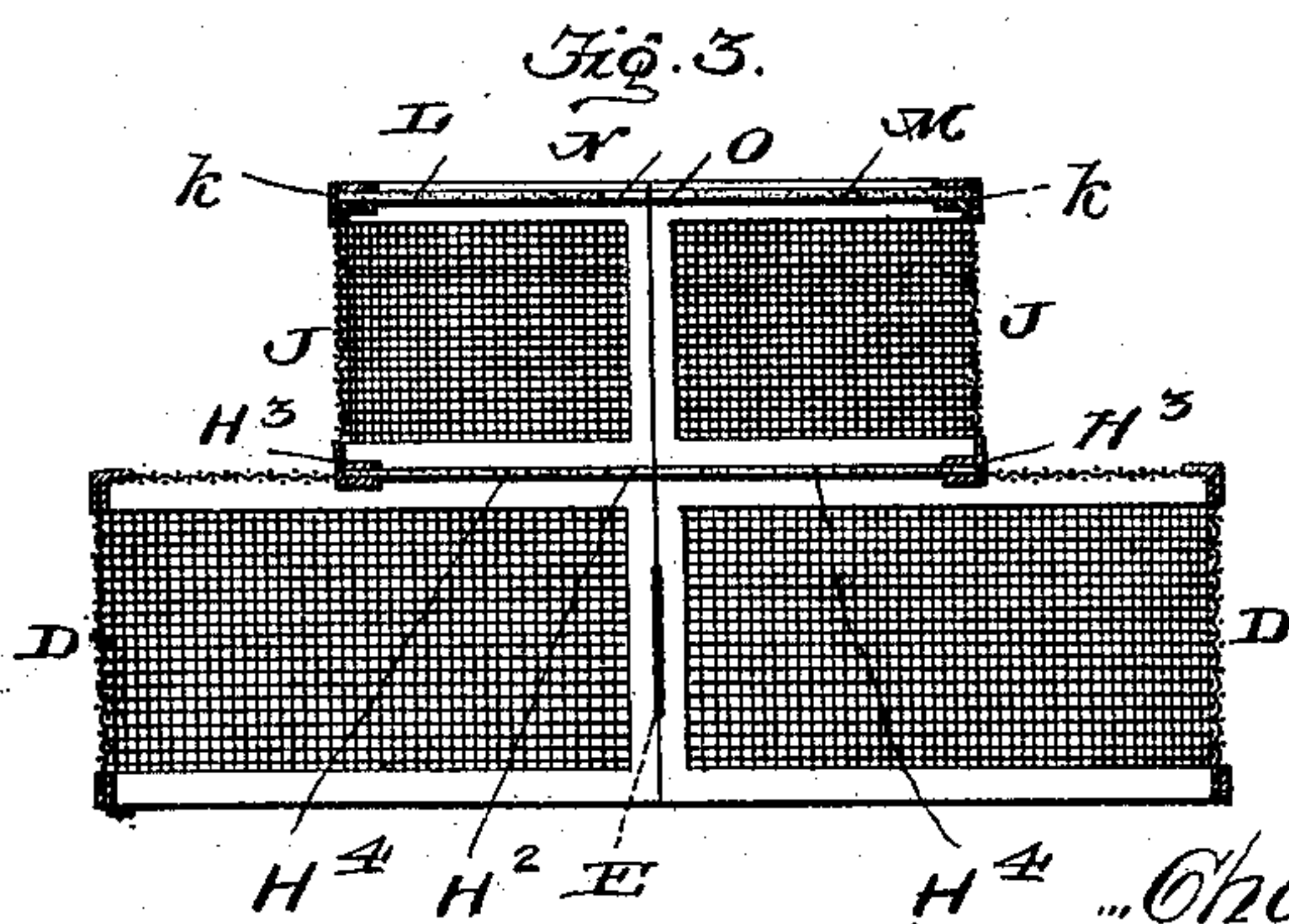
