

(No Model.)

O. T. BLATHY.  
ELECTRIC FUSE.

No. 480,802.

Patented Aug. 16, 1892.

Fig. 1.

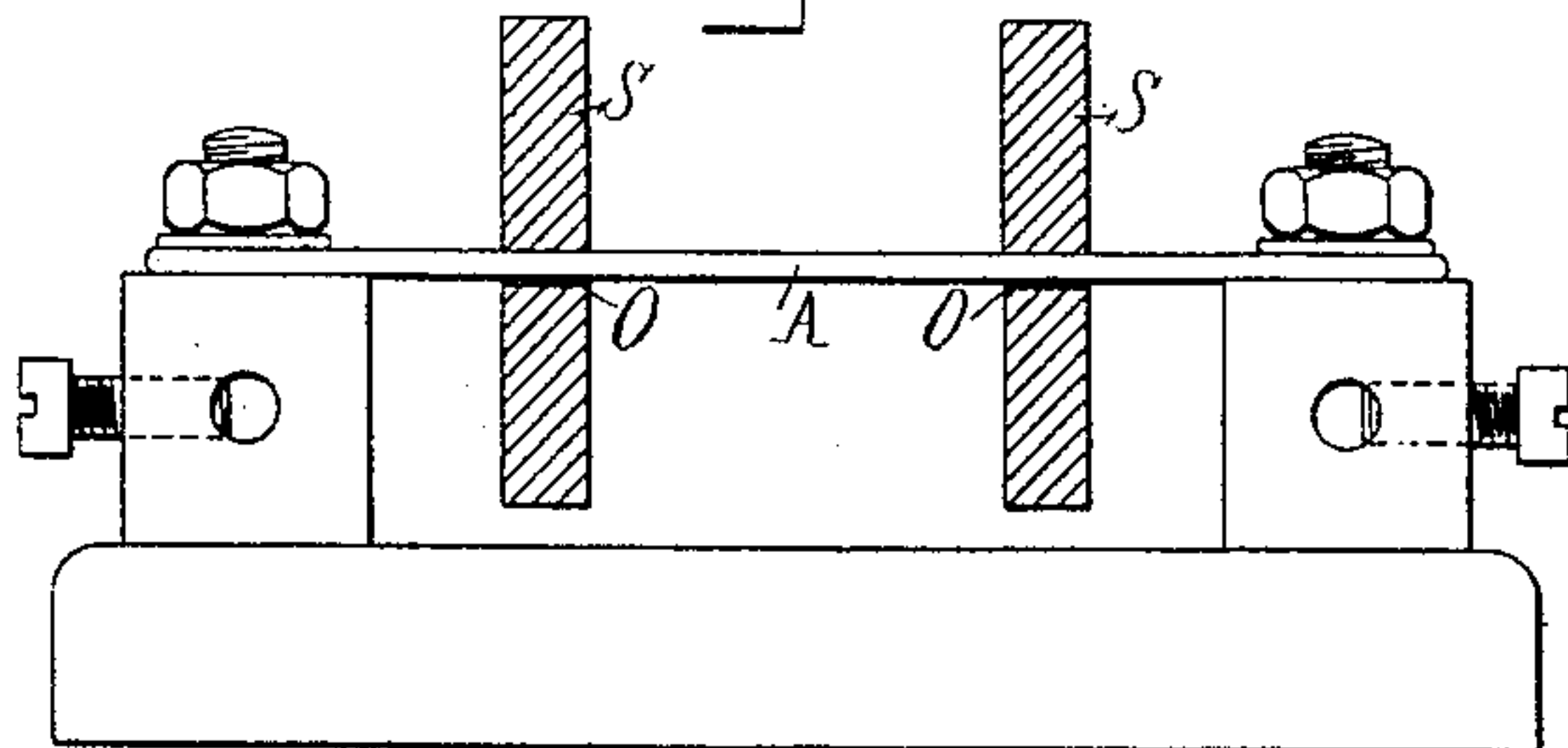


Fig. 3.

