

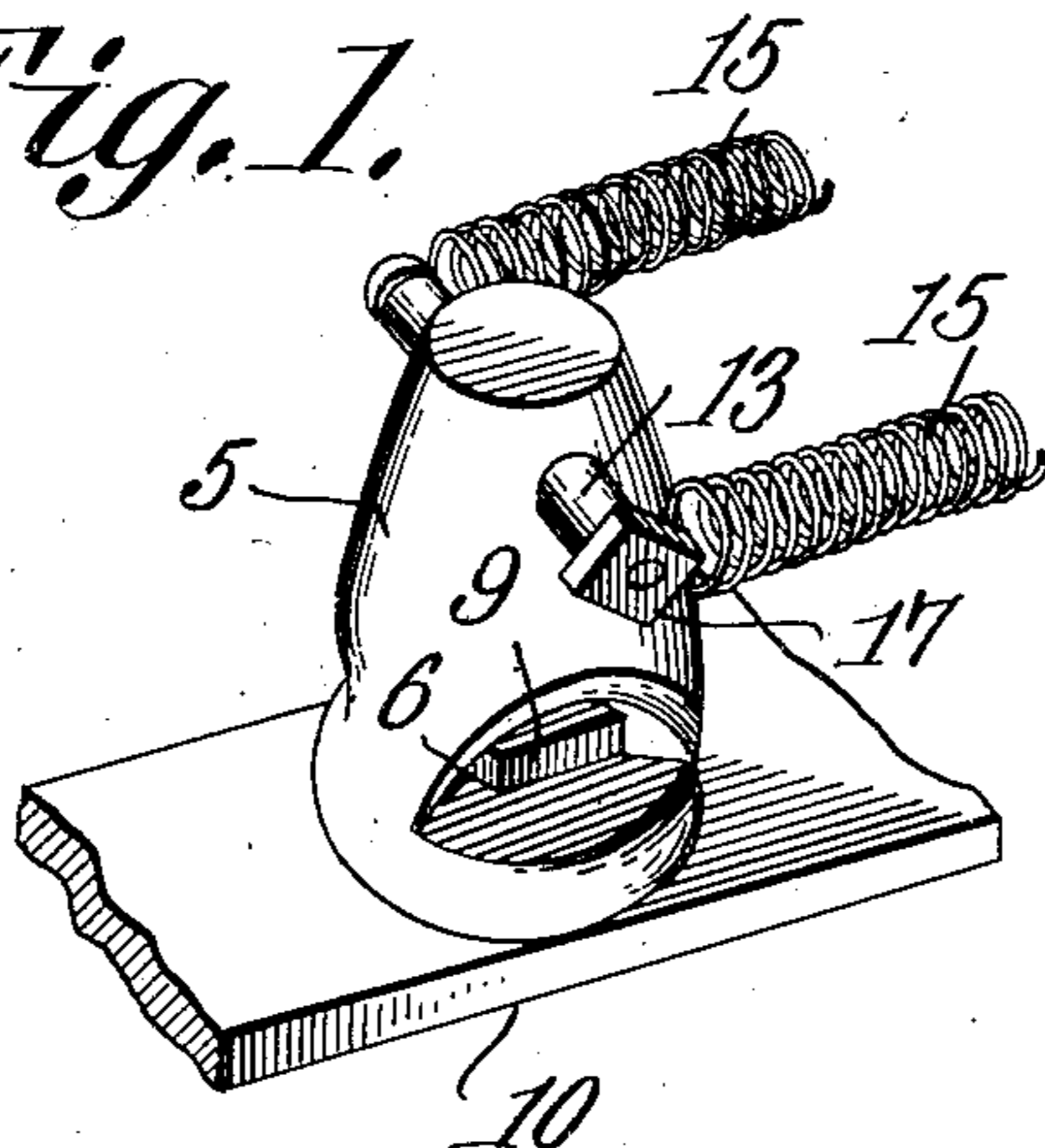
No. 862,758.

PATENTED AUG. 6, 1907.

