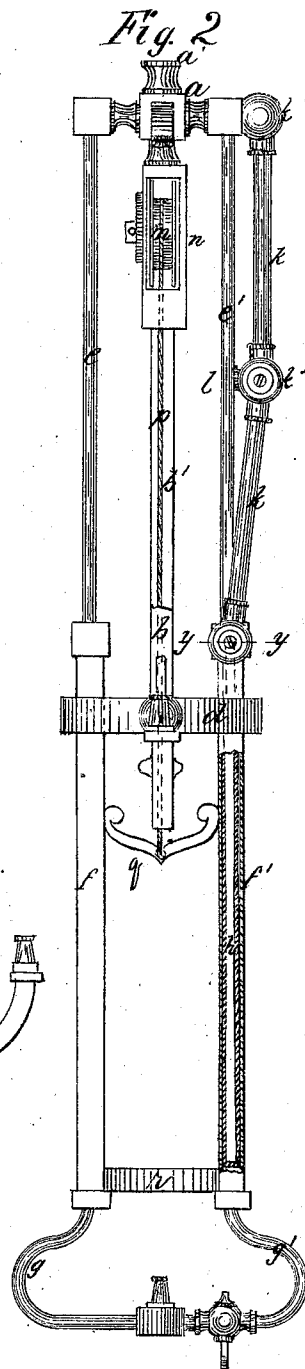
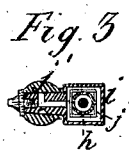
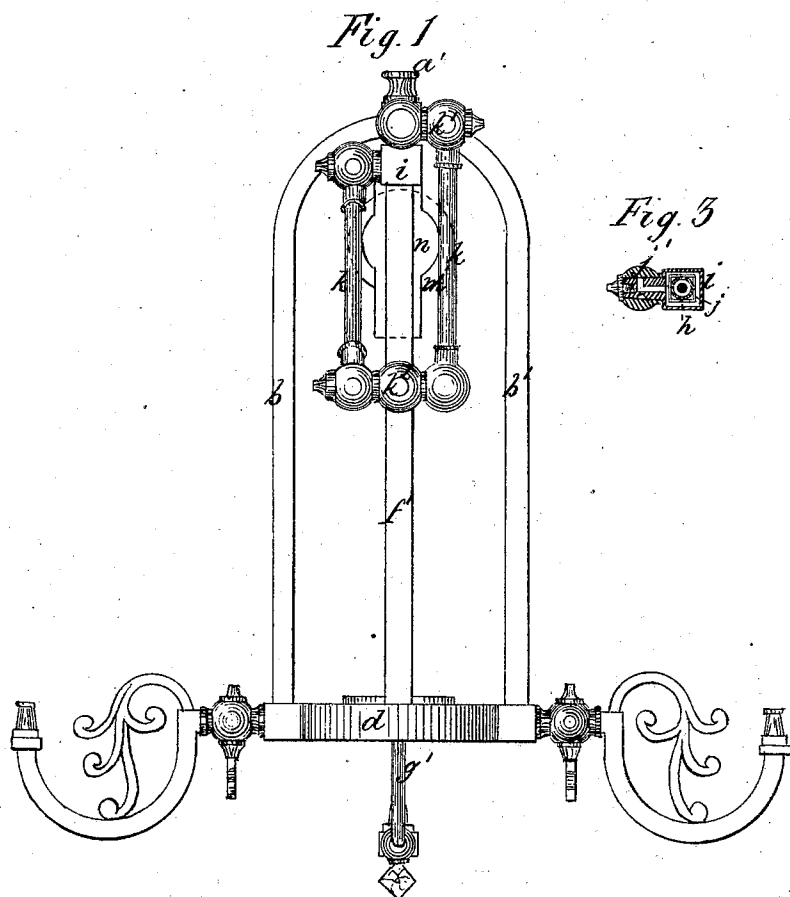


John H. Seaman's Imp^{ts} in Gasaliers.

PATENTED JUN 27 1871

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Witnesses

Wm. J. Lett

Adam C. Ellis

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Inventor.

W. J. Lett
att.

UNITED STATES PATENT OFFICE.

JOHN H. SEAMAN, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN GASALIERS.

Specification forming part of Letters Patent No. 116,360, dated June 27, 1871.

To all whom it may concern:

Be it known that I, JOHN H. SEAMAN, of the city of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Gasaliers or Chandeliers for Burning Gas; and I do hereby declare that the following is a correct description thereof, reference being had to the annexed drawing and to the letters of reference thereon.

My invention relates to pendants or chandeliers for burning gas that are suspended in a fixed position, and have an open center occupied by a center drop-light, which may be drawn down at pleasure. My invention consists of certain new and useful combinations of devices whereby I avoid the disadvantages of former central water-sealed or otherwise packed sliding joints of the central drop-light, and also dispense with the lazy-tongs arrangement of pipes that has been used to secure an extensible metallic gas-connection with the central drop-burner, all of which contrivances are injuriously affected by the heat of the drop-burner.

