

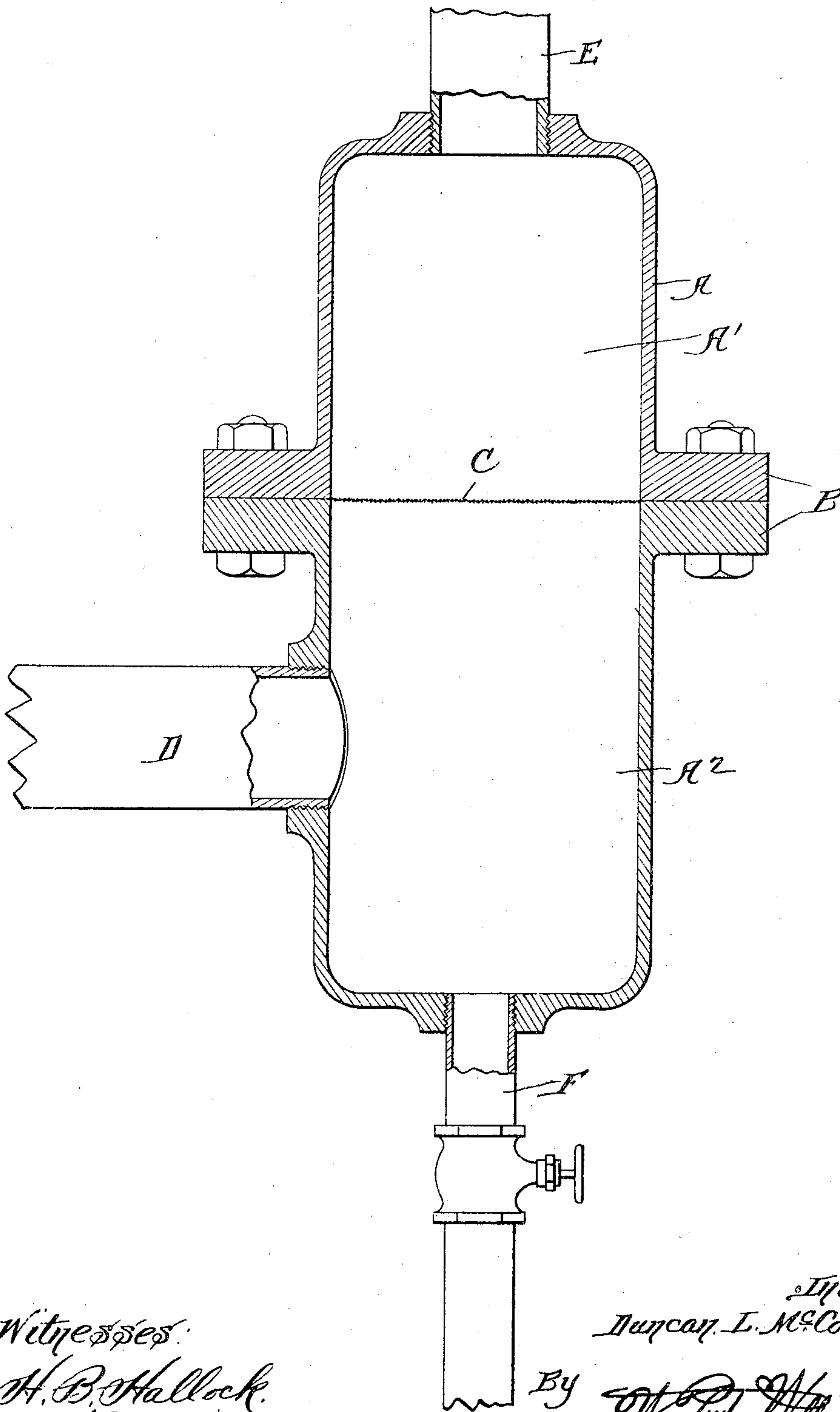
No. 808,564.

PATENTED DEC. 26, 1905.

D. L. McCORKINDALE.

STEAM PURIFIER.

APPLICATION FILED JULY 12, 1905.



Witnesses:

H. B. Hallock.

L. H. Morrison

Inventor:
Duncan L. McCorkindale

By

W. P. Williams
Atty.

UNITED STATES PATENT OFFICE.

DUNCAN L. McCORKINDALE, OF HOLYOKE, MASSACHUSETTS.

STEAM-PURIFIER.

No. 808,564.

Specification of Letters Patent.

Patented Dec. 26, 1905.

Application filed July 12, 1905. Serial No. 269,412.

To all whom it may concern:

Be it known that I, DUNCAN L. McCORKINDALE, a citizen of the United States, residing at Holyoke, county of Hampden, and State of Massachusetts, have invented a certain new and useful Improvement in Steam-Purifiers, of which the following is a specification.

My invention relates to a new and useful improvement in steam-purifiers, and has for its object to provide a purifier for steam which can be placed in the main steam-pipe and is designed to be used wherever steam is used in direct contact, such as heating liquids that are required to be clean—as, for instance, liquid used in dyestuffs, paper-stock, and, in fact, anywhere where it is desirable to preserve cleanliness.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claim.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, reference being had to the accompanying drawing, forming a part of this specification, in which is illustrated a vertical longitudinal section through my improved purifier.

A represents the casing, which is made in two parts adapted to be joined together, and the meeting ends of these two parts are provided with flanges B, by which the parts can be bolted together. When these two parts are together, a hollow casing is formed divided into an upper and lower chamber lettered A' and A², respectively. These two chambers are divided by a sheet of very fine wire-cloth C, which is secured in place by clamping the edges between the flanges B of the casing.

D is the inlet steam-pipe, which enters the lower chamber A², and E is the outlet steam-pipe extending from the uppermost portion of the chamber A'.

F is a drain-pipe leading from the lower end

of the lower chamber A², where the dirt and condensation from the steam is drawn off.

The steam enters the lower chamber A² through the pipe D, passes upward through the sheet of wire-cloth C and out of the upper chamber through the pipe E. The dirt is removed from the steam by the wire-cloth C, and said dirt falls downward into the lower end of the chamber A² below the inlet-pipe. Thus without interfering with the flow of steam said steam is cleansed or filtered without adding any cost to the plant except the initial cost of installing the purifier and the slight cost that would be occasioned to replace the wire sheet C.

Of course, if desired, other material for filtering the steam could be used other than woven-wire cloth; but I have found by experience that the most practical agent is very finely woven wire.

Of course I do not wish to be limited to the exact construction here shown, as slight modifications could be made without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is—

In a steam-purifier, a hollow casing made in two parts, the meeting edge of each part provided with a flange, said flanges adapted to be bolted together to secure the two parts of the casing together, a sheet of fine wire-cloth clamped between the flanges and dividing the interior of the casing into an upper and lower chamber, an inlet steam-pipe leading into the lower chamber through one side thereof a distance above the lower end, an outlet steam-pipe leading from the upper chamber at the extreme upper end thereof, a drain-pipe leading from the extreme lower end of the lower chamber, as and for the purpose specified.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

DUNCAN L. McCORKINDALE.

Witnesses:

ELMER B. COOLEY,
GEO. S. PARSONS.