

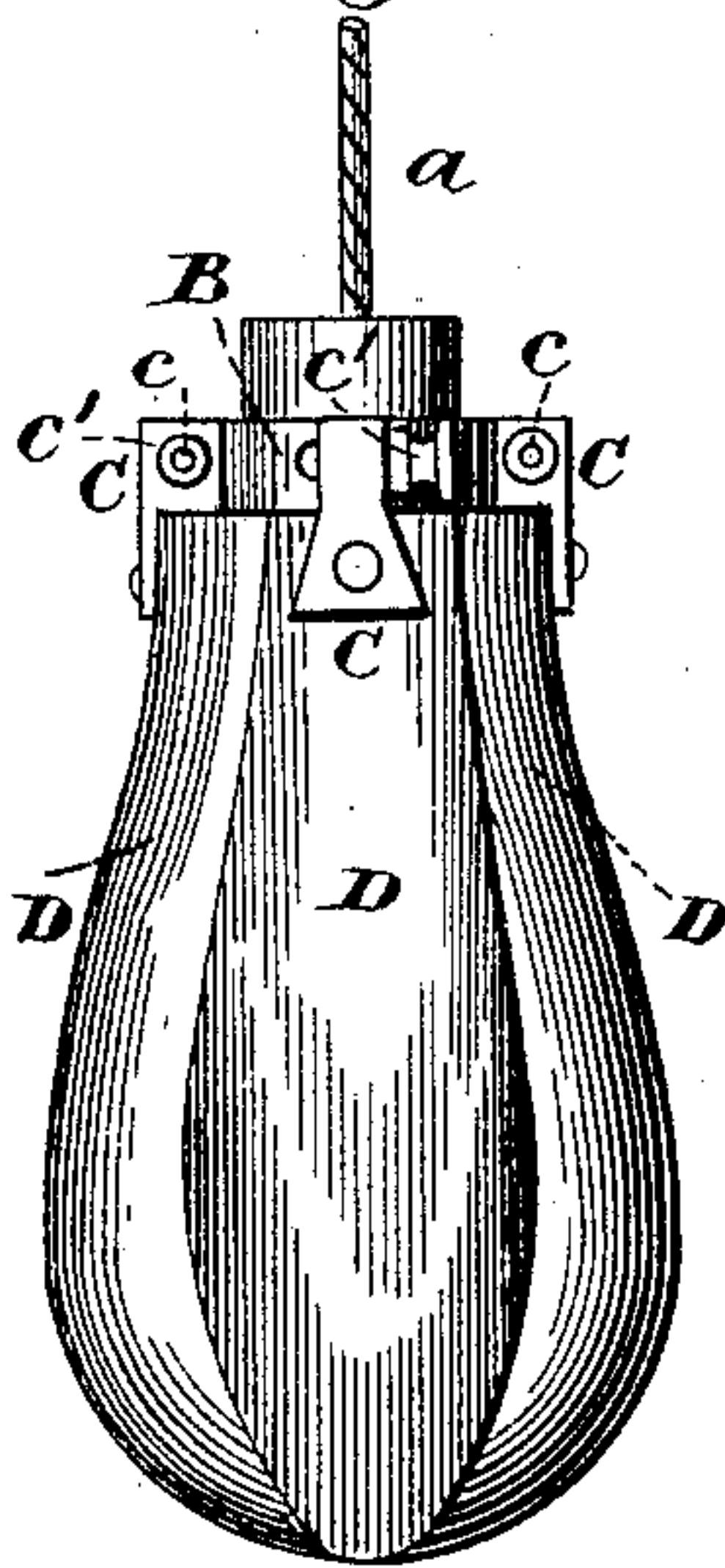
(No Model.)

