

S. L. McBURNEY.
STEAM RADIATOR.
APPLICATION FILED JUNE 28, 1910.

989,989.

Patented Apr. 18, 1911

Fig. 1.

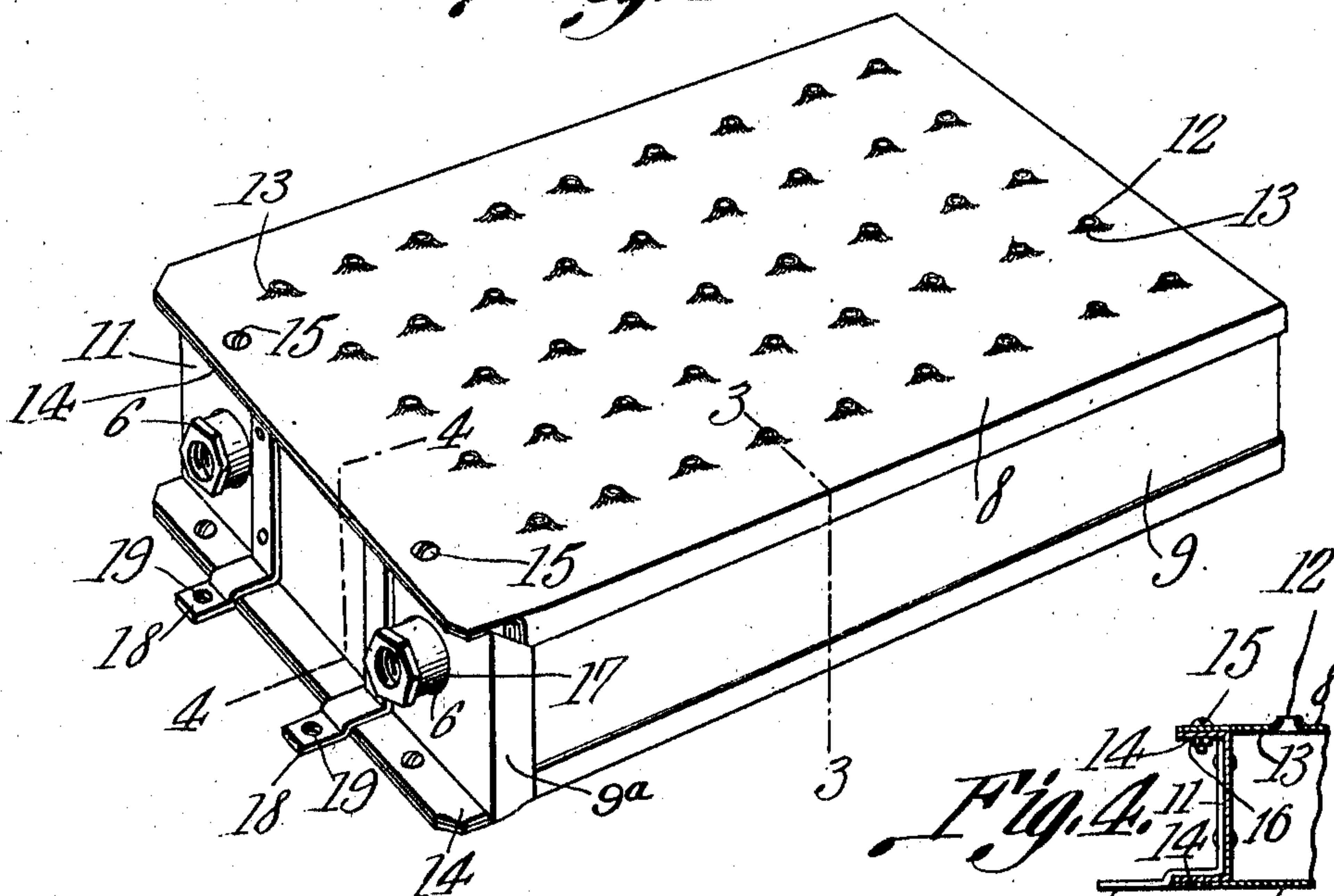


Fig. 4.

