

(No Model.)

N. M. ANDERSEN.  
MEANS FOR ADJUSTING ELECTRIC LAMPS.

No. 513,066.

Patented Jan. 16, 1894.

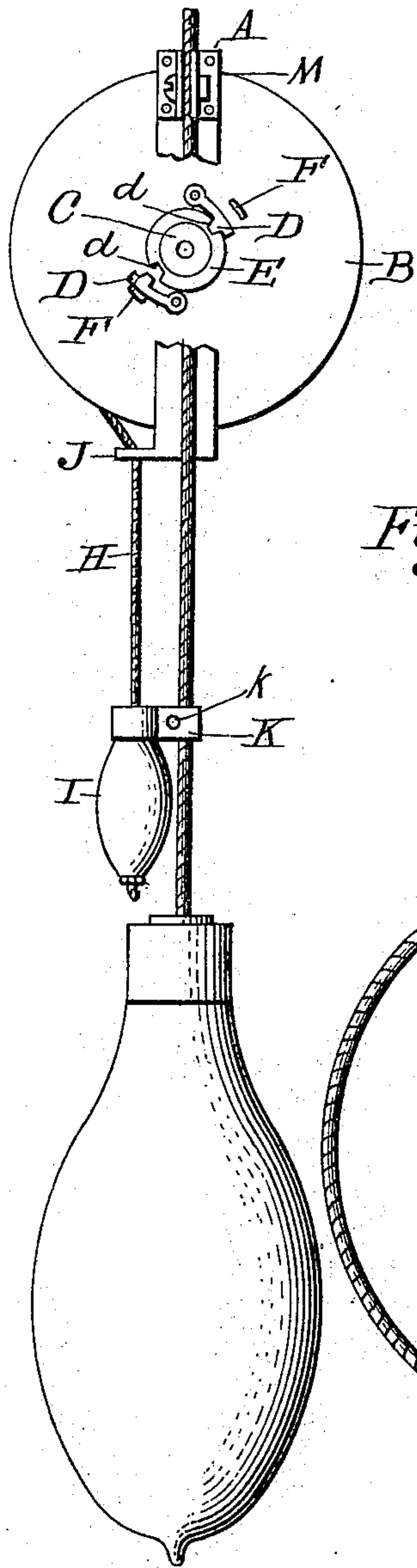


Fig. 1.

