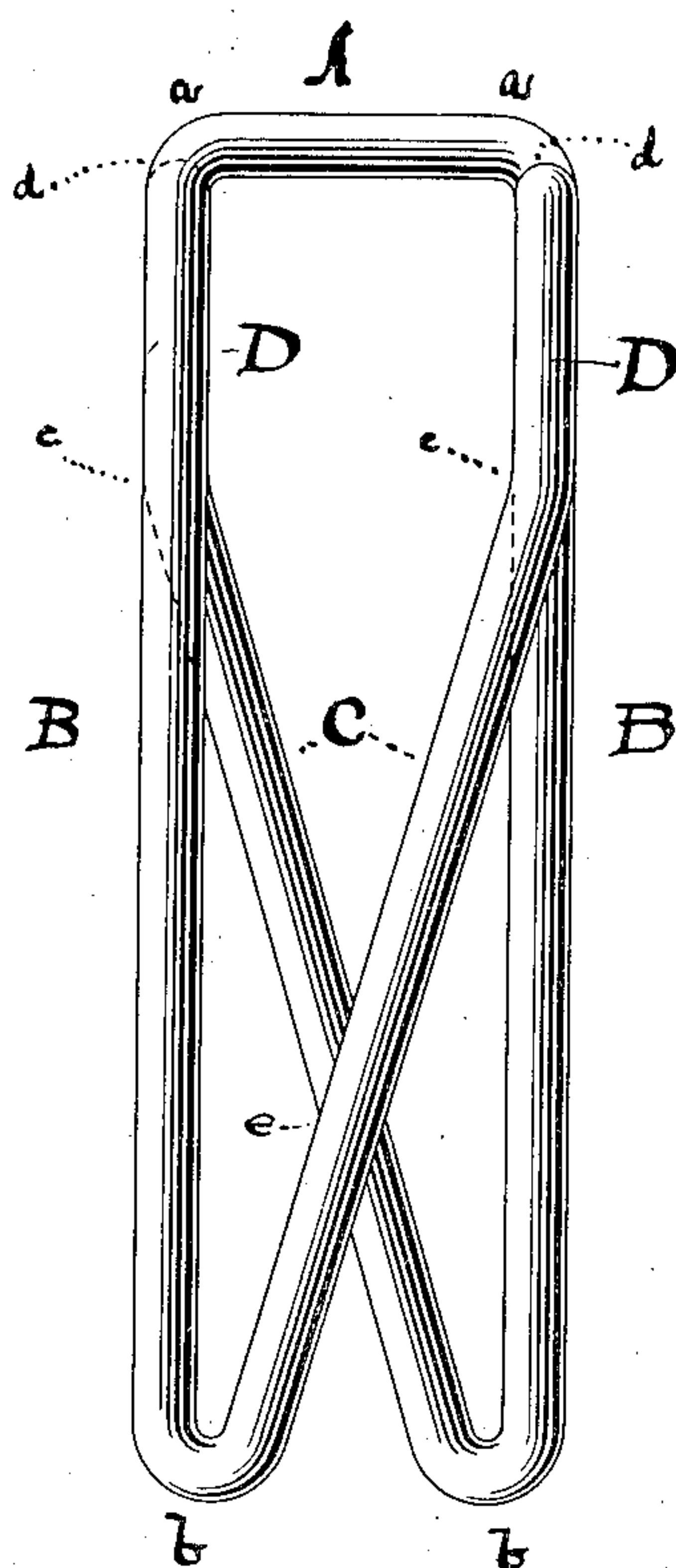


No. 820,361.

PATENTED MAY 8, 1906.

F. J. KLEIN.  
PAPER CLIP.

APPLICATION FILED OCT. 6, 1905.



Witnesses:  
Chas. D. King.  
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# UNITED STATES PATENT OFFICE.

FRED J. KLEIN, OF NEW YORK, N. Y.

## PAPER-CLIP.

No. 820,361.

Specification of Letters Patent.

Patented May 8, 1906.

Original application filed March 27, 1905, Serial No. 252,364. Divided and this application filed October 6, 1905. Serial No. 281,695.

*To all whom it may concern:*

Be it known that I, FRED J. KLEIN, a citizen of the United States, residing in the city, county, and State of New York, have invented a new and useful Improvement in Paper-Clips, of which the following is a specification.

The present application is a divisional application of application Serial No. 252,364, filed March 27, 1905, for paper-clips.

The object of my invention is to provide an efficient paper clip or holder constructed so that it can be easily applied, presents no sharp points to mutilate the papers, yet holds firmly, and can be economically manufactured.

The accompanying drawing shows the form of my paper-clip preferred by me, although variations therein may manifestly be made without departing from the principle of construction or mode of operation of the same.

A is the upper member. B B are the side arms or lengths. C C are the fore arms. D D are the terminal arms. *a a* are the first bends; *b b*, the second bends; *c c*, the third bends; *d d*, the points of the terminal arms; *e*, a crossing of the fore arms.

In carrying out my invention I construct the clip of a single length of straight resilient wire of suitable size by bending the same at *a a* to form symmetrical angles, the upper member A and the two side arms or lengths B B so that they shall lie in the same plane and on the same side of the upper member. Having done this, I now bend said side arms or lengths at the points *b b* between their ends and the bends *a a*, so as to throw each of said ends inwardly and diagonally up and against the other side arm or length. As thus formed the fore arms C C cross one an-

other and provide three points of contact or pressure at *e*, *c*, and *c*. Having done this, I bend the fore arms at *c c* to form the terminal arms D D parallel to the side arms and so that they will rest in spring-bearing contact therewith from the bends *c c* to the points *d d*, each side arm and the fore arm and terminal arm connected therewith being on the same side of the other side arm, fore arm, and terminal arm, said terminal arms ending at the points *d d*, at or below the bends *a a*.

The clip as thus made, if the bending is done in the same plane, will have a certain amount of tension or tendency of each fore arm and terminal arm to displace the other side arm and fore arm and throw it out of line, which tension is very necessary to its efficiency.

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

A paper-clip formed from a single length of wire bent to form an upper member, side arms extending from the same side thereof at symmetrical angles, fore arms at the ends of said side arms crossing and pressing against each other, extending toward said upper member and ending in terminal arms, the terminal arms resting on the side arms in parallel spring-bearing contact; each side arm, fore arm and terminal arm connected therewith being on the same side of the other side arm, fore arm and terminal arm.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRED J. KLEIN.

Witnesses:

EDNA G. BOWEN,  
LILLIAN SAFFERY.