(No Model.)

E. J. STOLTZ.

GAS COCK.

No. 509,777. Patented Nov. 28, 1893.

Fig. 1.

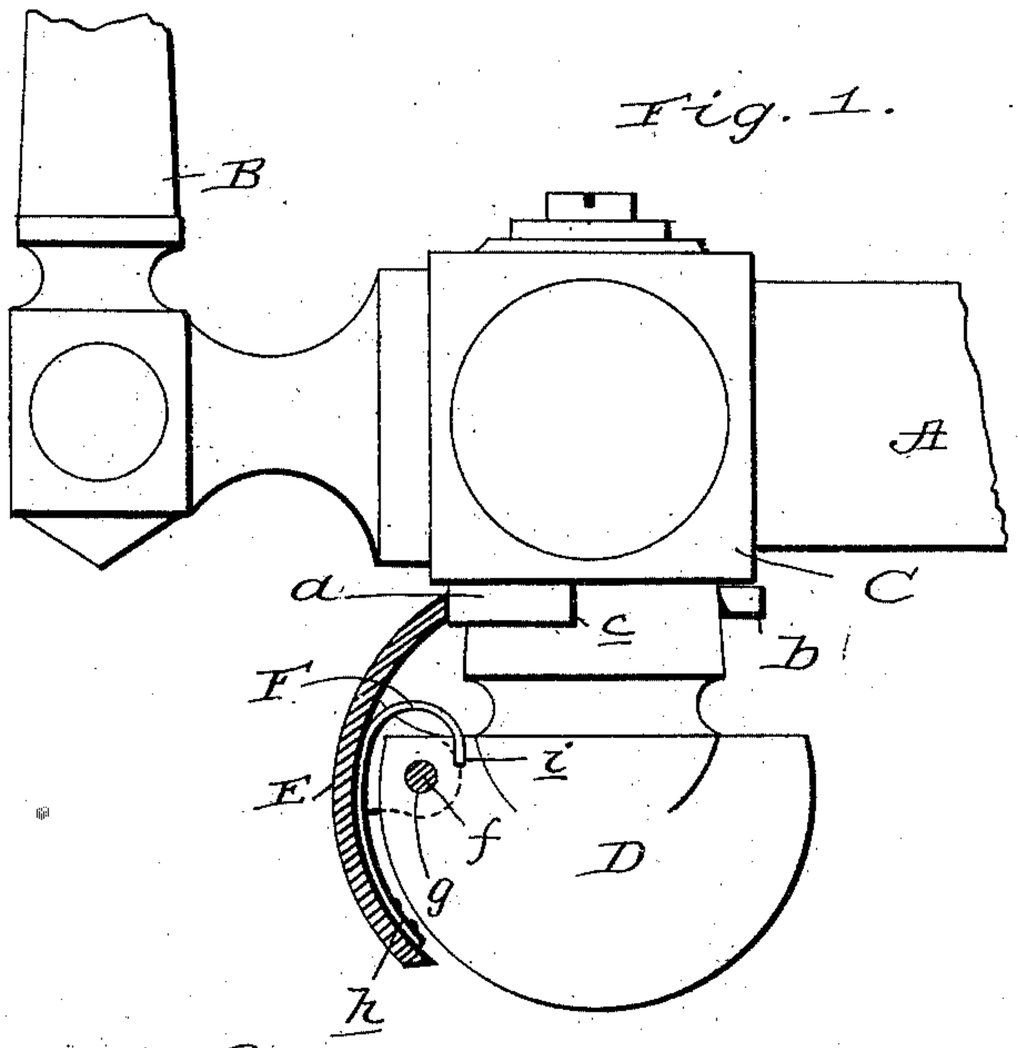


Fig. 2.

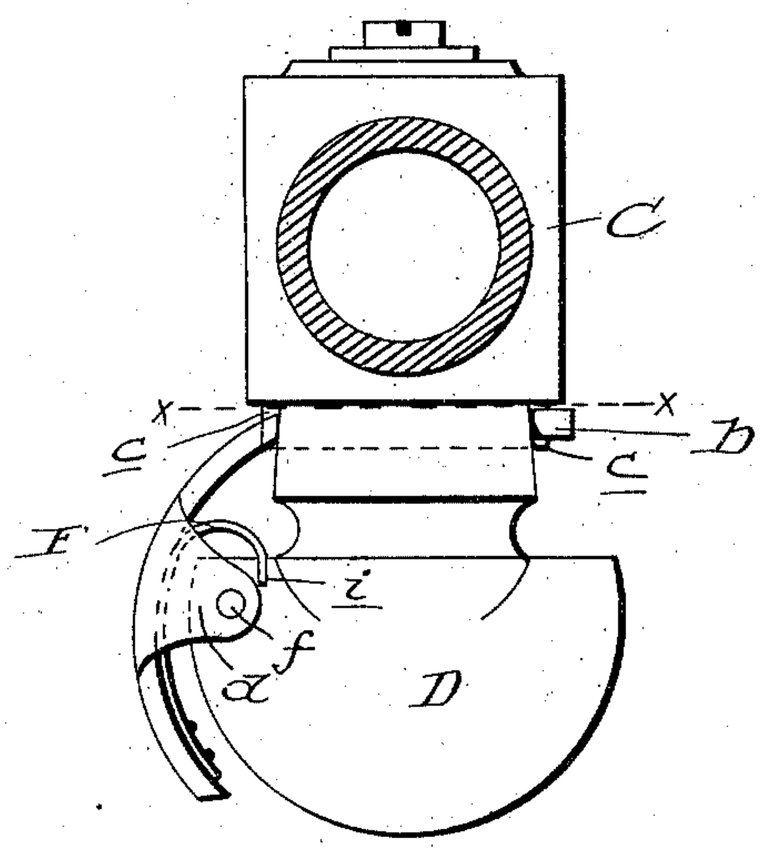
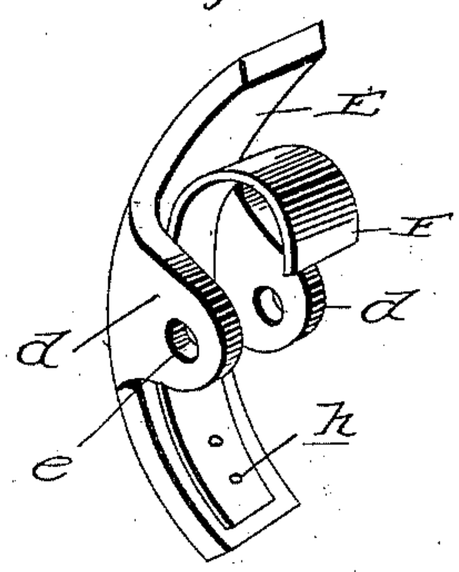