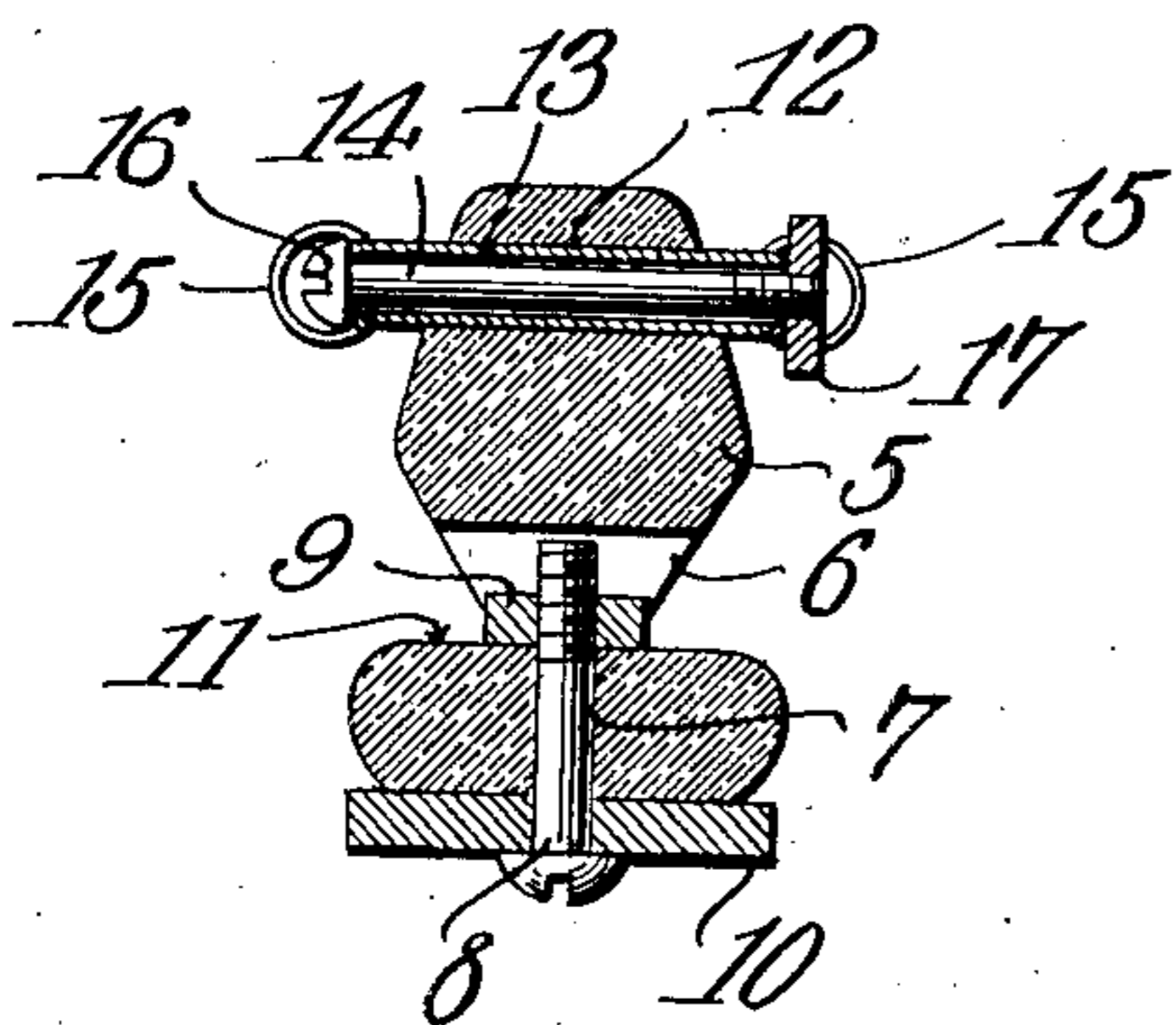
A. A. PRATT.  
INSULATOR.

APPLICATION FILED OCT. 25, 1906.

