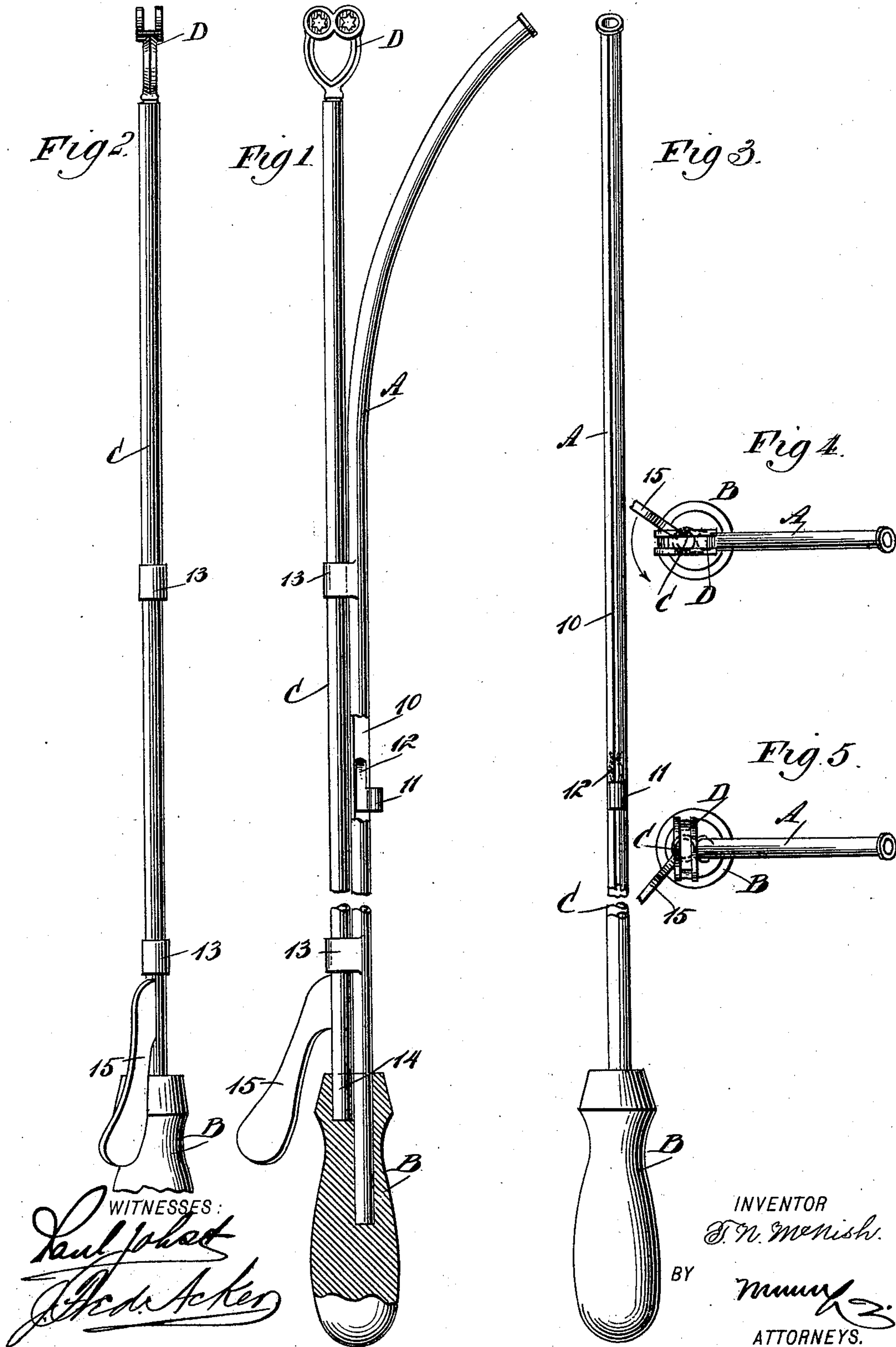


(No Model.)

