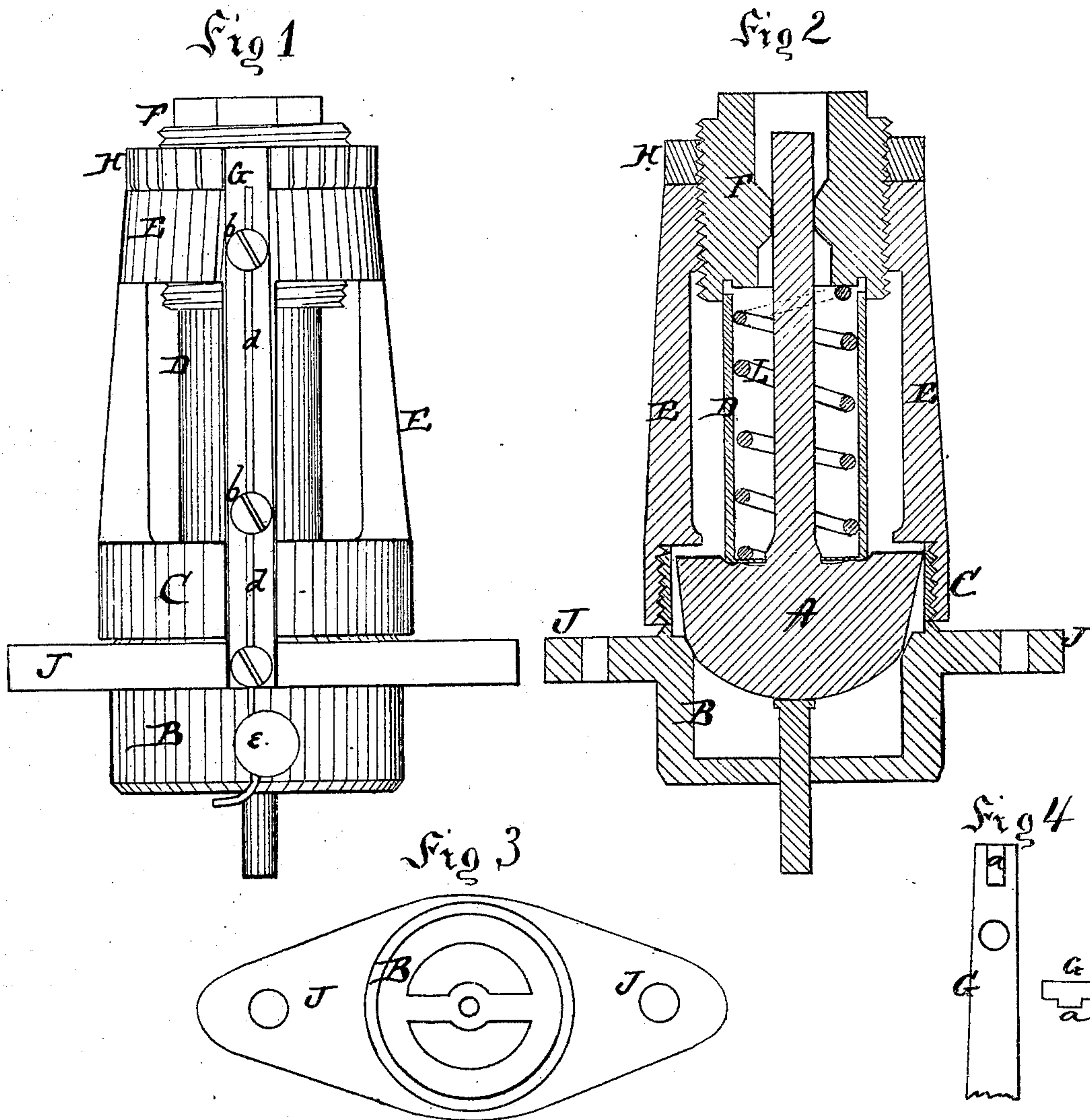


ANDREW J. PRESCOTT.

Improvement in Safety Valves of Steam Boilers.

No. 121,659.

Patented Dec. 5, 1871.



Witnesses:

Frank L. Curran
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Inventor

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UNITED STATES PATENT OFFICE.

ANDREW J. PRESCOTT, OF CATAWISSA, PENNSYLVANIA.

IMPROVEMENT IN SAFETY-VALVES FOR STEAM-BOILERS.

Specification forming part of Letters Patent No. 121,659, dated December 5, 1871.

To all whom it may concern:

Be it known that I, ANDREW J. PRESCOTT, of Catawissa, in the county of Columbia and in the State of Pennsylvania, have invented certain new and useful Improvements in Safety-Valves for Steam-Boilers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a safety-valve for steam-boilers, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view; Fig. 2, a longitudinal vertical section; and Fig. 3, a bottom view of my valve. Figure 4 is a view of the upper end of a locking spring used in my safety-valve.

A represents the valve, constructed as shown, the lower part being ball-shaped and the upper part tapering. This valve is seated in a cup or chamber, B, and over the valve is the concave cap C and cage E combined. The cap C is for the purpose of using the escaped steam to assist to close the valve when the steam falls below the standard amount the valve is set for. The cage E is for the purpose of confining the spring L, which is tightened down by the set-screw F in the upper part of the cage E to any desired amount. Around the spring L is a casing or tube, D, to prevent the steam from blowing on

the same. On the set-screw F is a lock-nut, H, which fastens the set-screw so that it cannot be moved when the catch-spring G is made fast. This spring has on its upper end a projection, *a*, which fits in recesses or notches made in the outer circumference of the lock-nut H, and said spring is fastened to the cup B and cage E by seal-screws *b b*. These screws have holes through their heads for the passage of a wire or twisted wires, *d*, the ends of which are to be connected by a seal, *e*. Thus, when the valve is once set it cannot be changed except by breaking the seal. Around the cup or chamber B is a flange, J, with suitable holes for the purpose of bolting the valve to the boiler.

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

1. The combination of the nut H, notched or recessed on its outer side, the catch-spring G with projection *a*, screws *b b*, wire or wires *d*, and seal *e*, all substantially as and for the purposes herein set forth.

2. The combination of the ball-and-taper valve A, cup B, concave cap C, cage E, spring-case D, nut H, and catch-spring G, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of October, 1871.

ANDREW J. PRESCOTT.

Witnesses:

WM. MARGERIUM,
J. M. HAWLEY.

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