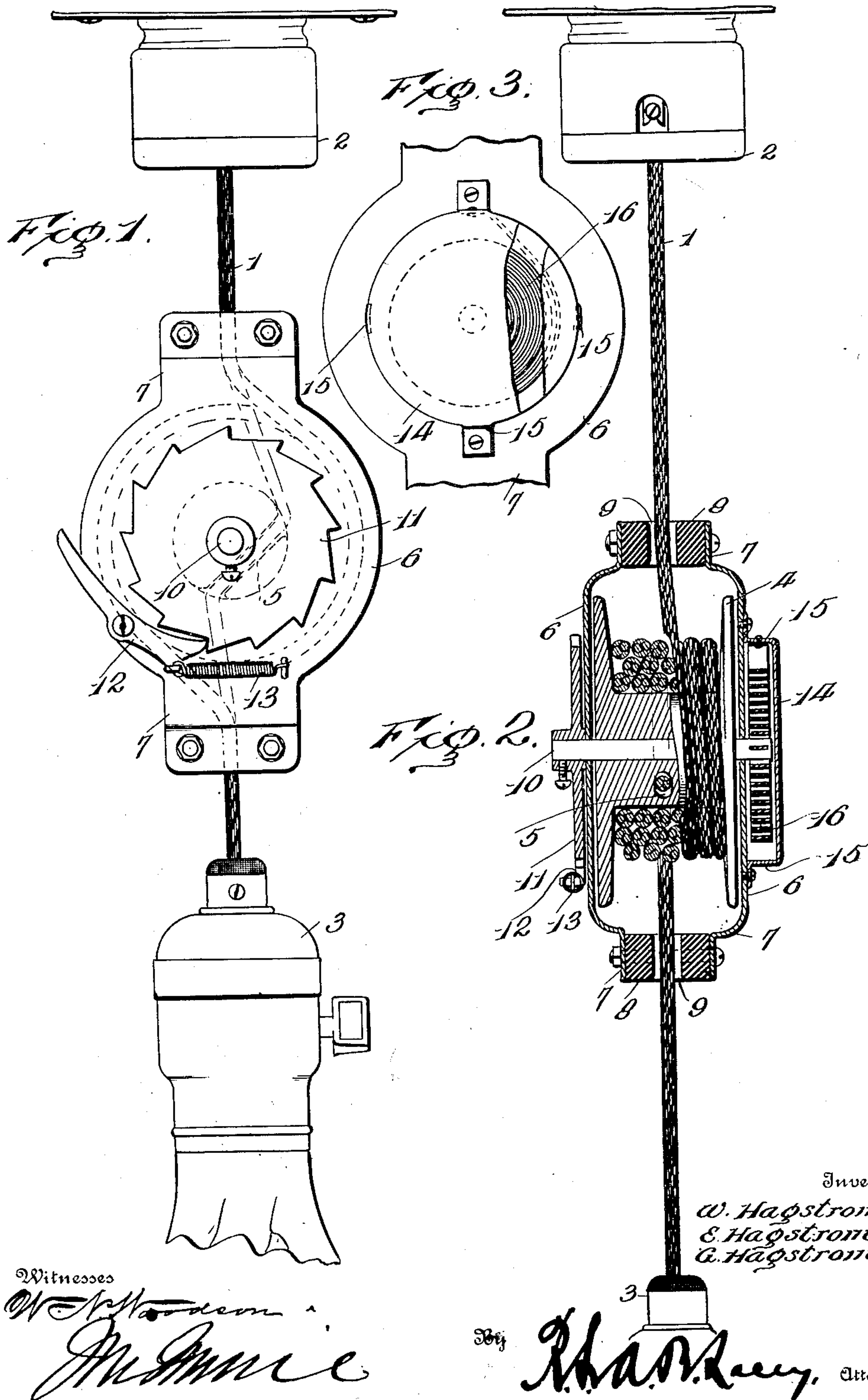


W., E. & G. HAGSTROM.
LAMP CORD ADJUSTER.
APPLICATION FILED JULY 22, 1907.

915,288.

Patented Mar. 16, 1909.



UNITED STATES PATENT OFFICE.

WILLIAM HAGSTROM, EMANUEL HAGSTROM, AND GUSTAF HAGSTROM, OF LINDSBORG, KANSAS, ASSIGNORS TO HAGSTROM BROTHERS MANUFACTURING COMPANY, OF LINDSBORG, KANSAS.

LAMP-CORD ADJUSTER.

No. 915,288.

Specification of Letters Patent.

Patented March 16, 1909.

Application filed July 22, 1907. Serial No. 384,924.