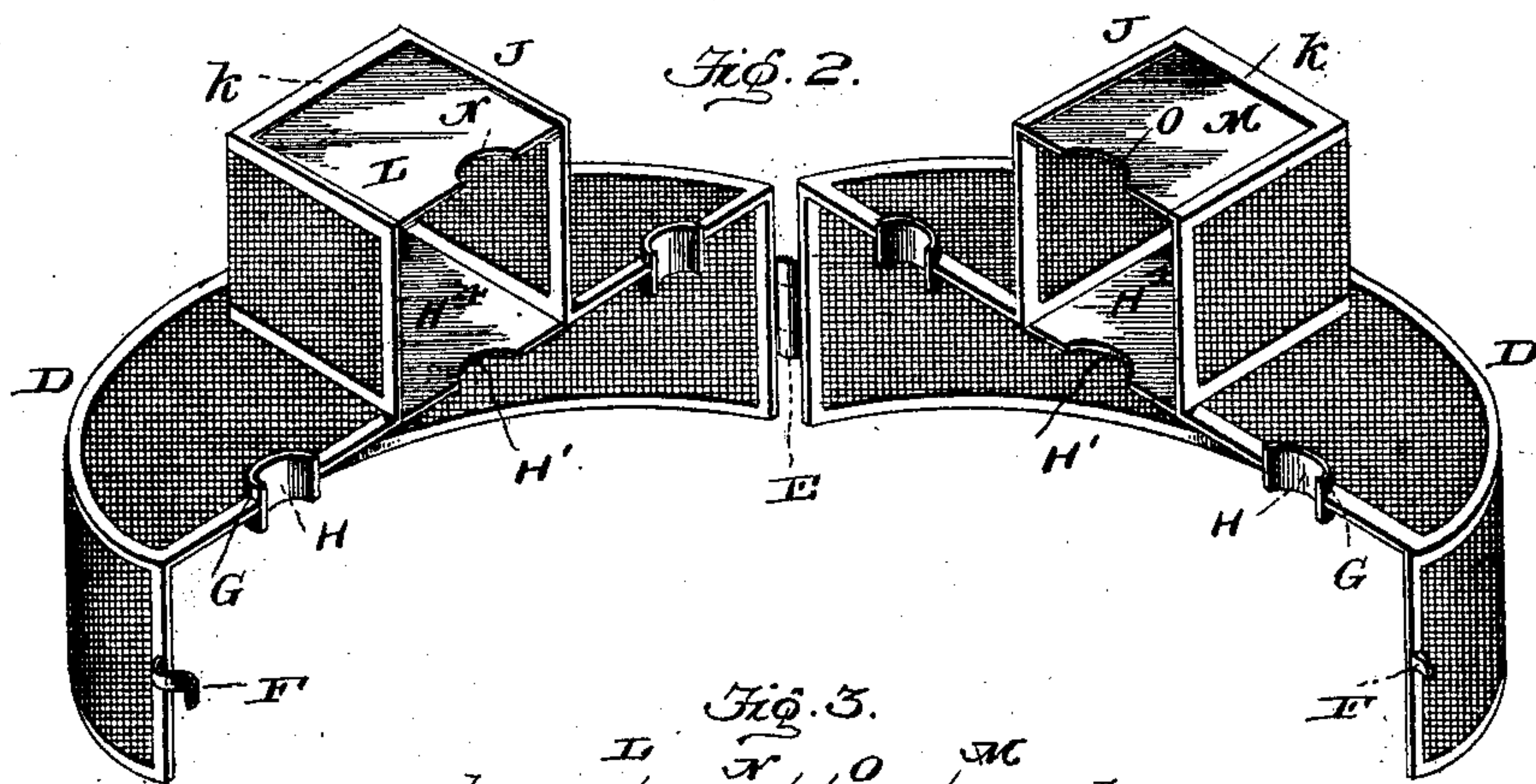
