

(No Model.)

L. HIRSCH.  
ELECTRICAL TOY.

No. 413,058.

Patented Oct. 15, 1889.

Fig. 1.

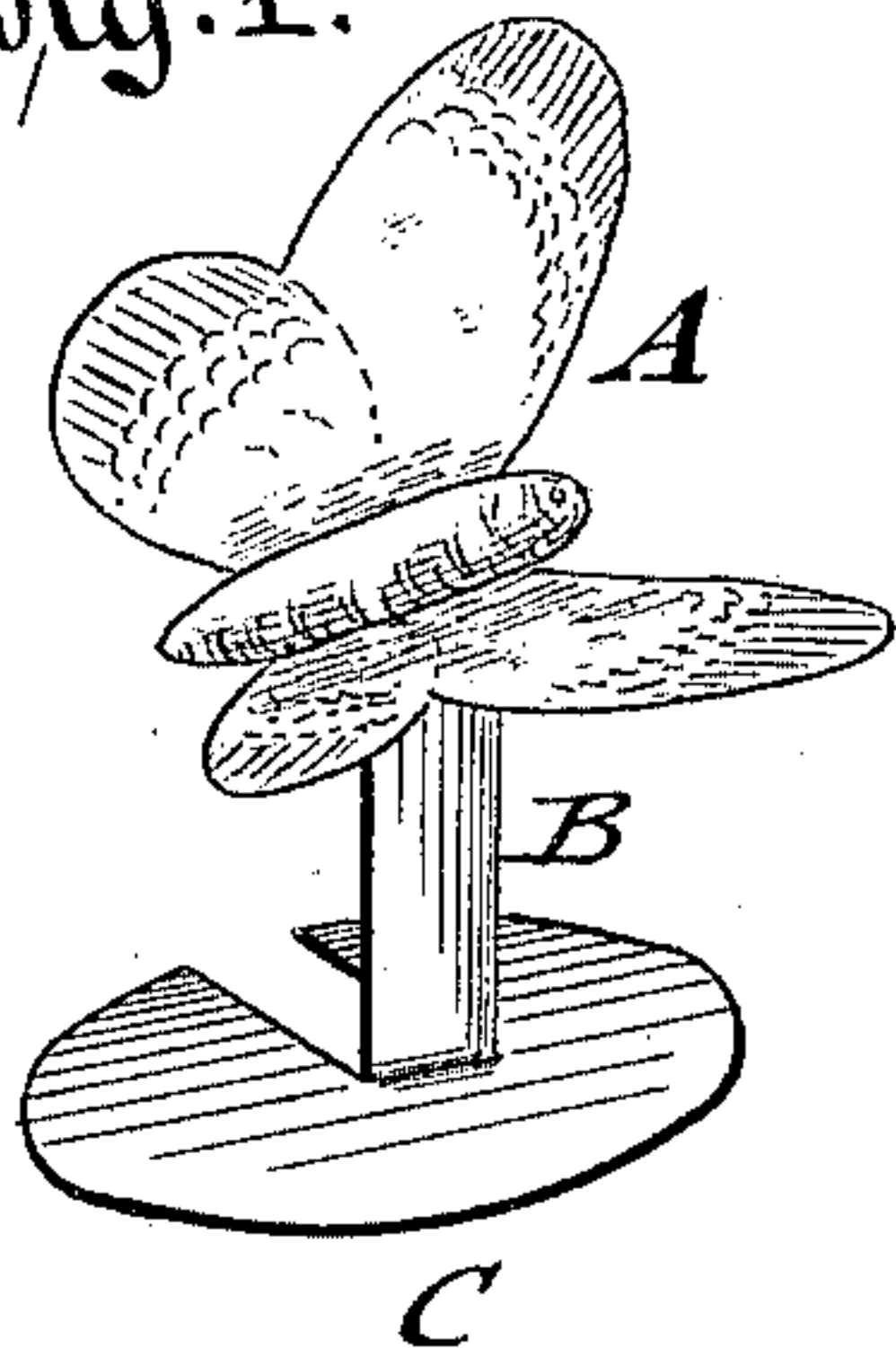


Fig. 2.