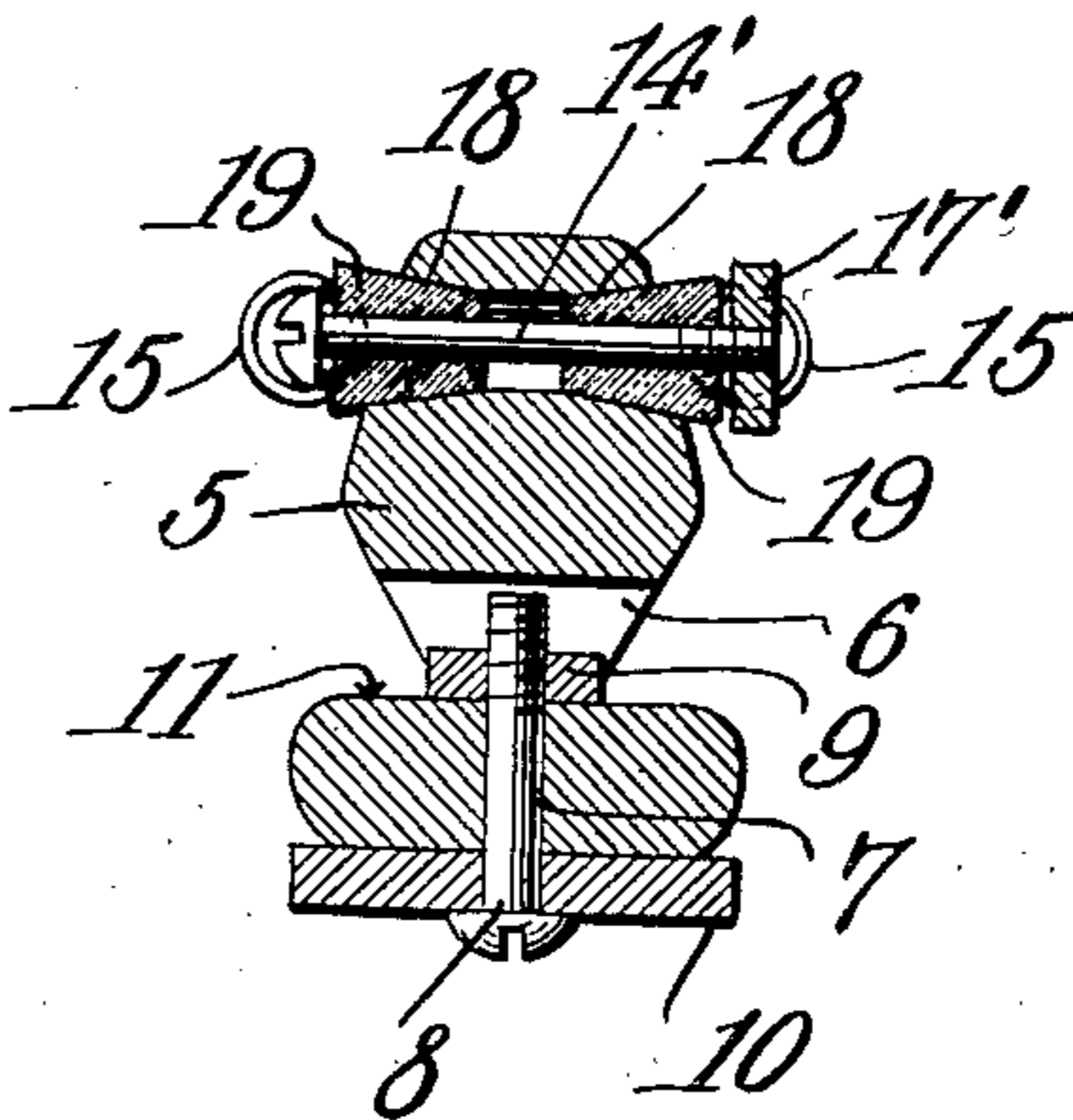
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

AUSTIN A. PRATT, OF LOS ANGELES, CALIFORNIA.

## INSULATOR.

No. 862,758.

Specification of Letters Patent.

Patented Aug. 6, 1907.

Application filed October 25, 1906. Serial No. 340,556.

