

No. 613,098.

Patented Oct. 25, 1898.

M. I. VOUGHT.

DROP LIGHT.

(Application filed July 1, 1897.)

(No Model.)

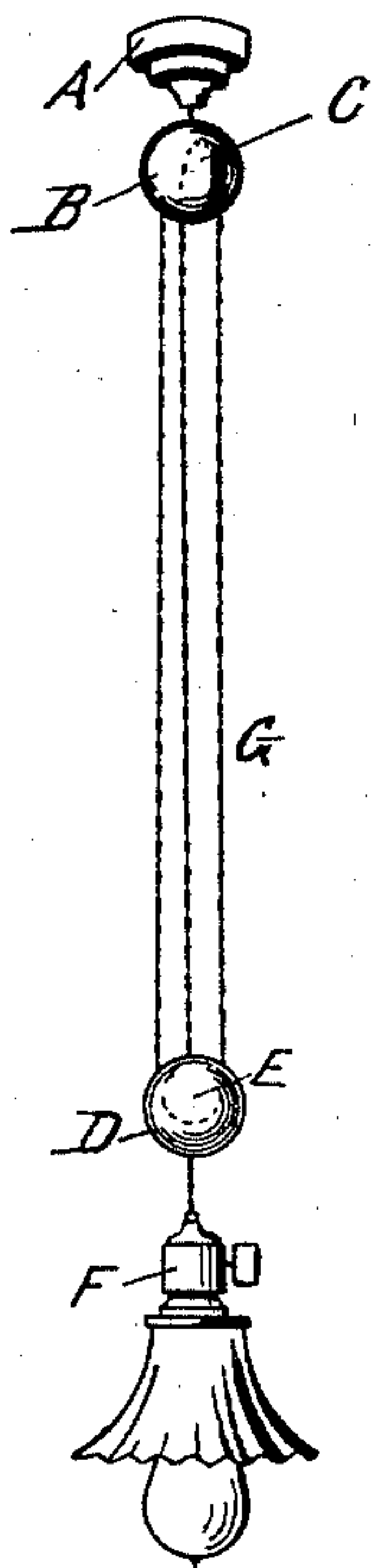


Fig 1

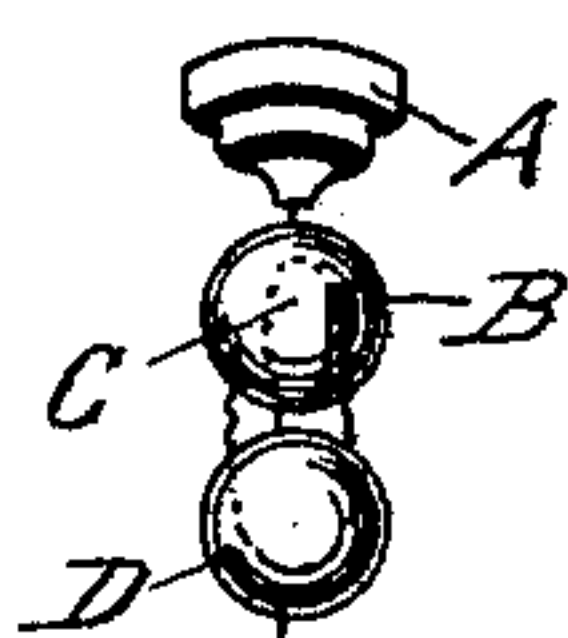


