(No Model.)

# G. C. FOWLER.

## BOILER COVERING.

No. 248,442. Patented Oct. 18, 1881.

Fig. 1.

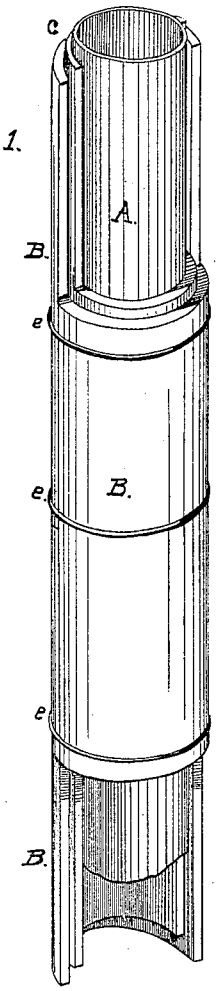



Fig. 2.

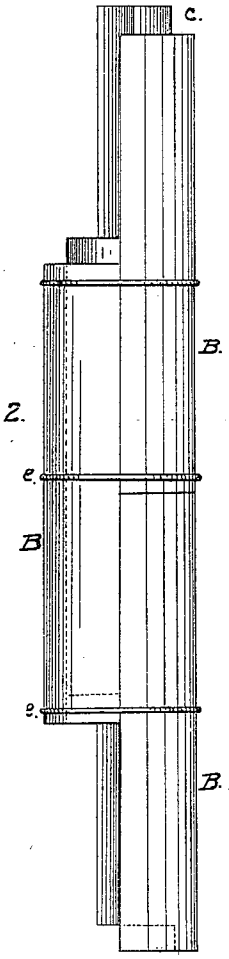



Fig. 3.

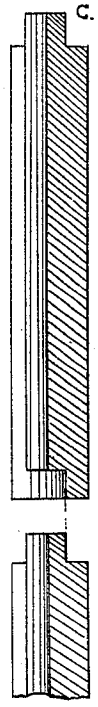
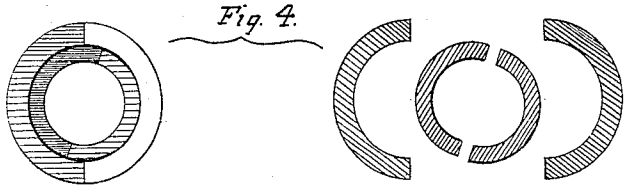



Fig. 4.



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# UNITED STATES PATENT OFFICE.

GILBERT C. FOWLER, OF SAN FRANCISCO, CALIFORNIA.

## BOILER-COVERING.

SPECIFICATION forming part of Letters Patent No. 248,442, dated October 18, 1881.

Application filed June 17, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, GILBERT C. FOWLER, in the city and county of San Francisco, in the State of California, have invented certain new and useful Improvements in Boiler-Coverings; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings.

This invention appertains to improvements in that class of boiler or pipe coverings composed of a series of sections with their ends breaking joints; and it consists in the details of construction of such covering, substantially as hereinafter more fully set forth and claimed.

Referring to the accompanying drawings, Figure 1 is a perspective view of several sections of my improved covering placed around a pipe. Fig. 2 is side view of the same without the pipe. Fig. 3 is a sectional view. Fig. 4 shows detail views of the casing when its layers are composed of separate pieces.

Let A represent a pipe or other heated surface to which the covering is to be applied.

B B B are the sections of felt, paper-board, or other non-conducting material, which are secured upon and around the surface, to prevent the radiation of heat. Heretofore these sections have been made of a single thickness, and the ends were cut off square, so that when they were placed upon the surface to be covered their squarely-cut ends abutted against each other. They were then secured in this position by metallic staples or some such fastening. This makes a very neat and effective covering when the sections are first applied; but the heat soon causes the material to shrink, so that the meeting end edges separate and the fastenings come loose. The separation of the end edges of the sections exposes the boiler-surface in part to the air, and the value of the covering for preventing radiation of heat is destroyed.

By my invention the sections can be made of a single thickness, with rabbeted or overlapping end edges, as shown at Figs. 1, 2, and 3; or the sheets or sections can be made of a less thickness and overlapped upon each other when they are laid, as shown at Fig. 4. In either case the same object is effected, to wit: the connection of the sections or sheets, so that shrinkage will not open a joint and expose the surface over which it is placed.

In Fig. 1, *c* is the rabbeted edge, which is made on the lower half of one section and on the upper half of the other section, so that when the sections are placed together their end edges will overlap each other, as shown. I then bind the sections in place by wrapping a wire or other band, *e*, around the sections directly over the overlapping end edges, so as to clamp them together and make a close joint.

In Fig. 4 the sheets are made thinner, and they are laid so as to break joints, shingle fashion, and when in place they are banded in the same manner as above described.

This method of constructing and applying sectional boiler-coverings entirely overcomes the objections heretofore urged against it and renders it at once effective and durable.

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

The covering for tubes or boilers, consisting of inner and outer sections of material adapted to surround the cylinder or heated surface, and with the inner section extending both in the direction of its length and at its ends beyond or inward from the end edges of the outer section, and the clasp or band *e*, all constructed and arranged substantially as and for the purpose set forth.

In witness whereof I have hereunto set my hand and seal.

GILBERT C. FOWLER. [L. S.]

Witnesses:

EDWARD E. OSBORN,

WM. F. CLARK.