To all whom it may concern:

Be it known that we, WILLIAM HAGSTROM, EMANUEL HAGSTROM, and GUSTAF HAGSTROM, citizens of the United States, residing at Lindsborg, in the county of McPherson and State of Kansas, have invented certain new and useful Improvements in Lamp-Cord Adjusters, of which the following is a specification.

10 The present invention aims to provide an improved support for incandescent electric lights and relates more particularly to means whereby the suspending cord may be easily and quickly adjusted with regard to its length.

15 The invention resides principally in the provision of a spring actuated reel upon which the suspending cord is designed to be wound, novel means being provided for mounting the reel and controlling the movements thereof.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

25 Figure 1 is a side elevation of a cord adjusting device embodying the invention. Fig. 2 is a vertical sectional view through the same. Fig. 3 is a plan view showing the mounting of the spring, portions being broken away.

30 Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

40 The invention may be applied to any of the conventional types of cords employed for suspending electric lights such as that indicated at 1, the said cord being provided at one end with the usual plug 2 and at the opposite end with a socket 3 within which an incandescent light can be secured in the usual manner. The reel 4 is formed with a transverse opening 5 through which the cord 1 is passed and is mounted between the opposite side pieces 6 of a frame carried by the cord 1. These side pieces 6 are in the nature of disks, being approximately circular in shape and are provided upon their opposite sides with the extensions 7, the said extensions being deflected inwardly and each pair of the extensions being connected by a block 8 of vulcanite or other similar material. These

blocks 8 are perforated as indicated at 9 to receive the cord 1 and serve as guides for the latter when being wound upon the reel or unwound therefrom. A shaft 10 is journaled in the side pieces 6 of the frame and has the reel 4 keyed thereon or otherwise made rigid therewith, the extremities of the shaft projecting beyond the side pieces of the frame. Applied to one of the outwardly projecting ends of the shaft 10 is a ratchet wheel 11 designed to be engaged by a pawl 12 pivotally mounted upon the edge portion of the corresponding side piece 6, one of the ends of the pawl projecting beyond the edge of the side piece to form a finger lever for manipulating the pawl. This pawl 12 is normally held in engagement with the ratchet 11 by means of a spring 13 having the extremities thereof connected to projections upon the pawl and side piece respectively. A casing is applied to the opposite side piece 6 of the frame and comprises a plate 14 spaced from the side piece and provided at its periphery with inwardly extending tongues 15 engaging the side piece, a portion of the tongues having the extremities deflected outwardly and rigidly connected to the plate.

70 The reel 4 is actuated by a flat spiral spring 16 housed between the plate 14 and corresponding side piece 6 of the frame, one of the extremities of the spring being connected to the shaft 10 while the opposite extremity is connected to one of the tongues 15. This spring 16 normally operates to turn the reel 4 and wind the cord 1 thereon, the said cord being thereby taken up and the effective length thereof reduced. By pulling upon the cord 1 however the same can be unwound from the reel 4 and the spring 16 placed under tension, the pawl 12 engaging the ratchet wheel 11 and enabling the required adjustment to be made. Upon releasing the pawl 12 through the medium of the end thereof projecting beyond the edge of the plate the spring 16 operates to wind the cord 1 upon the reel.

Having thus described the invention, what is claimed as new is:

105 The herein-described lamp cord adjuster comprising a pair of spaced side pieces formed with corresponding upper and lower extensions which are deflected inwardly toward each other, a perforated guide block connecting each pair of corresponding extensions, a shaft journaled between the side

pieces and having its extremities projecting beyond the same, a reel rigid with the shaft and located between the side pieces, a suspending cord passing loosely through the perforated guide blocks and having an operative connection with the reel, a casing applied to the exterior of one of the side pieces and comprising a plate spaced from the side piece and formed with tongues which are extended inwardly and secured thereto, a coil spring housed within the casing, one end of the coil spring being connected to the shaft while the opposite end is secured to one of the tongues, the said coil spring tending to normally wind the suspending cord upon the reel, a ratchet wheel rigid with the opposite extremity of the shaft and arranged upon

the exterior of the opposite side piece, and a pawl cooperating with the ratchet wheel to lock the reel against the action of the spring, the said pawl being pivotally mounted upon the side piece at an intermediate point and being formed at one end with a finger-piece which projects beyond the edge of the side-piece. 25

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM HAGSTROM. [L. S.]
EMANUEL HAGSTROM. [L. S.]
GUSTAF HAGSTROM. [L. S.]

Witnesses:

G. DANL. JOHNSON,
SIMON FALLQUIST.