

(No Model.)

2 Sheets—Sheet 1.

A. J. BAYLEY.
STEAM RADIATOR BASE.

No. 583,444.

Patented June 1, 1897.

Fig. 2.

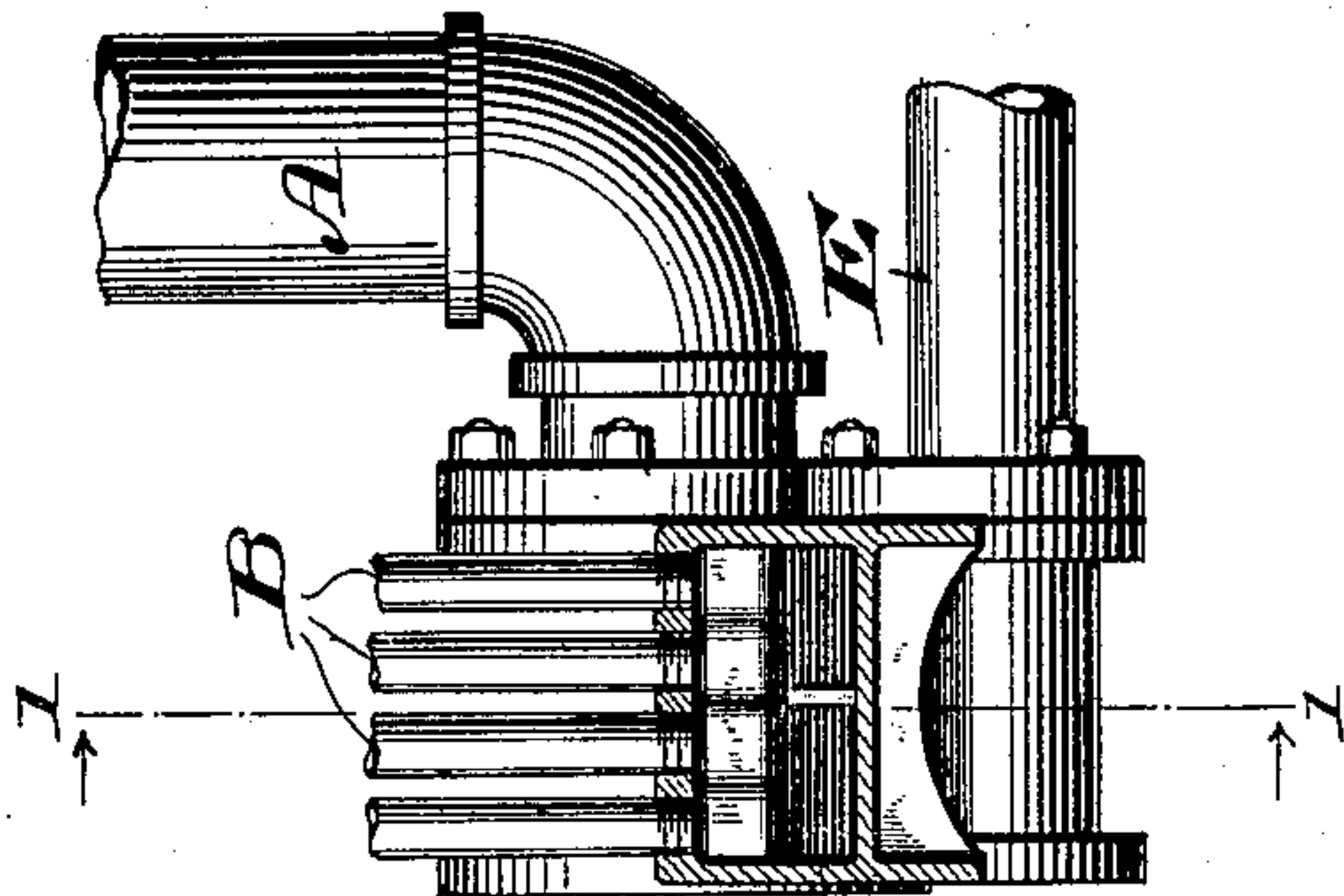
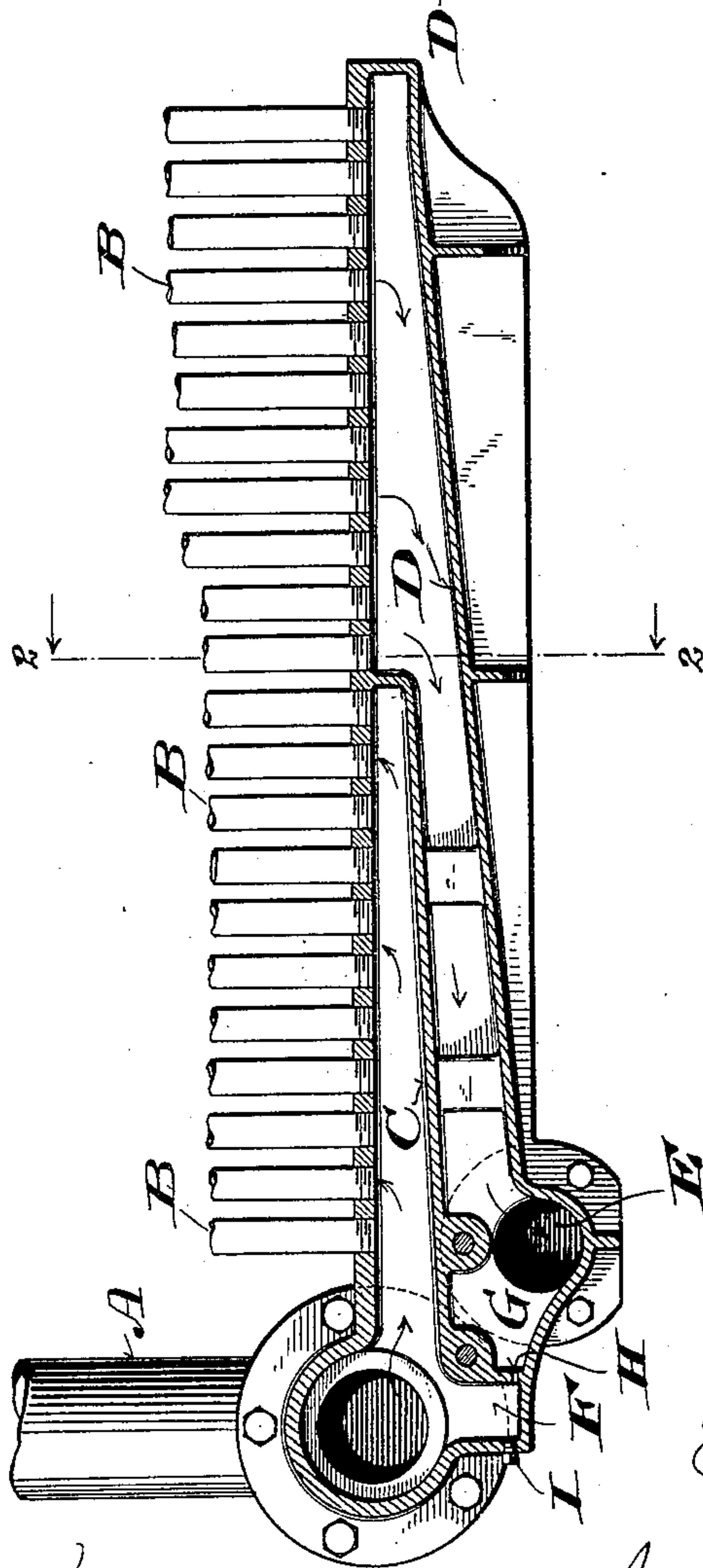