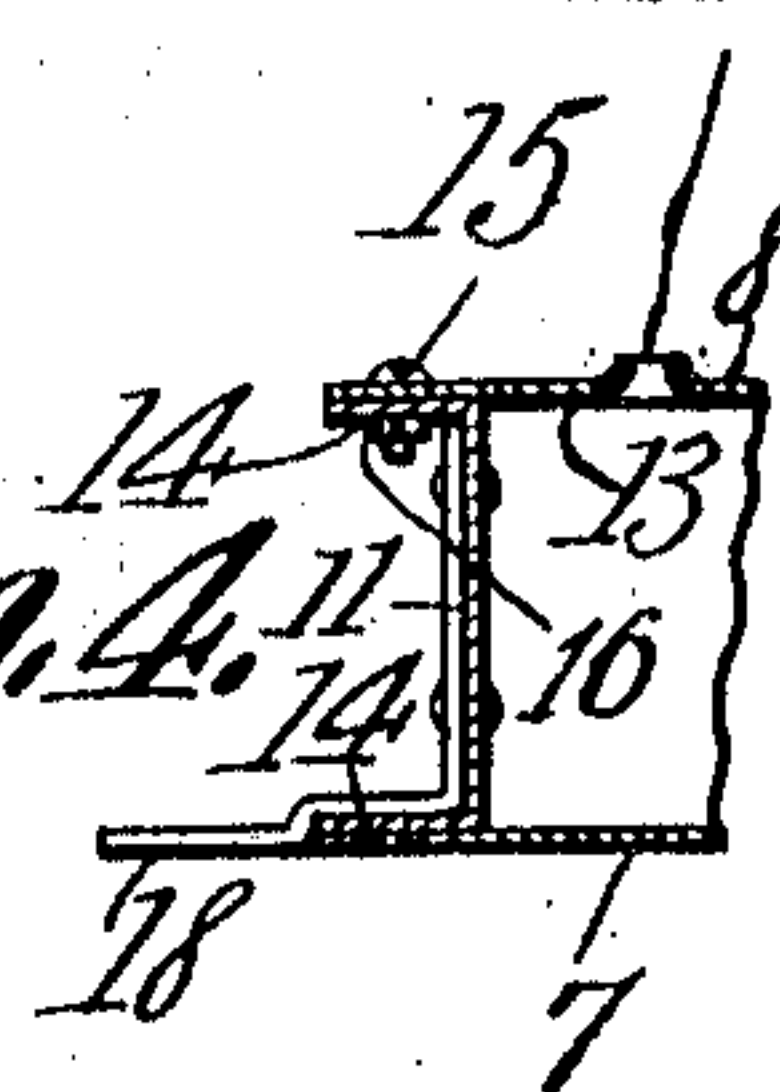


Fig. 2.