T. N. MCNISH.  
GAS LIGHTER.

No. 602,351.

Patented Apr. 12, 1898.



# UNITED STATES PATENT OFFICE.

THOMAS NORRIS McNISH, OF KEARNY, NEW JERSEY.

## GAS-LIGHTER.

SPECIFICATION forming part of Letters Patent No. 602,351, dated April 12, 1898.

Application filed July 31, 1897. Serial No. 646,584. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS NORRIS McNISH, of Kearny, in the county of Hudson and State of New Jersey, have invented a new and Improved Gas-Lighter, of which the following is a full, clear, and exact description.

The object of the invention is to provide a gas-lighter through the medium of which gas may be turned on and lighted without danger of marring or in any manner injuring any ornamental work that may be on the fixture adjacent to the burner or adjacent to the gas-cock of the burner.

Another object of the invention is to provide a hand gas-lighter in which a stationary taper-receiving tube will be provided, together with a revoluble key independent of the taper-carrying tube and capable of being manipulated by the thumb of the hand grasping the handle of the device.

A further object of the invention is to construct a gas-lighter of the character above described in a simple, durable, and economic manner.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improved device, the handle being in section and a part of the taper-carrying tube being broken away. Fig. 2 is a rear edge view of the device. Fig. 3 is a front edge view thereof. Fig. 4 is a plan view of the device, illustrating the key in its normal position; and Fig. 5 is likewise a plan view of the device, illustrating the key in the position it occupies after said key has been turned for the purpose of supplying gas to the burner-tip.

The taper-receiving tube A is secured in a handle B in a rigid manner. The said taper-receiving tube is shown as provided with the usual longitudinal slot 10, in which slot the handle 11 of the taper-receiving clamp 12 has movement. A series of bearings 13 is secured to the taper-carrying tube A, the said bearings receiving a key-rod C, the lower end 14

of which key-rod is held to turn in any suitable or approved manner in the handle B, so that the lower portion of the key-rod may be suitably guided.

At the upper end of the key-rod C a key D is formed, which may be of the usual or of any approved construction. The key-rod C is operated, preferably, through the medium of the thumb-piece 15, which is secured to said rod near the handle, and the thumb-piece extends downwardly adjacent to the handle, occupying such a position that when the handle is grasped by the hand the thumb, combined with the forefinger, if necessary, may be brought to bear upon the thumb-piece 15 in a manner to revolve the key-rod sufficiently to turn on or to shut off the gas from the burner-tip.

When the ordinary gas-lighter is used to light the gas at a chandelier decorated with fretwork, foliated figures, or the like, the decorations of said chandelier are frequently marred by reason of the flame of the taper being brought in contact with the decorations while the operator is endeavoring to fit the key on the cock, especially when the entire device is being turned for the purpose of turning on the gas. Under the construction shown in the drawings it is evident that the flame from the taper may be directed to a convenient opening in the fretwork or ornamentation for the chandelier or burner and so held that danger of marring the fixture while the key is fitted to the gas-cock and the said cock turned is obviated, since the said key-rod can be revolved in direction to turn on or to shut off the gas without moving the taper or lighter from the position in which it may have been placed.

In Fig. 4 I have illustrated the normal position of the key, and in Fig. 5 the key is shown in the position it will sustain after it has been turned for the purpose of supplying gas to the burner-tip.

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

1. A gas-lighter, comprising an igniting-tube having a handle at one end and provided with external bearings, and a rod mounted to turn in the bearings of the ignit-



ing-tube and provided with a key at its upper end and a thumb-piece at its lower end said thumb-piece extending downwardly adjacent to the handle of the igniting-tube, substantially as described.

2. In a gas-lighter, the combination, with a handle, and an igniting-tube secured to the said handle, of a rod held to turn in guides carried by the igniting-tube and also held to turn

in the said handle, a key attached to the upper end of said rod, and a thumb-piece extending from the lower end of the key-rod adjacent to said handle, for the purpose specified.

THOMAS NORRIS McNISH.

Witnesses:

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