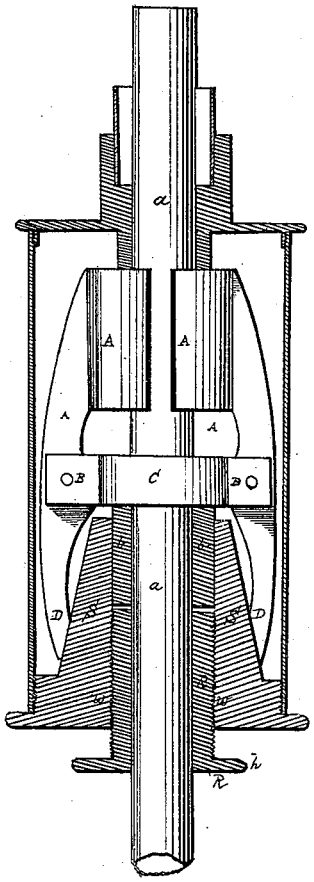
W. H. SHEPPARD.

Extension Slide for Gas-Fixtures.

No. 207,687. Patented Sept. 3, 1878.



Witnesses:
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UNITED STATES PATENT OFFICE.

WILLIAM H. SHEPPARD, OF NEW YORK, N. Y.

IMPROVEMENT IN EXTENSION-SLIDES FOR GAS-FIXTURES.

Specification forming part of Letters Patent No. **207,687**, dated September 3, 1878; application filed March 26, 1878.

To all whom it may concern:

Be it known that I, WILLIAM H. SHEPPARD, of the city, county, and State of New York, have invented, made, and applied to use Improvements in the Construction of Retainers for Extension-Tubes for Gas-Fixtures; and I do hereby declare the following is a full and exact description thereof, reference being had to the accompanying drawing—longitudinal sectional view—and to the letters of reference marked thereon.

The nature of the present invention, consisting in improvements, as above stated and hereinafter more fully set forth, in the construction of retainers for extension-tubes of gas-fixtures, relates to ready and efficient means for holding the extension-tubes of gas-fixtures in position at any point desired.

The construction and operation are as follows:

a a show a brass tube, which may be provided at its lower end with a harp, containing a shade and Argand burner of a drop-light, to the upper end of which may be attached a stuffing-box. In the tube *a a* is a smaller-sized tube, which supplies gas to the drop-light, the stuffing-box rendering both tubes gas-tight.

When desired that the tube *a a* shall be drawn down, gas being thereby at the same time supplied to the drop-light, the tube is held in position at any point desired by lever-clutches, (marked A A,) which are lined with felt or any other friction material, working on fulcrums, (marked B B,) which are attached to a ring, C, having a hub, *b b*, below, passing partly through a cone, S, meeting a regulator, R, which governs the tension by screwing or unscrewing.

When the tube *a a* is pulled down, it causes the lower end of the lever-clutches D D to strike the cone S; this creates the tension. By pushing up the tube *a a*, the lower end of the lever-clutches D D are raised on the cone S, which spreads the clutches A A, thereby relieving it (*a a*) of friction. The regulator R consists of a screw, W, with a beaded head, *h*, screwing into the lower portion of the cone S, and coming in contact with the hub *b b*, raising or lowering the same, as desired, either to tighten or loosen the tension.

Having now set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of two or more lever-clutches, A A, with the cone S and regulator R, as and for the purpose described.

In witness whereof I have hereunto set my hand this 25th day of March, 1878.

WILLIAM H. SHEPPARD.

Witnesses:
ARNO R. DOUAI,
J. C. DAVIS.