

N. H. BUNDY.

Tube for Steam-Radiators.

No. 130,013.

Fig. 1

Patented July 30, 1872.

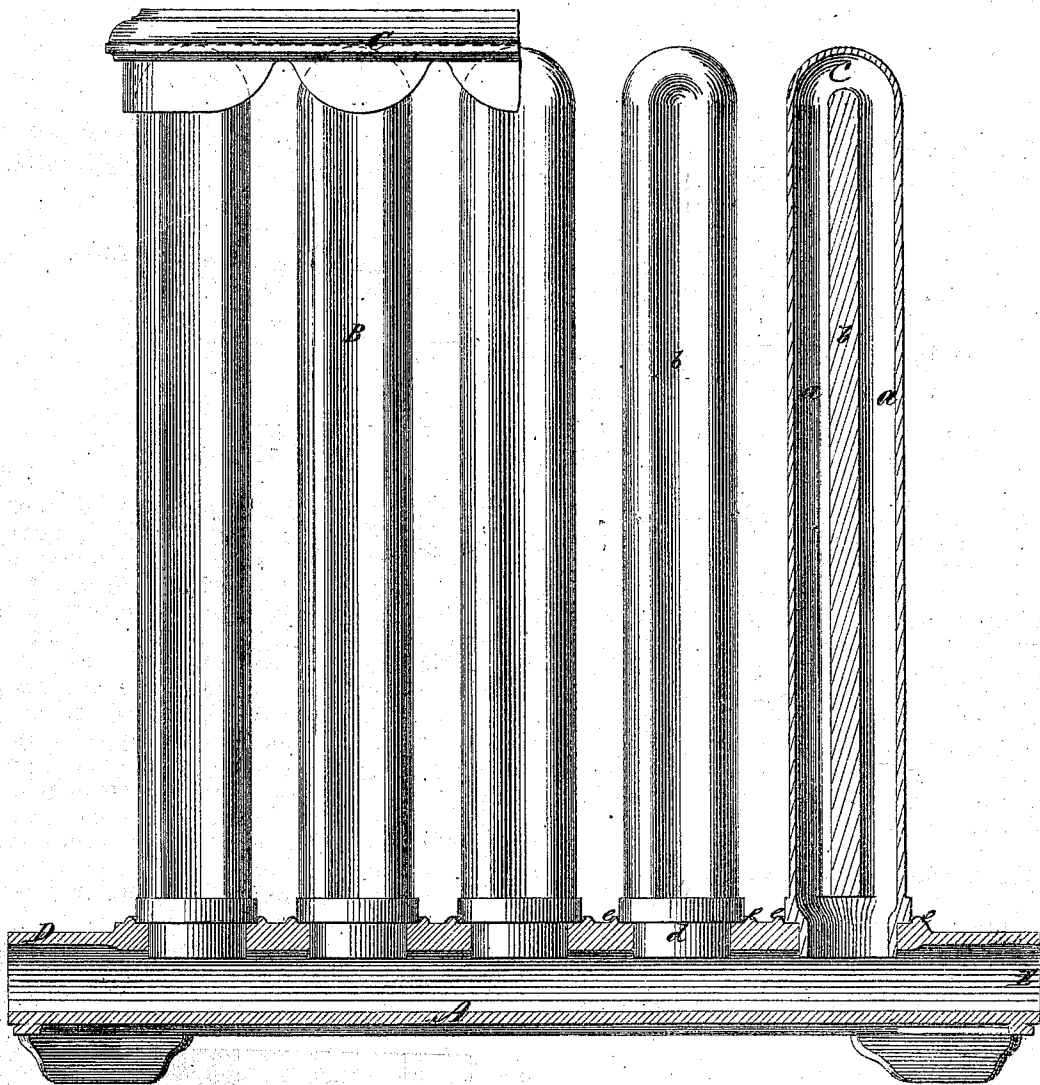
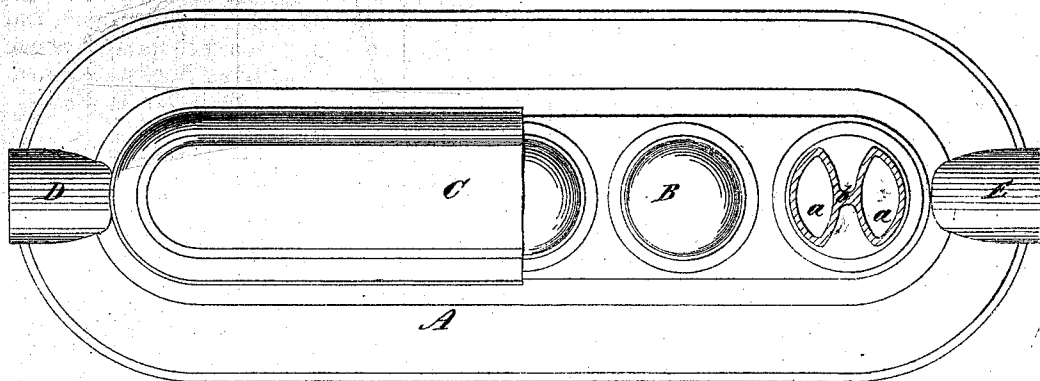


Fig. 2



Witnesses:

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IMPROVEMENT IN TUBES FOR STEAM-RADIATORS.

Specification forming part of Letters Patent No. 130,013, dated July 30, 1872.

Specification describing an Improvement in Tubes for Steam Radiators and Condensers, the invention of NELSON H. BUNDY, of the city, county, and State of New York.

The object of this invention is to provide for the circulation of steam through upright radiator-pipes without the introduction of any independent device or pipe. To this end it consists in a radiator or condenser pipe cast with separate passages, a connecting-web, and a communication between said passages at the ends thereof, whereby the desired end is attained and increased radiating-surface is produced.

In the accompanying drawing, Figure 1 is a partly-sectional side elevation of a radiator in which my improved pipes or tubes are used; and Fig. 2 is a top view of the same, also partly in section.

Similar letters of reference indicate corresponding parts in both figures.

A is the base of the radiator, and B B are the upright pipes which constitute my invention. The former is of ordinary form, hollow, and provided at one end with an inlet, D, and at the other with an outlet, E. The pipes B B are of circular form at the lower ends *d*, and are there screwed into or otherwise secured to the base A. Just above the base each bifurcates, separating into two longitudinally-parallel branches or passages, *a a*, whose outer sides present, in their transverse section, concentric arcs of a circle having the same center as the

circular portion *d* of the pipe. The inner or adjacent sides of the passages are of the form of two reversed arcs, slightly flatter than those forming the outer sides of said passages. An ellipsoidal shape is consequently given to the passages, and a very large amount of radiating-surface thereby obtained. The two passages are connected throughout their entire length in the casting by a web, *b*, and communicate with each other, at their upper ends, through a curved communication, *c*, the pipe there rounding off in the form of a semicircle. The lower ends of the said passages open into circular lower ends of the pipes, which fit into sockets provided for them in the top of the base. The upper ends of the pipes may be covered with a top, C, if desirable.

The steam, entering each pipe, passes up one passage, *a*, through the communication *c*, and down through the passage *a*, and is thereby made to circulate thoroughly. On account of the shape of the passages *a a* greater radiating-surface is given to the pipes than those of ordinary form have.

What I claim as my invention is—

The radiator or condenser pipe, cast with separate passages, *a a*, connecting-web *b*, and communication (*c*) between the passages at one end thereof, substantially as herein specified.

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Witnesses:

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