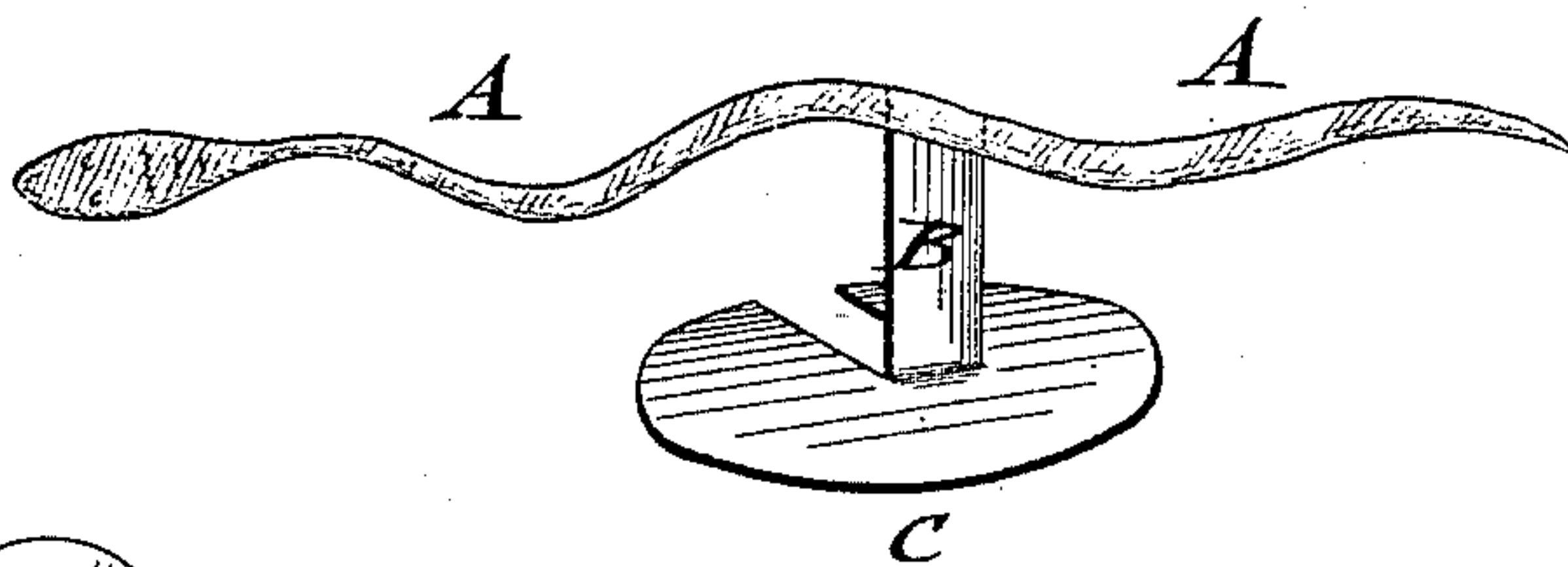


Fig. 3.

