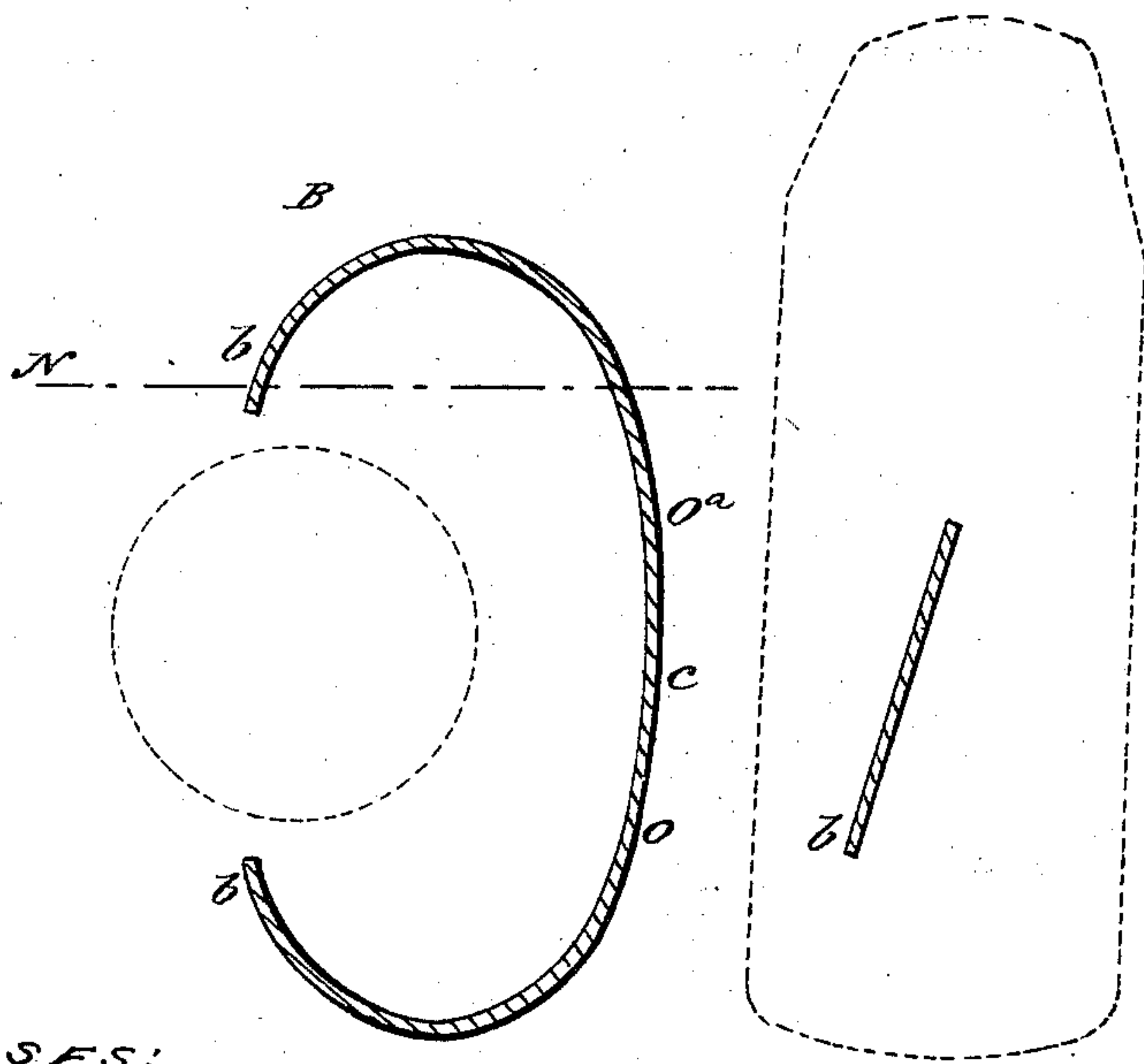
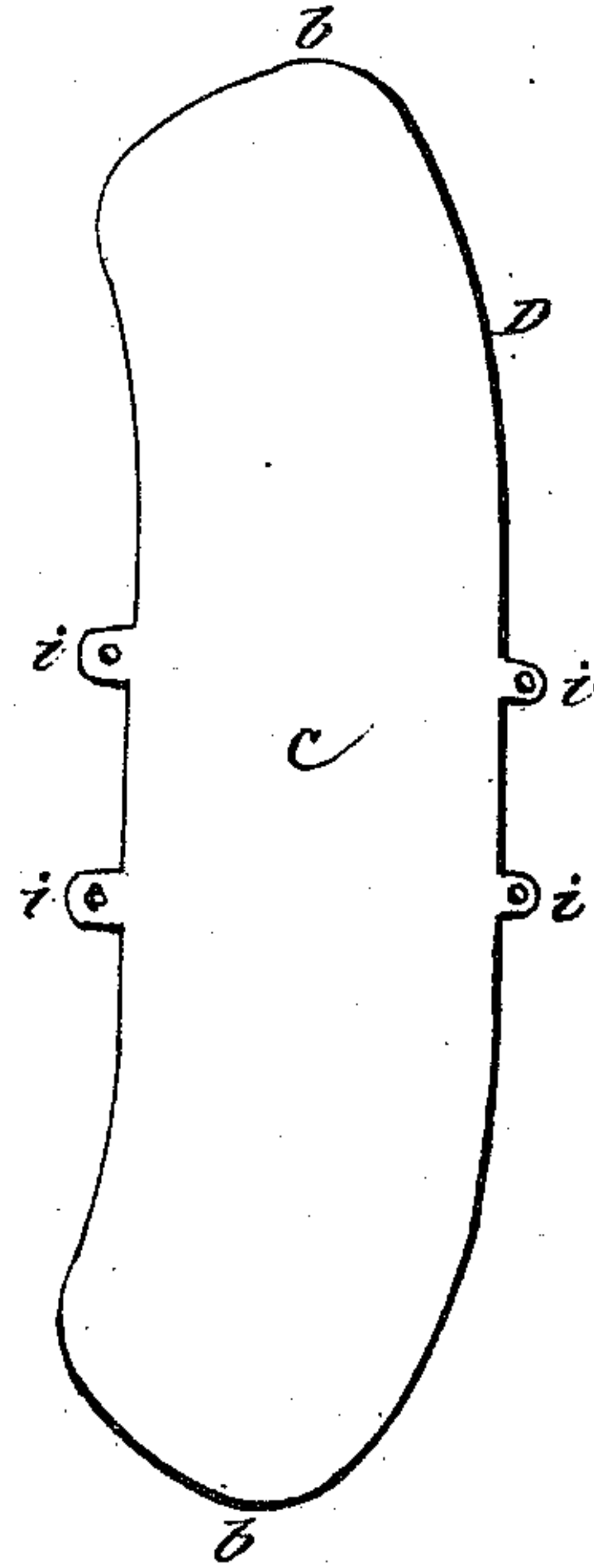