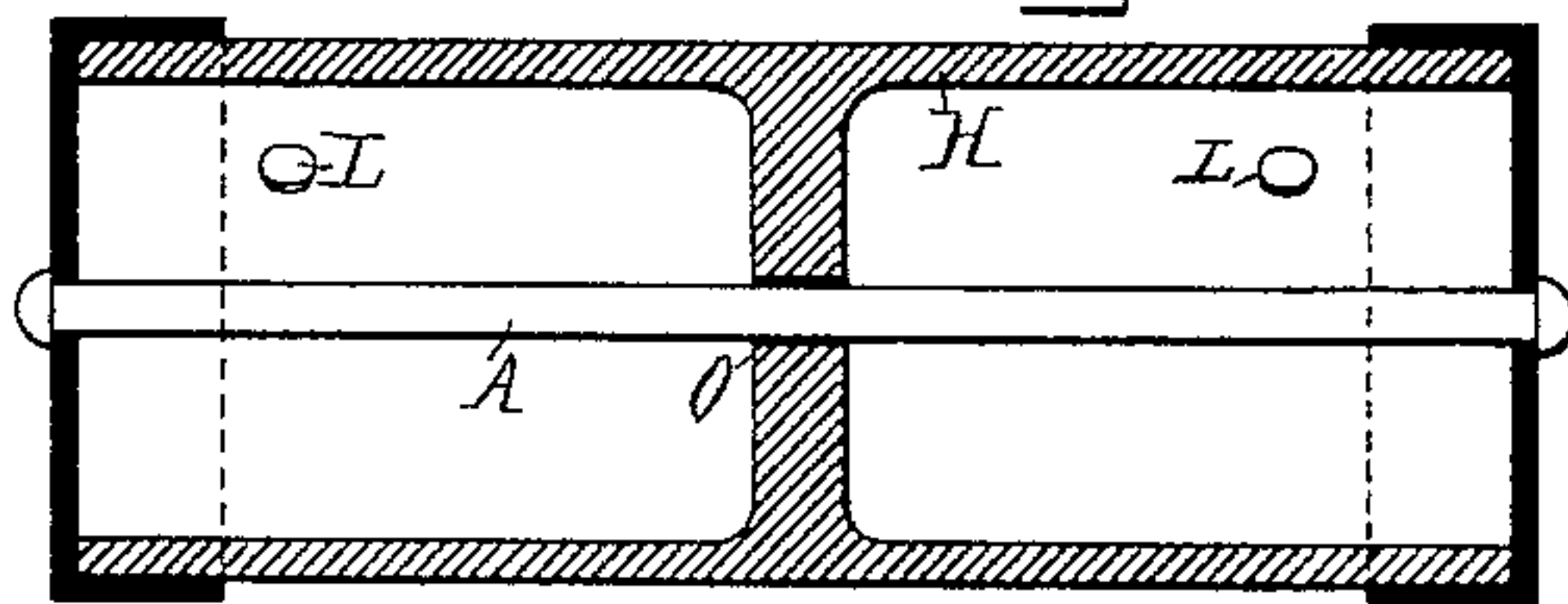


Fig. 4.

