

(No Model.)

G. KELLY.
NON-CONDUCTING LINING.

No. 366,222.

Patented July 12, 1887.

FIG. 3.

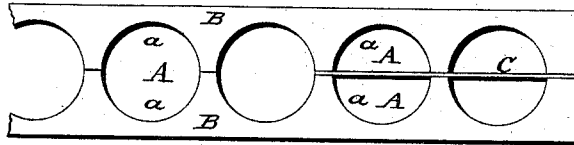


FIG. 1.

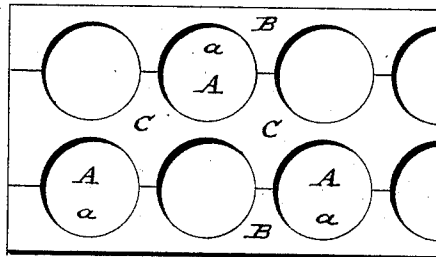


FIG. 2.

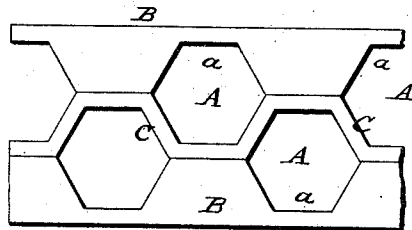
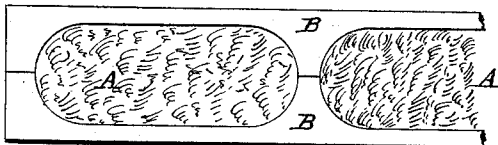


FIG. 4.



ATTEST:

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UNITED STATES PATENT OFFICE.

GEORGE KELLY, OF CHICAGO, ILLINOIS.

NON-CONDUCTING LINING.

SPECIFICATION forming part of Letters Patent No. 366,222, dated July 12, 1887.

Application filed October 21, 1886. Serial No. 216,919. (No model.)

To all whom it may concern:

Be it known that I, GEORGE KELLY, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improved Non-Conducting Lining; 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, in which—

Figures 1 and 2 are end elevations showing my improvement. Figs. 3 and 4 are modifications.

Similar letters of reference indicate like parts in the several views.

My invention relates to that class of linings used in connection with the walls, partitions, &c., of buildings, cars, and like bodies to retard the passage of heat, cold, or sound through the same; and the object of my present improvement is to provide a simple, cheap, and effective article or body for such purposes, wherein sectional non-conducting dead-air spaces or cells are formed, readily adapted to be worked to any required shape or situation and quickly and securely nailed in place, and which are conveniently adapted to contain loose non-conducting material when desired.

To enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to more fully describe the mode of constructing the same.

The present invention is an improvement on the subject-matter of my prior applications, Nos. 211,691 and 211,692, for Letters Patent, filed August 23, 1886; and it consists in a novel manner of forming the cellular non-conducting bodies or articles therein described. This new construction, as illustrated in the drawings, consists in forming such article or body of grooved pieces of boards, their grooved faces being joined together, so that such grooves will constitute isolated cells A within the interior of the body or article. These cells may depend for their non-conducting properties upon the dead air confined therein, or upon an inserted body of loose non-conducting material, as indicated in Fig. 4.

In practically carrying out my invention the walls of the grooves *a*, that form the cells or chambers A, are preferably integral with the

bases B, that constitute the face and back of the improved article or body, and to more effectually subdivide such cells I place between the two sections or halves B B a sheet or partition, C, of paper or other suitable material, to subdivide the cells A, and at the same time form a more perfect joint between the meeting surfaces of the two sections. This sheet or partition C may be flat, as shown in Fig. 3, or of a fluted form, as shown in Figs. 1 and 2, as found most desirable. The shape of the cells A may be of any desired form, such form depending entirely on the judgment or choice of the user, it being preferable when they are to contain a loose non-conducting body to make them of an oblong shape, as indicated in Fig. 4.

My improvement provides, as a new article of manufacture and trade, a non-conducting body that can be readily worked and adapted to any required situation and quickly and securely nailed in place.

I disclaim herein the invention described and claimed in my application filed August 23, 1886, Serial No. 211,691, which consists, broadly, of a non-conducting cellular body formed of a series of connected but independent closed boxes or cells containing dead air, the outer surfaces of the said body being flat.

I also disclaim herein the invention described and claimed in my application filed August 23, 1886, Serial No. 211,692, which consists, broadly, of a non-conducting casing formed into a series of vertical or superimposed cells or pockets filled with loose non-conducting material.

I am aware that prior to my invention fire-proof shutters have been formed of sheets of corrugated metal placed together in various ways to form air cells or passages to prevent the destruction of the shutter. I therefore do not claim any such combination or application, broadly; but

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

1. As a new article of manufacture, a non-conducting sectional cellular body having plain outer surfaces, consisting of boards, each having its inner side cut out or formed to constitute the respective halves of the cells, combined with a partition or body placed between the inner sides of said boards, having each of its

sides cut out or formed to constitute the respective other halves of the said cells, substantially as set forth.

2. As a new article of manufacture, a non-conducting sectional cellular body having plain
5 outer surfaces, consisting of boards, each having its inner side cut out or formed to constitute the respective halves of the cells, combined with a partition or body placed between the

inner sides of said boards, having each of its
10 sides cut out or formed to constitute the respective other halves of the said cells, and a non-conducting material placed within each of said cells, substantially as set forth.

GEORGE KELLY.

Witnesses:

ROBERT BURNS,
GEO. H. ARTHUR.