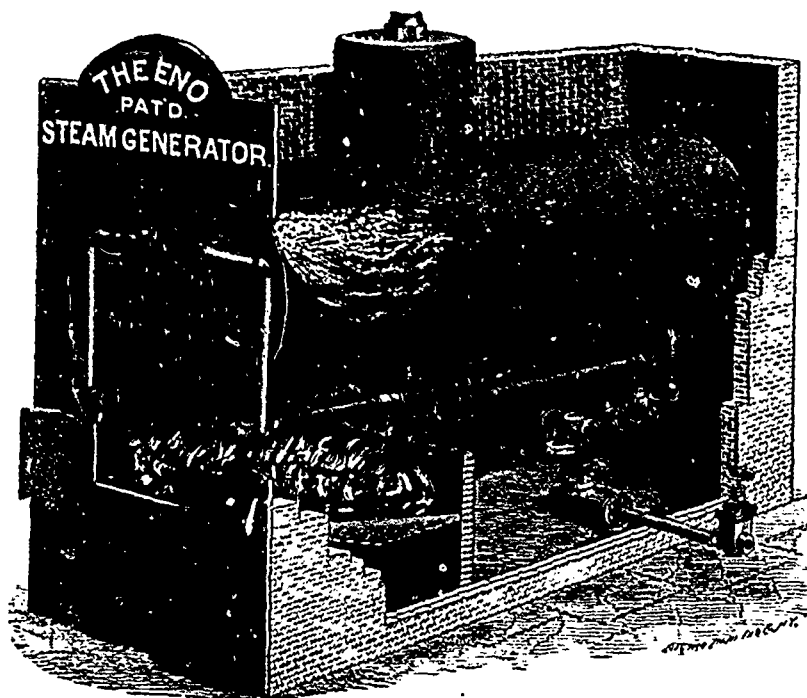


THE ENO STEAM GENERATOR.

The accompanying cuts represent one of the most important and economic steam appliances of the present day, and one that every manufacturer and steam user must ultimately adopt if he would hold the field against his competitors in first cost of production.

This invention accomplishes for steam users all that has been vainly sought in the past, and secures at small additional cost the following demonstrated advantages, viz.: A very rapid and economical generator of steam, a large increase in the quantity of the steam produced; a rapid,



positive and continuous circulation of the water in the boiler and generator, preventing foaming and priming; the separation and removal of sedimentary matter; the increased durability and safety of the boiler; a large reduction in the quantity of fuel required, a saving of from 15 to 30 per cent. in the cost of coal consumed or steam produced is guaranteed by the company.

This apparatus is simple, strong, durable and easily applied to any boiler, being connected therewith by one pipe only at the rear and two at the front, and does not require removal of masonry, and can be applied in from 15 to 30 hours. It is perfectly automatic in its operation, and requires no attention. It has no valves to get out of order, and no coils or return pipes to clog and obstruct the circulation, but both the water and steam always flow in a direct continuous and constant current.

The accompanying cuts show the generator underneath the boiler and its connection therewith.

The generator proper consists of a series of pipe flues, numbering from 2 or more, according to size of boiler, or results required. Each flue is composed of an inner and outer tube, thus containing a water space between them that is always charged with the water of the boiler. These flues commence at the front of the bridge wall, and extend rearwards therefrom (as per cuts), thereby offering no obstruction to the direct action of the fire on the crown plate or other parts of the boiler. It will readily be seen that the apparatus gives the boiler a large additional fire surface (120 square feet, or more, according to size of boiler or result required), with only a very small additional amount of water. It keeps constantly in the fire a sheet of water over 6 feet square and only $\frac{1}{4}$ of an inch thick, with both sides exposed to the fire, thereby converting the water into steam with marvelous rapidity, as well as causing an immense circulation.

The flames and heated gases, when leaving the fire box, pass through the inner tubes and also surround and envelop the outer ones, thereby converting the contained water into steam with the utmost rapidity, and least expenditure of heat.

The water through the pipe in the rear of the boiler flows in a steady current, into and through the tubes, re-entering the boiler as water and steam, through the two pipes at the front, maintaining thereby a continuous circulation of the water through both boiler and generator, largely preventing the formation of scale, and wonderfully increasing the efficiency as well as the durability of the boiler.

As a large quantity of the steam is formed in the flues of the generator instead of in the bottom of the boiler, it does not have to ascend through the water after its formation, but passes onward through the tubes in the fire chamber, where its heat is still further increased, thereby producing a pure, dry steam, instead of the saturated compound obtained from boilers by the ordinary process.

The rapid and continuous circulation of the water and steam, and the removal of the sedimentary matter therefrom, can at any time be witnessed at their factory, where they have a boiler with the top cut out and a generator attached, with glass connections, plainly showing the agitation and circulation of the water within the boiler and generator, also the separation of the sediment therefrom. The circulation and commotion of the water in the boiler is thereby revealed to the eye and is much greater than that portrayed in the cut.