In my improved central drop-light pendant or chandelier I use a vertical sliding pipe of peculiar construction, and placed at one side of the central part of the chandelier, so that it cannot be heated by the drop gas-burner. This sliding pipe slides upon a fixed guide projecting downward from the upper part of the chandelier, but which forms no part of the gas-way, and is received within a sheath or internal guide, which is suspended within the sliding pipe, but cut off entirely from its gas-way, the gas-way of the sliding pipe being connected with the gas center of the chandelier by a folding pipe jointed in the middle and at the connecting ends, so as to permit of moving the central drop-light up or down as required, the weight of the drop-light being counterbalanced by a spring barrel and cord or other suitable counterbalance.

The first part of my invention consists in combination and arrangement of a fixed chandelier with a central drop-burner by means of sliding pipe having a gas-way connected with the drop-burner, an internal guide in said slide-pipe cut off entirely from the gas-way, and a vertical fixed guide-rod attached to the upper part of the fixed chandelier. My invention further consists in combining, with the central drop-burner of a chandelier, a folding gas-pipe connection, a slide-pipe

with an internal guide, which is cut off from the gas-way, and a fixed guide, the whole constructed and arranged substantially as hereinafter described.

Figure 1 of the drawing represents a front elevation of a pendant with an open center occupied by a drop-light constructed in accordance with my invention. Fig. 2, a side view of the same, partly in section, showing the drop-light drawn down; Fig. 3, a section of the cap of the sliding pipe through which the gas passes to the burner, the section being taken through the dotted lines *y y*, Fig. 2.

a represents a T-connection, to be screwed to the supply-pipe in the ceiling by the stiff screw-joint *a'*. *b b'* are side pipes of the T-connection, which extend downward to and support the two branches *c c* of the pendant. These branches are connected by a ring, *d*, which may be a hollow pipe, and connected with the gas-way of the side pipes if it is desired to have more than two branches; Two parallel guide-rods, *e e'*, project downward from the T-piece *a* to form the guides for the central drop-light. These guide-rods are preferably of round pipe for lightness of construction, but otherwise may as well be solid, as they form no part of the gas-way of the drop-light. Upon these guides are two sliding pipes, *f f'*, connected with the drop-light burner by the bent pipes *g g'*. I use two sliding pipes for the sake of uniformity in the design and to obtain a more perfect guide, but only one of the sliding pipes, *f'*, and the pipe *g'*, connecting therewith, furnishes the gas-way to the burner. The sliding pipe *f'* has suspended within it a guide-pipe, *h*, of sufficient size to receive freely the fixed guide *e'*, and hermetically sealed at the bottom to prevent the gas from passing upward through it. The inner guide-pipe and outer pipe are united together at their upper ends by a cap, *i*, which covers the space between the two pipes and leaves the end of the inner pipe open to receive the guide-rod *e'*. A chamber, *j*, in the cap connects the gas-way between the inner and outer pipes of the slide-pipe with the plug-joint *j'* of the folding pipe *k*, which connects at its other end with the gas-way of the T-connection by another plug-joint, *k'*. The folding joint *k'* of the folding pipe *k* should be near the middle thereof, and should be provided with a stop, *l*, to prevent its joints being brought in line so as to impede the move-

ment of the drop-light. The other slide, *f*, may be constructed internally in any manner to slide upon the guide. It may have an internal guide-pipe and a folding connection if desired, but it is not necessary. The gas-way of the slide-pipe *f'* is the annulus or space or spaces between the internal guide-pipe *h* and the outside pipe *f'*, the latter, as shown in the drawing, being made of square piping; but both pipes may be made of round piping if desired. The spring barrel *m*, used to counterbalance the weight of the sliding parts, is placed in a frame, *n*, attached to the under side of the T-connection *a*, the cord *p*, connected with the pulley, being connected with a cross-brace, *q*, which braces the two sliding pipes, and, with the assistance of the ring-brace *r*, between said pipes, near their lower end, maintains their parallelism.

I claim as my invention and improvement in gasaliers or chandeliers which have a central drop-light—

1. In combination with the central drop-light, the sliding side pipe, with its internal guide cut off from the gas-way, and a fixed guide projecting downward from the fixed upper part of the fixed chandelier, from which the fixed branches depend, but which forms no part of the gas-way, substantially as described.

2. In combination with the central drop-burner of a chandelier for burning gas and the chandelier, the folding gas-pipe connection, the slide-pipe with its internal guide, and the fixed guide, substantially as described.

Witnesses:

JOHN H. SEAMAN.

ARTHUR D. WILLIAMS,
WM. F. LETT.