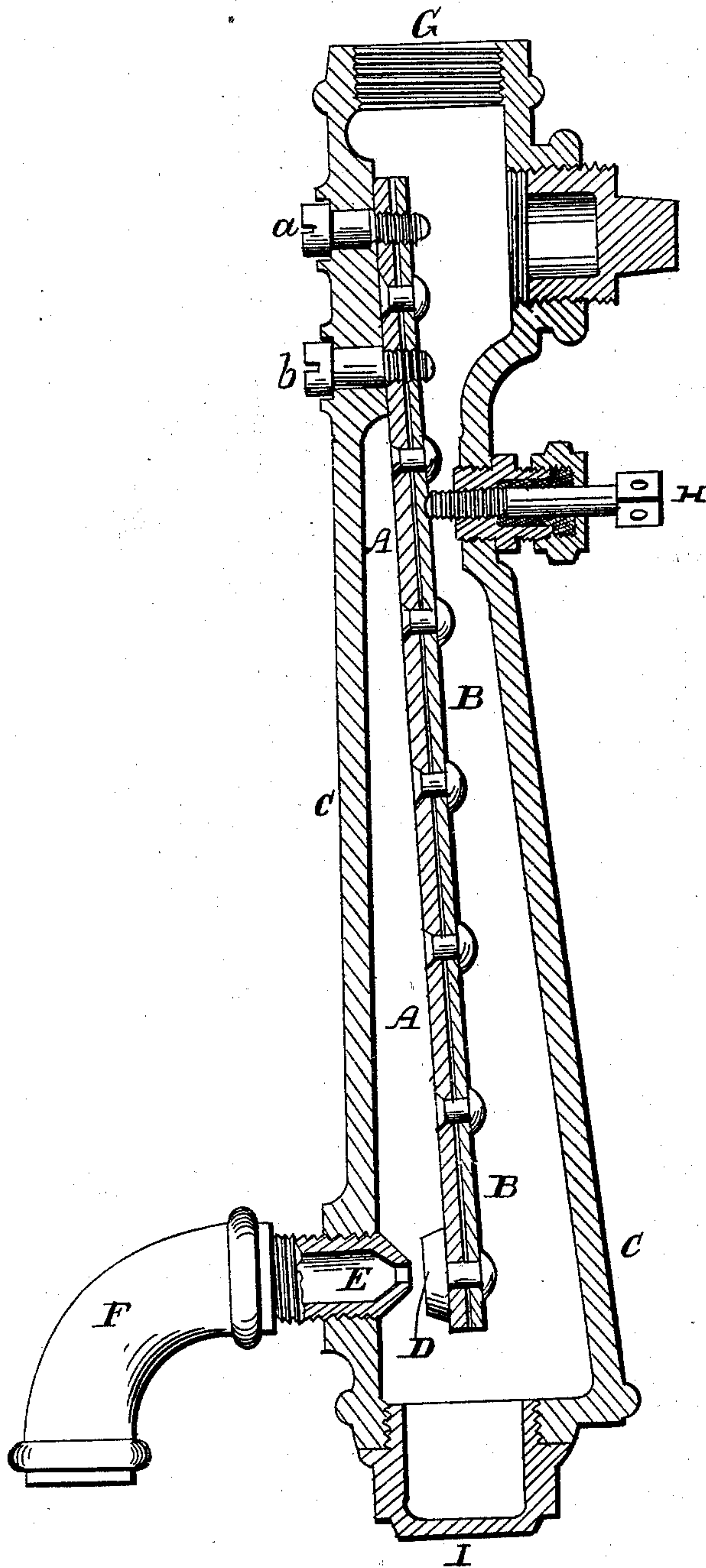


C. A. WILSON.

Thermostat.

No. 80,436.

Patented July 28, 1868.



Witnesses.

James H. Gayman,
Frank Kittward

Inventor.

C. A. Wilson
By Blight Bros. Attys

United States Patent Office.

CHARLES A. WILSON, OF CINCINNATI, OHIO.

Letters Patent No. 80,436, dated July 28, 1868.

IMPROVEMENT IN THERMOSTATS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, CHARLES A. WILSON, of Cincinnati, Hamilton county, State of Ohio, have invented a certain new and useful Improvement in Thermostats; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification.

My invention consists in placing the set-screw, used for adjusting the valve at a given temperature, on the opposite side of the thermostat to that on which the valve-seat is located, for the purpose of preventing the straining or cracking of the steel plate of the thermostat in the action of the set-screw, and also enabling the set-screw to act both to adjust and completely close the valve when desired; the instrument thus being a thermostat and stop-valve combined.

In the accompanying drawing, which is a section of a thermostat embodying my invention, A B are the steel and brass plates, respectively, of the thermostat, properly secured to the outer shell or casing C at *a* and *b*.

D is the valve, and E the valve-seat on the end of the discharge-pipe F.

G is the aperture connecting with the steam-heating apparatus.

H is the adjusting-screw, which serves both to adjust the valve to close at a given temperature, and also to shut the valve entirely, to prevent backward current when desired.

It will be easily understood that the set-screw being located in such a position that its pressure is directed towards the surface on which the plates A B are fastened, there is less liability of straining or cracking the steel plate than when the set-screw is on the opposite side, as seen in my previous patents.

I is a chambered plug, which gives convenience for the collection and removal of sediment.

I claim herein as new, and of my invention—

The adjusting and stop-valve screw H, located on the opposite side of the thermostat-plates to the valve-seat E, as described, and for the purpose specified.

In testimony of which invention, I hereunto set my hand.

CHARLES A. WILSON.

Witnesses:

J. E. M. BOWEN,

JAMES H. LAYMAN.