

(No Model.)

E. M. SMITH.  
Chandelier.

No. 235,036.

Patented Nov. 30, 1880.

FIG. 1.

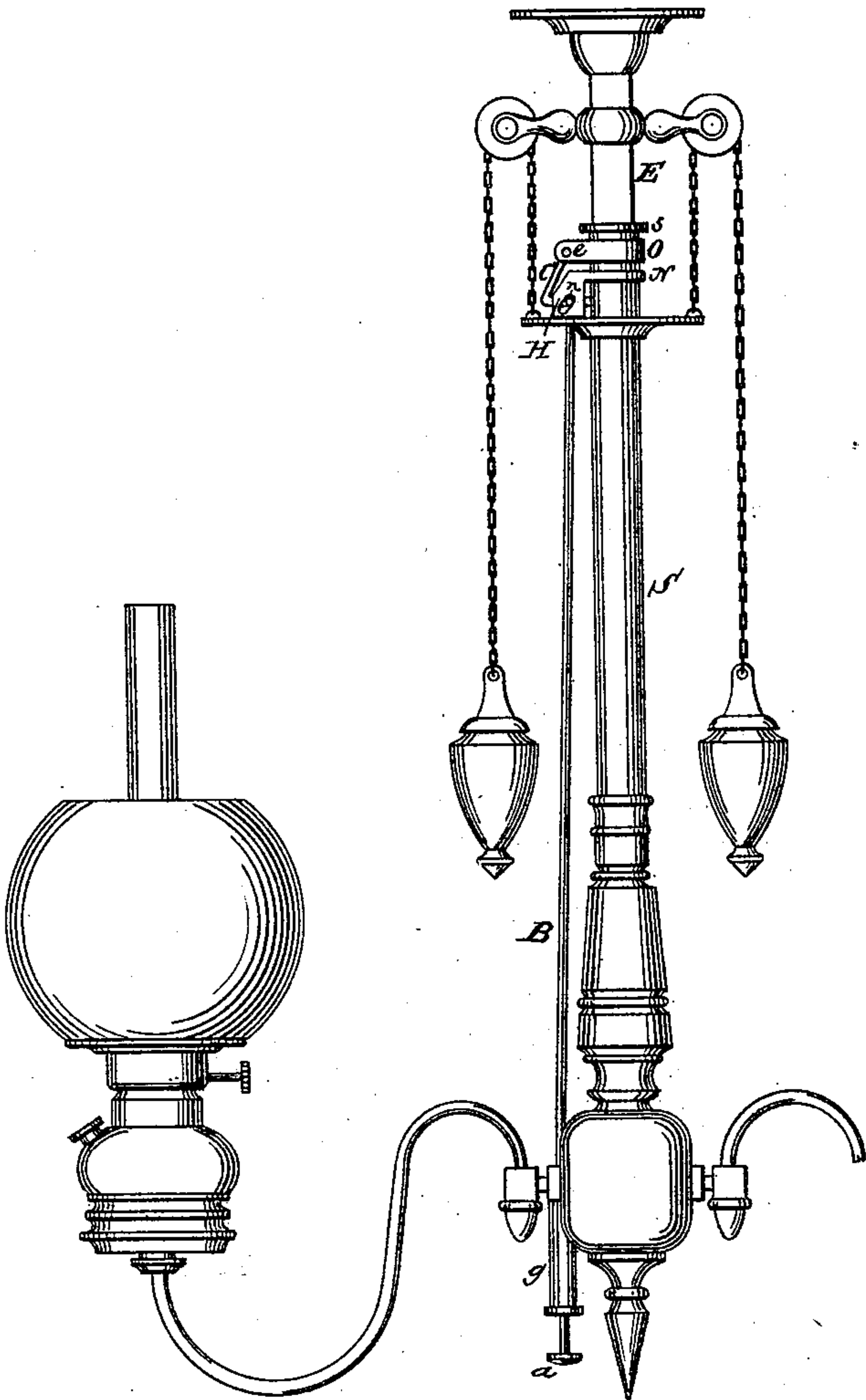


FIG. 2.

