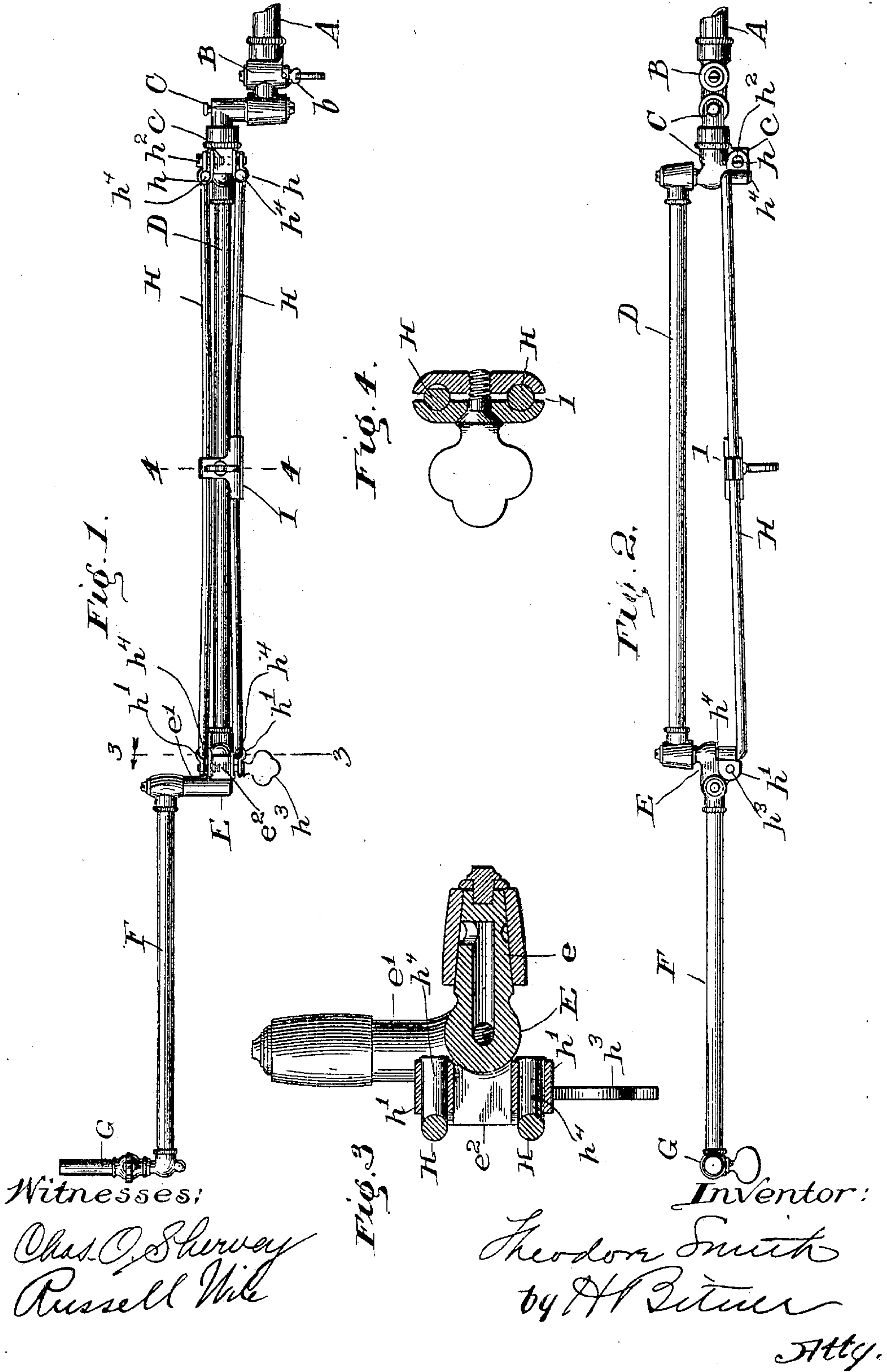


No. 798,631.

PATENTED SEPT. 5, 1905.

T. SMITH.
GAS BRACKET.

APPLICATION FILED DEC. 22, 1903



UNITED STATES PATENT OFFICE.

THEODORE SMITH, OF CHICAGO, ILLINOIS.

GAS-BRACKET.

No. 798,631.

Specification of Letters Patent.

Patented Sept. 5, 1905.

Application filed December 22, 1903. Serial No. 186,227.

To all whom it may concern:

Be it known that I, THEODORE SMITH, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Gas-Brackets, of which the following is a specification.

