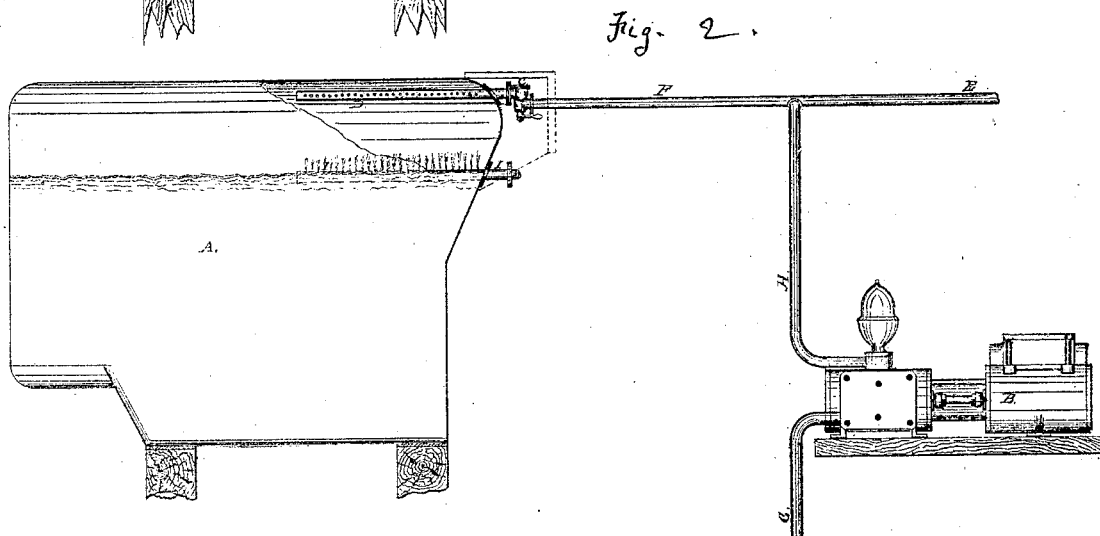
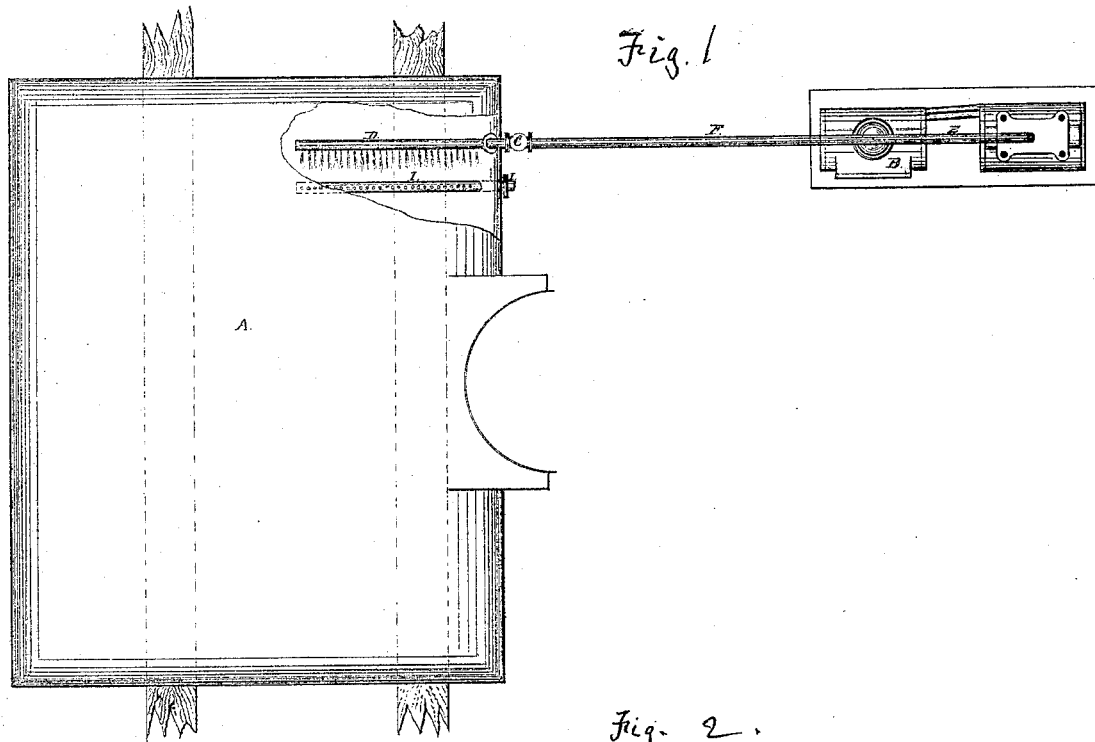


GEORGE SEWELL.
Improvement in the Method of Reducing Pressure
in Steam-Boilers.

No. 114,052.

Patented April 25, 1871.



Witnesses.

James Sheridan
John V. Van Doren

Inventor

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United States Patent Office.

GEORGE SEWELL, OF BROOKLYN, NEW YORK.

Letters Patent No. 114,052, dated April 25, 1871; antedated April 22, 1871

IMPROVEMENT IN THE METHODS OF REDUCING PRESSURE IN STEAM-BOILERS.

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, GEORGE SEWELL, of Brooklyn, in the county of Kings and State of New York, have made a new and useful Method of Reducing Pressure in Steam-Boilers; and I hereby declare the following to be a full and exact description of the same, reference being had to the annexed drawing which forms a part of this specification, in which—

Figure 1 is a plan view.

Figure 2, an elevation, partly in section.

The object of my invention is to prevent the necessity of blowing off steam to reduce excessive pressure in steam-boilers.

This I accomplish by injecting as often as required a jet of cold water into the steam-space of a boiler, thereby reducing the pressure.

As now constructed the blowing off of steam to reduce pressure in the boiler is a necessity.

On shipboard the noise from the blowing off of steam is exceedingly annoying, and for the time being seriously interferes with the giving and receiving of orders.

On river and ferry-boats the unearthly noise frightens horses, besides annoying passengers.

By my invention this nuisance is abated and the necessity of a safety-valve dispensed with.

My invention is shown in the annexed drawing.

A A is the steam-boiler.

B, steam-pump.

C C, a chest containing a common check-valve and cork, the valve being above the cork to prevent the steam from getting to the pump.

D D, pipe for delivering the water into the steam-space of the boiler, either in the form of spray or in a body.

F F, pipe leading water from pump to pipe D D through valve-chest C C.

Instead of passing the water through pipe D D into the steam-space it may enter beneath the surface of the water in the boiler, as shown in pipe I I.

The pipes D D and I I may also be used for supplying feed-water.

The pressure-gauge will always indicate when it is necessary to inject water.

The pressure in the boiler may also be made to operate automatically, at any given pressure, the valve for the introduction of cold water.

Having described my invention,

What I claim, and desire to receive by Letters Patent of the United States, is—

The method of reducing pressure in a steam-boiler, consisting in the introduction of cold water into the steam-space, substantially as set forth.

GEO. SEWELL.

Witnesses:

HENRY H. PRENTISS,

JOHN A. WALLACE.