

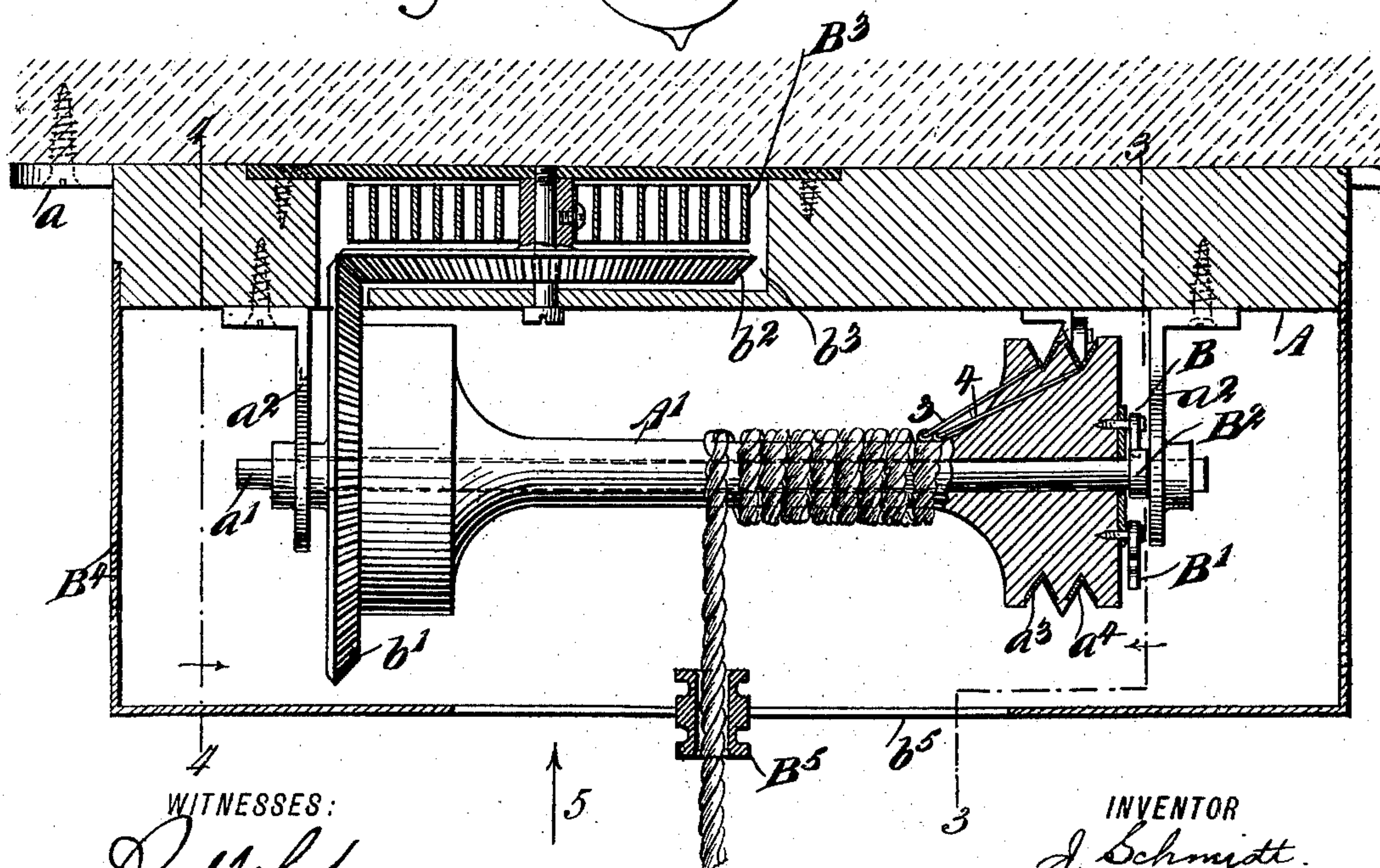