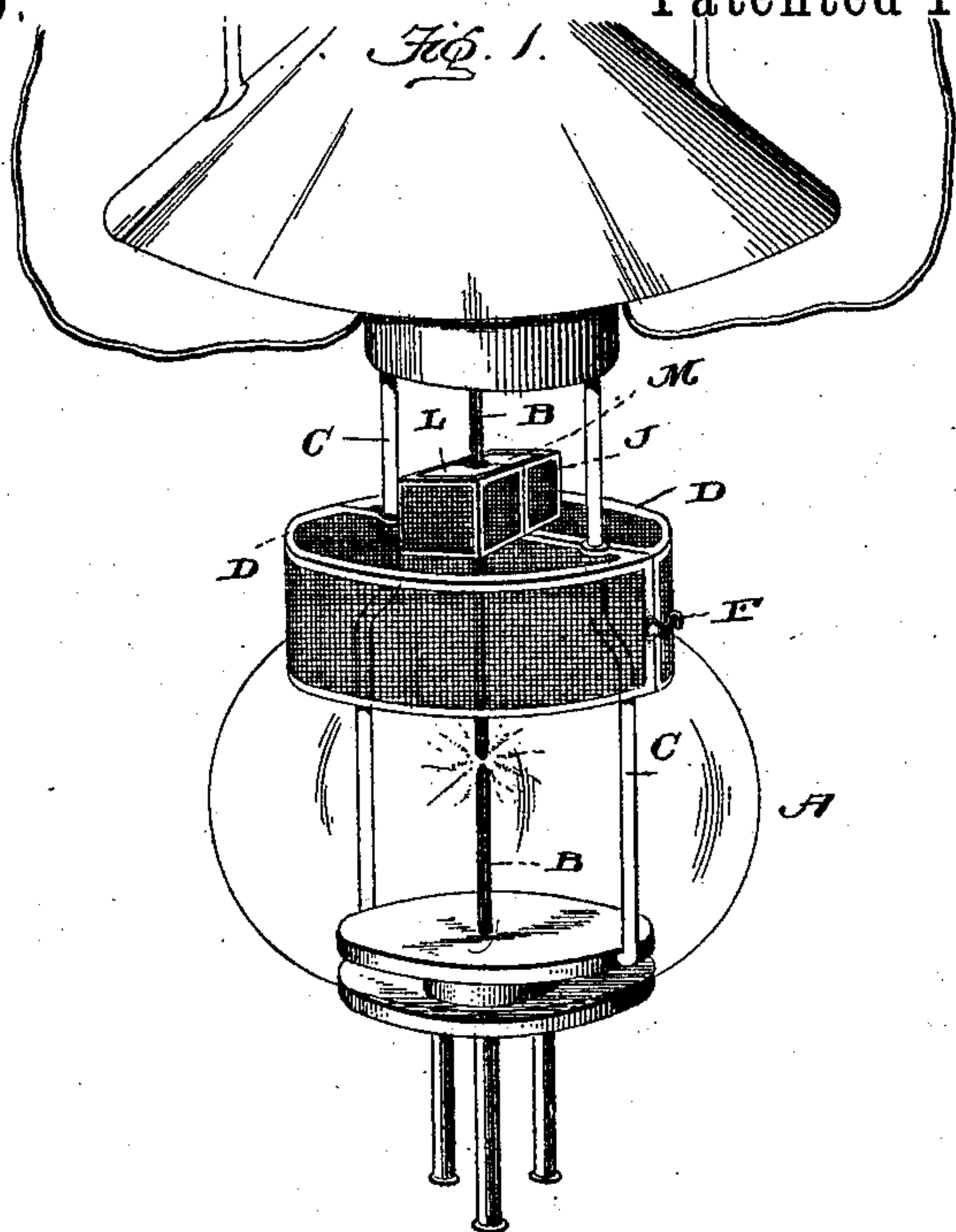