Fig. 1.



Witnesses:
Geo. W. Young
Henry Hankert.

Inventor:
A. J. Bayley.
By H. G. Underwood
Attorney

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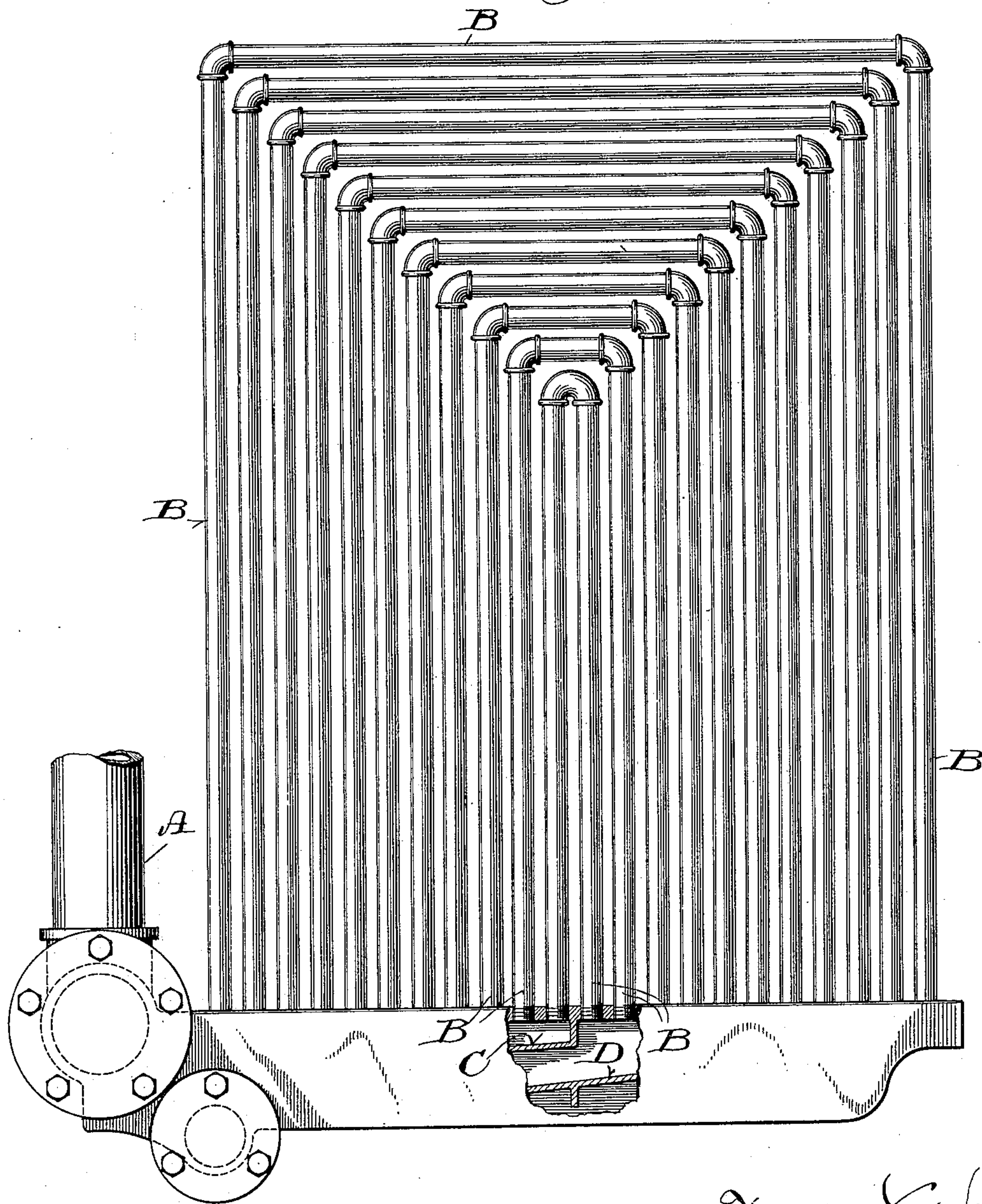
2 Sheets—Sheet 2.

