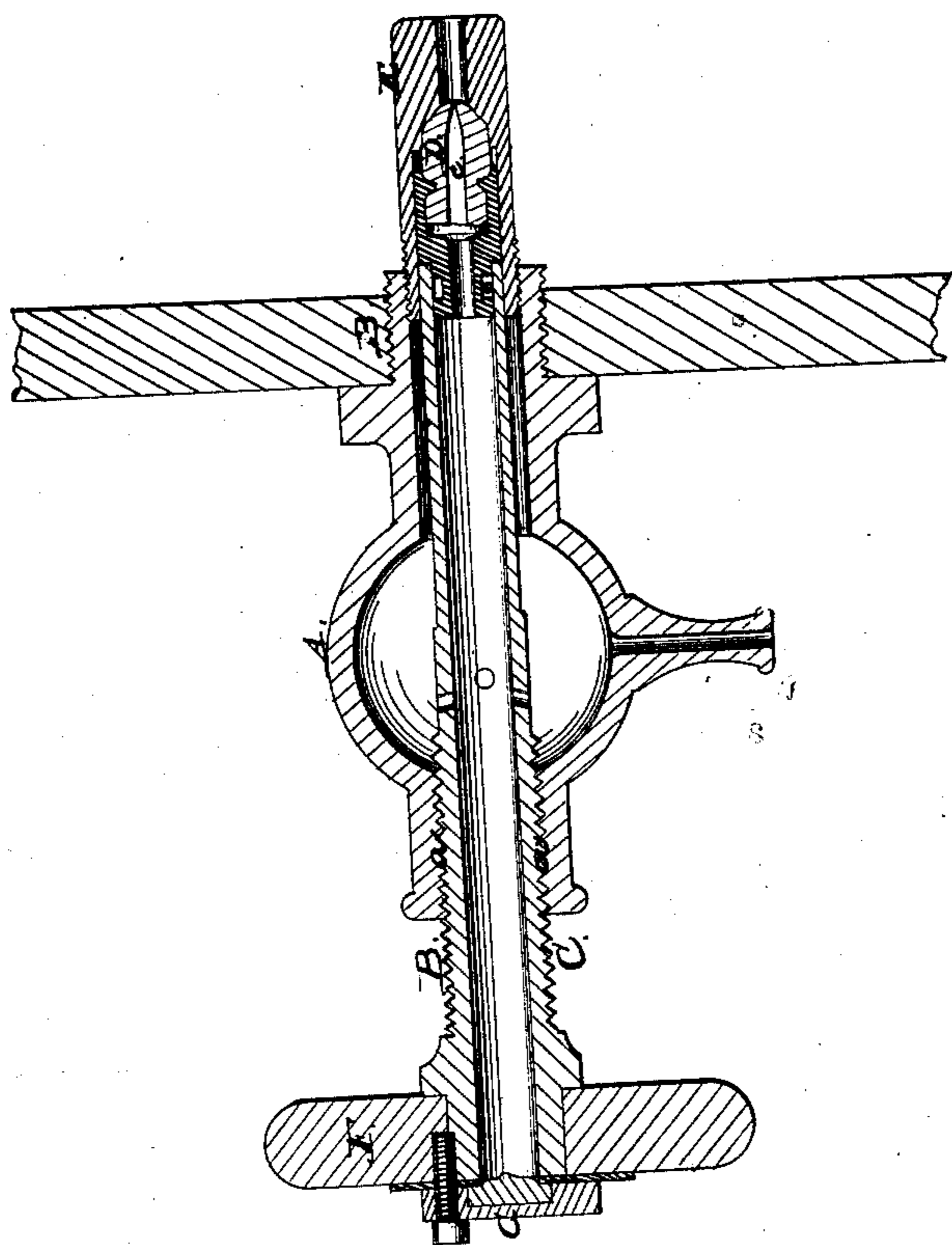


*C. L. Frink,*

*Gage Cock.*

*No 55,640. Patented June 19, 1866.*



*Attest:*  
*W. B. Loring*  
*Jas. A. Service*

*Inventor:*  
*C. L. Frink*  
*Per. Wm. H. Frink*

# UNITED STATES PATENT OFFICE.

C. L. FRINK, OF ROCKVILLE, CONNECTICUT.

## IMPROVEMENT IN GAGE-COCKS.

Specification forming part of Letters Patent No. 55,640, dated June 19, 1866.

*To all whom it may concern:*

Be it known that I, C. L. FRINK, of Rockville, in the county of Tolland and State of Connecticut, have invented a new and Improved Gage-Cock; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

The drawing represents a longitudinal central section of this invention.

This invention consists in the arrangement of an elastic and flexible perforated valve, in combination with the hollow screw-spindle of a gage-cock and with a tapering seat, in such a manner that, by forcing the valve down in its seat, the channel in the same is closed and the escape of water or steam from the interior of the boiler is prevented, and, by moving the valve back from its seat the central channel or passage in the same is opened and the steam or water from the boiler is free to discharge. A gate hinged to the handle of the gage-cock, and packed with india-rubber or other suitable material, turns down and closes the passage through the center of the spindle. If this gate is turned back and the valve is opened, a wire can be passed clear through the spindle and the valve, and the passage leading to the interior of the boiler can be readily and conveniently cleaned.

A represents the body or bulb of my gage-cock, which is provided with a screw-shank, B, to screw into the boiler in the ordinary manner. This bulb and shank are bored out throughout their whole length to receive the spindle C, which is provided with a screw-thread, *a*, to correspond to a thread cut in the outer end of the bulb or body A, so that by turning said spindle the valve D, which is attached to its inner end, is moved toward and from its seat E.

The valve D is composed of a plug of india-rubber or other flexible and elastic material, which is perforated with a central passage, *c*, to correspond to a similar passage in the seat and in the spindle. The seat is formed in a tube which screws in the inner end of the body A, as clearly shown in the drawing, and said seat is tapering, so that the valve, when forced down into it, is compressed, and the central passage in said valve is closed.

A handle or button, F, mounted on the outer end of the spindle C, serves to turn said spindle and to open and close the valve, and a gate, G, which is pivoted to the button F, and which is packed on its inner surface with india-rubber or other suitable material, can be turned down to the position shown in the drawing, so that the same will close the passage through the spindle. When the gate G is turned up and the valve is open a wire can be passed clear through the central passages in the spindle in the valve and in the seat, and all impurities which may accumulate in said passages can be readily cleaned out, so that the gage-cock can be easily kept in good working order.

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

The flexible and elastic valve D, with a central passage, *c*, in combination with the conical seat E, spindle C, adjustable gate G, and body A of a gage-cock, constructed and operating substantially as and for the purpose set forth.

The above specification of my invention signed by me this 2d day of March, 1866.

C. L. FRINK.

Witnesses:

M. M. LIVINGSTON,  
ALEX. F. ROBERTS.