The application of this generator to boilers in daily use has demonstrated that its employment will save from 20 to 30 per cent. of the fuel, or with the use of the same quantity of fuel will increase the amount of steam produced from 30 to 40 per cent. while the time heretofore required to raise the steam to its full pressure is thereby reduced one-half to two-thirds.

They court the most rigid examination of the generator and of all the claims made in its behalf, and are prepared to furnish abundant proof of every statement put forth, to the satisfaction of any candid investigator.

Patents for this invention have been secured in Canada, the United States and all principal foreign countries.

WHAT THE PEOPLE SAY:

They more than fulfilled all your claims for them. We were able to do with two boilers the same work that required three previous to attachment. They also clean the boilers of scale and dirt.

GEO. YORKE,

Engineer for Ontario Government, Osgoode Hall, Toronto.

It has given perfect satisfaction, saving 1 to 2 per cent. in coal bill, giving at same time an increased steam capacity sufficient to heat a building 27 x 90 feet, five stories.

THE CROMPTON CORSET CO., Toronto.

We have a second boiler nearly built in and want to put on another of your Generators. How soon can you have one ready to put on? We would like it this week if possible and same as one already on. Let us hear from you by wire upon receipt of this.

THE R. FORBES WOOLEN CO., Hespeler, Ont.

Enclosed we beg to hand you bank draft for Generator attached May 15th. The Eddy Co. express themselves highly satisfied with them, and will require more of them soon.

MCKINLEY & NORTHWOOD,

For the E. B. Eddy Mfg. Co., Hull, P. Q.

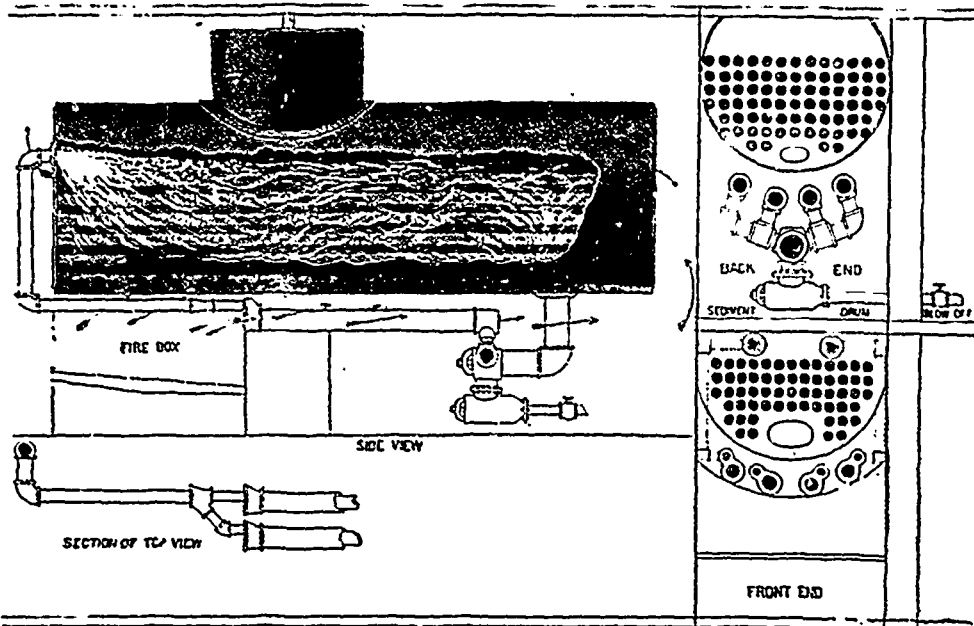
Your Generator when tested six months ago was saving between 20 and 25%. It is saving more now, having removed old scale from boiler.

R. WHITELAW, Engine and Boiler Mfr., Woodstock, Ont.

Please ship and attach to our boiler No 3, another of your Steam Generators. Price terms and conditions same as former contract.

FERGUSON & PATTERSON, Woolen Mfrs., Preston, Ont.

We now take pleasure in enclosing our cheque in payment of two Steam Generators



now on our boilers. We are now ready to have the third Steam Generator put on our other boiler. Please let us know when you can make the attachment.

THE WATERLOO (ONT.) WOOLEN MFG. CO.

We were short of steam, but now we have plenty. At the same time we are burning over 500 lbs. of coal per day less than previously. It is keeping the boilers clean, old scale being removed by the rapid circulation, and the labor in firing greatly reduced.

LANGLEY & BURKE, Trustees Burke Estate, Toronto.

In addition to the many Generators already in use, contracts are now in course of completion for The Dominion Cotton Mills Co., Montreal; The Ontario Cotton Co., Hamilton; The E. & C. Gurney Co., Toronto; The Carling Brewing & Malting Co., London; The Toronto Board of Trade; The E. B. Eddy Mfg. Co., Hull, Quebec, Laval University Quebec, P.Q. and others.

For free illustrated book, estimates, and full particulars, address The Eno Steam Generator Co., (Ltd.), 7 Richmond Street West, Toronto, Ont.