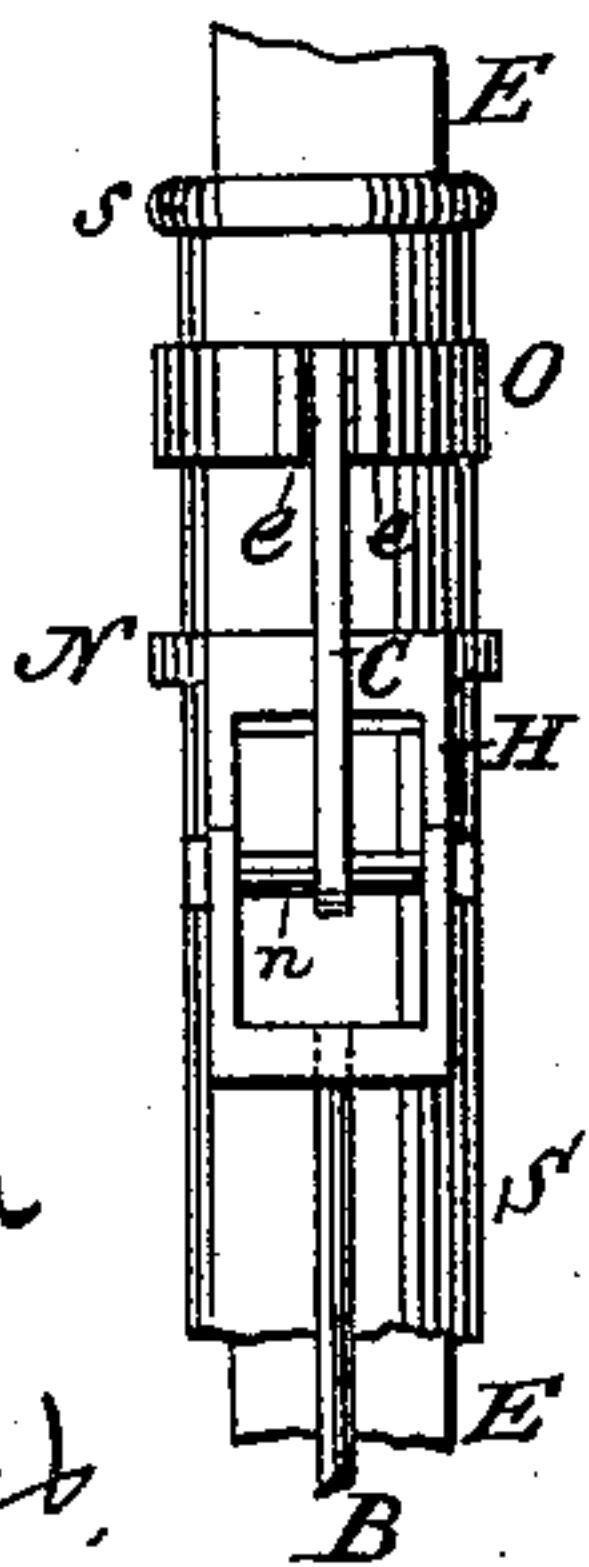


FIG. 3.