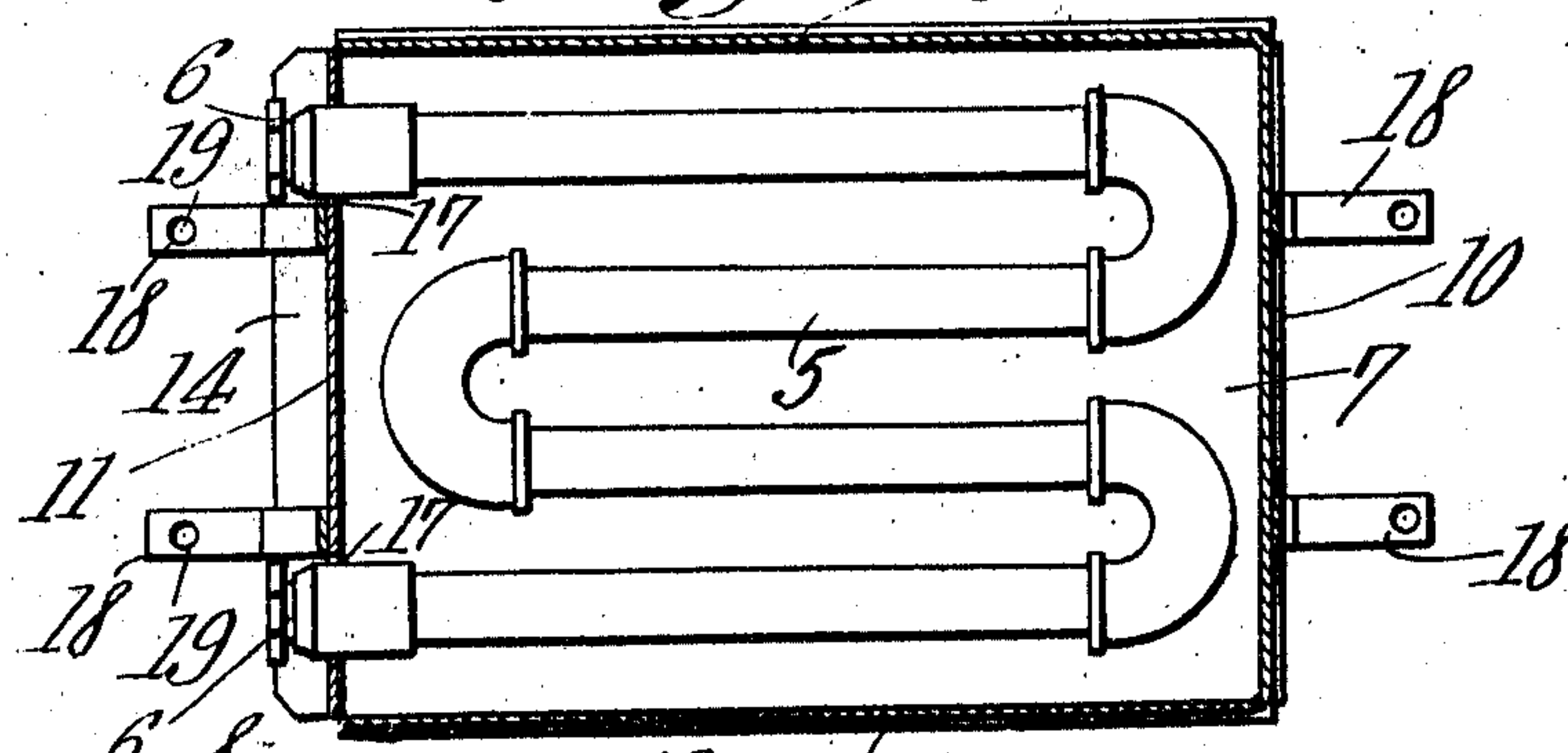
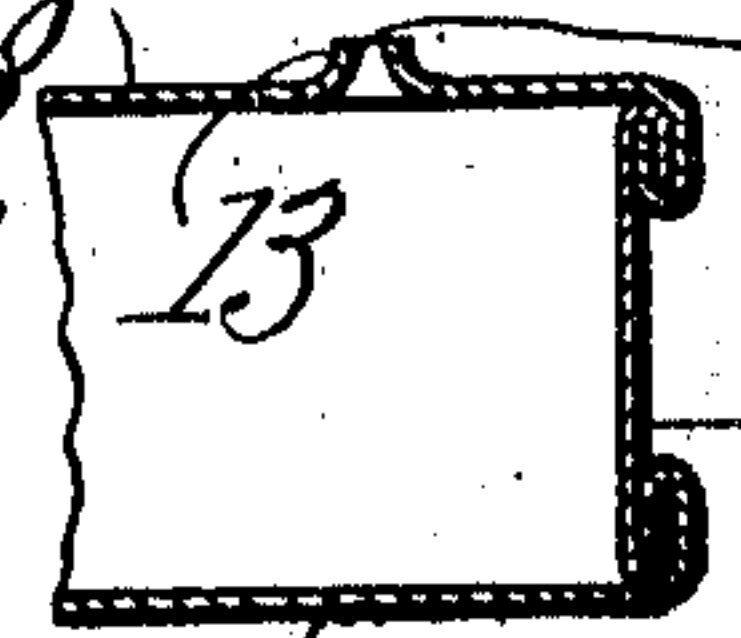


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

SAMUEL L. MCBURNEY, OF BONHAM, TEXAS.