*To all whom it may concern,*

Be it known that I, AUSTIN A. PRATT, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Insulator, of which the following is a specification:

This invention relates to insulators or supports for electric conductors and has for its object to provide a comparatively simple and inexpensive device of this character especially designed for supporting the resistance coils of rheostats, electric-heaters and other electrical devices.

A further object of the invention is to provide an insulator having a transversely disposed tube or sleeve for the reception of a securing bolt, the latter being adapted to clamp the adjacent ends of the resistance coils and support the same in spaced relation to each other.

A further object is to provide improved means for clamping the insulator to the rheostat, electric-heater or other suitable support.

A still further object of the invention is to generally improve this class of devices so as to increase their utility, durability and efficiency as well as to reduce the cost of manufacture.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings forming a part of this specification: Figure 1 is a perspective view of an insulator constructed in accordance with my invention. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a similar view illustrating a modified form of the invention.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The insulator consists of a substantially conical shaped body portion 5 formed of porcelain, glass or other insulating material and provided with a transverse recess 6 intersected by a longitudinal opening 7.

Extending through the opening 7 is a bolt 8 the threaded end of which engages a suitable clamping nut 9 for securing the insulator in position on a rheostat, electric-heater or other suitable support, indicated at 10.

The side walls of the insulator at the recess 6 are inclined or beveled towards the base of the insulator thereby to permit the ready introduction and removal

of the clamping nut 9, the lower wall of the recess 6 being disposed parallel with the base of the insulator thereby to form a flat bearing surface 11 for engagement with the clamping nut.

The head of the insulator is provided with a transverse bore 12 in which is seated a metal sleeve or tube 13 and extending through said tube is a clamping pin 14 adapted to support the resistance coils 15 in position on the insulator. One end of the pin 14 is provided with an enlarged end 16 adapted to bear against the terminal of the adjacent coil 15 while the opposite end of the pin is threaded for engagement with a clamping nut 17 which bears against the terminal of the opposite resistance coil, as shown thus clamping the terminals of the coils in engagement with the sleeve or tube 13.

Attention is called to the fact that the pin 14 not only serves as a means for clamping the resistance coils in position on the insulator but also serves to electrically connect said coils so as to permit the current to flow from one coil to another.

In Fig. 3 of the drawings there is illustrated a modified form of the invention in which the body of the insulator is formed of metal and provided with conical shaped openings 18 for engagement with the exterior walls of correspondingly shaped tube or bushings 19, the latter being preferably formed of porcelain or other suitable insulating material. In this form of the device the tube 13 is dispensed with, the pin 14' being extended through the bushings 19 and clamped in engagement with the adjacent ends of said bushings and the resistance coils by means of the nut 17'.

It will of course be understood that the insulators may be made in different sizes and shapes and supported in either a vertical or horizontal position according to the use for which they are intended.

From the foregoing description it will be seen that there is provided an extremely simple, inexpensive and efficient device admirably adapted for the attainment of the ends in view.

Having thus described the invention what is claimed is:

1. An insulator comprising a body portion having a transverse recess formed therein and provided with a vertical opening communicating with said recess, a threaded bolt extended through said opening, a nut seated in the recess and engaging the threads on the bolt, and means carried by the insulator for supporting a resistance coil.

2. An insulator comprising a body portion, a tube extending transversely through the body portion, a pin seated within the tube, and resistance coils having their terminals interposed between the opposite ends of the pin and the tube.

3. An insulator comprising a body portion provided

with a transverse bore, a tube seated in said bore, a threaded pin extended through the tube, resistance coils supported by the pin, and a nut engaging the threaded end of the pin for clamping the resistance coils in engagement with the adjacent ends of the tube.

4. An insulator comprising a body portion having a transverse recess formed therein and provided with a vertical opening communicating with said recess, the side walls of the insulator at the transverse recess being inclined towards the base of the insulator, means carried by

the insulator for supporting a resistance coil, a bolt extending within the opening, and a nut seated in the recess and engaging the threads on the bolt.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

AUSTIN A. PRATT.

Witnesses:

WALTER J. LUNDY,  
L. H. VALENTINE.