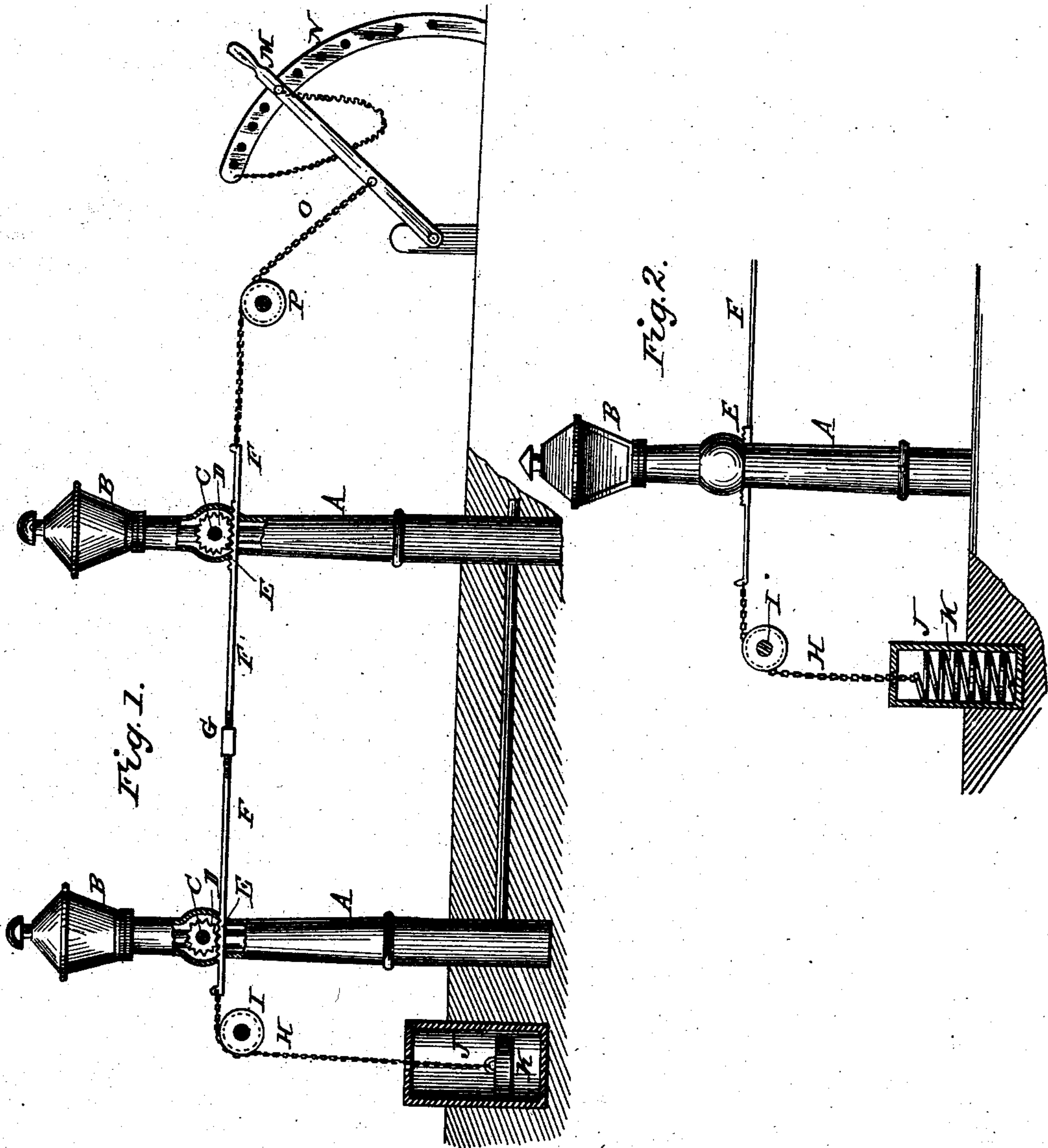


(No Model.)

B. W. MITCHELL.  
APPARATUS FOR LIGHTING STREETS.

No. 292,128.

Patented Jan. 15, 1884.



WITNESSES:

*Fred. L. Dietrich*  
*Arthur L. Merrill*

*Barnard W. Mitchell*  
INVENTOR.  
*By Louis Ragger & Co.*  
ATTORNEYS.



# UNITED STATES PATENT OFFICE.

BARNARD W. MITCHELL, OF HUBBARD, OHIO, ASSIGNOR OF ONE-THIRD  
TO ADAM HOLTZBAUGH, OF SAME PLACE.

## APPARATUS FOR LIGHTING STREETS.

SPECIFICATION forming part of Letters Patent No. 292,128, dated January 15, 1884.

Application filed October 16, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, BARNARD W. MITCHELL, a citizen of the United States, and a resident of Hubbard, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Apparatus for Lighting Streets, &c.; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side elevation, partly in section, of my improvement in apparatus for lighting streets, &c.; and Fig. 2 is a detail view, showing a modified construction of certain part of the apparatus.

Similar letters of reference indicate corresponding parts in both the figures.

My invention has relation to apparatus for lighting streets, factories, &c.; and it consists in the construction and combination of parts of a mechanism or device whereby all the lamps may be extinguished or regulated simultaneously and by a single operation, substantially as hereinafter more fully described and claimed.

In the accompanying drawings, A denotes the lamp-posts, B the lamps, and C the ratchet-shafts for raising or lowering the wicks.

In the case of gas-lamps, where no wicks are used, C denotes the cock for turning off the gas or for regulating the flame. This ratchet-shaft or cock, as the case may be, is provided with a spur-wheel, D, adapted to engage a rack-bar, E, which slides in ways provided inside of the post. The racks E of the several lamps are connected by rods F, provided with screw-couplings G, whereby their length may be regulated according to the distance between the lamps, and at the end of the circuit or row of lamps the rod is provided with a chain, H, which passes over a pulley,

I, and down into a well, J. At the free end of the chain, and depending into the well, is a weight, K; or, if desired, a spring may be substituted for the weight, as shown at L in Fig. 2. The rack-bars E, with their connecting-rods F, are operated by a lever, M, the position of which may be held at any desired adjustment by means of a segmental rack, N. This lever is connected by a chain, O, passing over a grooved sheave or pulley, P, to the connecting-rods F in such a manner that by moving the lever up or down these rods, with their rack-bars, may be slid forward and back at will, thereby actuating the spur-wheels D in such a manner as to regulate the flame of the several lamps, or extinguish the lamps, if desired.

This apparatus, while more especially adapted to be used in connection with my improved apparatus for lighting streets, which forms the subject of a separate application for patent filed August 25, 1883, Serial No. 104,722, will be found serviceable in the lighting of streets generally, or in the lighting of factories, where a large number of lamps are employed, the regulation or extinguishing of which it is desirable to effect simultaneously.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination, with the lamp-posts, lamps, and their regulating mechanism, of the sliding racks E, connecting-rods F, chain H, weight K, or its equivalent, and suitable means or mechanism for actuating the rack-bars and their connecting-rods, substantially as and for the purpose shown and set forth.

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

BARNARD W. MITCHELL.

Witnesses:

NATHANIEL MITCHELL,  
T. A. WINFIELD.