STEAM-RADIATOR.

989,989.

Specification of Letters Patent. Patented Apr. 18, 1911.

Application filed June 28, 1910. Serial No. 569,333.

To all whom it may concern:

Be it known that I, SAMUEL L. MCBURNEY, a citizen of the United States, residing at Bonham, in the county of Fannin and State of Texas, have invented a new and useful Steam-Radiator, of which the following is a specification.

The radiator which is the subject of the invention is designed more particularly for use in a locomotive cab to heat the same, and also to serve as a foot warmer; and it is the object of the invention to provide a radiator which can be readily placed at any convenient location in the cab, and which may be readily connected to the boiler; and, furthermore, to provide a radiator which is simple in construction and highly efficient in operation.

With these objects in view, the invention consists in a novel construction and arrangement of parts to be hereinafter described and claimed, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a perspective view of a radiator. Fig. 2 is a horizontal section thereof. Figs. 3 and 4 are vertical sections on the lines 3—3 and 4—4, respectively, of Fig. 1.

Referring more particularly to the drawing, 5 denotes a return bend coil which is fitted at its ends with suitable couplings 6 for connection to the boiler which is to supply the heating medium. The coil is inclosed in a flat rectangular sheet metal casing comprising a bottom 7, a top 8, side walls 9, and end walls 10 and 11, respectively. The top is perforated to permit the escape of the heat, the perforations 12 thereof being made through the apex of protuberance 13 with which the top is formed.

The side walls 9 and end wall 10 are formed of a single strip of sheet metal which is bent into the required form, and the connection between these walls, and the top and bottom of the casing is made by interlocking lap seams as shown in Fig. 3. The end wall 11 is bent at its ends to overlap the side walls 9 for a short distance as shown at 9^a, and the corresponding ends of the top and bottom are extended to overlap flanges 14 extending horizontally from the top and bottom of the wall 11. Bolts 15 passing through the flanges and the over-

lapping portions of the top and bottom, fasten the end wall in place, the bolts being secured by nuts 16. By this means of securing the end wall 11, the same is removable to permit the detachment of the coil for any purpose. The couplings 6 project through openings 17 made in said wall. To each end of the casing are secured feet 18 whereby the casing is secured to the floor or other place where it is to be positioned, the feet having perforations 19 to receive screws or other suitable means for fastening the casing in place. The feet which are secured to the end wall 11 are bent across the bottom flange 14, and the outer ends thereof are bent downwardly so as to extend flush with the bottom of the casing.

By the structure herein described, a radiator is had which is without complicated parts, and the connection with the boiler can be readily made. The protuberances 13 especially adapt the radiator for use as a foot warmer, they serving to space the foot from the top of the casing.

What is claimed is:

1. A radiator comprising a casing consisting of a perforated top, a bottom, and side and end walls, one of said end walls having horizontal flanges at the top and bottom, and the top and bottom of the casing being extended to overlap said flanges, fastening means passing through the flanges and the overlapping portions of the top and bottom, and a heating coil inclosed in the casing.

2. A radiator comprising a casing consisting of a bottom, a perforated top, and side and end walls, one of said end walls overlapping the side walls, and having top and bottom horizontal flanges, the top and bottom of the casing being extended to overlap the said flanges, fastening means passing through the flanges and the overlapping portions of the top and bottom, and a heating coil inclosed in the casing.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

SAMUEL L. MCBURNEY.

Witnesses:

D. S. GALBRAITH,
J. A. DUNCAN.