

(No Model.)

J. M. & G. F. ORDWAY.

NON CONDUCTING COVERING FOR CYLINDERS OF ICE MACHINES,  
PIPES, &c.

No. 346,767.

Patented Aug. 3, 1886.

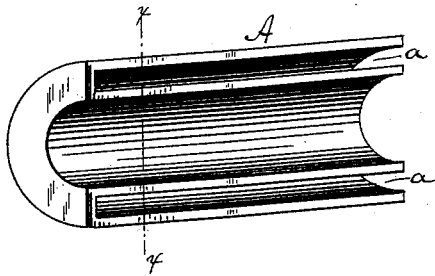


Fig. 1-

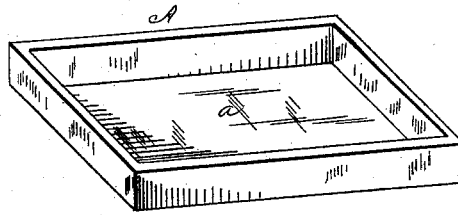


Fig. 5-

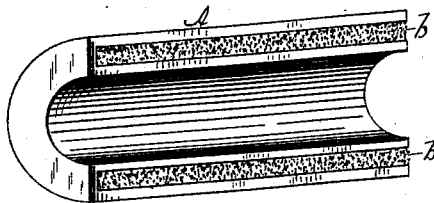


Fig. 2-

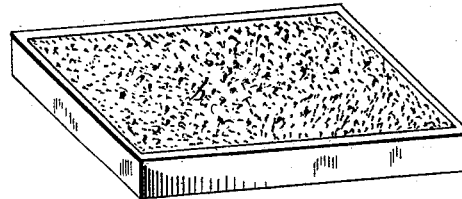


Fig. 6-

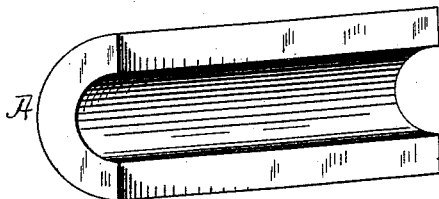


Fig. 3-

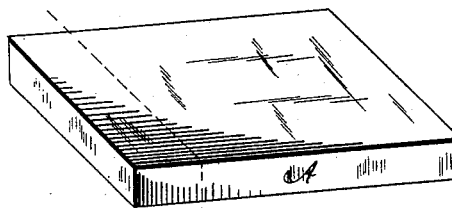


Fig. 4-



Witnesses-

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# UNITED STATES PATENT OFFICE.

JOHN M. ORDWAY AND GEORGE F. ORDWAY, OF BOSTON, MASS.

NON-CONDUCTING COVERING FOR CYLINDERS OF ICE-MACHINES, PIPES, &c.

SPECIFICATION forming part of Letters Patent No. 346,767, dated August 3, 1886.

Application filed February 18, 1886. Serial No. 192,334. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN M. ORDWAY and GEORGE F. ORDWAY, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and Improved Non-Conducting Covering for Cylinders of Ice-Machines, Pipes, and Similar Purposes; and we hereby declare the following to be a full, clear, and exact description of the same, reference  
10 being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of a semi-cylindrical section of non-conducting covering as it comes from the mold. Fig. 2 is a view  
15 of a semi-cylindrical section after packing the space with fossil-meal. Fig. 3 is a perspective view of a completed section. Fig. 4 is a section on line *xx* of Fig. 1. Figs. 5, 6, 7, 8 show sectional coverings having plane faces.

20 Our invention relates to the use of fossil-meal, pure or in combination, applied as a non-conductor, and has for its object to utilize as far as practical to the fullest extent the non-conductivity of fossil-meal.

25 To this end our invention consists in sectional covering-pieces made in molds or by any desired means and provided with cells or spaces to receive pure fossil-meal in layers, the sectional pieces to be molded of composition in which fossil-meal enters as an ingredi-  
30 ent, or of any desired non-conducting composition capable of being molded or compressed into form.

Our invention also consists in a sectional  
35 non-conducting covering made of a novel combination of ingredients—fossil-meal, hair, and silicate of soda—as hereinafter fully described, and specifically set out in the claims.

In order that those skilled in the art may  
40 make and use our invention, we will proceed to describe the manner in which we have carried it out.

We take thirty-six parts of fossil-meal, three parts of hair, eleven parts of silicate of  
45 soda, diluted with ten parts of water, and thoroughly mix them in any convenient receptacle. The mixture is then placed in molds to

give the shape required and leave on the inner face of the molded section a depression, space, or cell to receive a layer of dry fossil-meal or any other good non-conductor. After  
50 drying the sectional covering the space or cell is filled with the dry fossil-meal or other good non-conductor, and over it is placed a layer of the plastic compound of which the  
55 sectional cover is made. This layer adheres to the edges of the sectional cover around and over the non-conducting material in the cell and retains it in one structure with the covering-section. The covering-sections thus  
60 made are to be in bricks, slabs, semi-cylinders, or of any other desired shape to meet the requirements of the uses intended.

In the said drawings, A is one of the non-conducting sections provided with the recess  
65 or cell *a*, to receive the fossil-meal or other non-conducting material in fine division. (Seen at *b*, Fig. 2.) We have found a desirable dimension to be to have the outside wall of the section to be about three-eighths of an  
70 inch thick, while the recess should be about three-quarters of an inch deep; but these proportions may be varied indefinitely without departing from the spirit our invention.

These sectional coverings are designed to  
75 be made of standard dimensions and applied when insulation of temperature is required. If found desirable to make the exposed surface of the non-conducting sections water-proof, paper or cloth is made to adhere to the  
80 outer surface by the application of water-glass, silicate of soda, and when dry coats of water-proof paint can be applied to the surface of the cloth or paper.

Having thus described our invention, what  
85 we claim as new, and desire to secure by Letters Patent, is—

1. A sectional non-conducting covering for preventing the absorption or radiation of heat, consisting of fossil-meal, hair, or its  
90 equivalent, and silicate of soda mixed with water molded into form and dried, substantially as set forth.

2. A sectional non-conducting covering pro-

vided with recesses or cells *a*, in combination with a body of fossil-meal or other non-conductor inserted in said recesses *a*, substantially as described.

5 3. A molded sectional non-conducting covering consisting of a body, *A*, of mixed fossil-meal, hair, and silicate of soda having a cell or cells filled with fossil-meal or other non-conducting material, and a covering over said  
10 cell or cells of the same material as the body

to retain the inserted non-conductor, as specified.

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