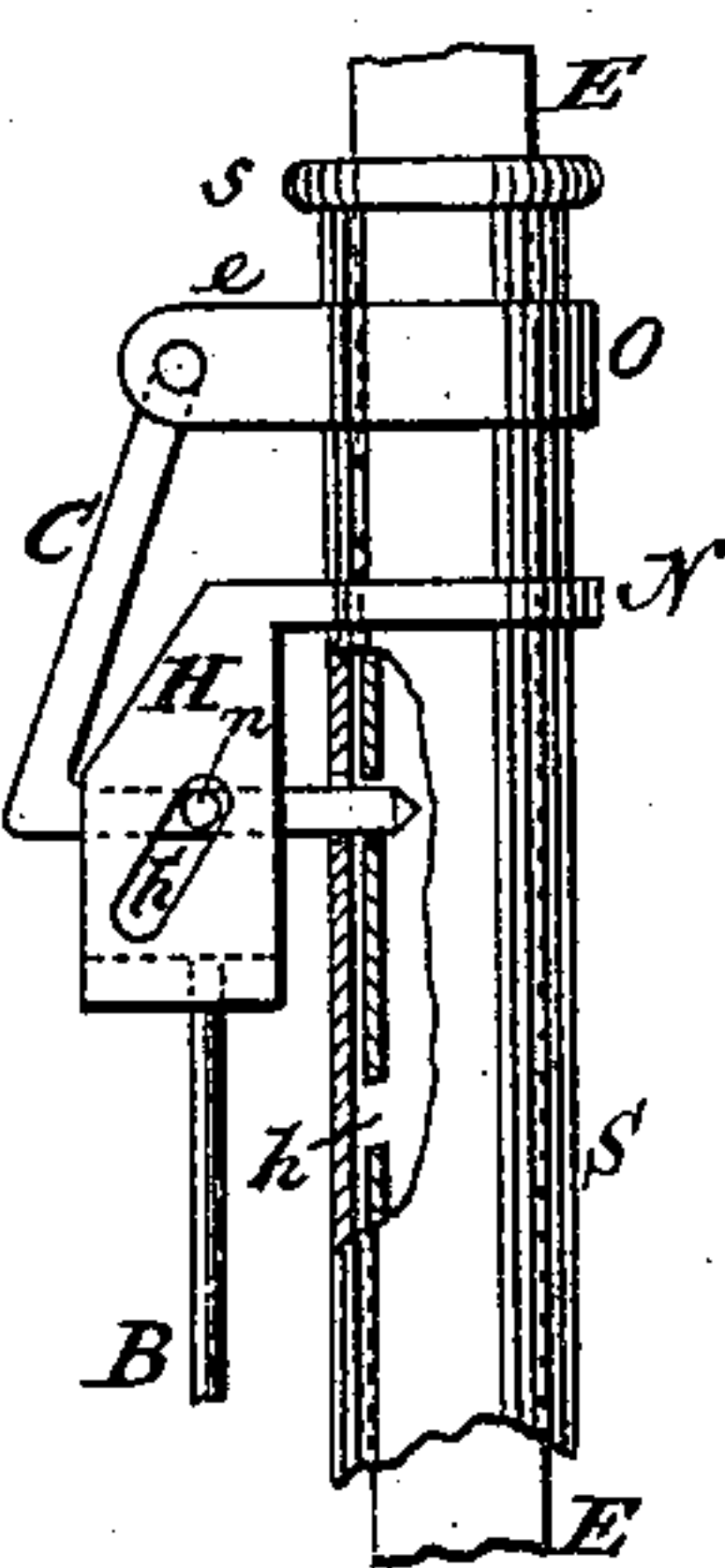
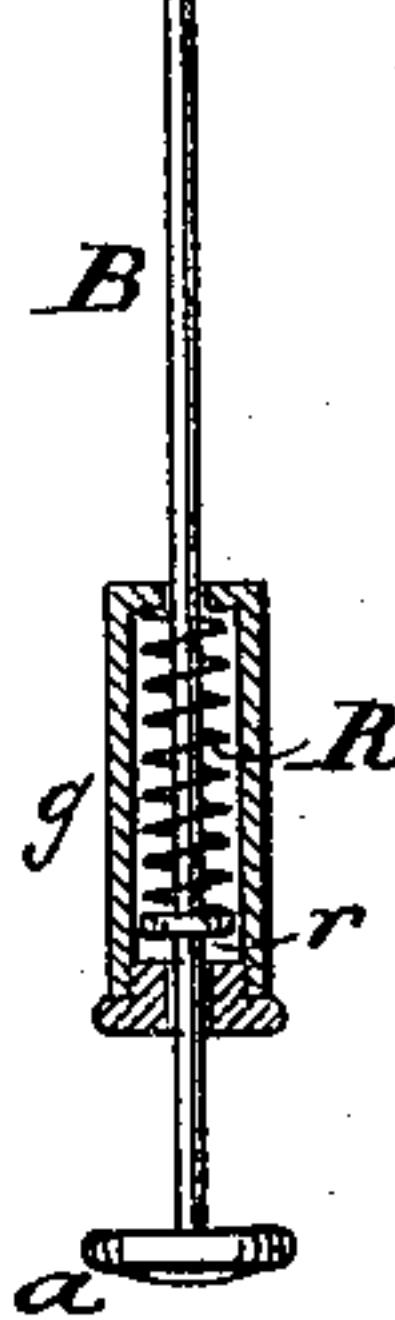