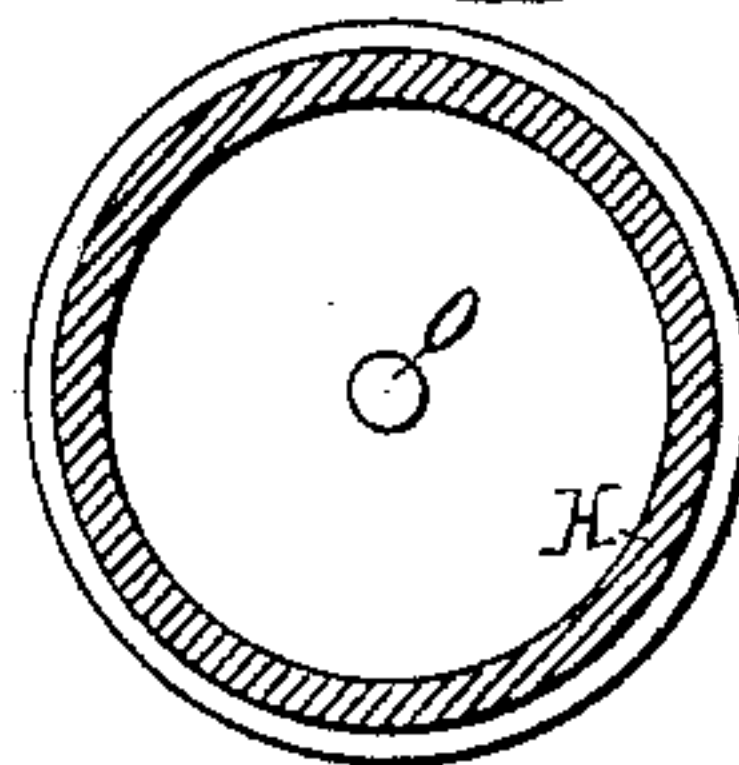


Fig. 2.