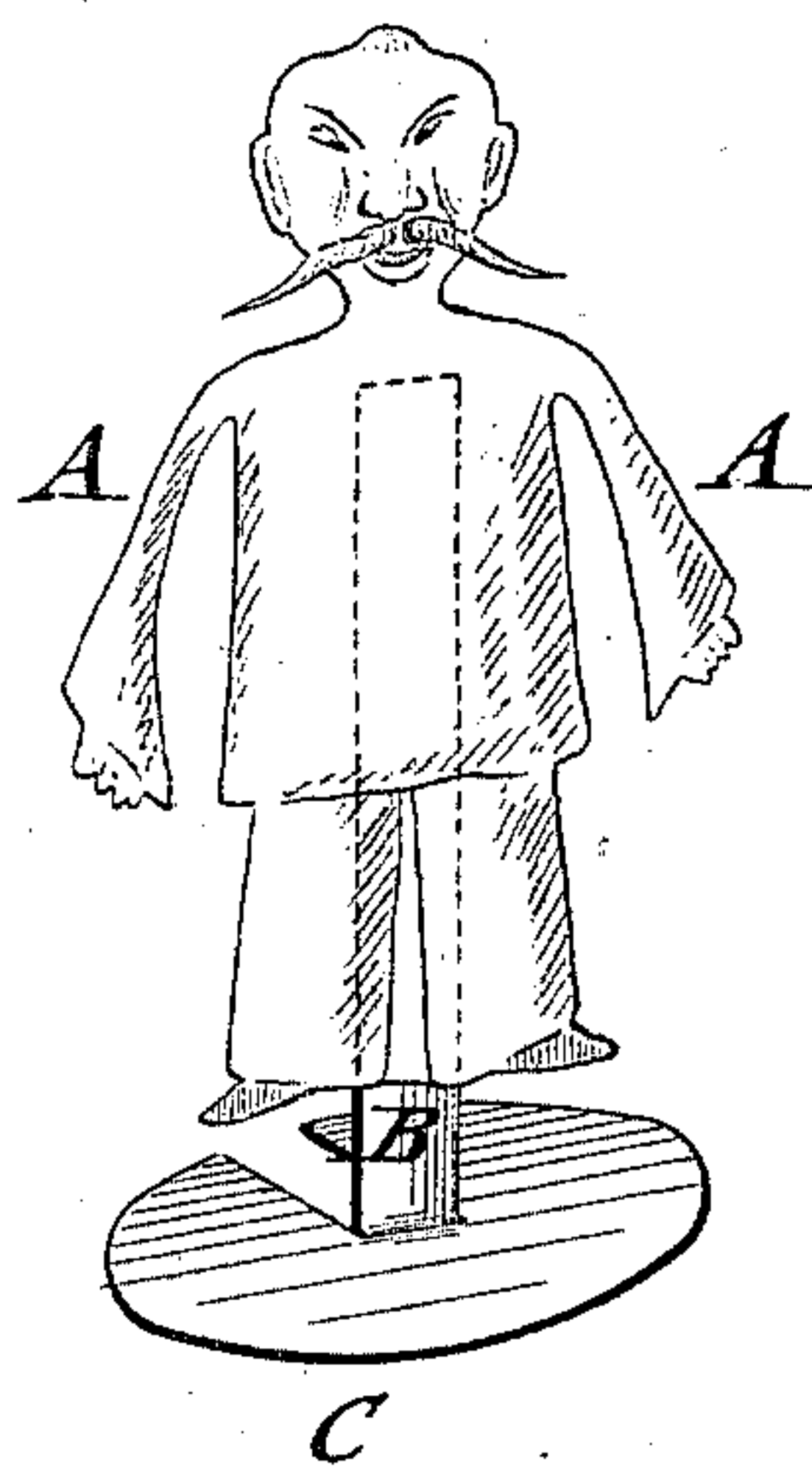


Fig. 5.