A. F. GÄRTNER & J. C. HARRIS.  
SECTIONAL SHADE FOR INCANDESCENT ELECTRIC LIGHTS.

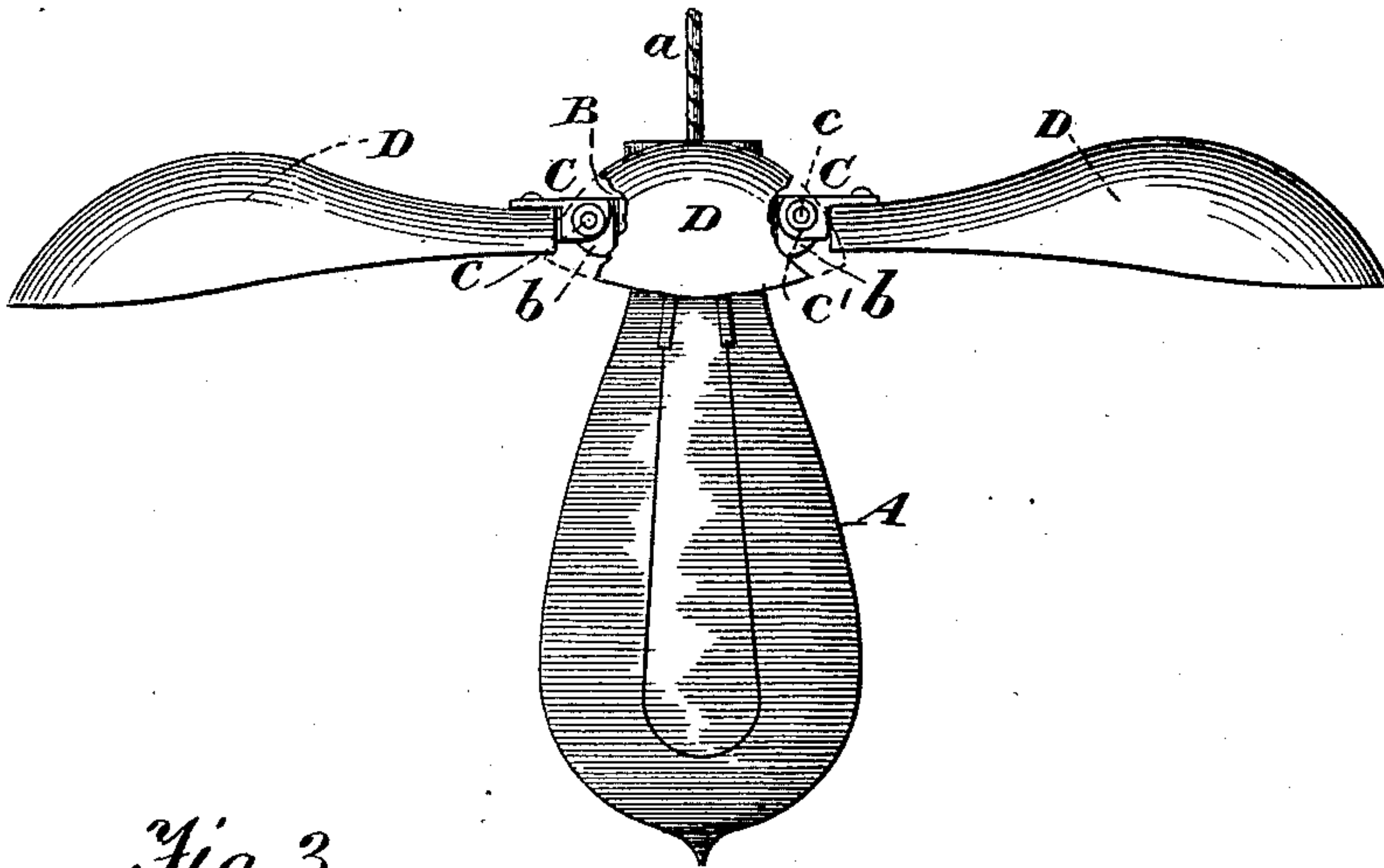
No. 452,638.

Patented May 19, 1891.

