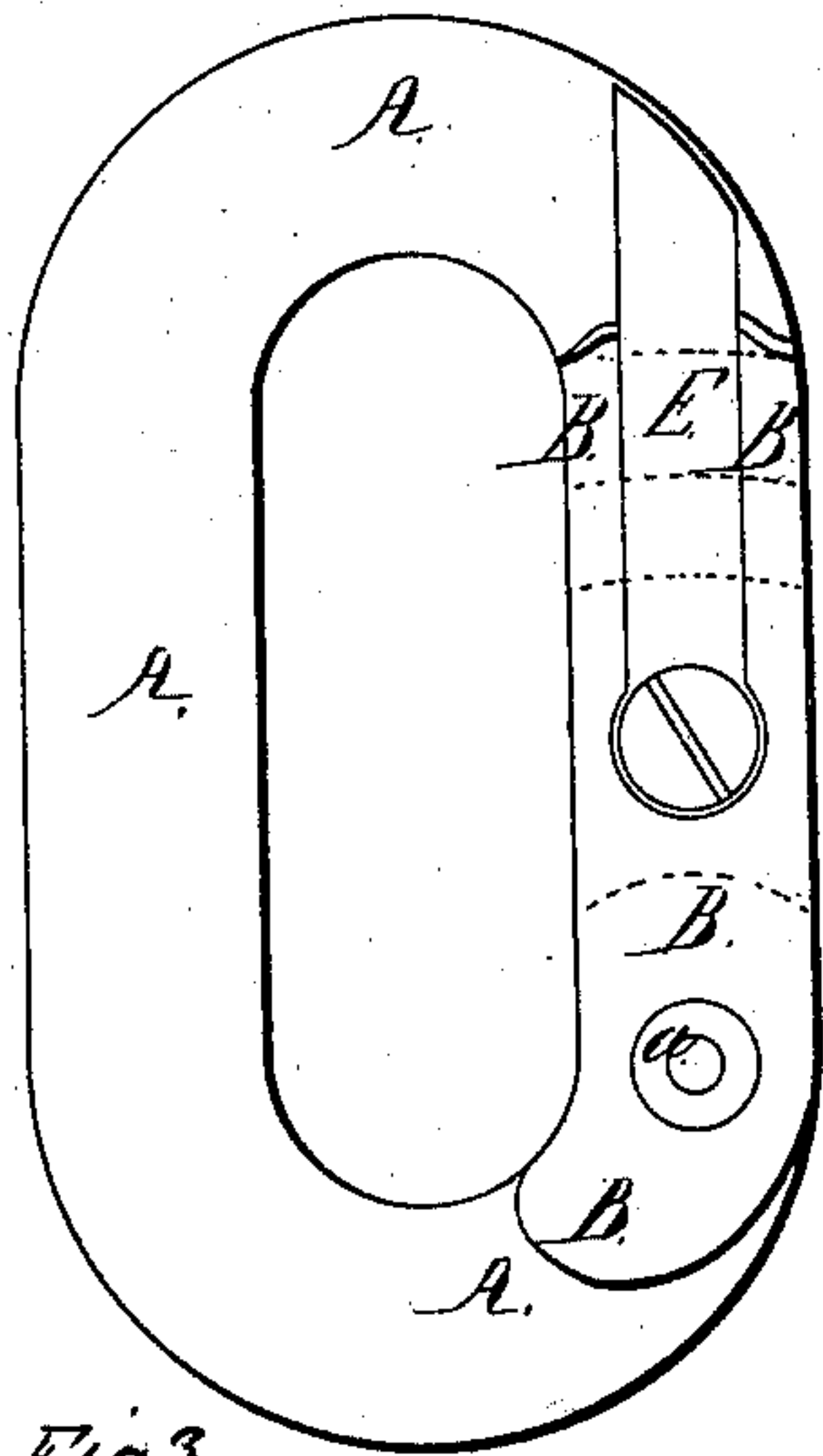
*R. Kreuzbaur,*

*Connecting Link.*

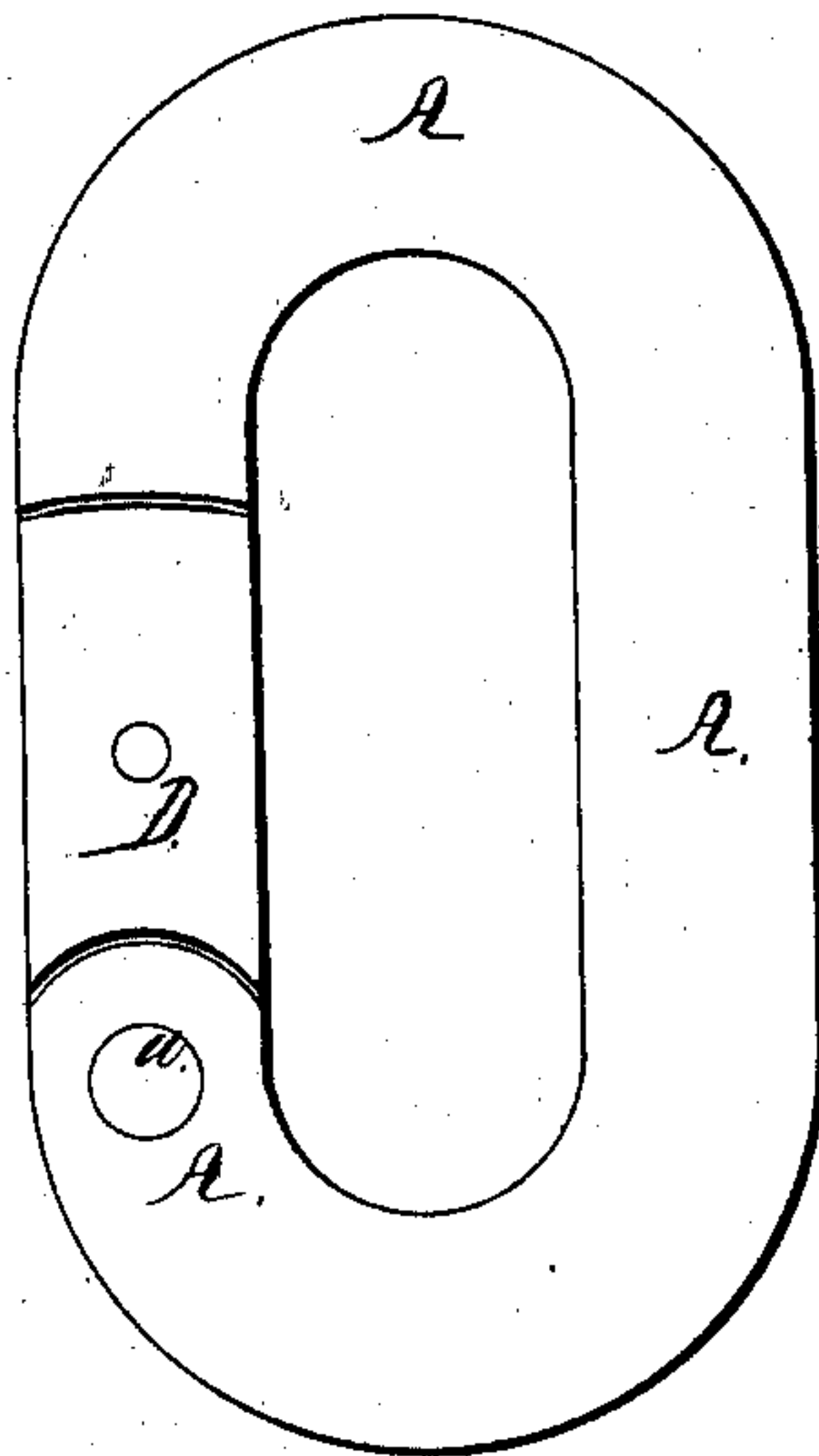
*N<sup>o</sup> 70,172.*

*Patented Oct. 29, 1867.*

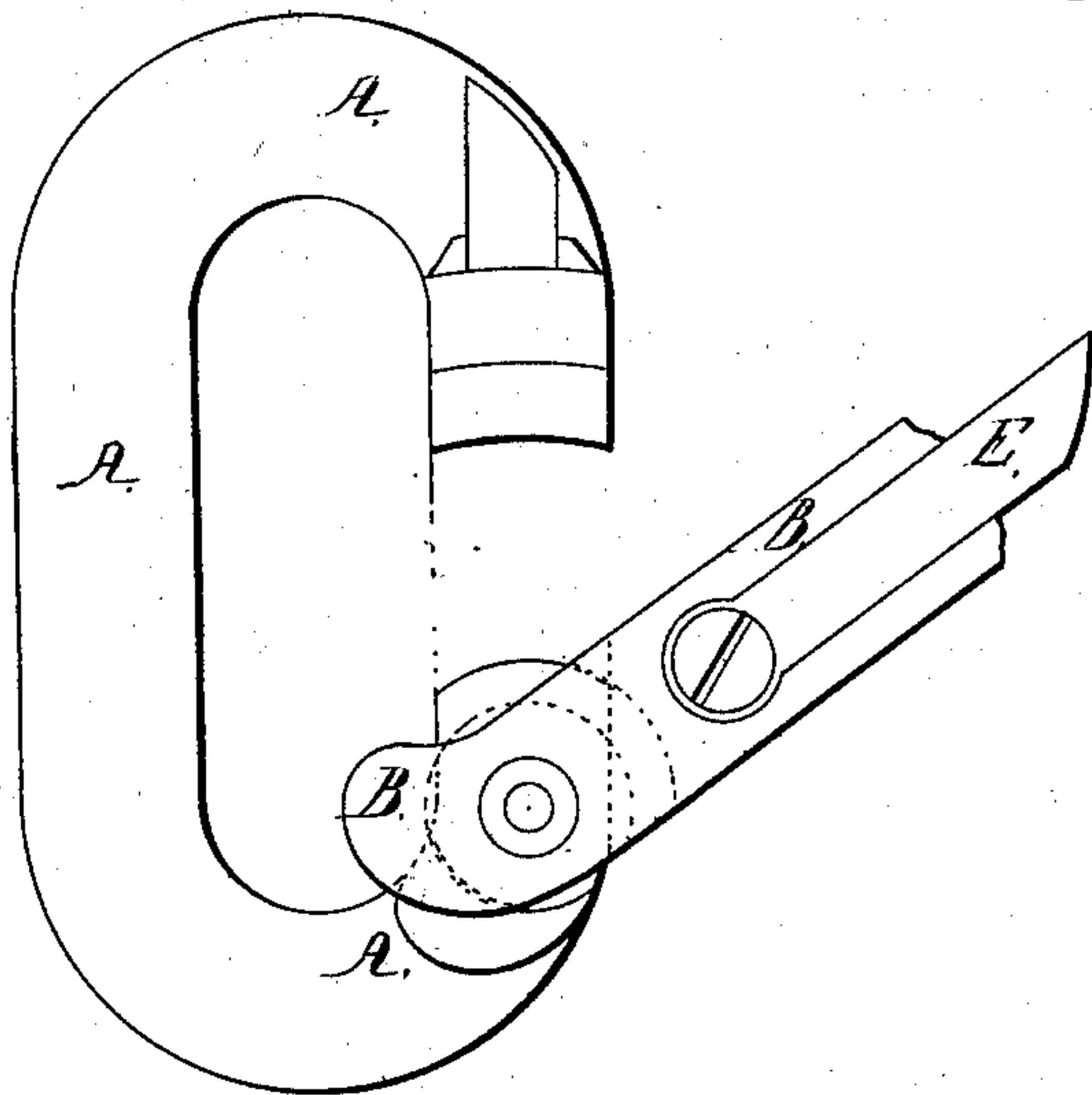
*Fig. 1.*



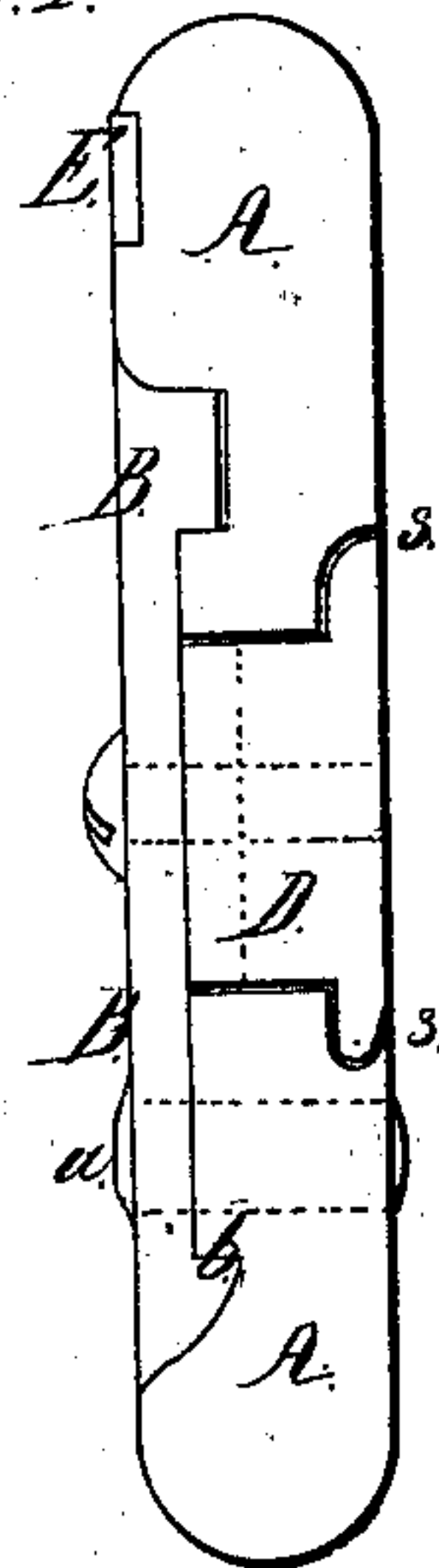
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



*Witnesses:*  
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*Edw. Schaefer.*

*Inventor,*  
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*by*  
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# United States Patent Office.

ROBERT CREUZBAUR, OF NEW YORK, N. Y.

*Letters Patent No. 70,172, dated October 29, 1867.*

## IMPROVEMENT IN CONNECTING-LINK.

*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, ROBERT CREUZBAUR, of the city and county of New York, in the State of New York, have invented a new and improved connecting-link, which I denominate the "O Connecting-Link;" and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of that side of the link upon which the spring-latch is applied.

Figure 2 is a view of the opposite side of the link.