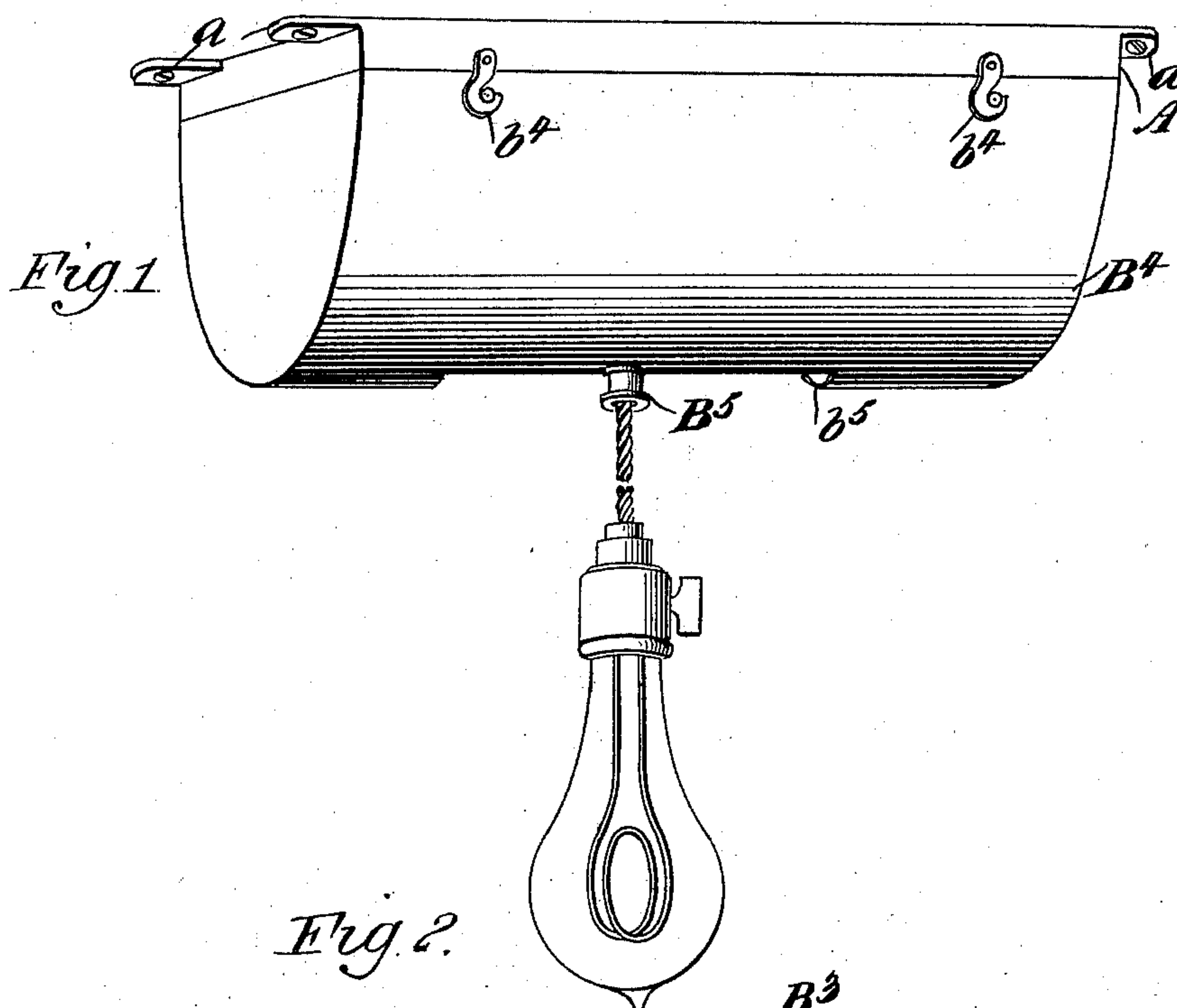
(No Model.)