My invention relates to certain new and useful improvements in gas-brackets; and its object is to produce a device of this class which shall have certain advantages which will appear fully and at large in the course of this specification.

To this end my invention consists in certain novel features of construction which are fully illustrated in the accompanying drawings and described in this specification.

In the aforesaid drawings, Figure 1 is a side elevation of my improved bracket. Fig. 2 is a top plan of the same. Fig. 3 is a section in the line 3 3 of Fig. 1 looking in the direction of the arrow, and Fig. 4 is a section in the line 4 4 of Fig. 1.

Referring to the drawings, A is a gas-supply pipe of the ordinary form, to which is secured a member B, having a cock *b* of the ordinary form. At the end of the member B is swiveled an elbow C, rotatable in a horizontal plane, and to the end of this elbow is swiveled a pipe D, movable in a vertical plane with respect to the elbow C, and consequently universally movable with respect to the supporting pipe and member B. The elbow C has also a laterally-extending squared block *c*. At the opposite end of the pipe D from the elbow C is swiveled a member E. This member E has a laterally-extending portion *e*, which connects with the pipe D, a vertically-extending hollow post *e'*, and a laterally-extending squared block *e''*. To the upper end of the hollow post *e'* is swiveled a pipe F, which bears at its end a gas-burner G of the ordinary form.

The various parts of the structure so far described are hollow, and the central perforations of all of the parts are in connection after the manner of the members of an ordinary gas-fixture, so that gas can flow freely from the pipe A through the fixture and out of the burner G in whatever position the parts may be placed.

Secured to the upper and lower surfaces of the two laterally-extending square blocks *c* *e''* on the elbow C and member E are bent clips *h* *h'* on the said members, respectively, the clips on the block *c* being held in place by a

thumb-screw *h''* and those on the block *e''* being held in place by a screw *h'''*. Two parallel rods H, having their ends *h¹* bent at right angles to their length, extend from the block *c* to the block *e''*, the ends of said parallel rods being embraced and held in place by the above-mentioned clips. These rods, it will be seen, cause a parallel movement between the blocks *c* *e*, and consequently keep the pipe F horizontal, whatever the angular position of the pipe D may be. These rods are embraced at their center by a clamp I of the form particularly described in my Letters Patent No. 706,122, and for the reasons fully set forth in my application for a reissue of said patent filed on even date herewith, Serial No. 186,263, these rods are made of equal flexibility.

It is to be noted that the pivotal points of the rods H H and the pipe D, upon the members C E, are arranged in the same vertical planes and that the pivots of the pipe are arranged symmetrically between the corresponding pivots of the rods. I find that such an arrangement is essential to preserving a perfect parallel movement between the two blocks C E when one of the three connecting portions is of greater stiffness than the others, and the two other members shorten when moved on account of my peculiar clamp arrangement.

I realize that considerable variation is possible in the details of this construction without departing from the spirit of the invention, and I therefore do not intend to limit myself to the specific form herein shown and described.

I claim as new and desire to secure by Letters Patent—

1. In a gas-bracket, two members vertically movable with respect to one another, a comparatively stiff pipe pivoted to said members, two equally-flexible rods of greater flexibility than the said pipe also pivoted to said members, the pivotal points of the pipe and rods upon the members being in the same plane, and the pivots of the rods being symmetrically spaced upon opposite sides of the pivots of the pipe, and a clamp embracing said rods between their ends and arranged to lock the same against relative longitudinal movement.

2. In a gas-bracket, the combination with two members vertically movable with respect to each other, of three connecting members pivoted to said first-named members, a clamp embracing two of said members between their ends, the pivotal points of said three connect-

ing members upon the first-named members being arranged in the same vertical planes, and the pivots of the members embraced by the clamp being symmetrically arranged upon
5 the opposite sides of the pivots of the third member.

3. In a device of the class described, the combination with two blocks, one arranged to be moved vertically with respect to the other,
10 of two equally-flexible parallel rods connecting said blocks and a clamp for said rods arranged to grasp them between their ends to prevent longitudinal movement.

4. In a device of the class described, the
15 combination with two blocks arranged to move

vertically with respect to each other, of two equally-flexible parallel rods connecting said blocks and a clamp secured against longitudinal movement between the ends of one of said rods arranged to grasp the other rod to pre- 20 vent longitudinal movement of said rods with respect to each other.

In witness whereof I have signed the above application for Letters Patent, at Chicago, in the county of Cook and State of Illinois, this 25 8th day of December, A. D. 1903.

THEODORE SMITH.

Witnesses:

CHAS. O. SHERVEY,
RUSSELL WILES.