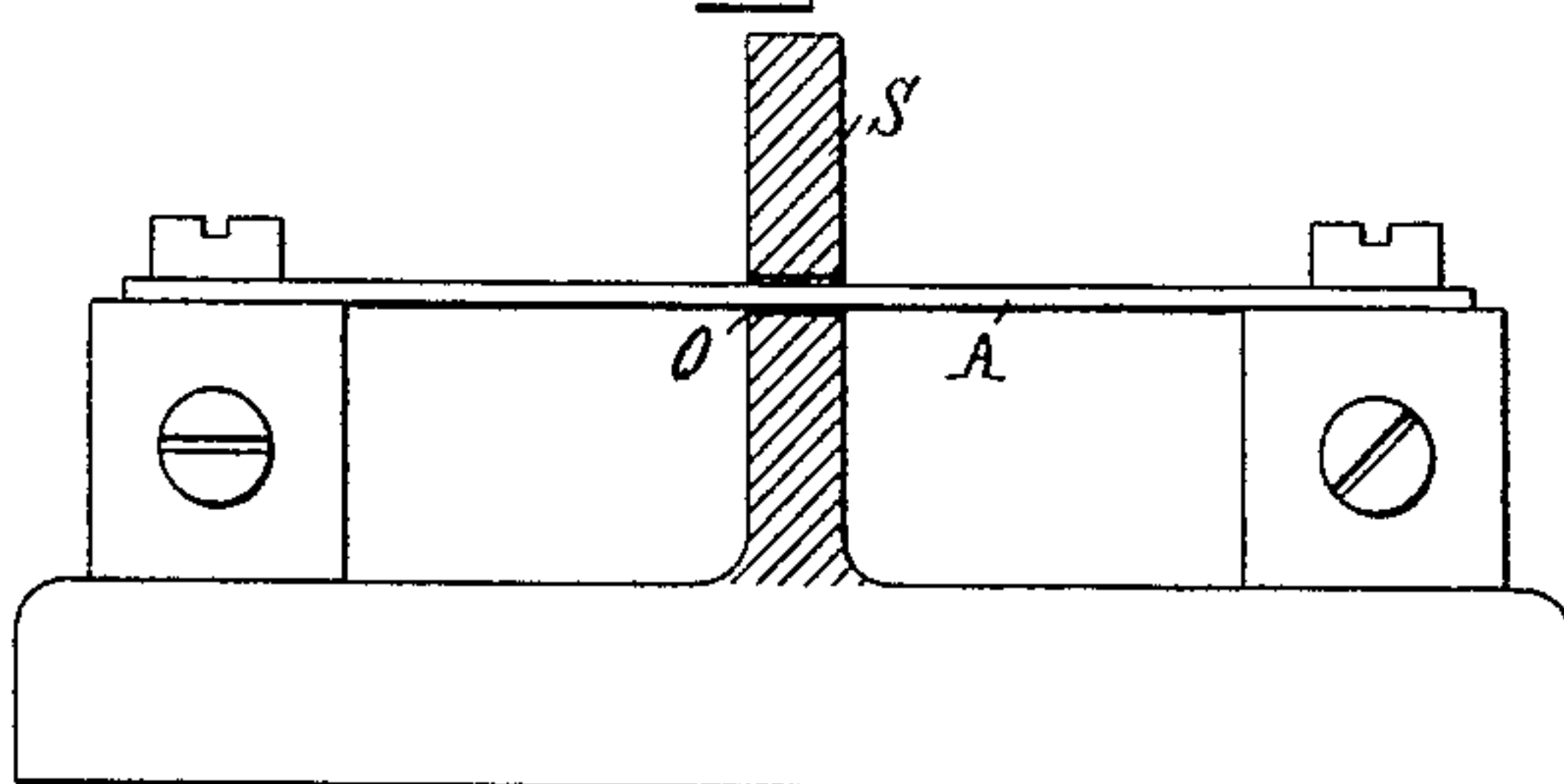
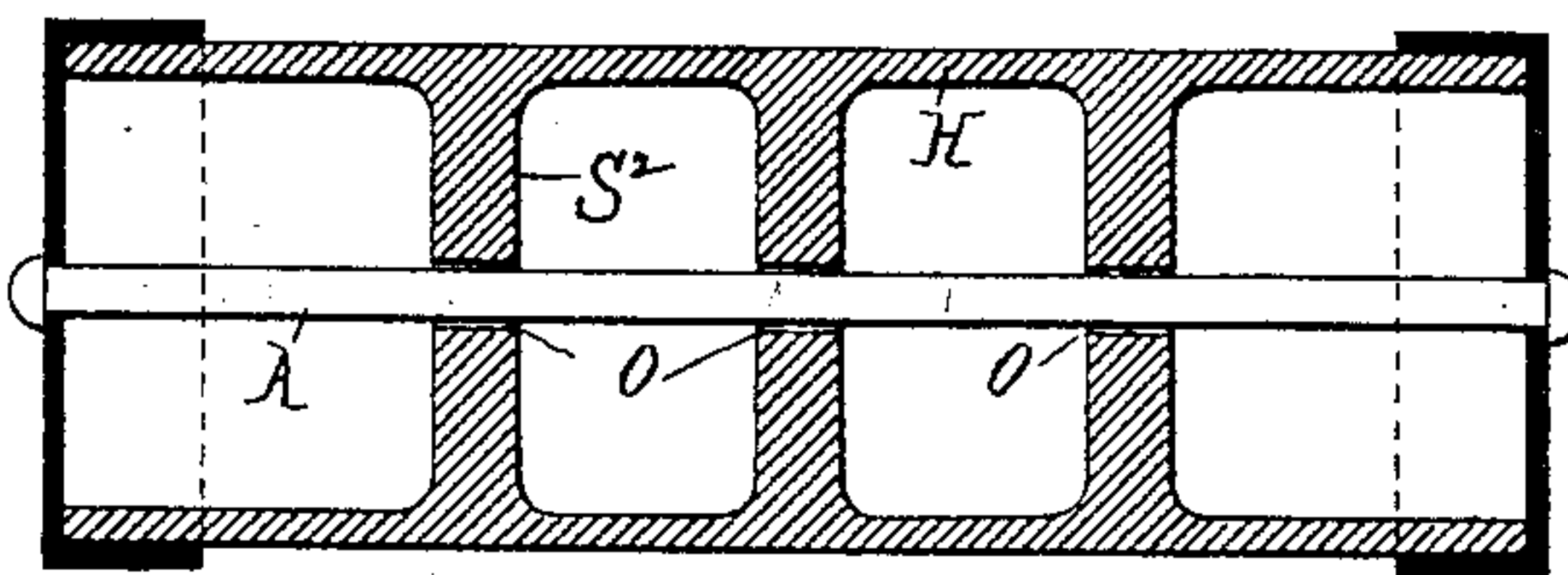


Fig. 5.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

OTTO TITUS BLÁTHY, OF BUDA-PESTH, AUSTRIA-HUNGARY.

