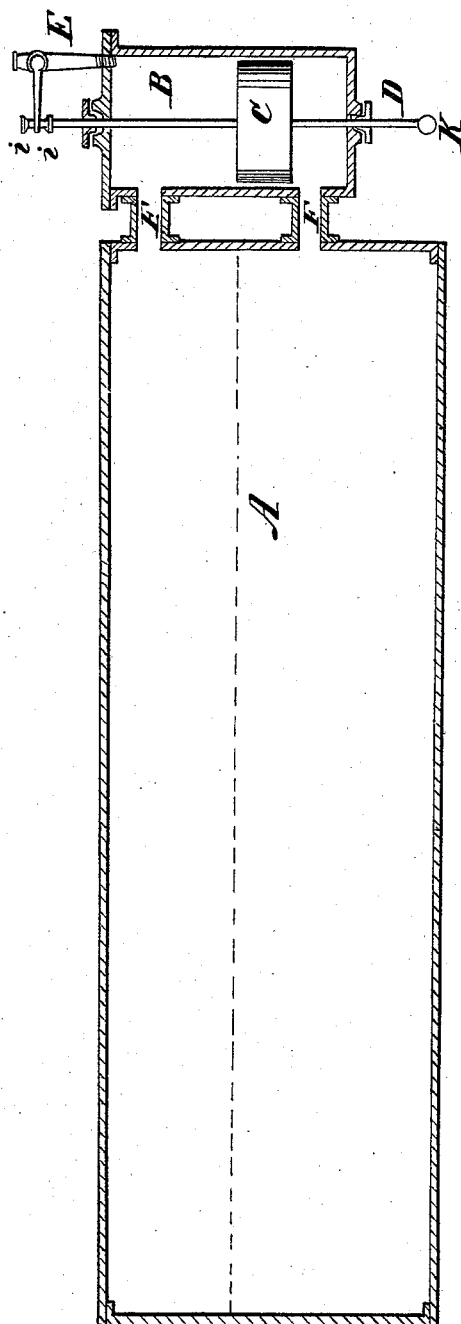


C. Evans,
Steam-Boiler Water-Feeder,
N^o 2,795, Patented Sep. 30, 1842.



UNITED STATES PATENT OFFICE.

CADWALLADER EVANS, OF PITTSBURGH, PENNSYLVANIA.

MODE OF APPLYING FLOATS TO REGULATE THE HEIGHT OF WATER IN STEAM-BOILERS.

Specification of Letters Patent No. 2,795, dated September 30, 1842.

To all whom it may concern:

Be it known that I, CADWALLADER EVANS, of the city of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have
5 invented a new and improved mode of applying a float to regulate the height of water in steam-boilers and to give notice of a deficiency of water.

The nature of my invention, I describe
10 as follows: To the ordinary steam boiler A, I attach at any convenient place on the outside of said boiler a separate cylinder or vessel B, by means of short pipes F F one
15 below the water line and the other above the water line as shown in the drawing.

C, is an ordinary float made fast to rod D, which passes through each end of the cylinder. To the upper end of rod is secured buttons I I. E is a small steam cock.
20 At the bottom of rod at joint K can be fixed any convenient fixture to open a valve or cock connected with a cistern or cold water pump to admit a greater supply of water to the force pump to supply the deficiency in
25 the boiler.

The operation is as follows: When the water sinks in the boiler A it will also fall in the cylinder B allowing float C to sink bringing the button I in contact with the lever attached to steam cock E, opening it
30 and letting steam escape, giving the necessary notice of a deficiency of water, and as the water in the boiler rises the float will rise, pressing the lower button I against the lever of cock, shutting the same; so will the
35 lower end of rod open or shut any cock to admit water to the force pump.

What I claim as new and as my invention and desire to secure by Letters Patent is—

The application of a float within a separate cylinder or vessel connected above and below the water line of a steam boiler; the advantages gained by this arrangement is that there will be no ebullition or foaming in the separate vessel so as to agitate the float.
45

CADWALLADER EVANS.

Witnesses:

R. W. FENWICK,
WM. W. WHITE.