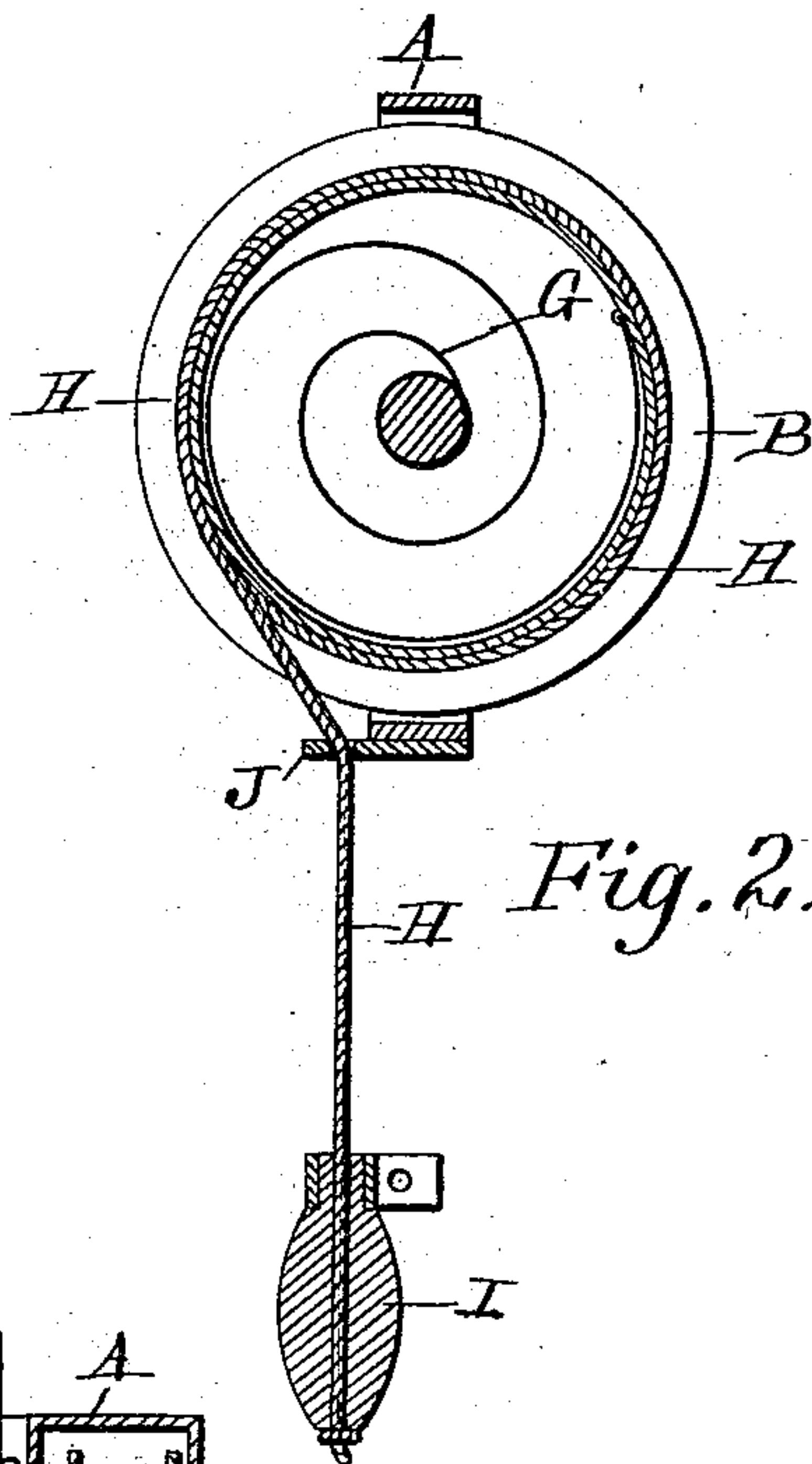


Fig. 2.

