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Patented Nov. 7, 1899.

P. BLEIDT.
CARBON CLUTCH BRACKET.

(Application filed Aug. 25, 1899.)

(No Model.)

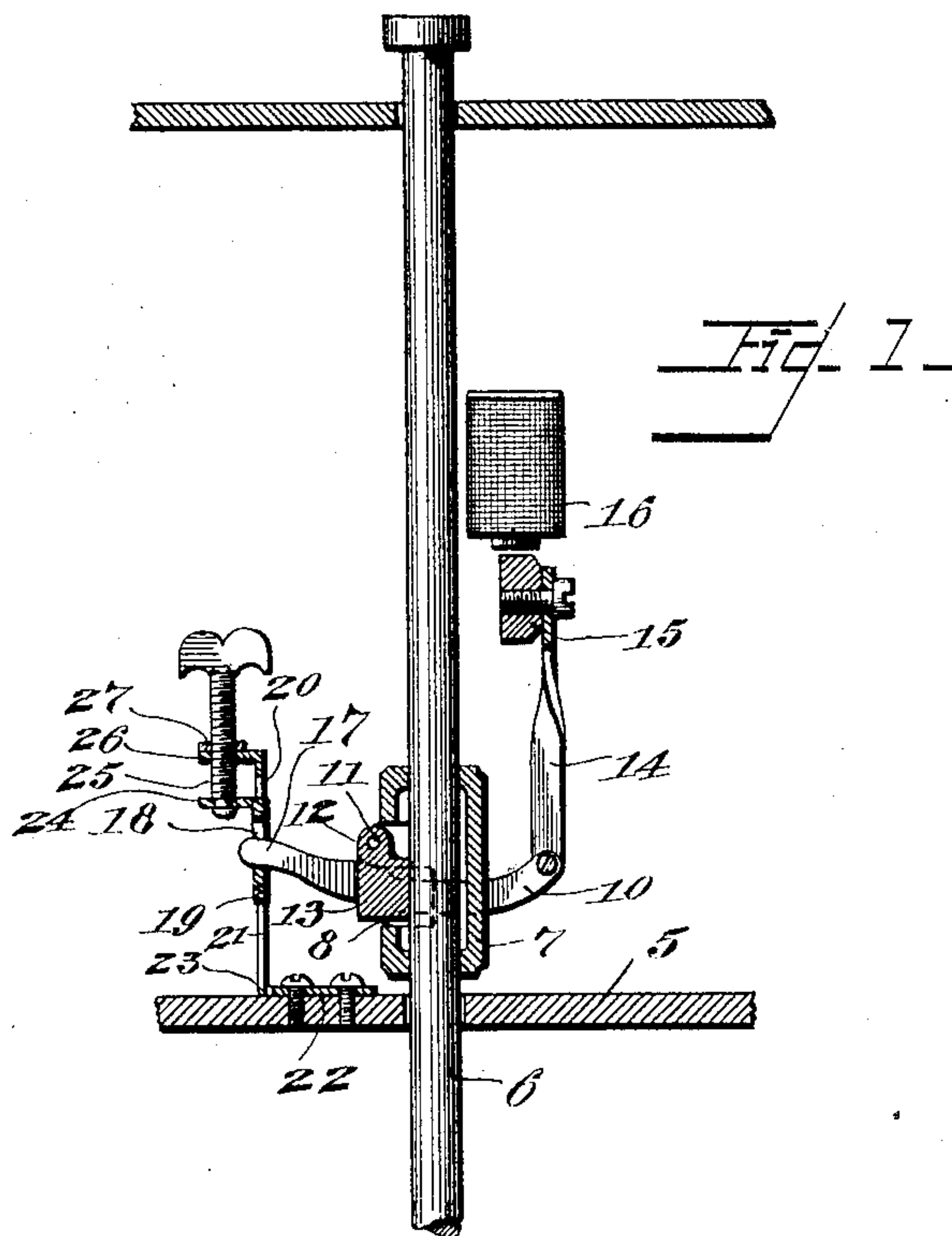
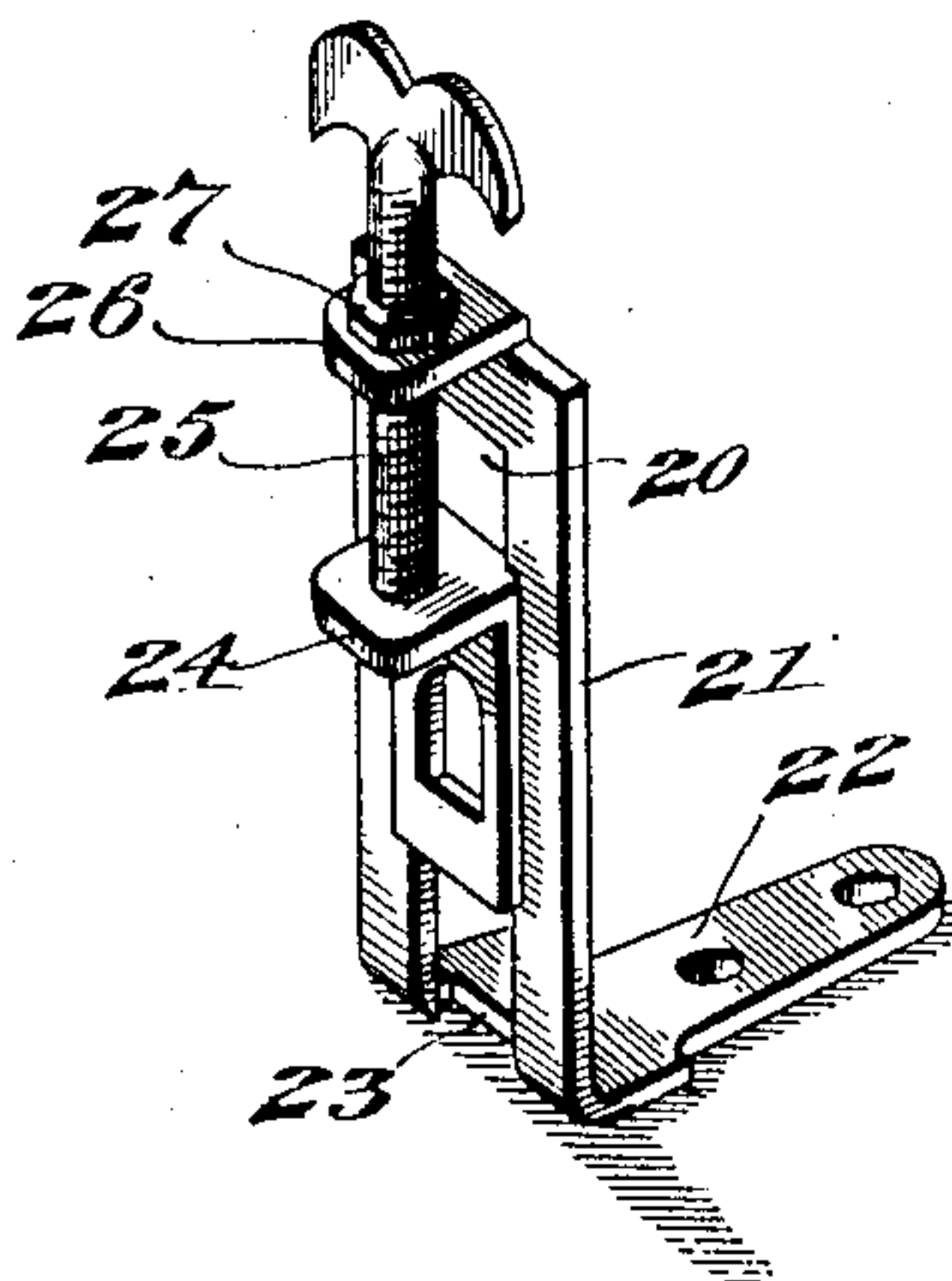


