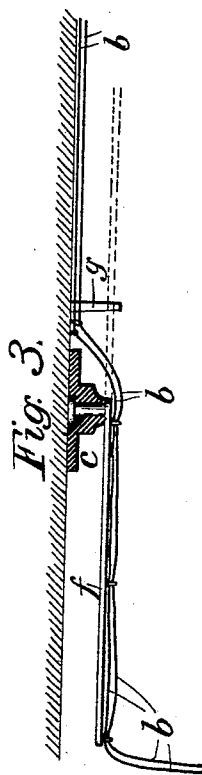
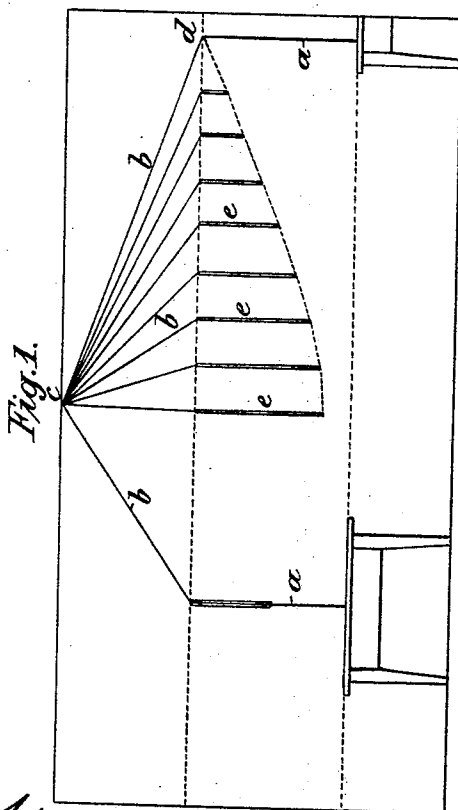
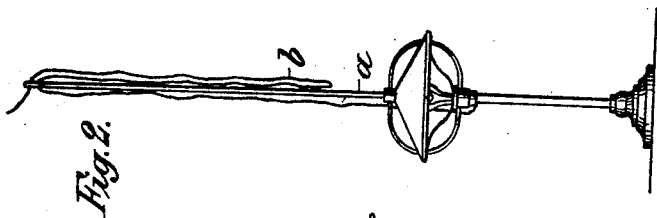


(No Model.)

J. CATHREIN.
STAND FOR ELECTRIC LAMPS.

No. 499,908.

Patented June 20, 1893.



WITNESSES:

J. Chalmers Wilson.
Rey C. Bowen

INVENTOR:

Josef Cathrein.

By *Whitman & Wilkinson*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEF CATHREIN, OF INNSPRUCK, AUSTRIA-HUNGARY.

STAND FOR ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 499,908, dated June 20, 1893.

Application filed February 15, 1893. Serial No. 462,400. (No model.) Patented in Belgium December 2, 1892, No. 102,472, and in Italy December 31, 1892, No. 33,109.

To all whom it may concern:

Be it known that I, JOSEF CATHREIN, a subject of the Emperor of Austria-Hungary, and a resident of the city of Innsbruck, Austria-Hungary, have invented certain new and useful Improvements in and Relating to Stands for Incandescent Electric Lamps, (for which I have obtained a patent in Belgium, No. 102,472, dated December 2, 1892, and a patent in Italy, No. 33,109, dated December 31, 1892,) of which the following is a specification.

This invention relates to stands for incandescent electric lamps and has for its object to render such lamps portable for use in rooms, so that, without liability to entanglement of the flexible lead, they may be carried from one place to another in the room.

In the accompanying drawings Figure 1 is a diagram of the arrangement of the stand in the room. Fig. 2 shows a lamp of the usual form provided with the improved lead carrier *a*, and lead *b*. Fig. 3 shows an arm *f* to be used in combination therewith. Fig. 4 shows a spirally wound lead *b* which is attached to the ceiling.

A lead carrier *a* provided on the lamp frame is made of such a length, that together with the height of this frame and the table or the like upon which the stand may be put, it extends beyond the ordinary height of a man, which corresponds to a total height of about two meters; for instance taking the height of the table to be 0.80 meters and the lamp frame to be 0.30 meters, its height will be about one meter. One end of the flexible lead *b* is connected with the main conductor at a point *c* situated in the middle of the ceiling. The lead *b* has such a length that when stretched it will reach to a point which is at the greatest distance from the point of attachment in the middle of the ceiling. If the lamp is moved nearer to this point of attachment *c* the lead becomes shorter by this length and hangs down from the top of the carrier as shown at *e e* Fig. 1.

For guiding the flexible lead use may be

made of an arm *f* Fig. 3 extending from the middle of the ceiling and adapted to turn in the plate *c* secured in the ceiling so that this arm, which receives the said lead *b* can be adjusted horizontally in all directions. A stop *g* or other equivalent device may be used to prevent the rod *f* from being turned around continuously in the same direction and so twist the wires and injure the insulation thereof. In lieu of the aforesaid arm *f* I may also employ a spiral lead *b* Fig. 4. One end of the spiral lead is attached to the ceiling at *c* and the other end to the stand of the lamp. When the lamp is placed at a distant point the spiral lead is extended, but assumes its spiral form again on the lamp being brought nearer to the point of attachment on the ceiling. The lead for the spiral is of the ordinary flexible kind with a thin steel wire woven in, which has a spiral form.

I claim—

1. In portable stands for incandescent electric lamps for use in rooms, a lead carrier *a* arranged on the lamp frame and the flexible lead *b* of which is connected to the main conductor in the middle *c* of the ceiling, the height of said carrier being such as to raise the flexible conductor above objects in the room, the length of the said lead being such that the lamp can be placed at any desired point in the room, substantially as herein set forth.

2. The combination with a portable stand for electric lamps, of an arm *f* pivoted to the ceiling at or near the center of the room, and a lead extending from said ceiling along said arm and connected to said portable lamp stand, substantially as and for the purposes described.

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

JOSEF CATHREIN.

Witnesses:

A. SCHLESSING,
LUDWIG SOYKA.