

(No Model.)

W. M. SUHR.

COVERING.

No. 383,599.

Patented May 29, 1888.

Fig. 1.

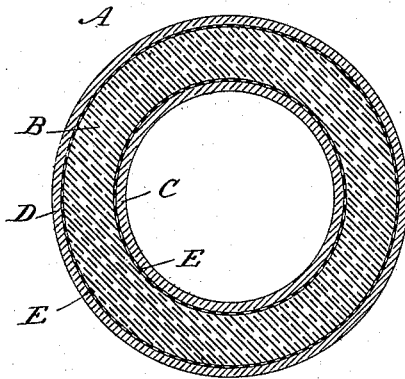


Fig. 2.

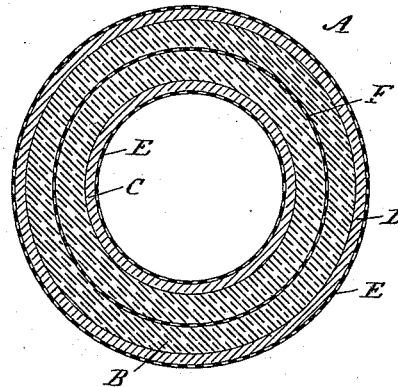


Fig. 3.

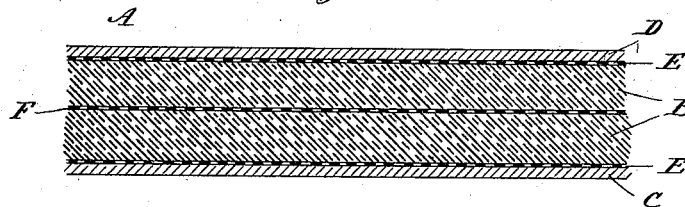
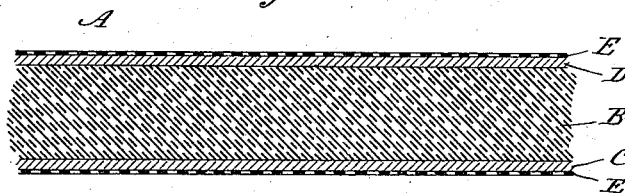


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM M. SUHR, OF BROOKLYN, NEW YORK.

COVERING.

SPECIFICATION forming part of Letters Patent No. 383,599, dated May 29, 1888.

Application filed September 2, 1887. Serial No. 248,587. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. SUHR, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved
5 Covering, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved covering specially adapted for covering and protecting pipes, boilers,
10 walls, ceilings, &c., so as to prevent loss of heat and to render buildings fire-proof.

The invention consists of a filling of asbestos fiber, mineral wool, or similar non-combustible material inclosed in an asbestos-paper covering lined on the inside or outside with a wire-
15 netting.

The invention also consists in the construction and arrangement of various parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate
20 corresponding parts in all the figures.

Figure 1 is a cross-section of my improvement as adapted for pipes. Fig. 2 is a similar view of a modified form of the same. Fig. 3 is a sectional elevation of my improvement in
30 the form of a sheet or block as used for walls and ceilings, and Fig. 4 is a like view of a modified form of a sheet or block.

My improved covering, according to the purpose for which it is to be used, is made either
35 in tubular form, as illustrated in Figs. 1 and 2, for covering pipes, &c., or in sheets or blocks of suitable dimensions for covering boilers, walls, floors, &c.

My improved covering A consists of a filling, B, of mineral wool, asbestos fiber, or similar non-combustible material, which filling is
40 inclosed between two asbestos-paper covers, C

and D, lined either on the inside or outside with a wire-netting, E, of suitable mesh. It will be seen that this wire-netting E stiffens the covering materially, makes it more durable,
45 and prevents the filling from falling apart in case the asbestos-paper covers are destroyed by the action of water, heat, or other injurious influences.

In order to prevent the filling B from shifting in the paper covers C and D, I may employ a wire-netting or other pliable fabric, F, between layers of the filling, as illustrated in
50 Figs. 2 and 3. This additional layer of pliable fabric also stiffens the entire covering.

It will be seen that my improved covering can be used for covering steam-pipes, boilers, &c., to prevent radiation of heat; or it can be used to cover pipes so as to prevent their freezing;
60 or it may be employed in the form of sheets and blocks, as illustrated in Figs. 3 and 4, for covering walls, floors, and ceilings of buildings to make the latter fire-proof.

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

1. The improved non-conducting covering consisting of parallel layers or covers of asbestos paper and linings of wire-netting and an interposed filling of asbestos fiber, all as shown
70 and described.

2. As a new article of manufacture, a non-conducting covering consisting of outer and inner covers formed of asbestos paper, a filling of asbestos fiber inclosed by the said covers, and a piece of pliable stiffening material, which is arranged in the midst of said filling intermediate
75 of the covers, as shown and described, for the purpose specified.

WILLIAM M. SUHR.

Witnesses:

THEO. G. HOSTER,
C. SEDGWICK.