Fig. 2.



Witnesses

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PETER BLEIDT, OF LITTLE ROCK, ARKANSAS.

CARBON-CLUTCH BRACKET.

SPECIFICATION forming part of Letters Patent No. 636,621, dated November 7, 1899.

Application filed August 25, 1899. Serial No. 728,499. (No model.)

To all whom it may concern:

Be it known that I, PETER BLEIDT, a citizen of the United States, residing at Little Rock, in the county of Pulaski and State of Arkansas, have invented a new and useful Carbon-Clutch Bracket, of which the following is a specification.

This invention relates to arc-lamps in general, and more particularly to the carbon-clutch thereof; and it has for its object to provide a means for varying the delicacy of the clutch mechanism by shifting the fulcrum of the clutch-lever.

The invention includes a bracket having an end turned at an angle thereto, a follower slidably arranged in the bracket and having a lateral extension, and a screw mounted in the lateral extension of the follower and passing through the turned end of the bracket and adapted to raise and lower the follower. The follower has an opening therein for the reception of one end of the clutch-lever, and thus by manipulation of the follower the clutch-jaw carried by the lever is moved toward or away from the carbon-carrier, thus requiring different degrees of movement of the lever to cause a clutching action.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in both views, Figure 1 is a view, partially in section and partially in elevation, showing a base upon which the bracket is secured and the location and arrangement of the clutch mechanism with respect thereto. Fig. 2 is a perspective view of the bracket.

Referring now to the drawings, 5 represents the base, upon which the operating mechanism of a lamp is secured and through which is passed a carbon-carrying rod 6. A clutch mechanism for the rod 6 consists of a sleeve 7, fitted loosely upon the rod and through which the rod is adapted to slide, one side of the sleeve being cut away, as shown at 8.

Pivoted to the sleeve 7 is a lever 10 through the medium of a pivot 11, passed through an ear 12 upon a clutch-jaw 13, carried by or formed integral with the lever 10, and which jaw is operable in the cut-away portion or opening 8 and is adapted to engage the rod 6 and clamp it against the sleeve 7 when the lever 10 is moved in one direction on its pivot.

At the work end of the lever 10 is pivoted a link 14, leading to the armature-lever 15, which is adapted for operation through the medium of an electromagnet in series with the lamp-carbons, as is usual. When this electromagnet 16 is energized, it operates to raise the lever 15 and move the jaw 13 against the rod 6.

The fulcrum end 17 of the lever 10 is extended beyond the jaw 13 and at the opposite side of the rod 6 from the work end of the lever, and this fulcrumed end 17 lies in the opening 18 of a vertically-movable follower 19. This follower 19 has grooved side edges which receive the adjacent edges of a longitudinal slot 20 in an upright or bracket 21, the lower end of which is turned at right angles thereto, as shown at 22, to form means for securing the bracket to the base 5. The slot 20 is continued downwardly and through this laterally-turned portion, as shown at 23, to permit the insertion of the follower in the slot. In order to shift the follower 19, it is provided with an outwardly-extending lug 24, in which is swiveled a thumb-screw 25, passed downwardly through a threaded perforation in a lug 26 upon the upper end of the bracket and lying over and parallel with the lug 24, the threads of the screw 25 engaging with those of said perforation. A jam-nut 27 upon the screw 25 is adapted for engagement with the lug 26 to jam the screw and prevent accidental displacement thereof.

From the above description and upon reference to the drawings it will be seen that by adjustment of the follower 19 the lever 10 will be moved upon its pivot to move the jaw 13 toward or away from the carrier 6, and thus necessitate lesser or more movement of the armature-lever to engage the jaw with the carrier; also when properly adjusted the follower may be clamped when in place, it of course being understood that this adjustment is varied in accordance with the conditions under which the lamp is operated.

In practice the specific construction and arrangement herein shown may be varied and any desired materials and proportions may be used without departing from the spirit of the invention.

Having thus described the invention, what I claim is—

1. A carbon-clutch bracket consisting of an upright provided with means for attachment to a support and having a longitudinal slot therein, a follower in the slot and adapted
5 for movement therein, an opening in the follower, lugs carried by the follower and bracket, a screw rotatably mounted in one lug and having threaded engagement with the other lug to move the follower, and means for
10 operating the screw.

2. A carbon-clutch bracket comprising an upright having an end turned at an angle

thereto for attachment to a support, a longitudinal slot in the bracket, a follower in the slot having an opening, and means for ad- 15 justing the follower in the slot.

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

PETER BLEIDT.

Witnesses:

JNO. B. SLOCOMB,
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