Figure 3 shows the link open.

Figure 4 is an edge view of the link closed.

Similar letters of reference indicate corresponding parts in the several figures.

The object of this invention is to produce a connecting-link which shall possess the advantages of great strength, lightness, good proportions for use and appearance, and a locking arrangement which shall be easily and conveniently manipulated, and yet perfectly safe, as will be hereinafter described.

To enable others skilled in the art to understand my invention, I will describe its construction and operation.

This improved link is composed of four parts connected together by rivets. A is the main part of the link, which is of a C shape, as shown in fig. 3, which is shouldered and squared at the ends as shown, and which is made of wrought metal, bent and swaged in proper shape. The tongue or part B covers the opening of the link proper, and is firmly pivoted at one end to one end of the same; the other end of this part B is formed with a tongue upon it, which fits into a corresponding groove in the part A. When the part B is closed its tongue or tenon fitting into the groove, as shown in fig. 4, prevents the straightening out of the link A when under strain. To give the part B a strength corresponding somewhat to the main portion of the link, it is made of steel swaged in proper shape. To assist the pivot *a* in sustaining the strain, a somewhat slighter shoulder or tongue may be formed on the pivoted end of piece B, which tongue turns into and abuts against a corresponding groove and shoulder on the part A, as shown at *b*, in figs. 3 and 4. The piece D, which is made of soft metal, is riveted to the piece B, and serves the double purpose of filling up the link on the opposite side to B, and also, by means of its two shoulders S S, to keep the link A and piece B from separating when under a heavy strain. In order to prevent the turning of the piece D around the rivet which secures it to the piece B, the latter is tongued and the former grooved to match each other, as indicated in dotted lines, fig. 4. The spring E, which is fastened to B with the same rivet which fastens D to B, lies in a groove which is swaged into the piece B, and, in closing the link, this spring falls into a groove which is swaged into the link A, and thus forms a lock or latch. To open the link the free end of the spring E is raised out of the notch in A, so that the piece B, with its piece D, can be turned outward, as indicated in fig. 3.

It will be seen from the above description that the closing portion of the link serves a very important purpose in strengthening the link, by preventing the portion A from straightening out or becoming strained.

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

1. An "O" connecting-link having a closing piece pivoted to it substantially as described.
2. Adapting the pivoted closing piece of the "O" link to serve as a means of strengthening the main portion of the link, substantially as described.
3. The combination of the pivoted closing piece B, spring E, and link-portion A, constructed substantially as described.

Witnesses:

JOHN P. KIRK,  
HENRY BIRCHOFF.

ROBERT CREUZBAUR.