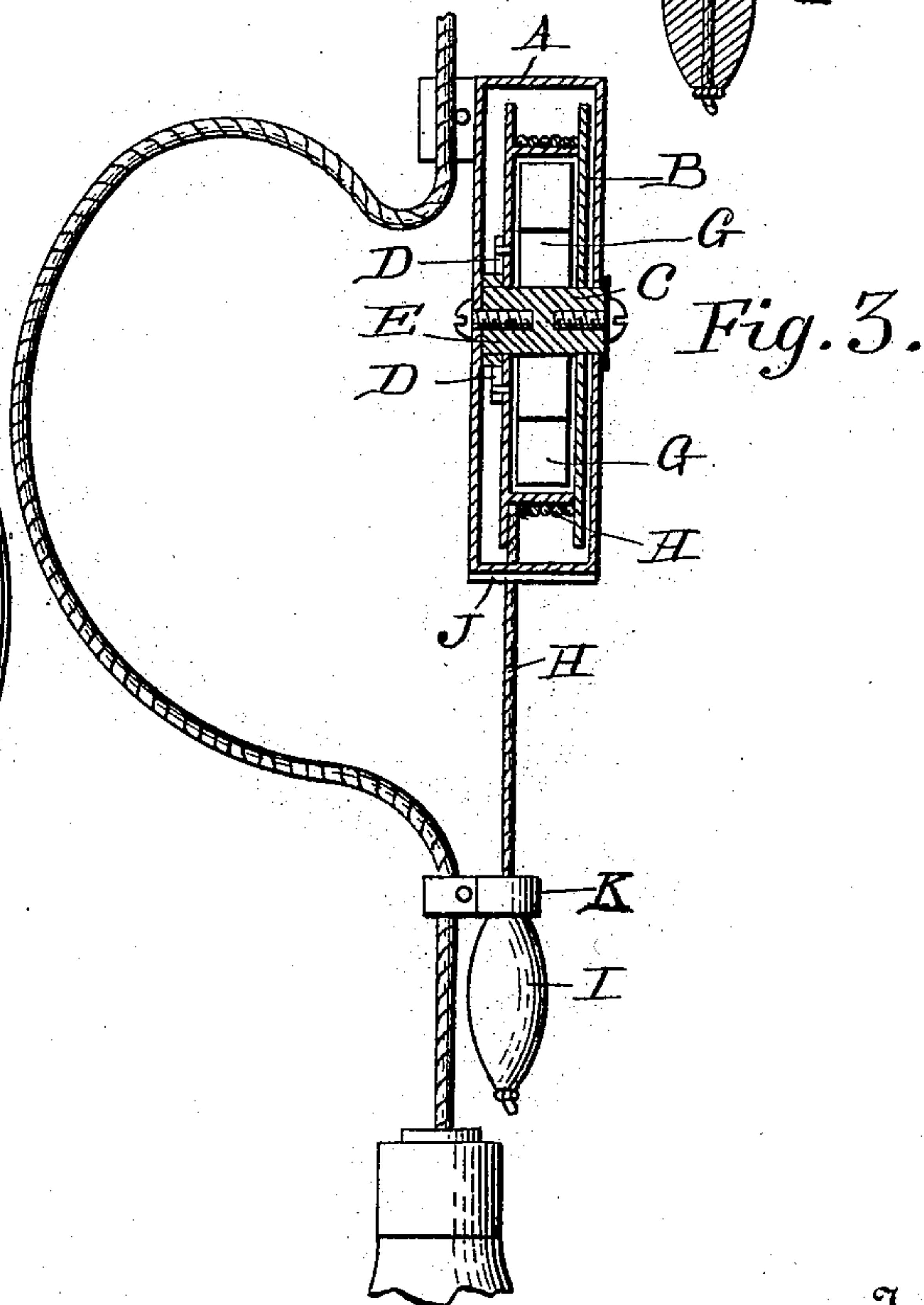


Fig. 3.

Witnesses  
Albert C. Blackwood  
for Black

Inventor  
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# UNITED STATES PATENT OFFICE.

NIELS MELCHIOR ANDERSEN, OF OMAHA, NEBRASKA, ASSIGNOR OF ONE-HALF TO CHARLES EDWARD BICKFORD, OF SAME PLACE.

## MEANS FOR ADJUSTING ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 513,066, dated January 16, 1894.

Application filed April 7, 1893. Serial No. 469,378. (No model.)

*To all whom it may concern:*

Be it known that I, NIELS MELCHIOR ANDERSEN, a citizen of the United States, residing at Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Means for Adjusting Electric Lamps; and I do hereby 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 certain new and useful improvements in means for adjusting electric lamps, and has for its object to provide mechanism whereby the height of the lamp may be regulated at will.

To this end my invention consists in the novel arrangement and construction of parts hereinafter described and afterward definitely pointed out in the claim, due reference being had to the accompanying drawings, forming a part of this specification, wherein—

Figure 1, represents a side elevation of my improved device, a portion of the frame being broken away; Fig. 2, a vertical central section of the same illustrating the spring; Fig. 3, the vertical central section taken at right angles to that shown in Fig. 2.

Referring to the drawings, the letter A, indicates a loop or frame within which is journaled a pulley B, rigidly affixed to a shaft C. Upon one side of said pulley are pivoted pawls D, which are adapted to engage recesses *d* in a hub E rigidly secured upon the shaft C. Secured to the same face of the pulley are lugs or projections F, which limit the outward movement of the pawls D. The pulley B is constructed hollow and has secured to one of its interior faces a spring G, the other end of which is secured to the shaft E. The cord H is wound about said pulley and carries at its lower end a handle I, said cord passing through a guard loop J formed upon the bottom of the loop or casing A. It thence passes through a clamp K and at its free end has attached the handle before referred to. The clamp K preferably consists of two pieces

of metal perforated and screw-threaded at one end whereby they may be united by means of a set screw *k*, their opposite ends diverging in such manner as to form a loop through which the electric light wire may freely pass.

To the upper end of the frame A is secured a clamp M, which is adapted to be secured to the electric light wire at a point near the ceiling, and the wire thence drops vertically passing through the clamp as before described.

The operation of my device is as follows: The frame A is secured to the ceiling or the line wire, whichever may be desired, and the line wire is dropped to a suitable height carrying at its free end an electric lamp; by pulling upon the handle I the cord is unwound from the pulley B, thus lowering the lamp to the position desired. If it be desired to raise the lamp it is only necessary to give a short pull upon the cord and push the lamp upward, when the centrifugal force exerted by the revolution of the pulley will keep out of engagement the pawls until the pulley has been arrested by hand. The upward movement of the cord is then arrested.

Having thus described my invention, what I claim is—

In a device for raising and lowering electric lamps, the combination with a frame having a guard loop J at its lower end, the shaft C, journaled in the frame and the hollow pulley supported on the shaft, of a spring secured at one end to the interior face of the pulley and at the other to the shaft C, the cord H on the pulley passing through the guard loop J, the handle I on the end of the cord, the two part clamp K secured to the handle, pawls pivoted on the side of the pulley, and a recessed hub rigidly secured to the shaft, and lugs on the pulley to limit the outward movement of the said pawls, substantially as shown and described.

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

NIELS MELCHIOR ANDERSEN.

Witnesses:

CHARLES EDWARD BICKFORD,  
HANS J. WINTHERLOCH.