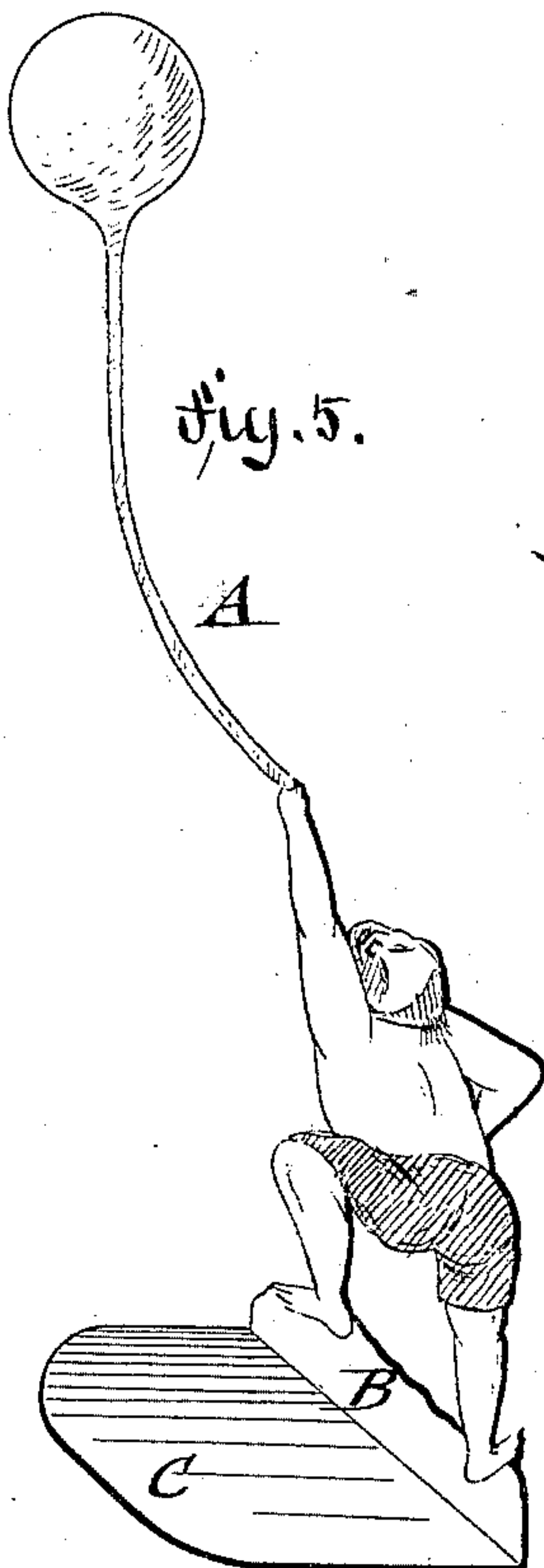


Fig. 4.