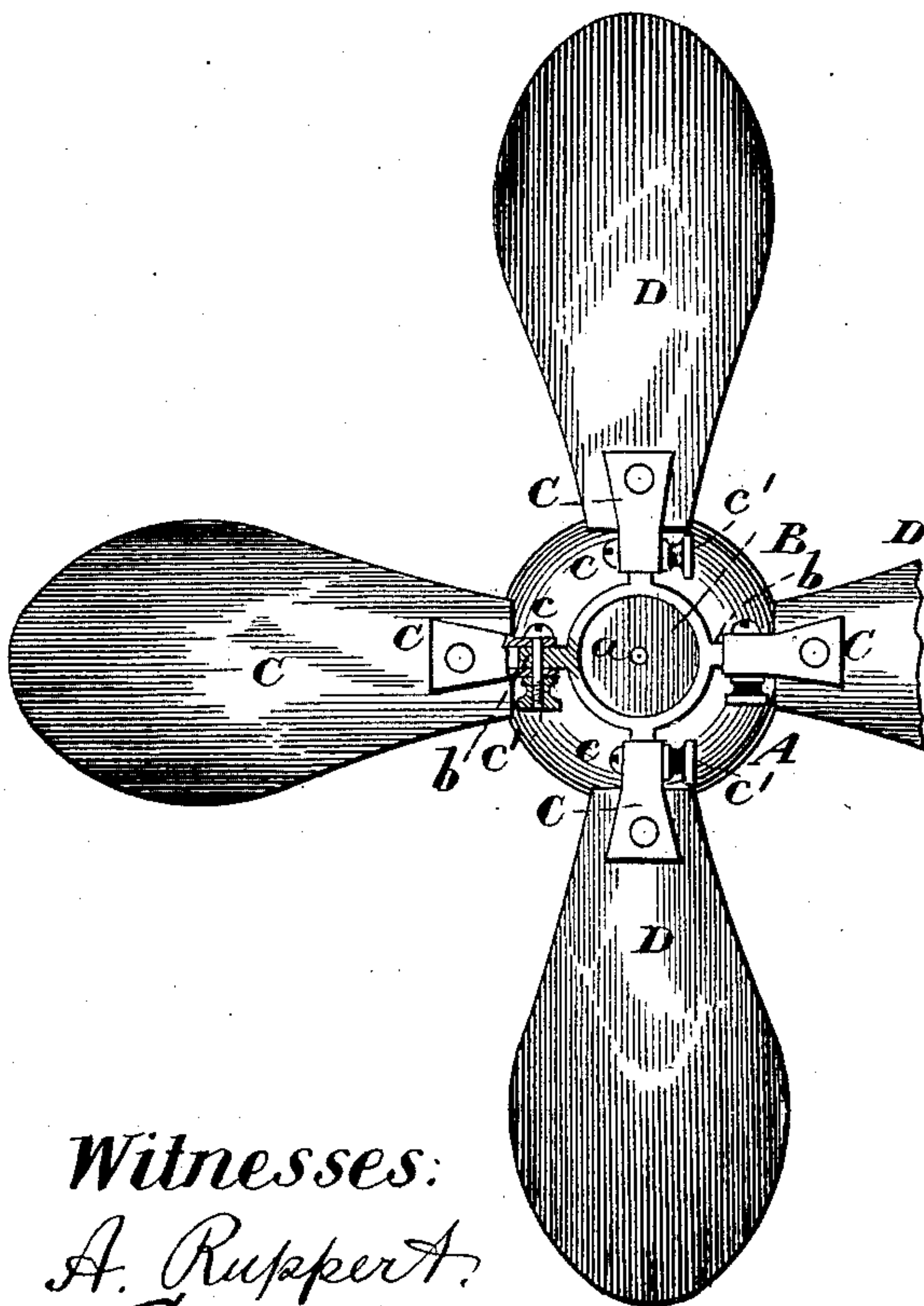
*Fig. 1.*



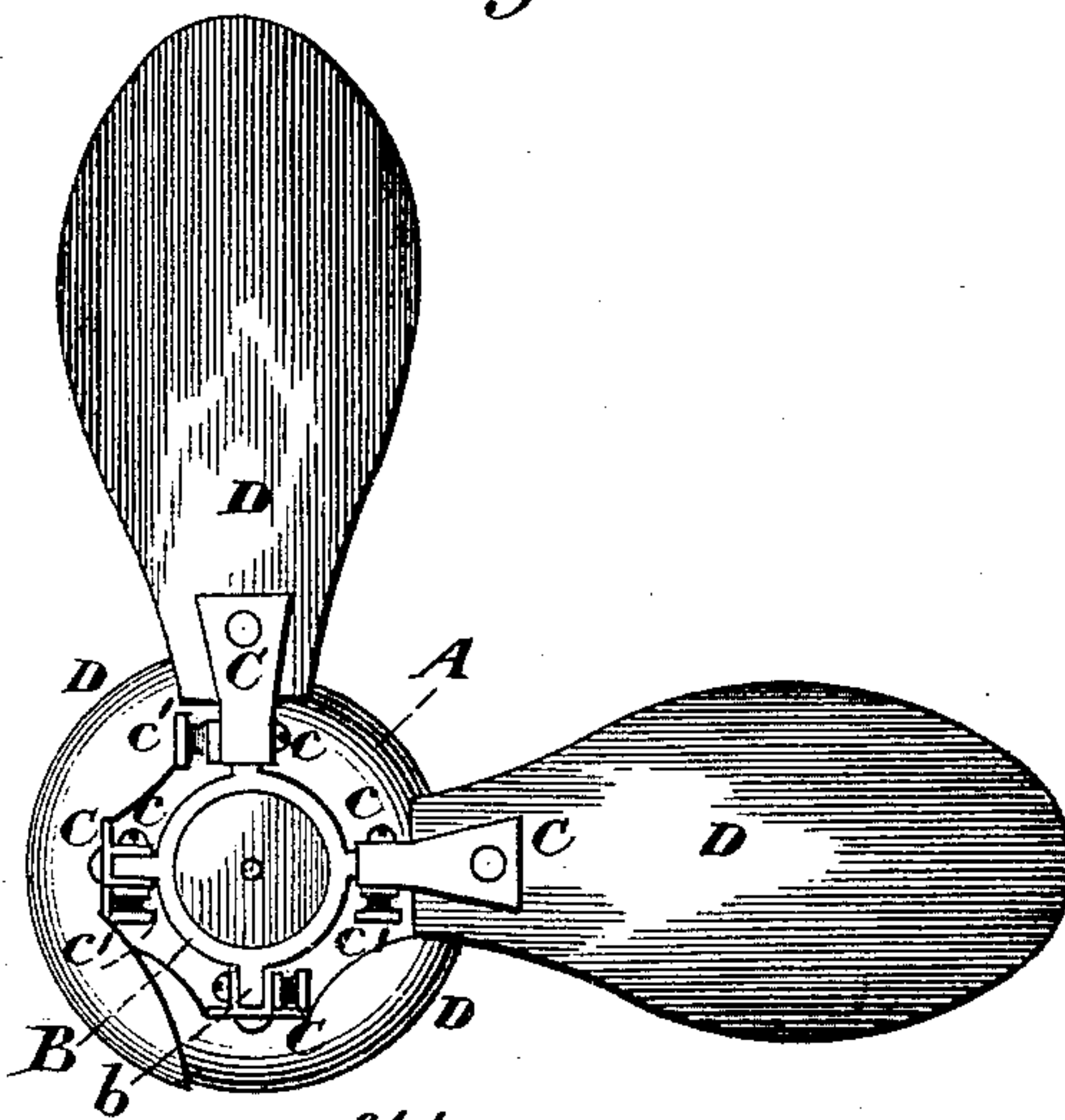
*Fig. 2.*