## ELECTRIC FUSE.

SPECIFICATION forming part of Letters Patent No. 480,802, dated August 16, 1892.

Application filed May 8, 1890. Serial No. 351,064. (No model.)

*To all whom it may concern:*

Be it known that I, OTTO TITUS BLÁTHY, a subject of the King of Hungary, residing at Buda-Pesth, Austria-Hungary, have invented certain new and useful Improvements in Electric Safety-Fuses for High-Tension Electric Currents, of which the following is a specification.

Safety-fuses as heretofore constructed, when used with high-tension electric currents, and when ruptured or melted by an excess of current passing through them, allow the formation of an electric arc between the remaining ends of the fuse or of the contact-piece to which the fuses are attached, so that the action of such fuses can never be depended upon to effect the interruption of the circuit, and, on the other hand, frequently cause considerable damage by the arc that is formed and, moreover, are the cause of fire.

The object of my invention is a safety-fuse which, while capable of being ruptured in the same manner as an ordinary fuse, will prevent with absolute certainty the formation of an arc, and which is cheap, simple, and easily applied in any locality where such fuses may be required.

In the accompanying drawings, which illustrate my invention, similar letters of reference indicate like parts.

Figure 1 is a view in elevation of a fuse-block and shows a fusible wire connected to the two terminals of the fuse-block and threaded on the wire, shown in section, are two disks of insulating material. Fig. 2 is an elevation of a fuse-block, with a partition-wall projecting from the center, shown in section, and threaded by a fusible wire connected to the two terminals of the fuse-block. Figs. 3 and 4 are respectively a longitudinal and transverse section of a cylindrical fuse-casing and fuse. Fig. 5 is a longitudinal section of a similar construction, showing the cylinder divided into three or four compartments.

In the drawings, A represents a wire of fusible material connected to the usual binding posts or contacts on the ends of the fuse-block.

S in Fig. 1 indicates disks of insulating material provided with openings O, which are

of such a size as to permit the disks to be threaded upon the fusible wire A, but not to leave any space between the wire and the disks.

In Fig. 2, S' indicates a partition made of insulating material, the same as the base of the fuse-block, located midway between the terminals of the fuse-block and having an opening O therein of the required size, through which the fusible wire A is threaded.

In Figs. 4, 5, and 6, H represents a cylindrical casing of insulating material provided with one or more partitions S<sup>2</sup>, in which are openings O, through which the fuse-wire A is threaded.

L L are air-holes.

With the fuse constructed as shown in any of the figures an arc is prevented from forming between the severed ends of the fuse-wire or the terminals, as the arc cannot be formed through the small openings either in the disks or in the partitions.

I wish it understood that I do not limit myself to the precise construction shown in the figures or described in the specification, as many changes may be made therein without departing from the intent of my invention.

What I claim to be my invention is—

1. The combination, with the fusible wire of a safety-fuse, of one or more movable disks threading said wire, the openings in said disks being approximately of the size of the wire.

2. In a safety-fuse, in combination with the supporting-block of a fusible wire and one or more movable disks threading said fusible wire, the openings in said disks being approximately of the size of the wire.

3. In a safety-fuse, the combination, with a cylindrical casing therefor, of one or more partitions located within said casing and provided with a circular opening or openings approximately of the size of the fuse-wire and a fusible wire passing through or threading said opening in said partition or partitions.

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

OTTO TITUS BLÁTHY.

Witnesses:

CLARENCE FELDMANN,  
LEOPOLD NEUSTADT.