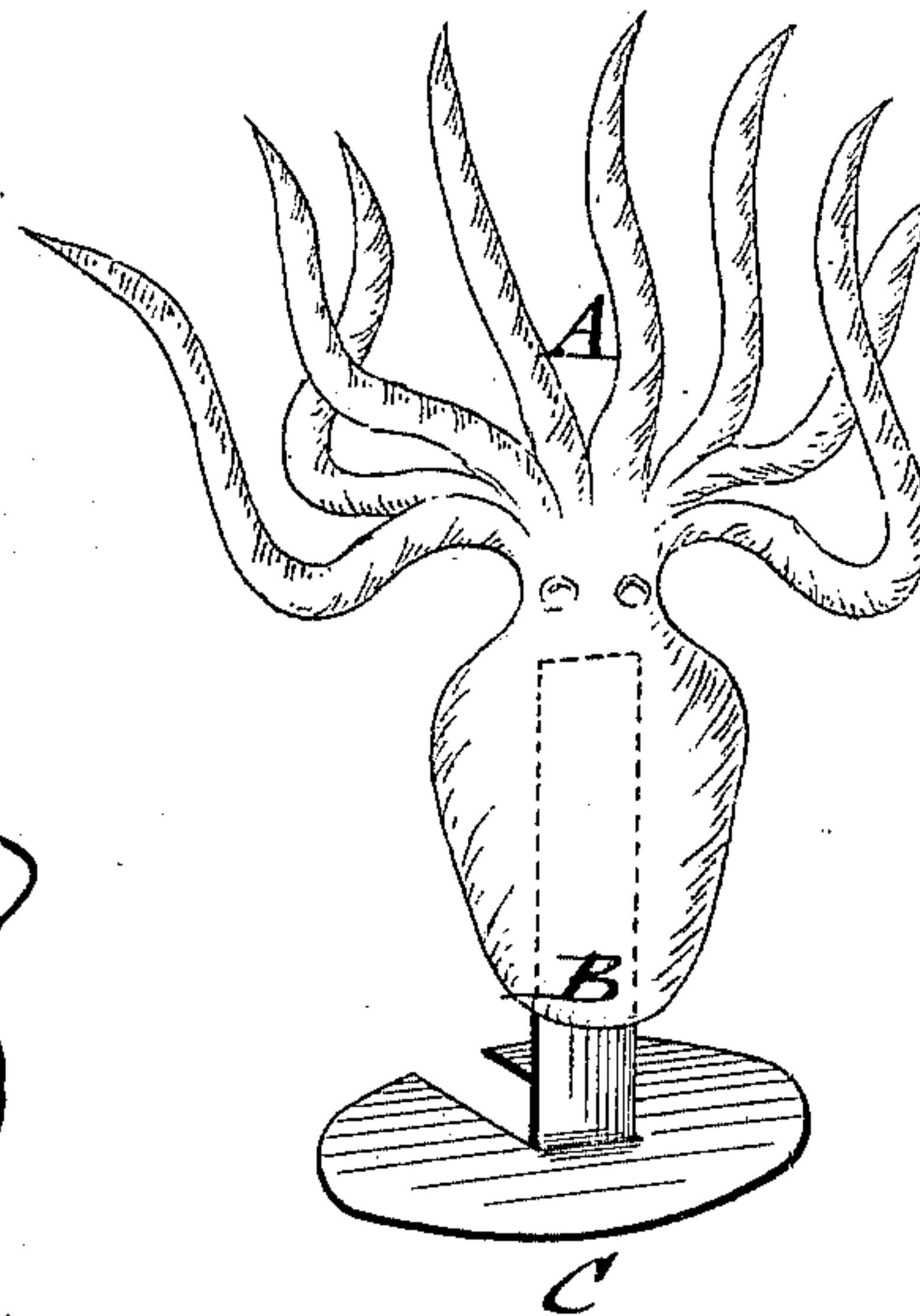
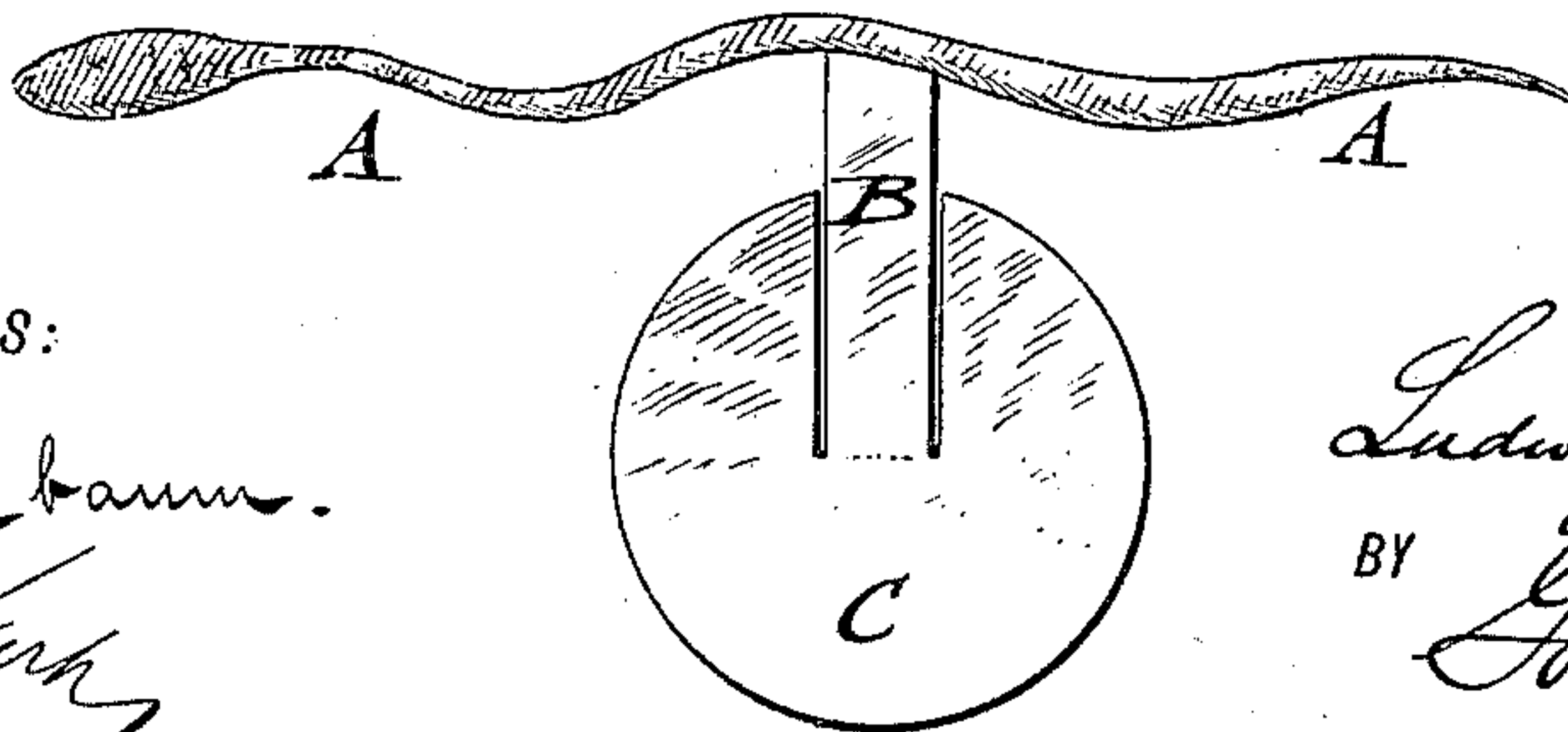


