T. W. H. MOSELEY.

Steam-Radiator.

No. 204,445. Patented June 4, 1878.

Fig. 1.

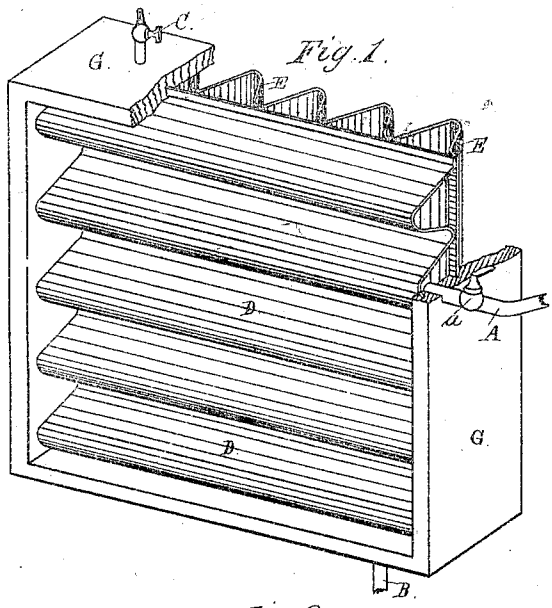
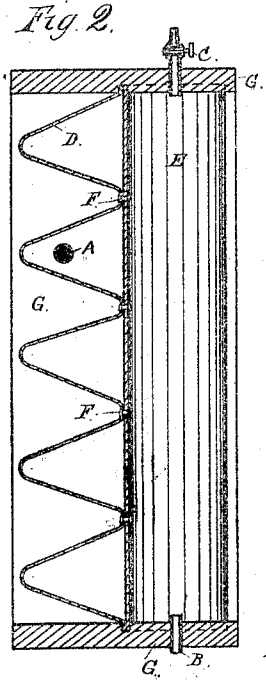


Fig. 2.



Attest:

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UNITED STATES PATENT OFFICE

THOMAS W. H. MOSELEY, OF HYDE PARK, MASSACHUSETTS.

IMPROVEMENT IN STEAM-RADIATORS.

Specification forming part of Letters Patent No. 204,445, dated June 4, 1878; application filed May 10, 1878.

To all whom it may concern:

Be it known that I, THOMAS W. H. MOSELEY, of Hyde Park, in the county of Norfolk and State of Massachusetts, have invented a new and useful Improvement in Radiators, of which the following is a specification:

The radiator is made of two pieces of corrugated sheet-metal, generally of about No. 22, Birmingham gage. The corrugations are made very deep, so as to give the greatest radiating-surface, as well as to give greater strength to resist the pressure of the steam from within. I place these sheets together, the corrugations crossing each other, and rivet the two together at a number of the crossings where the apexes of the corrugations touch each other. This is done for the purpose of holding the sheets in contact when the steam enters. Around the edges and ends of these sheets so united I cast a metal rim, letting the ends and edges of the sheets enter within the rim about half an inch. The method of casting these rims I purpose making the subject of a separate application for Letters Patent.

In order that my invention may be more fully understood, I will proceed to describe the same with reference to the accompanying drawings, in which—

Figure 1 is a perspective view of a radiator, illustrating the invention, with portions of the rim broken away to expose the interior. Fig. 2 is a vertical section thereof.

D and E represent two similar plates, of corrugated sheet-iron or other metal, placed together with their corrugations crossing or intersecting, and fastened together at some or all of the intersections by rivets F. G is a casing, cast upon the edges of the plates D E in such a manner that the edges of the plates will penetrate the cast metal to the depth of half an inch, more or less, and will be firmly secured therein. A represents the pipe for supplying steam from the boiler the admission of steam being controlled by a cock, *a*. B is a pipe for letting off water of condensation and returning it to the boiler, or discharging it through a trap, or in any usual and preferred way. C represents a pet-cock, for allowing the escape of air when the steam is first introduced.

By the hereinbefore-described mode of manufacture I produce a radiator without joints, save at the necessary points for the introduction of steam, outlet of water of condensation, and discharge of displaced air.

The large extent of heating-surface provided by my improvement enables me to furnish an effective radiator two feet square; but the radiator may be made of any dimensions desired.

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

1. A radiator constructed with corrugated plates, with the corrugations intersecting or crossing each other, as described, and an inclosing-rim.

2. A radiator constructed as herein described, with crossed corrugated plates D E inclosed within a rim, G, cast on their edges.

THOS. W. H. MOSELEY.

Witnesses:

ALFRED HARVEY,

LOUIS LOHMANN.