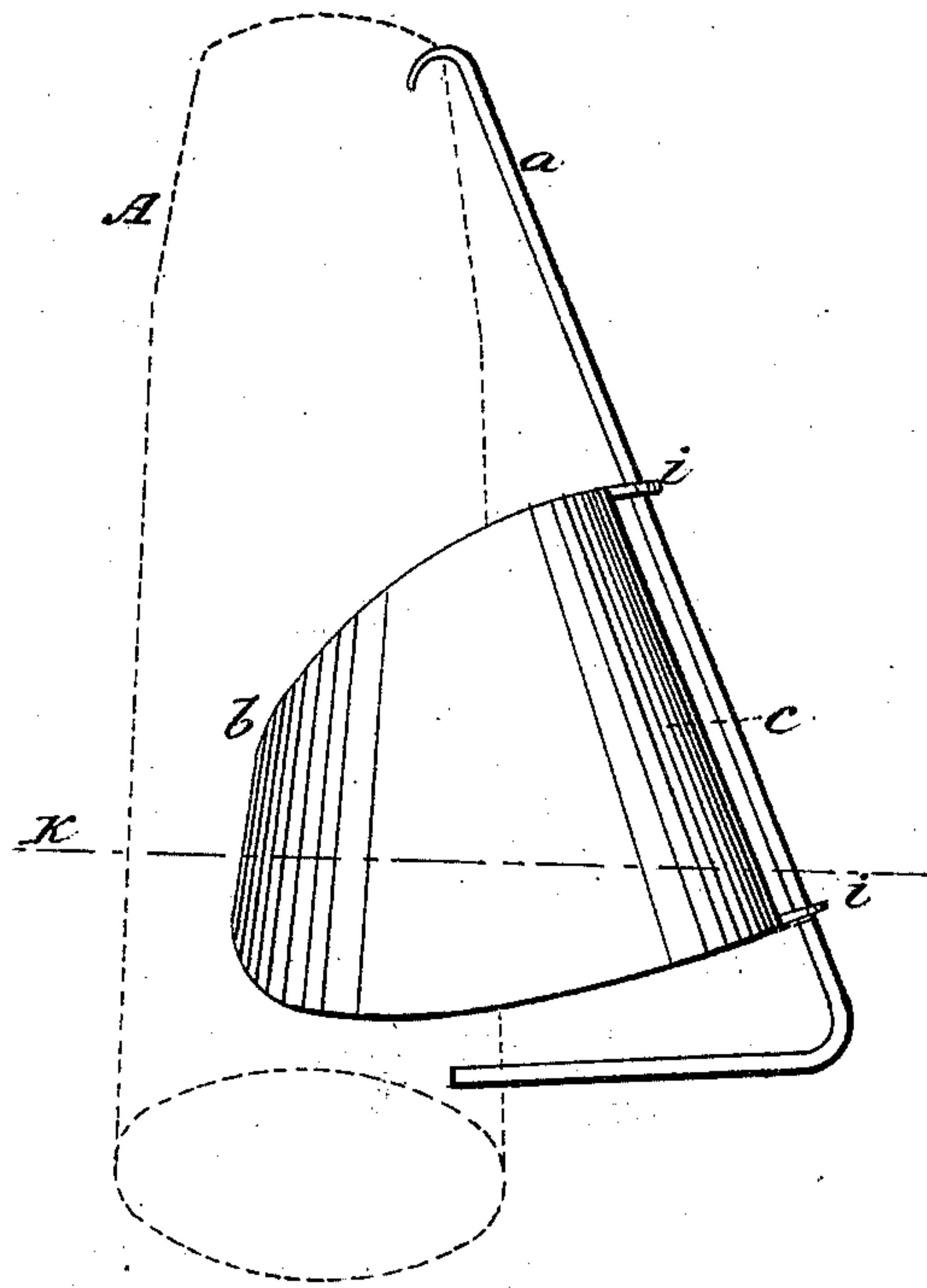