Fig. 3.

Fig. 4.



Witnesses:
C. H. Kreder
R. F. Matthews.

Inventor,
Eugene J. Stoltz
By James J. Shuehy
Attorney.

THE NATIONAL LITHOGRAPHING COMPANY,
WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

EUGENE J. STOLTZ, OF SAN FRANCISCO, CALIFORNIA.

GAS-COCK.

SPECIFICATION forming part of Letters Patent No. 509,777, dated November 28, 1893.

Application filed May 23, 1893. Serial No. 475,288. (No model.)

To all whom it may concern:

Be it known that I, EUGENE J. STOLTZ, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Gas-Cocks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to an improvement in gas keys or cocks, and it has for its object to provide an attachment which may be applied to keys or cocks at present in use without altering their construction in any manner whatever, such attachment being adapted to operate automatically and serve as an absolute safety in checking or shutting off the flow of gas so that many accidents due to the turning on of the gas while not ignited by careless persons, may be obviated.

The invention will be fully understood from the following description and claims when taken in connection with the annexed drawings, in which—

Figure 1, is a side view of a part of a burner and bracket or arm, with my improvements applied and the thumb lever in section, illustrating the parts in the position which they assume when the gas is on. Fig. 2, is an elevation taken in a plane at right angles to Fig. 1, with the bracket or arm in section. Fig. 3, is a sectional view taken in the plane indicated by the dotted line *x*, *x*, on Fig. 2. Fig. 4, is a perspective view of my improved attachment removed.

Referring by letter to said drawings:—A, indicates the arm of a gas burner, which may be that of a side bracket light or a center light, and B, indicates the burner tip, which may be of any ordinary or approved form, as neither of these elements form any part of my invention.

C, indicates the cock or key seat, which may be of the character usually employed, having the usual gas passage, and the depending semi-circular or curvilinear flange *a*, which extends in a plane below the key seat.

D, indicates the key. This key is also mainly of the ordinary form and construction, having a port or passage through it and is provided on one side with a fixed pin or stud *b*, which is designed to limit the inward movement of the key in its seat, and contact with the respective ends *c*, of the depending flange *a*, when the gas passage has been closed.

E, indicates a thumb lever. This lever in the present illustration is shown as composed of a flat piece of material, curved so as to conform as near as possible to the curvature of the key end, that it may lie closely thereto, although it is obvious that the shape may be varied without departing from the spirit of my invention. This finger or thumb lever is provided on its inner side with two parallel lugs *d*, which are perforated as at *e*, to receive a journal pin *f*, which takes through said perforations and through a hole *g*, in the handle portion of the key.

F, indicates a spring, which is here shown as of flat material. This spring is secured at one end to the lower, inner side of the finger or thumb lever E, as shown at *h*, and its upper or opposite end is curved inwardly, and fixed to the key at *i*, so that the spring will exert a constant pressure outwardly against the lower or free end of the lever. The upper end of this lever E, is arranged to bear against and travel over the depending flange of the key seat as shown. By this construction it will be seen that the key is allowed to make but a half turn backward and forward, and the pin or stud *b*, and the upper end of the lever E, are so arranged with respect to each other upon the key that when the pin has been brought to engage the flange of the key seat at one end, the lever will be brought into engagement with the opposite end of said flange, as better shown in Fig. 3 of the drawings so that the key will be absolutely prevented from turning in either direction until the operator releases the thumb lever from engagement with the flange *a*, and I attach importance to the fact that while the key cannot be turned in either direction without first pressing the thumb lever, the improvements can be applied to all burners such as now in use, as it requires no change whatever in the keys or in the key seats or attachment.

The improvements can be made at a very small expense, and are not liable to get out of order.

Having described my invention, what I claim is—

1. The combination with a gas burner, and its key seat, having a curvilinear depending flange as *a*, of a key having a stop as *b*, and a spring actuated thumb or finger lever pivoted on said key and having one end adapted to move over said flange and engage the opposite ends thereof, substantially as specified.

2. The combination with a key seat having a curvilinear flange depending therefrom; of the key having the stop or stud *b*, adapted to engage the opposite ends of said flange, the curved finger or thumb lever pivoted to the key and having one end adapted to move over the flange and also engage the opposite ends thereof, and the spring interposed between the key and the lever so as to normally hold one end of said key against the flange of the key seat, substantially as specified.

EUGENE J. STOLTZ.

Witnesses:
EMANUEL A. LEVY,
THOMAS ROBERT EDWARDS.