FIG. 4.



WITNESSES:  
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INVENTOR =  
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# UNITED STATES PATENT OFFICE.

EDGAR M. SMITH, OF NEW YORK, N. Y., ASSIGNOR TO MITCHELL, VANCE & CO., OF SAME PLACE.

## CHANDELIER.

SPECIFICATION forming part of Letters Patent No. 235,036, dated November 30, 1880.

Application filed October 19, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, EDGAR M. SMITH, of the city, county, and State of New York, have invented certain Improvements in Chandeliers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to that class of chandeliers commonly known as "extension-chandeliers;" and it has for its object the supply of a cheap, efficient, and effective means for the raising, and lowering, and holding at any desired elevation such chandeliers.

Figure 1 is a side view of a portion of a chandelier to which my invention is applied. Figs. 2, 3, and 4 represent details thereof, partly in section and partly in side elevation.

E is a rod extending downward from the main support of the chandelier. This rod is rectangular in its cross-section, or it may be of any form which will prevent the hereinafter-named sleeve from turning on its longitudinal axis. Upon it is fitted the sleeve S, having at the top a collar, s, the opening in which corresponds to the shape of the rod. This prevents the sleeve from turning horizontally upon said rod E. In the side of the rod E are formed at short intervals recesses h.

To the top of the sleeve S is permanently fixed a collar, O. This collar has a lateral extension, to which is pivoted a hook or stop, C. In a guide, g, attached to the side of the sleeve, is fitted a bent sliding rod, B. The upper end of this rod is attached to a slide, N H, in which is formed an inclined slot, h', in which plays a pin, n, which projects from the side of the hook C.

In the cylindrical guide g is fitted a coiled

spring, R, which acts against a collar, r, attached to the lower part of the rod B to force the same downward.

The operation is as follows: Whenever the lamps are taken off the chandelier for filling or cleaning, the counterpoising-weights (or springs, as the case may be) tend to raise the chandelier. When the lamps are in position their total weight slightly overbalances the weight of the counterpoises and the chandelier tends to descend. Either one or the other tendency is opposed by the engagement of the hook or stop C with the recesses h in the rod E. The normal position of said hook or stop is such as to compel such engagement, the coiled spring R pulling the rod B downward. To release the hook from such engagement, while the hand grasps the lower part or boss of the chandelier, a slight pressure of the thumb is exerted on the thumb-piece a, and then the whole may be raised or lowered to any desired position, in which it will be retained by the engagement of the hook or stop C in one or other of the recesses h.

Having thus fully described my improvements, what I claim as my invention, and desire to secure by Letters Patent, is as follows:

The combination of the rod E, having recesses h, sleeve S, fitted to slide on the rod E, hook or stop C, pivoted to the sleeve S, and having the projection n, slide N H, fitted to slide on the upper part of the sleeve, and having the slot h', rod B, attached to the slide N H, and having the collar r, guide g, and spring R, substantially as and for the purpose specified.

EDGAR M. SMITH.

Witnesses:

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