E. K. HAYNES.

Lamp Shade.

No. 97,294.

Patented Nov. 30, 1869.



WITNESSES:
J. C. Brown
H. J. Hammond

INVENTOR:
E. K. Haynes

United States Patent Office.

E. K. HAYNES, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 97,294, dated November 30, 1869.

IMPROVEMENT IN LAMP-SHADES.

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, E. K. HAYNES, of Boston, in the county of Suffolk, State of Massachusetts, have invented a new and improved Lamp-Shade; and do hereby declare that the following, taken in connection with the drawings, which accompany and form part of this specification, is a description of my invention, sufficient to enable those skilled in the art to practise it.

My invention relates to a lamp-shade and reflector combined, and not to obstruct the light from the side opposite to the shade.

United States Letters Patent, No. 71,168, were granted to me, November 19, 1867, on a lamp-shade supported upon a frame of wires, and capable of adjustment thereon by sliding, this wire frame being fixed to a ring made to fit upon the cap or burner of the lamp.

United States Letters Patent, No. 78,084, were granted to me, May 19, 1868, on a support for a lamp-shade from the top of the chimney, and adjustable thereon.

My present invention relates to the forming of a lamp-shade, of tin or other suitable material, so that the ends of the shade shall bend around and stand in such a position as to reflect the light down and under the shade in front, and not pass around the chimney to obstruct the light on the opposite side, and supported and adjustable, as in the other patents referred to.

The drawings represent a shade embodying my invention—

A showing a side view,
B, a horizontal section through the line K in the view marked A.

C is a perpendicular section through the side of the shade and reflector, on the line N, in the figure marked B, showing the position that the ends stand in in relation to the front part of the shade.

D is the form of a blank preferable before bending.
a is a side view of the support. The dotted lines represent a chimney.

b, in each figure, represents the ends or reflectors.
c is the front or shade part.

i represents the ears to be punched for the wires to pass through for supports.

The shade is kept in position, or from sliding down, by the spring of the frame *a*.

By having a shade constructed in this manner, we have a shade and reflector combined, *c* forming the shade, and *b* the reflectors, throwing the light down and under *c*, and the room lighted by the light not being obstructed on the opposite side, but reflected out from the inside of *c*, and adjustable on the wires *a*, to any height lamp or table.

I claim a lamp-shade and reflector, made in the form and manner described, for the purpose specified.

E. K. HAYNES.

Witnesses:

D. F. CRANE,
W. F. HAMMOND.