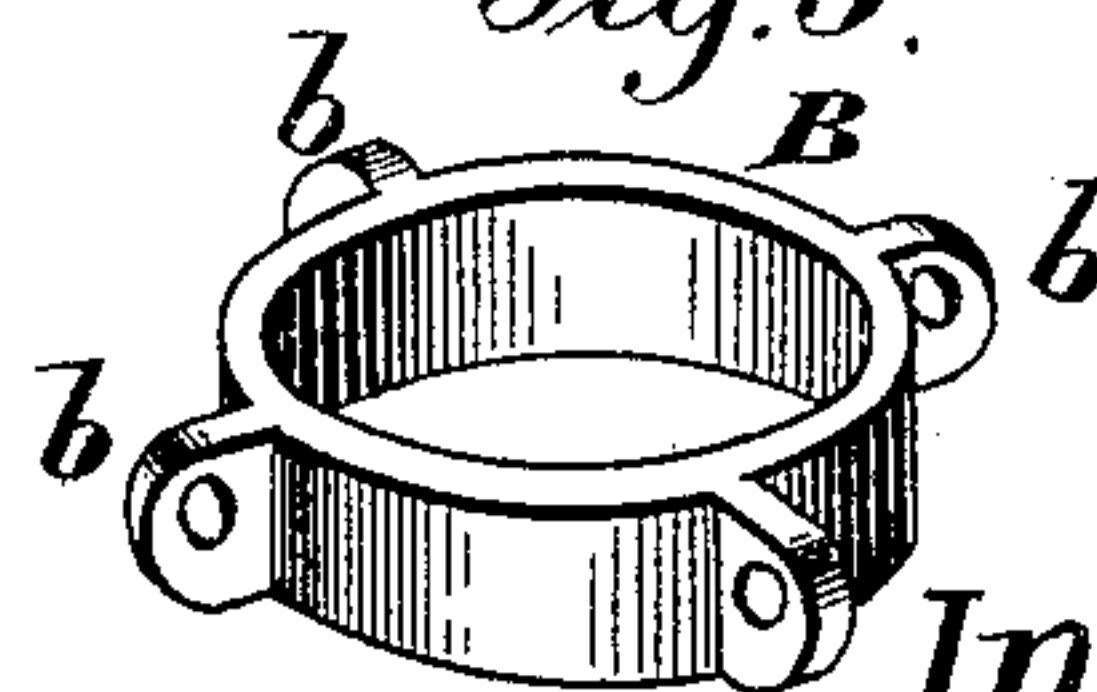
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