2 Sheets—Sheet 1.

J. SCHMIDT.  
ELECTRIC LAMP HANGER.

No. 561,443.

Patented June 2, 1896.



WITNESSES:

*Paul J. Schott*  
*C. R. Ferguson*

INVENTOR

*J. Schmidt.*

BY

*Munn*

ATTORNEYS.

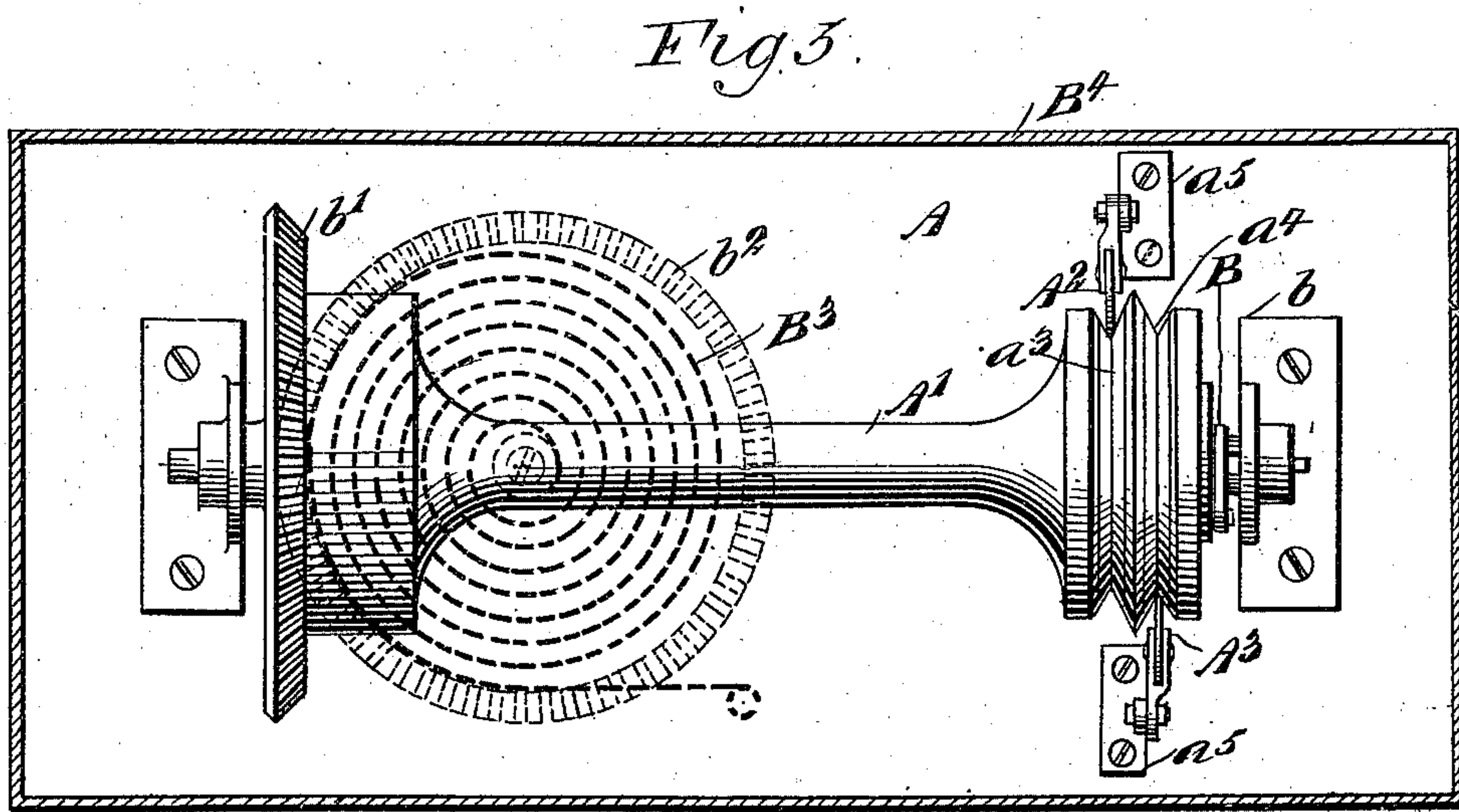
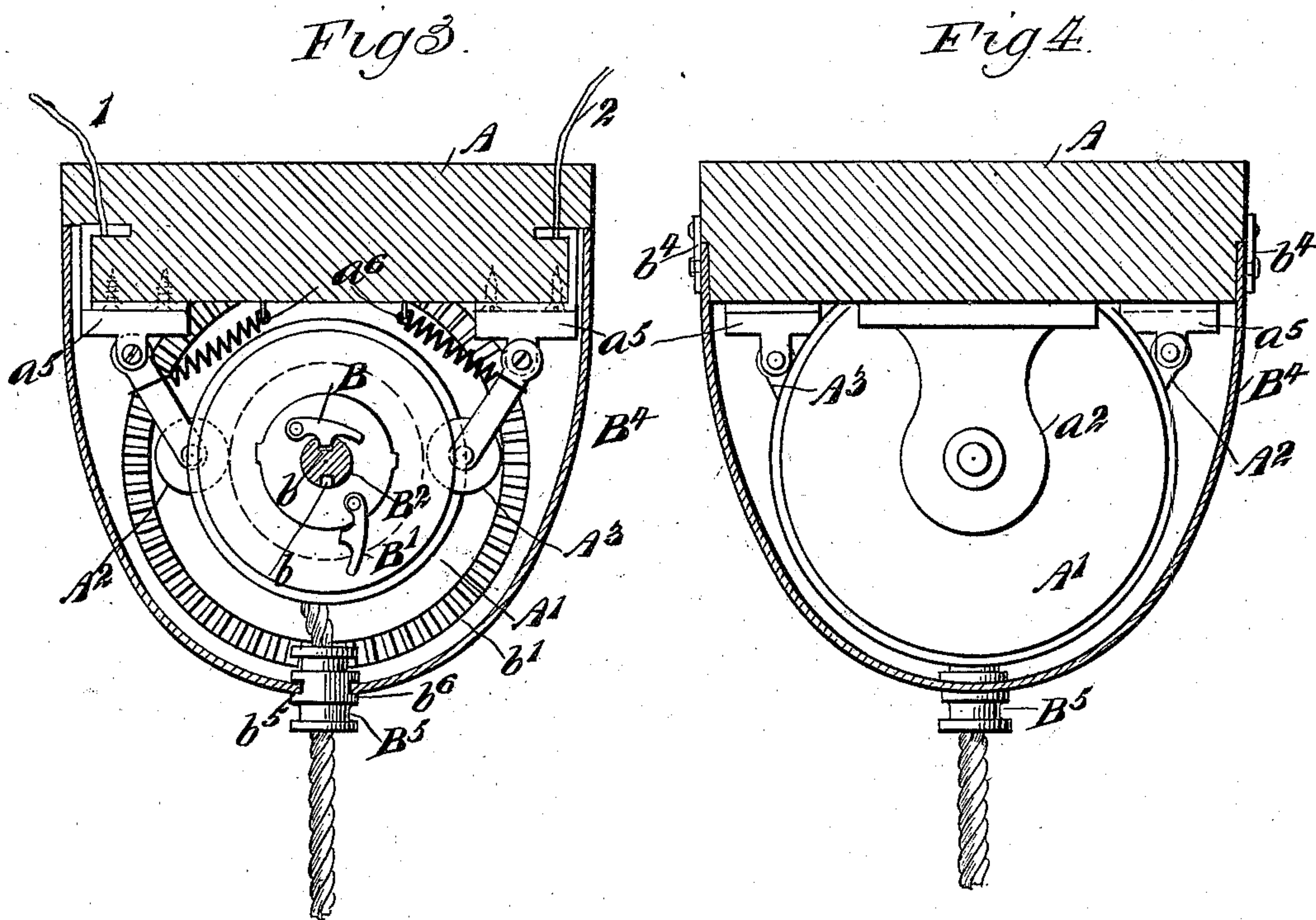
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# UNITED STATES PATENT OFFICE.

