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154-600  
G. H. LEVIS.  
COVERING FOR STEAM-PIPES.

Cross Reference

vs other coverings

miner.  
gs.

No. 195,618.

Patented Sept. 25, 1877.

Examiner

Fig. 2.

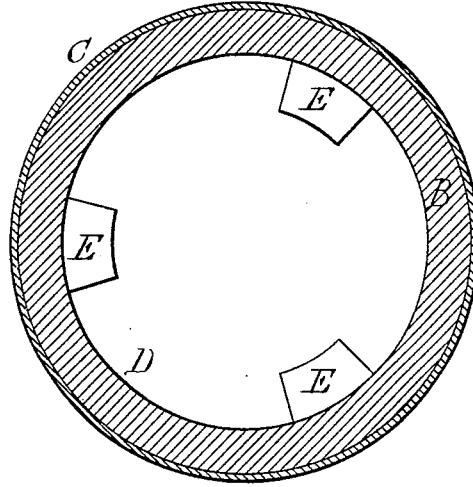
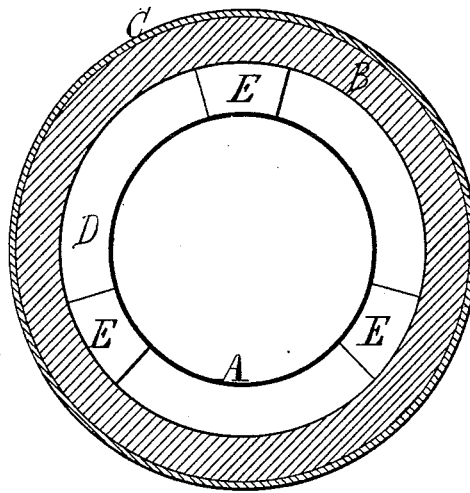


Fig. 1.



Plaster of Paris  
mixed with  
Silicate

coated with  
Silicate Paint

WITNESSES

Mary B. Utley  
*[Signature]*

INVENTOR

George H. Levis  
*[Signature]*  
his ATTORNEY

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195,618

# UNITED STATES PATENT OFFICE.

GEORGE H. LEVIS, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN COVERINGS FOR STEAM-PIPES.

Specification forming part of Letters Patent No. **195,618**, dated September 25, 1877; application filed August 28, 1877.

154-45

*To all whom it may concern:*

Be it known that I, GEORGE H. LEVIS, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Coverings for Steam-Pipes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to a covering for steam-pipes, as hereinafter described, its object being to prevent the condensation of the steam as it passes through the pipes; and to this end the nature of my invention consists in providing the steam-pipes with an exterior coating or jacket of plaster-of-paris mixed with silicate, and the whole inclosed within a shell of paper or similar material coated on the outside with silicate paint, leaving an annular air-space between the steam-pipe and shell or jacket.

The annexed drawing, to which reference is made, fully illustrates my invention, and in the same—

Figure 1 is a cross-section of a steam-pipe, showing the jacket or shell, and air-space in cylindrical form around the same. Fig. 2 is a view in section, showing lugs or shoulders on the shell or jacket, the pipe resting against which forms the annular air-space.

A represents a steam-pipe, of any ordinary dimension, which is provided with an exterior jacket, B, of any suitable thickness, made of plaster-of-paris and silicate, covered with a coating of paper, C. This composition forming the jacket B, together with the annular air-space D, forms a perfect non-conductor of heat, and will prevent the condensation of the steam in its passage through the pipe.

The jacket B, I prefer to make cylindrical in form, as shown in Fig. 1; but I do not propose to confine myself to any particular shape, and, again, to any particular mode of putting the paper on.

The lugs or shoulders E, by which the dead-air space is formed between the pipe and jacket, are made of cement, and may be either cast solidly with the plaster-of-paris portion of the jacket, or placed in position to form the dead-air space separately, as occasion may require.

The exterior cover or paper portion C thereof is coated with a paint, of which silicate forms the base, whereby the non-conducting qualities of the covering are materially increased, and all moisture prevented from coming in contact with the plaster-of-paris portion of the jacket B.

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

1. In combination with the steam-pipe A, the exterior jacket B, of plaster-of-paris and silicate, and the enveloping-shell C, of paper or similar material, the annular dead-air space D around the pipe, formed by cement lugs, substantially as and for the purpose set forth.

2. In combination with a covering for steam-pipes formed of plaster-of-paris, silicate, and paper, the cement lugs or shoulders, which form an annular dead-air space around the pipe, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

GEORGE H. LEVIS.

Witnesses:

A. L. WISEMAN,  
J. W. HAMILTON JOHNSON.