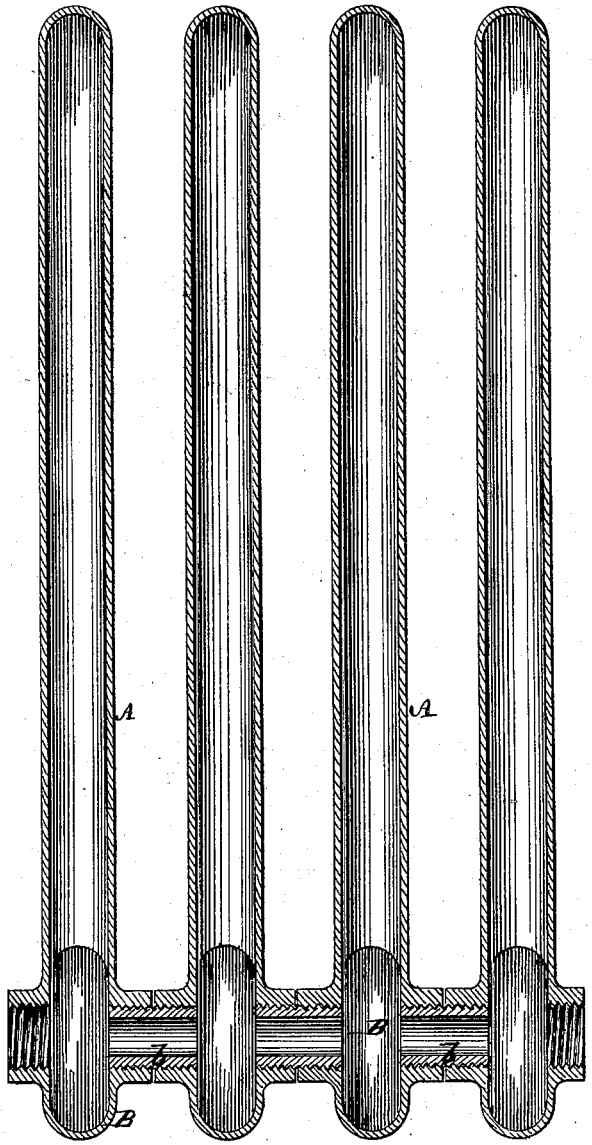
W. B. SNOW.
Steam-Radiator.

No. 197,907. Patented Dec. 4, 1877.



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UNITED STATES PATENT OFFICE.

WILLIAM B. SNOW, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN STEAM-RADIATORS.

Specification forming part of Letters Patent No. **197,907**, dated December 4, 1877; application filed July 21, 1877.

To all whom it may concern:

Be it known that I, WILLIAM B. SNOW, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Steam-Radiators, of which the following is a description, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to steam-radiators which are composed of a base, and of a series of radiating sections mounted on and only united with each other at the base. Heretofore it has been customary, in constructing radiators of this description, to make the radiating sections separate and distinct from their base, and to screw them into or otherwise attach them as independent adjuncts to the latter.

My improvement in such radiators consists in making each radiating section of a casting, which is constructed to also form the portion of the radiator-base to which said section belongs, and uniting a series of such radiator-sections together by their respective base portions, to form the entire base which receives the condensed water. In thus making the base of the radiator a component part, as described, of the radiating sections, the weight of the radiator is reduced, and a preponderance of the weight of each section is thrown to the base thereof, so that all liability of the sections to swing out of line, owing to their tops not being secured directly, is prevented. There is also a reduction of surface exposed to steam-pressure, and of space for condensed water in the base, likewise less liability of freezing and bursting when steam is shut off, and, in case of fracture of the base, the cost of repair is lessened by reason of the sectional construction of the base.

By having the sections connected only at the base, I am enabled to put up the complete radiators without the use of tools, as each section may be turned for the purpose of screwing it upon the connecting-nipple; and any section may be removed, in case of breakage or other damage, with facility and without the necessity of taking apart any of the others.

The accompanying drawing represents a sectional elevation of a steam-radiator constructed in accordance with my invention.

A A are the radiating sections, which may be of any desired shape throughout their upper portions, but which are each cast, at their lower ends, with base sections or portions B, to receive the condensed water. By connecting two or more of these base portions or sections B together by screw-nipples *b*, I form a radiator of any desired size or length, and avoid the expense of numerous base patterns for radiators of different sizes, by simply increasing or diminishing the number of radiating sections, having the respective portions of the base a component part of them.

The base portion or section B of each radiating section A can be tapped to receive the nipples at the foundry or place of manufacture; and said radiating sections, with their attached base portions, may be shipped to the place of use or erection as simple castings, thereby saving expense in shipment, as mere castings are usually carried at a lower rate of freight than finished work having its parts fitted together—such as radiators built and finished before shipment. The radiating sections, with their attached base portions, are very convenient to handle, and however large the structure or radiator, there is no unwieldy base to move or adjust, and exemption of all leakage at the junction of the radiating sections with the base is secured, as there are no joints at such parts.

I claim—

A steam-radiator composed of the separate sections A, having the enlarged base portions B, projecting below the steam-passage, and connected only by the hollow screw-nipples *b*, fitting in the central screw-threaded sockets of said enlarged base portions, substantially as and for the purpose set forth.

W. B. SNOW.

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