Fig. 2

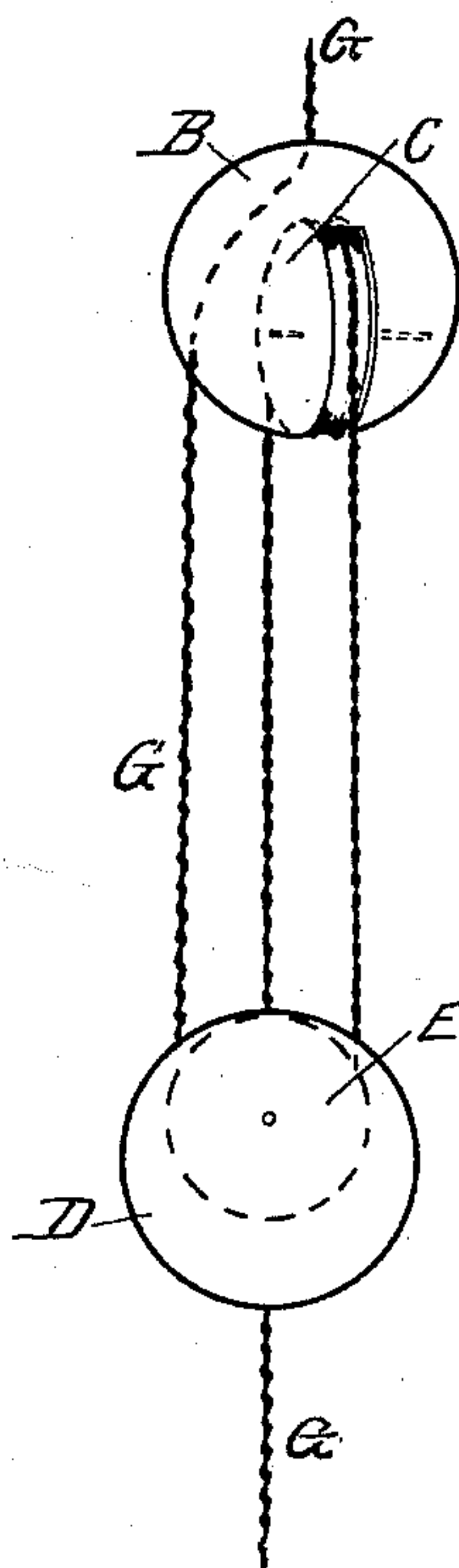


Fig. 3

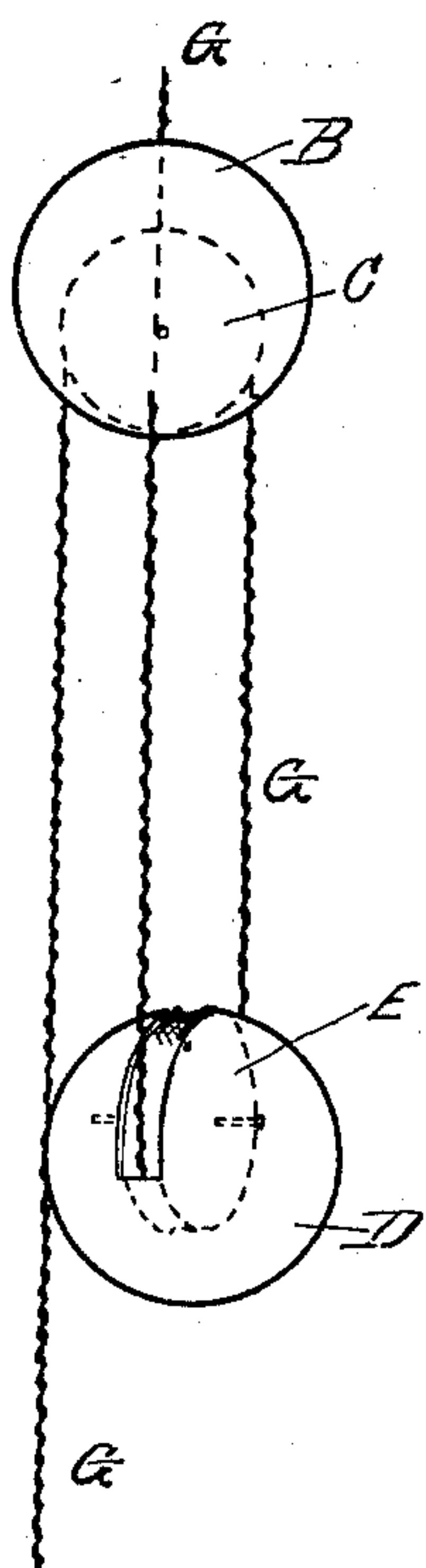


Fig 4

Witnesses
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UNITED STATES PATENT OFFICE.