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Fig. 3.



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UNITED STATES PATENT OFFICE.

ARTHUR J. BAYLEY, OF MILWAUKEE, WISCONSIN.

STEAM-RADIATOR BASE.

SPECIFICATION forming part of Letters Patent No. 583,444, dated June 1, 1897.

Application filed May 11, 1896. Serial No. 591,065. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR J. BAYLEY, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Steam-Radiator Bases; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates especially to the means of carrying off the water of condensation in the bases of steam-radiators; and it consists in certain peculiarities of construction and combination of parts for that purpose, all as will be fully set forth hereinafter and subsequently claimed.

In the drawings, Figure 1 is a longitudinal vertical sectional view through the base of a steam-radiator embodying my present invention, taken on the line 1 1 of Fig. 2. Fig. 2 is a transverse vertical sectional view on the line 2 2 of Fig. 1. Fig. 3 is a side elevation of a steam-radiator embodying my present invention, partially broken away to show the connection between the radiator-loops and the base.

Referring to the drawings, A represents the steam-inlet of a radiator, and B B the vertical pipes thereof, which open to the base. I construct my base with two pitched or inclined bottoms C D, the former extending from the center of the radiator to a point adjacent to the steam-inlet and the other from the extreme farther end of the radiator to a point adjacent to the outlet E below the bottom C, the said bottom D being here curved to coincide with the bore of the outlet-pipe and beyond that rising up again and uniting with the end wall of the radiator-base. The bottom C at this end is brought down and joined to the bottom D, thereby forming a water-chamber F below the steam-inlet and a drip-chamber G, there being a drip-hole H from the water-chamber to the drip-chamber and opposite thereto an outlet for cleaning the base, fitted with a plug I.

As the steam enters the base through the inlet A any water of condensation contained therein will at once fall down into the chamber F and thence pass through the drip-hole H into the drip-chamber G and out through the outlet-pipe E. The steam passes up above the bottom C, through the upright pipes B B,

and down to the bottom D, in the usual manner of circulation common to steam-radiators, all the water of condensation dropping down upon the bottoms C and D, that which falls upon the bottom C flowing along to the water-chamber F and thence through the drip-hole H to drip-chamber G and outlet-pipe E, while that which falls upon the bottom D flows down directly into the drip-chamber G and outlet-pipe E, said pipe terminating in a trap of ordinary construction. (Not shown.)

It will thus be seen that by the use of my device all the water of condensation will at once flow by gravity directly down and out of the base instead of standing therein, and if there is any in the steam as it is admitted it will at once fall into the described water-chamber without being carried through the pipes of the radiator.

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

A steam-radiator base, comprising a suitable casing with steam-inlet and water-outlet, and two pitched or inclined bottoms, both inclining the same way, but at different angles, the former extending from the center of the radiator to a point adjacent to the steam-inlet, and the other extending at a sharper downward angle, from the extreme farther end of the radiator to a point adjacent to the water-outlet below the first-named bottom, and being here curved to coincide with the bore of the water-outlet pipe, forming a drip-chamber, and beyond that rising up again and uniting with the end wall of the radiator-base, while the first-named bottom is brought down at this end and joined to the lower bottom, thereby forming a water-chamber below the steam-inlet, on a plane above that of the said drip-chamber, and having a communicating drip-hole through the wall separating the two chambers, and opposite thereto an outlet for cleaning the base, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

ARTHUR J. BAYLEY.

Witnesses:

H. G. UNDERWOOD,
HENRY DANKERT.