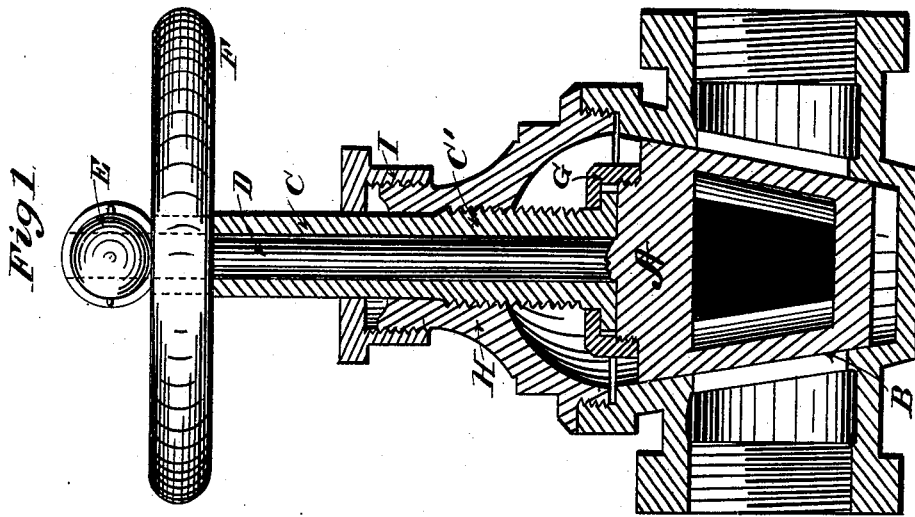
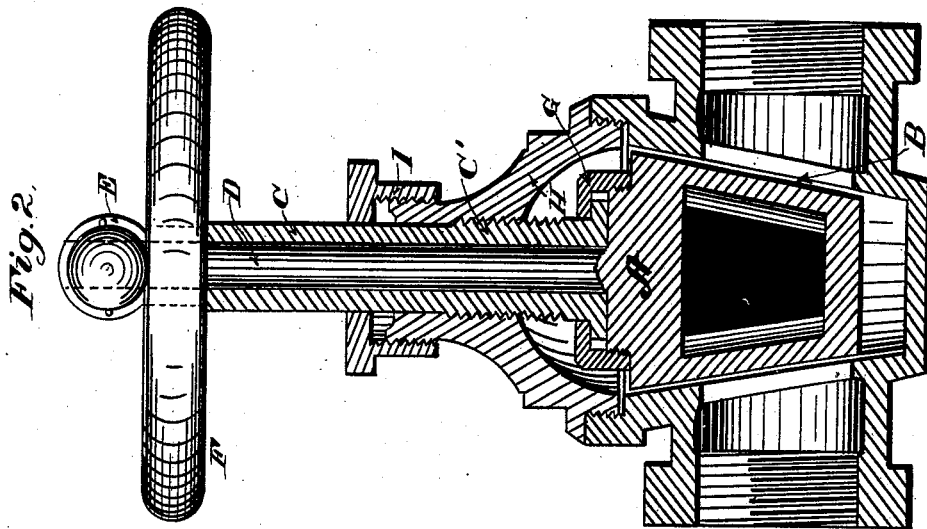


G. STRINGER & T. FRANCIS.
Steam-Valve.

No. 205,007.

Patented June 18, 1878.



Witnesses

E. W. Seymour
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UNITED STATES PATENT OFFICE.

GEORGE STRINGER AND THOMAS FRANCIS, OF ITHACA, NEW YORK.

IMPROVEMENT IN STEAM-VALVES.

Specification forming part of Letters Patent No. **205,007**, dated June 18, 1878; application filed October 31, 1877.

To all whom it may concern:

Be it known that we, GEORGE STRINGER and THOMAS FRANCIS, of Ithaca, in the county of Tompkins and State of New York, have invented certain new and useful Improvements in Steam-Valves; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The object of our invention is a stop cock or valve for steam, gas, or liquids, constructed to operate with the least possible amount of friction, and which may be set and locked in any position.

In the drawings, Figure 1 is a section showing valve pressed down and closed. Fig. 2 is a section showing valve slightly raised.

Its construction is as follows:

A represents the valve, which is perforated for the passage of the liquid, and is formed in the shape of the frustum of a cone. A conical chamber, B, is formed in the pipe for its reception, and constitutes the seat. The upper section of this chamber or seat consists of a tight-fitting cap, H, which is screwed over its top to confine the valve. A sleeve, C, loosely incloses the valve-stem D, and extends up through the cap H, being fitted to its interior by a screw-thread. This sleeve is attached to the valve at its lower end by a collar, G, and is operated by a hand-wheel, F.

The valve is operated by means of its han-

dle E, the sleeve inclosing the stem permitting it to turn easily therein.

I represents the packing-box on the top of cap H.

When the valve is to be operated it is slightly raised from its socket by means of the sleeve C and collar G, and is then readily turned to any position by the handle E with but slight wear or friction, and is forced down and locked, when desired, by turning the wheel F.

It will be observed that the position of the valve is always indicated by the direction of the handle E.

Any wear that occurs to the valve may be compensated by lowering it to correspond therewith by means of the sleeve.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The valve A, in combination with sleeve C, collar G, and cap H, constructed as described, and for the purpose set forth.

2. The combination of the conical valve A, the chamber B, having the upper section or cap H, the sleeve C, collar G, stem D, and valve-handle E, all constructed and combined as and for the purpose specified.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

GEORGE STRINGER.
THOMAS FRANCIS.

Witnesses:

GEO. B. DAVIS,
S. D. HALLIDAY.