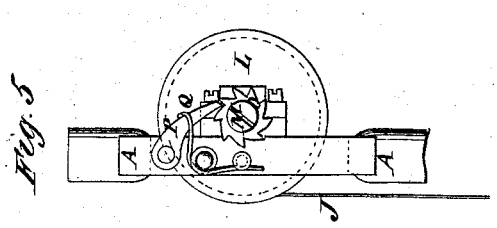
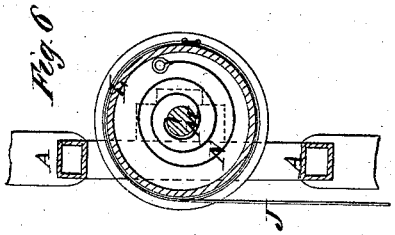
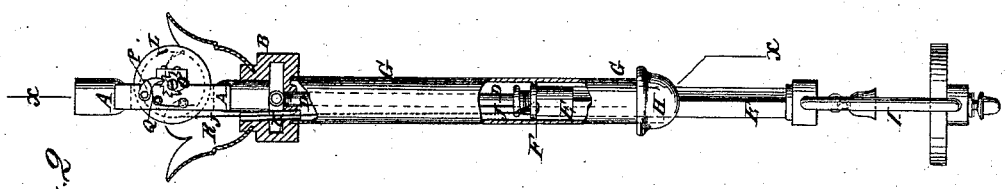
S. B. H. VANCE.

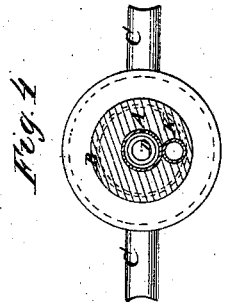
CENTER SLIDING GASALIER.

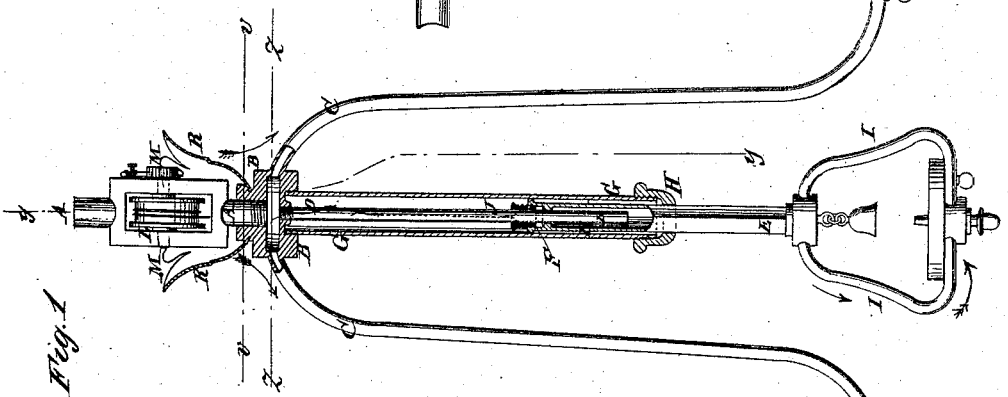
No. 184,120. Patented Nov. 7. 1876.

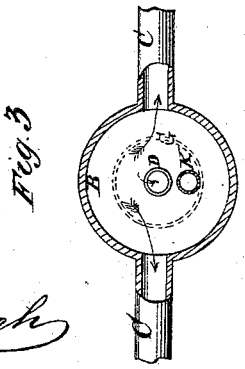












WITNESSES:

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UNITED STATES PATENT OFFICE.

SAMUEL B. H. VANCE, OF NEW YORK, N. Y., ASSIGNOR TO MITCHELL, VANCE & CO., OF SAME PLACE.

IMPROVEMENT IN CENTER SLIDING GASALIERS.

Specification forming part of Letters Patent No. **184,120**, dated November 7, 1876; application filed October 7, 1876.

To all whom it may concern:

Be it known that I, SAMUEL B. H. VANCE, of the city, county, and State of New York, have invented a new and useful Improvement in Center Sliding Gasalier, of which the following is a specification:

Figure 1 is a side view of my improved gasalier, partly in section through the line *x x*, Fig. 2. Fig. 2 is a view of the same turned one-quarter around, and partly in section through the line *y y*, Fig. 1. Fig. 3 is a horizontal section of the same, taken through the line *z z*, Fig. 1. Fig. 4 is a horizontal section of the same, taken through the line *v v*, Fig. 1. Fig. 5 is a detail view, showing the pawl, ratchet, and spring-drum enlarged. Fig. 6 is a detail section of the spring-drum enlarged.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish improved center sliding gasaliers which shall be simple in construction, inexpensive in manufacture, and not liable to get out of order, and at the same time compact and neat in appearance.

The invention consists in the combination of the cap, the square tube, provided with a stuffing-box at its upper end, the cord, the short tube, the drum, the rod, the spring, and the ratchet and pawl with each other, and with the outer tube, the inner tube, the distributing-chamber, and the inlet-tube, as hereinafter fully described.

A is the tube, the upper end of which is connected with the gas-pipe, and the lower end is connected with a hollow circular block or distributing-chamber, B. In the opposite sides of the block B are formed holes, in which are secured the ends of the tubes C of the side lights. In the center of the bottom of the block B is formed a hole, in which is secured the upper end of a tube, D, the lower end of which is left open. E is a square tube, which slides up and down upon the tube D, and is provided with a stuffing-box, F, at its upper end, to prevent any escape of gas through said upper end around the tube D. The tubes D E are surrounded by a tube, G, the upper end of which is secured to the block B, and upon its lower end is screwed a cap, H. The cap H has a square hole formed through it to receive the square tube E, and prevent it from turning as it is slid up and down. With the lower end of the square tube E are connected the tubes I of the center light.

With this construction the gas passes down through the inner tube D into the square tube E, and thence into the center-light tubes I.

To the upper end of the square tube E is attached the end of a cord, J, which passes up through the space between the tubes D G, through a short tube, K, that passes through the block B, and its upper end is secured to the drum L, the tube K preventing the escape of any gas from the chamber B around the cord J. The drum L revolves upon a rod, M, which works in bearings attached to the lower part of the tube A. N is a spring coiled around the rod M, and the inner end of which is secured to the said rod M. The outer end of the spring N is attached to the drum L.

By this construction, as the center light is drawn down the cord J unwinds from the drum L, which turns the said drum L and coils up the spring N. The tension of the spring N and the weight of the square tube E and its attachments should so nearly balance each other that the center light will be sustained in any position into which it may be adjusted, but may be raised and lowered with ease.

To one end of the rod M is attached a ratchet-wheel, O, with the teeth of which engages the pawl P, which is pivoted to the tube A, and is held down upon the said ratchet-wheel O by a spring, Q, also attached to the tube A.

The end of the rod M is slotted to receive the end of a screw-driver, so that it may be turned forward to increase the tension of the spring N, and, by raising the pawl P, may be allowed to turn back to lessen said tension, thus enabling the tension of the spring to be adjusted as required.

To the block B is attached an ornamental cup, R, to hide the drum L and its attachments, and to give a finish to the gasalier.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the cap H, the square tube E, provided with a stuffing-box at its upper end, the cord J, the short tube K, the drum L, the rod M, the spring N, and the ratchet and pawl O P Q with each other, and with the outer tube G, the inner tube D, the distributing-chamber B, and the inlet-tube A, substantially as herein shown and described.

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Witnesses:
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