

(90.)

SIMON W. FRANCE.
Street Gas Lamp Post.

No. 121,456.

Patented Dec. 5, 1871.

Fig. 1.

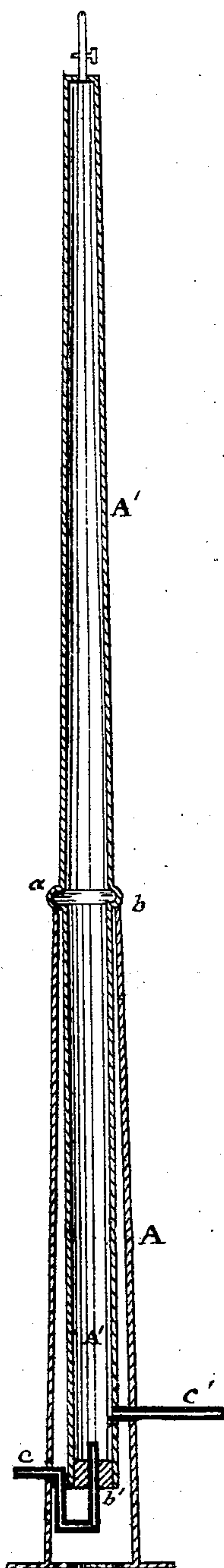


Fig. 3.

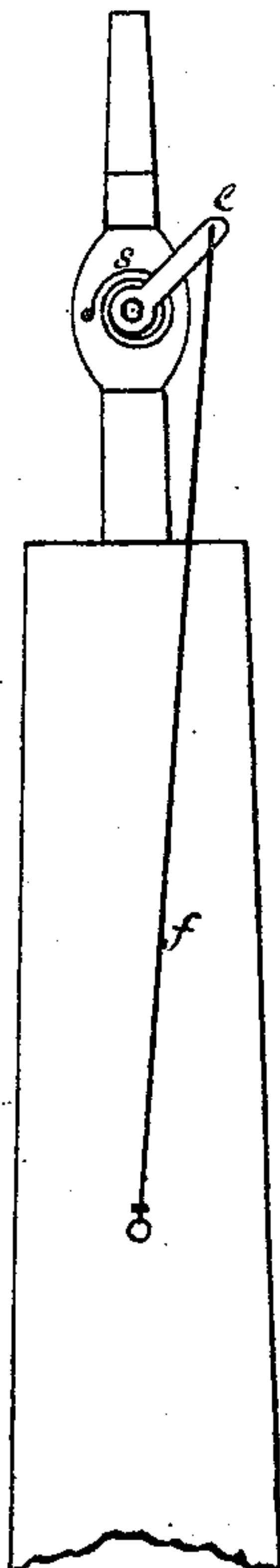
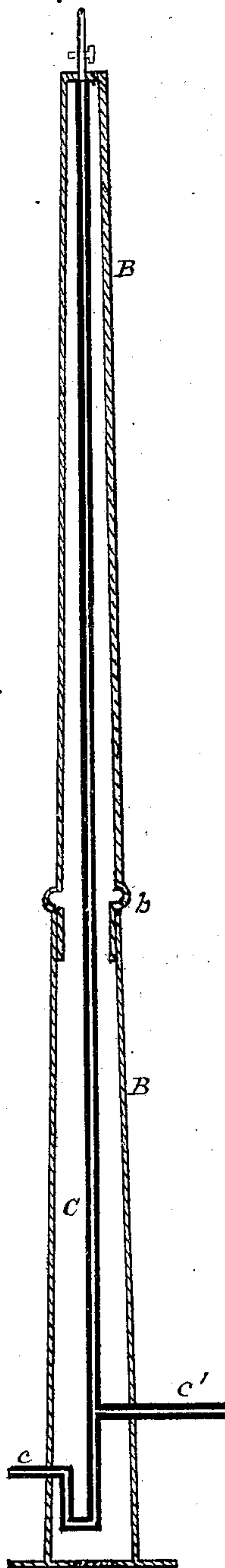


Fig. 2.



Witnesses

J. L. Coombs
J. J. Coombs

Inventor

S. W. France

UNITED STATES PATENT OFFICE.

SIMON W. FRANCE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN STREET GAS-LAMP POSTS.

Specification forming part of Letters Patent No. 121,456, dated December 5, 1871.

To all whom it may concern:

Be it known that I, SIMON W. FRANCE, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Street Gas-Lamp Posts; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing.

My invention consists of two parts, to wit:

First, in attaching to the lower end of the gas-conducting pipe a bent discharge-pipe that will carry off all the drippings or water of condensation that will be formed in said pipe, without allowing any escape of gas through the same. Second, in a device for conveniently opening and closing the cock which regulates the flow of gas to the burner, as herein shown and described.

In the accompanying drawing, Figure 1 is a vertical section of a lamp-post containing the first part of my invention. Fig. 2 is a vertical section of a lamp-post made according to the old construction, with the said first part of my invention applied to it; and Fig. 3 shows the upper portion of a lamp-post with the second part of my invention applied to it.

In Fig. 1, A is the post, which extends up to the point *b*. A' is the gas-conducting pipe, which is inserted into the post A, having an annular shoulder at *a* to support it at the proper elevation on the post. The lower end of the pipe A' is closed by a plug, *b'*, through which a discharge-pipe, *c*, is inserted, and this discharge-pipe is so bent in U-form that, while it will carry off all the liquid drippings, it operates as a trap to prevent the escape of gas. The induction-pipe *c'* should enter the pipe A' a short distance above its closed lower end, as shown. Fig. 2 shows a post of the old construction, consisting of a hollow cast-iron post, B, inclosing a gas-conducting pipe, C. The lower end of this pipe C, below the induction-pipe *c'*, is bent into U-form, constituting a trap discharge-pipe, as hereinbefore described. Said discharge-pipe may be a separate pipe

screwed onto or into the lower end of the gas-pipe C. In Fig. 3, *e* is a lever attached to the cock which regulates the flow of gas. *f* is a cord to operate said lever. *s* is a spring attached to the post and to the lever, so as to close the cock when not held open by the cord. The lower end of the cord is provided with a catch to engage with a rack or pins on the post, and easily detachable. When it is desired to open the cock and allow the gas to flow through the burner, the cord is drawn down so as to open the cock, and its lower end secured to the post by any suitable means. When it is desired to shut off the gas the cord is detached from the post, or so slackened that the spring *s* will turn the cock and close it. Another way of applying my invention to a post of the old construction, made in two parts, connected at *b*, as shown in Fig. 2, is as follows: I insert a large cast-iron pipe in the lower section, like that part of the pipe shown in Fig. 1 below *b*, and secure the upper end gas-tight in the post by any suitable solder or cement. I then insert a small malleable pipe in the top of the upper section, making the upper section of said post the gas-conductor, and insert my bent discharge-pipe in the lower end of the lower section, as shown in Fig. 1. I thus have a large gas-conducting pipe from the induction-pipe to the burner, similar in effect to that shown in Fig. 1, with but a slight and inexpensive change in the old post.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In combination with a lamp-post constructed substantially according to either of the forms herein described, the bent-discharge-pipe *c*, to carry off the drippings without permitting the escape of gas, substantially as shown and described.

2. The lever *e*, cord *f*, and spring *s*, substantially as and for the purpose described.

Witnesses:

S. W. FRANCE.

JOS. L. COOMBS,

J. J. COOMBS.