MILTON I. VOUGHT, OF LA CROSSE, WISCONSIN.

DROP-LIGHT.

SPECIFICATION forming part of Letters Patent No. 613,098, dated October 25, 1898.

Application filed July 1, 1897. Serial No. 643,069. (No model.)

To all whom it may concern:

Be it known that I, MILTON I. VOUGHT, a citizen of the United States, residing at La Crosse, in the county of La Crosse and State of Wisconsin, have invented certain new and useful Improvements in Drop-Lights; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in incandescent-lamp-cord adjusters.

It consists in a pair of pulleys and blocks of peculiar construction, the lower one of which acts as a balance-weight to maintain the lamp in any desired position, thus allowing the lamp to be raised or lowered at will or allowing the lamp to be carried to positions other than vertical, the weight serving to keep the cord always taut.

The object of my invention is to make a simple weighted adjuster which can be attached to any of the ordinary forms for receiving feeder-wires, using no other attachment than the cord. It can thus be fastened to a ceiling-rosette, individual cut-out, extension-plug, or to any device calculated for tapping feeder-wires or to the feeder-wires themselves.

Figure 1 is a view of my invention attached to a ceiling individual cut-out, showing the lamp raised. Fig. 2 is a view of the same, showing the lamp lowered. Figs. 3 and 4 are enlarged views showing the arrangement of weight and pulleys.

A is an ordinary individual ceiling cut-out, into which the cord is attached in the usual manner. This may be either a ceiling-rosette, individual cut-out, extension-plug, or any device used for tapping the feeder-wires for an electric current or may be attached to the feeder-wires themselves, the only attachment required being the usual attachment of the cord.

B is a block, which may be made of any suitable material or shape, preferably a wooden sphere.

The lamp-cord G passes into and through

the block B and is fastened thereto sufficiently to prevent slipping, substantially as shown in Fig. 3. Leaving the block B the cord passes down and around the pulley-wheel E, which is fastened in a groove in the weight or weighted block D, which may be of any suitable material or shape, preferably a sphere of cast-iron or brass, or of wood weighted to counterbalance the weight of a socket, lamp, and cord, and shade. The pulley-wheel E is fastened in block D substantially as shown in Figs. 3 and 4.

The lamp-cord passes around the pulley-wheel E in block D and up to and around a similar pulley-wheel C in the block B. After passing over the pulley-wheel C the cord passes down and may be attached to the lamp-socket F, which may be allowed to remain in a vertical position or fastened in any position other than vertical.

When the lamp is lowered, the cord passing around the pulley-wheels C and E raises the weight D. The lamp may be lowered until the weight D encounters the block B. When the lamp is raised, the cord passing around the pulley-wheels C and E allows the weight D to descend, thereby taking up the slack in the cord. The block D is made of such weight as will, taken with the friction of the pulley-wheels and cord, maintain the lamp in any intermediate position. The block D also serves to hold the cord taut and in place when the lamp is held in any other position than vertical.

The pulleys in blocks B and D are so arranged as to make the three strands of cord in their relative positions with each other describe an equilateral triangle.

Having thus described my invention, I claim—

1. In an adjustable hanger for lamps in which a counterweight is used, the two balls, the lower ball being weighted and the upper ball unweighted, each having a grooved pulley concealed within; the upper ball having a passage for the cord containing conductors passing up through the ball on a slant and from one side on the lower half of the ball to center upon the upper half of the same, substantially as set forth and described.

2. In an adjustable hanger for incandescent lamps using a counterweight, the two balls

suspended one above the other, the lower ball
being weighted and having a pulley concealed
in a recess just above the center, the upper
ball being unweighted and having a pulley
5 concealed in a recess in and inside of the cen-
ter of said ball; a passage-way for the cord
through the upper ball in a slanting direc-
tion from a point on the lower half of the
ball beside the center of pulley to a point at
10 the center of the upper half of the ball, said

passage-way being so located in the ball as to
hold the ball right side up, and the pulley in
a vertical position, substantially as shown.

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

MILTON I. VOUGHT.

Witnesses:

C. W. THOMPSON,
THOMAS MORRIS.