ALBERT F. GÄRTNER AND JOHN C. HARRIS, OF SAVANNAH, GEORGIA.

## SECTIONAL SHADE FOR INCANDESCENT ELECTRIC LIGHTS.

SPECIFICATION forming part of Letters Patent No. 452,638, dated May 19, 1891.

Application filed August 30, 1890. Serial No. 363,506. (No model.)

*To all whom it may concern:*

Be it known that we, ALBERT F. GÄRTNER and JOHN C. HARRIS, both of Savannah, in the county of Chatham and State of Georgia, have  
5 invented certain new and useful Improvements in Sectional Shades for Incandescent Electric Lights, of which the following is a specification, reference being had to the accompanying drawings, and to the letters of  
10 reference marked thereon.

The object of this invention is to allow the light to be varied, regulated, or shut off entirely at the will of the user. Without a suitable shade there can be no variation of the  
15 light between full brightness and absolute extinction, and as it is impracticable to vary the power of the light itself our invention aims to provide a simple, convenient, and easily-adjusted shade for the purpose in view.

20 In the accompanying drawings, Figure 1 is an elevation showing an ordinary incandescent lamp with our improved sectional shade closed. Fig. 2 is a similar view representing the shade open. Fig. 3 is a top view, the  
25 shade being shown open. Fig. 4 is a similar view, some sections of the shade being represented open and others closed. Fig. 5 is a detached detail.

Similar letters of reference indicate similar  
30 parts in the respective figures.

A is the bulb of an ordinary incandescent lamp, shown in this case as suspended by the conducting-wires *a*.

35 B is a collar, of metal or other suitable material, fitting over the neck of the bulb A. This collar is provided with a series of lugs *b*, projecting outwardly, and on each of these lugs is pivoted, by means of a threaded pin *c*, a clip C, on which a nut *c'* fits. By tightening  
40 the nut *c'* the clip can be held in any desired position on the lug *b*.

To each clip C is attached in any approved manner a section D of our improved shade. These sections may be of any suitable light  
45 or thin material, as mica, paper, glass, celluloid, metal, &c., and should the material employed be transparent it must be suitably prepared for the purpose in view by painting or otherwise making it opaque. Each

section in outline is substantially pear-shaped 50 and convexo-concave, so as to conform to the shape of the bulb A. When closed, each section will slightly overlap or be overlapped by the adjacent sections.

In the drawings we have represented four 55 sections, but do not limit ourselves to four, as the series may consist of less or more than that number.

Any suitable means may be employed to elevate, lower, or adjust the sections, or such 60 operations may be effected by hand, this feature forming no part of our present invention.

As each section can be moved independently of the others, it is apparent that the 65 light can be entirely or partially obscured or permitted to shine with its full power and brightness.

This invention is well adapted to use in offices, sick-rooms, reading or sitting rooms, 70 or in work-shops where the lights are suspended or arranged over work-benches.

The special feature of advantage in our invention is the ease with which light may be 75 graded, deflected, or entirely shut off and the perfect control which the user has over the device in adjusting it to the special uses required.

Having described our invention, we claim—

The combination, with the bulb of an in- 80 candescent lamp, of a shade consisting of a support and a series of independently-moving convexo-concave sections substantially pear-shaped in outline and pivoted to said support, each section overlapping or being over- 85 lapped by the adjacent section when they are closed, as and for the purpose specified.

In testimony whereof we have hereunto set our hands and seals.

ALBERT F. GÄRTNER. [L. S.]

JOHN C. HARRIS. [L. S.]

Witnesses to the signature of A. F. Gärtner:

CHAS. H. FENSTERMACHER,

FRANCIS H. WATERS.

Witnesses to the signature of J. C. Harris:

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