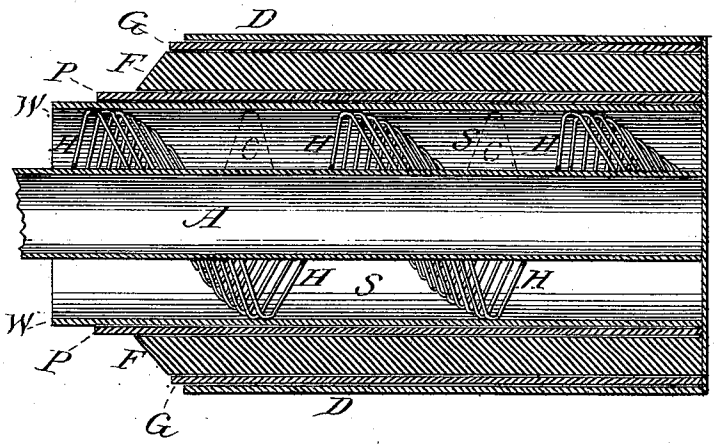
T. MERRIAM.

Covering for Steam Boilers.

No. 230,033. Patented July 13, 1880.

Fig. 1.



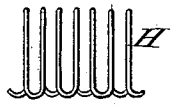


Fig. 2.



Attest:

E. A. Merriam
L. B. Smith.

Inventor.

Truman Merriam

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UNITED STATES PATENT OFFICE.

TRUMAN MERRIAM, OF MILWAUKEE, WISCONSIN.

COVERINGS FOR STEAM-BOILERS.

SPECIFICATION forming part of Letters Patent No. 230,033, dated July 13, 1880.

Application filed December 12, 1878.

To all whom it may concern:

Be it known that I, TRUMAN MERRIAM, of Milwaukee, Wisconsin, have invented certain new and useful Improvements in Coverings for Steam Boilers, Pipes, &c., from which it is desirable to prevent the radiation of heat; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a sectional view of a covering embodying my invention, and Fig. 2 is a detached view of my invention.

My present invention is designed as an improvement upon the device for which Letters Patent were granted me November 10, 1874, and differs from that device only in two respects—viz., the exterior wall of the dead-air chamber is of metal, and the support for this wall is of wire bent into a series of V's and inverted upon the pipe as the wire is wound around it.

A represents the pipe which in this instance is to be covered; C, the end of the wire which is wound straight about the pipe to give it an initial hold, and H a continuation of the wire which is wound spirally about the pipe. The sheet-iron W is now placed about the wire, and forms an exterior wall for the dead-air chamber S, while the pipe forms the interior wall. After this the covering is completed by layers of paper P, hair felt F, paper G, and cloth E, cementing the whole with a compound for which Letters Patent No. 156,710 were granted me November 10, 1874, or an equivalent.

I may also cover the metal used in my device with a solution of india-rubber to prevent oxidation.

The usefulness of my invention is not restricted to steam-receptacles, as it will keep cold out quite as well as it will confine heat.

I am aware that wire was in public use as far back as June and July of 1876 as a support for the exterior wall of the dead-air chamber on steam-pipes; but the wire then used was either coiled spirally or into a series of triangles, and would not hug the pipe, but had to be frequently bound to it, and on upright pipes was especially troublesome. My form of bend completely obviates these difficulties, as it causes the wire to hug the pipe or boiler so tightly by its own elasticity that it remains wherever it is wound, the bases of the V-bends griping the pipe and clasping it firmly. Therefore I do not claim, broadly, wire as a support for the sheet-metal exterior wall of a dead-air chamber on steam-pipes; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with a steam pipe or boiler, of a dead-air-chamber the exterior wall of which is of sheet-iron, and a support interposed between said exterior wall and the pipe which forms the interior wall, consisting of wire bent into a series of V's and inverted upon and about the pipe, as described and shown.

2. A support for the exterior wall of a dead-air chamber in steam-pipe covering, consisting of wire bent into a series of V's and adapted to be wound about the pipe or boiler, as described and shown.

TRUMAN MERRIAM.

Witnesses:
E. A. MERRIAM,
I. B. SMITH.