JOSEPH SCHMIDT, OF NEW YORK, N. Y.

## ELECTRIC-LAMP HANGER.

SPECIFICATION forming part of Letters Patent No. 561,443, dated June 2, 1896.

Application filed February 11, 1896. Serial No. 578,926. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH SCHMIDT, of New York city, in the county and State of New York, have invented certain new and useful  
5 Improvements in Electric-Lamp Hangers, of which the following is a full, clear, and exact description.

This invention relates more particularly to devices for suspending incandescent electric  
10 lamps; and the object is to provide a simple and comparatively inexpensive device to be attached to a ceiling or other overhead support, by which the length of the suspending circuit-wires may be easily and quickly regulated and in which the working parts are pro-  
15 tected from dust.

I will describe a hanger embodying my invention, and then point out the novel features in the appended claims.

20 Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a lamp-  
25 hanger embodying my invention. Fig. 2 is a longitudinal vertical section thereof. Fig. 3 is a section on the line 3 3 of Fig. 2. Fig. 4 is a section on the line 4 4 of Fig. 2, and Fig. 5 is a partial section and a plan view looking  
30 in the direction of the arrow 5 in Fig. 2.

Referring to the drawings, A designates a base-block, of any suitable insulating material, adapted to be secured to a ceiling or other overhead support. As here shown, the block  
35 is provided at its ends with lugs  $a$ , through which screws are passed into engagement with the overhead support.  $A'$  is a winding-spindle mounted to rotate on a rod  $a'$ , supported in hangers  $a^2$ , depending from the base-block.  
40 This spindle is of insulating material—such, for instance, as wood—and in one of its enlarged ends are provided annular channels, here shown as V-shaped in cross-section, and in which are seated metal contact-bands  $a^3 a^4$ .  
45 Brushes  $A^2 A^3$  engage, respectively, with the contact-bands  $a^3 a^4$ . The brushes are here shown in the form of rollers pivoted in arms having pivotal connection with plates  $a^5$ , secured to the base-block, and with which the  
50 line-wires 1 2 connect. The brushes are held in yielding engagement with the contact-

bands by means of springs  $a^6$ , connected at one end with the brush-arms and at the other end with the base-block. The lamp-wires 3 4 pass through perforations in this enlarged  
55 end of the spindle and are engaged with the respective contact-bands  $a^3 a^4$ , as plainly indicated in the drawings.

Gravity-dogs B B' are pivoted on the end of the spindle and are adapted to engage their  
60 lug portions in a notch  $b$ , formed in the periphery of a collar  $B^2$ , secured to the rod  $a'$ . These dogs serve as stops for the spindle, but will ride out of the notch when the spindle is rotated to wind or unwind the lamp-wires  
65 which pass around the spindle.

On the end of the spindle opposite the brush end is mounted a bevel-gear  $b'$ , meshing with a bevel-gear  $b^2$ , arranged horizontally in a recess  $b^3$ , formed in the base-block A. The  
70 gear-wheel  $b^2$  is mounted to rotate on a shaft extended vertically in the recess  $b^3$ , and to the hub of this gear-wheel  $b^2$  is attached one end of a coil-spring  $B^3$ , the other end of said spring being secured to the block A.  
75

A protecting-cover  $B^4$  is provided for the spindle. This cover may be detachably secured to the block A in any desired manner. I have here shown fastening devices consisting of hooks  $b^4$ , pivoted to the base-block and  
80 engaging with studs on the cover. The cover, at its lower side, is provided with a longitudinal slot  $b^5$ , through which the lamp-wires from the spindle extend. To prevent abra-  
85 sion of the insulation material on the wires against the walls of the slot  $b^5$ , I employ a tubular carrier  $B^5$ , through which the wires may freely move. This carrier is provided in its opposite sides with kerfs  $b^6$ , the walls of which engage over the walls of the slot  $b^5$ ,  
90 as plainly shown in Fig. 3.

In operation, when the lamp is drawn down, the spindle will be rotated to wind the spring  $B^3$ , and when the lamp is in the desired position one of the dogs will engage in the notch  
95  $b$  and hold the spindle against the tension of the spring. When it is desired to elevate the lamp, a slight downward pull will release the dog from the notch and then the spring will rotate the spindle to wind the wires thereon.  
100 The operation, it will therefore be seen, is similar to that of a spring-roller shade.



Having thus described my invention, I claim as new and desire to secure by Letters Patent—

5 1. A lamp-hanger, comprising a rotary spindle, means for rotating the same, a block for supporting the spindle and its rotating means, a cover for attachment to the block and having a slot in its lower side, and a tubular carrier movable in said slot, substantially as  
10 specified.

2. A lamp-hanger, comprising a rotary elongated spindle, a recessed block supporting the same, a gear-wheel rotating on a vertical spindle in said recess, a spring in the recess for  
15 driving the gear-wheel, a gear-wheel on the spindle meshing with the first-named gear-wheel, a cover for the spindle, supported by the block and having an elongated slot through its lower side, and contacts engaging  
20 with the spindle, substantially as specified.

3. A lamp-hanger, comprising a rotary spindle, means for rotating the same, V-shaped contact-bands seated in correspondingly-shaped annular grooves in one end of the spindle, roller-contacts engaging with said bands,  
25 and stops for the spindle, substantially as specified.

4. A lamp-hanger, comprising a base-block, a spring in the base-block, an elongated rotary spindle supported by the base-block and rotated in one direction by said spring, a cover  
30 removably attached to the base-block and having an elongated slot in its lower side and a tubular carrier movable in the slot and through which a wire from the spindle is designed to pass, substantially as specified.  
35

JOSEPH SCHMIDT.

Witnesses:

MICHAEL FENNELLY,  
J. C. JULIUS LANGBEIN.