(No Model.)

C. WINSTON.
SPARK ARRESTER FOR ARC LAMPS.

No. 555,199.

Patented Feb. 25, 1896.



Witnesses—

Wm. C. Oakley
May E. Moore

Charley Winston.
Inventor—

BY *Wm. J. Moore*
Att'y

UNITED STATES PATENT OFFICE.

CHARLEY WINSTON, OF MEMPHIS, TENNESSEE, ASSIGNOR OF ONE-HALF TO
E. F. NAEGELE, OF SAME PLACE.

SPARK-ARRESTER FOR ARC LAMPS.

SPECIFICATION forming part of Letters Patent No. 555,199, dated February 25, 1896.

Application filed February 28, 1895. Serial No. 539,983. (No model.)

To all whom it may concern:

Be it known that I, CHARLEY WINSTON, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented certain new and useful Improvements in Spark-Arresters for Arc Lamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in spark-arresters for electric-arc lamps, the object being the provision of a simple and inexpensive device which can be easily and readily applied, and which will arrest sparks from the carbon as well as exclude insects or dirt therefrom, and which will be thoroughly practical.

To attain the desired objects the invention consists of a spark-arrester embodying novel features of construction and combination of parts substantially as disclosed herein.

Figure 1 represents a perspective view of my device applied to an arc lamp. Fig. 2 represents a perspective view of the device detached, and Fig. 3 represents a central sectional view.

In the drawings, A designates the globe of the lamp, B designates the carbons, and C designates the hanger or frame, all of which parts are of well-known and of common construction, and in connection with which I employ my device.

My invention consists of a casing or cap adapted to rest upon the globe and composed of the sections D, hinged together at E and having a suitable catch or detent F for holding them in closed position. These sections are made of wire-gauze or reticulated material and are provided with the openings G, lined with rubber or suitable insulating material H, and through which passes the frame or hanger, and the main sections are each provided with recesses H', forming when closed the rectangular opening H², which is provided with the cleats H³, in which fit the mica doors or strips H⁴. The sections are further provided with the rectangular boxes or casings J, having at their edges the transverse cleats k, in which fit the mica or trans-

parent doors or strips L and M, provided with the openings N and O, through which passes the carbon. From this construction it will be seen that the recesses of the main section form a rectangular opening in line with the rectangular boxes, and that the mica strips of the main sections and rectangular boxes bear upon the carbons and form a shield, and entirely prevent the escape of sparks and also exclude dirt and insects.

I have shown the device as of circular form; but I would have it understood that it may be made of any desired shape without departing from the spirit of my invention.

It is evident that I provide a device which can be easily and quickly applied and which is thoroughly efficient and practical.

It will be seen that I provide a spark-arrester which rests evenly upon the top of the lamp-globe, and that the arms of the hanger pass through the rubber or insulating linings, and that the upper carbon passes through the openings of the mica doors or strips which are secured in the cleats of the rectangular boxes and main sections, and the carbons are thus protected as the strips bear closely against them, and also by the use of the rectangular boxes I provide a further guard against the entrance of foreign matter to the globe and also prevent escape of sparks, and this is the object of the supplemental angular boxes or sections, and they are of vital importance, as insects, dirt, or sparks may pass into the supplemental sections, but are entirely prevented from escaping therefrom.

I claim—

1. A spark-arrester consisting of two hinged semicylindrical-shaped sections, angular boxes or supplemental sections arranged on the top of the semicylindrical main sections, and resilient doors or strips arranged in the main and supplemental sections and having their outer edges rigidly secured and their inner edges free and adapted to bear upon the carbon and form a double guard to prevent the escape of sparks and exclude insects or foreign matter.

2. A spark-arrester consisting of two semicylindrical main sections hinged together, said sections having aligning rectangular recesses on their inner edge at the center thereof

and having small curved recesses on each side
of the rectangular recesses, linings of insu-
lating material placed in the curved recesses,
rectangular boxes aligning with the rectan-
5 gular recesses of the main sections, cleats se-
cured in the rectangular boxes and main sec-
tions and strips or doors having their outer
edges secured in the cleats and their inner

edges engaging the carbon and forming a
double guard. 10

In testimony whereof I affix my signature
in presence of two witnesses.

CHARLEY WINSTON.

Witnesses:

R. C. EHRLICH,
HENRY C. WALTZ.