Fig. 6.



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# UNITED STATES PATENT OFFICE.

LUDWIG HIRSCH, OF NEW YORK, N. Y.

## ELECTRICAL TOY.

SPECIFICATION forming part of Letters Patent No. 413,058, dated October 15, 1889.

Application filed March 8, 1889. Serial No. 302,524. (No model.)

*To all whom it may concern:*

Be it known that I, LUDWIG HIRSCH, of the city, county, and State of New York, a citizen of the United States, have invented  
5 certain new and useful Improvements in Electrical Toys, of which the following is a specification.

This invention relates to an improved electrical toy, by which the effect of frictional  
10 or static electricity is illustrated in a very effective manner and with inexpensive means; and the invention consists of a toy figure the body of which is made of tissue or other thin paper and of stiffer paper attached to  
15 said body of thin paper, and provided with a base that can be folded into the same plane with the toy figure. When the thin paper body is placed under the influence of a body charged with frictional electricity, it is at-  
20 tracted by the same, so as to execute a number of movements as long as it is subjected to the influence of said charged body.

In the accompanying drawings, Figures 1 to 5 represent perspective views of different  
25 toy figures, which can be used for demonstrating static or frictional electricity; and Fig. 6 is a top view of one of said figures shown folded into the plane of its base, so as to be conveniently stored away in a box.

30 Similar letters of reference indicate corresponding parts.

My improved electrical toy figures are made of tissue or other thin paper and cut into any suitable shape, so as to represent  
35 animals or other bodies. The figures A, of tissue or other thin paper, are applied to a supporting-strip B, of stiffer paper, which is made integral with a suitable base-piece C, the paper strip B being bent up at right an-  
40 gles to the base C or folded into the same plane therewith, as shown, respectively, in Figs. 2 and 6.

A number of toy figures of different shapes are finished in suitable colors and configura-  
45 tions and attached to stiffer supporting-strips B, and supplied in a box in connection with a hard-rubber plate or other suitable body which serves as a condenser for the static or frictional electricity. By rubbing the rub-  
50 ber plate on woolen clothing it is charged with static electricity, so as to attract, when approached to the toy figures, the ends which are bent toward the charged body. By ap-  
55 proaching the charged body toward or moving it away from the toy figure the toy figures follow the movements of the body and perform  
60 thereby different movements, which are amusing to the young and old, as they illustrate in a very simple and cheap manner the fundamental principle of static or frictional  
65 electricity.

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

1. An electrical toy figure composed of a  
65 main part or body of tissue or other thin paper and a supporting-strip of stiff paper for said body, so that the latter can be attracted by a body charged with frictional  
70 electricity, substantially as set forth.

2. An electrical toy figure composed of a body of tissue or other thin paper, a support-  
75 ing-strip of stiff paper, and a base made integral with strip, so that the latter and the body of the toy figure can be folded into one plane  
with the same, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

LUDWIG HIRSCH.

Witnesses:

CARL KARP,  
M. GOLDSTEIN.