

J. T. FERRES.

BOARD.

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952,074.

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Fig. 1

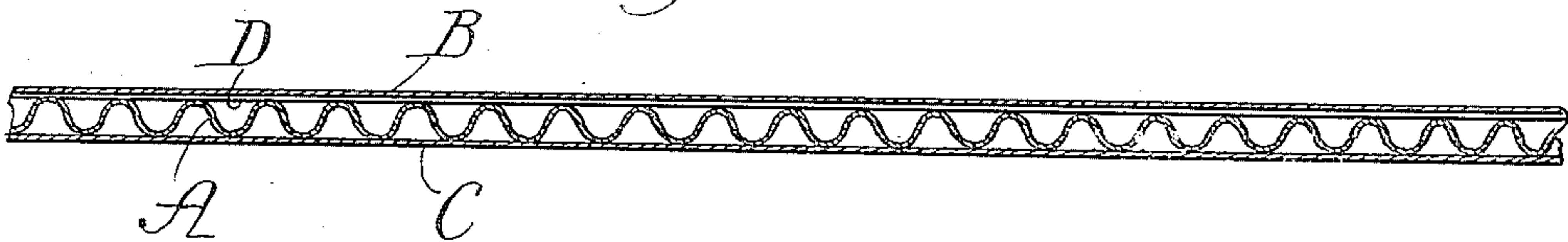


Fig. 2

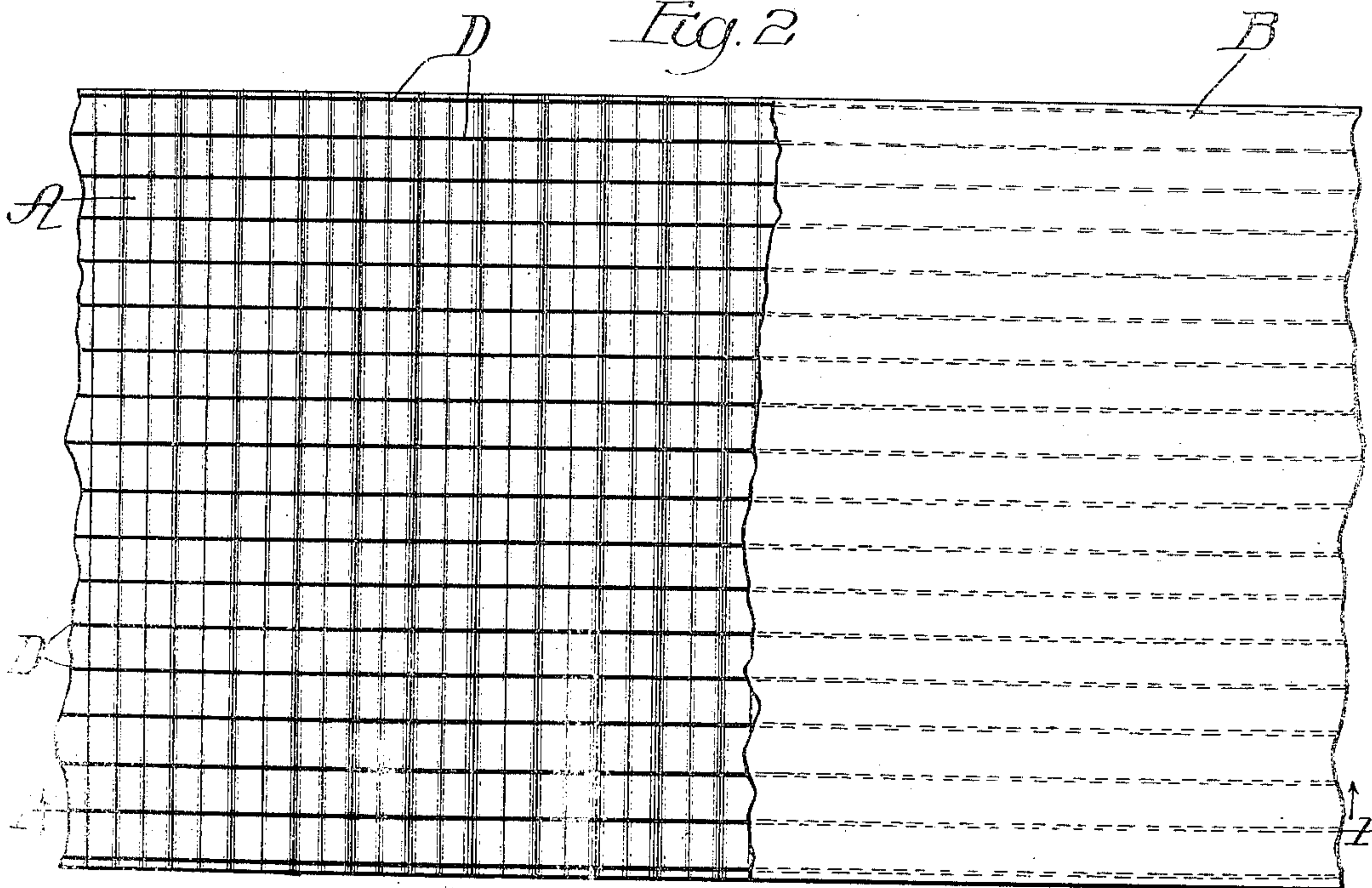
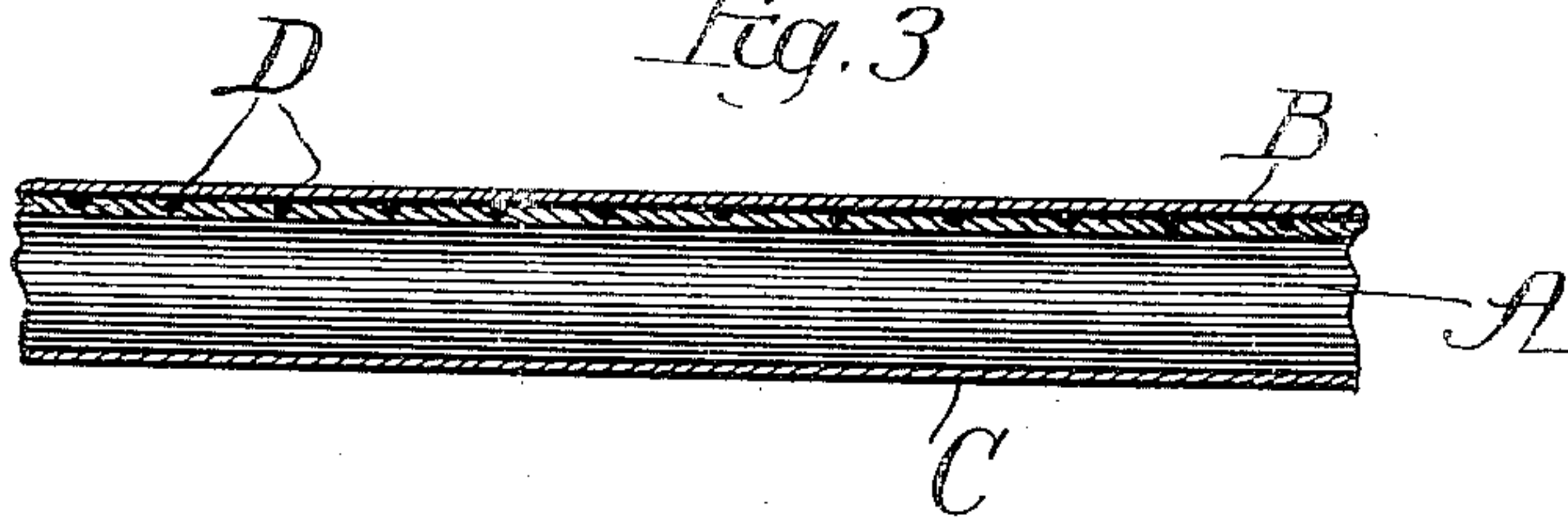


Fig. 3



Witnesses:

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UNITED STATES PATENT OFFICE.

JEFFREY T. FERRES, OF ANDERSON, INDIANA, ASSIGNOR TO J. W. SEFTON MANUFACTURING COMPANY, OF ANDERSON, INDIANA, A CORPORATION OF INDIANA.

BOARD.

952,074.

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To all whom it may concern:

Be it known that I, JEFFREY T. FERRES, a citizen of the United States, residing at Anderson, Madison county, Indiana, have invented a certain new and useful Board, of which the following is a specification.

My invention consists in the production, as a new article of manufacture, of a board of novel and useful character adapted for the same general purposes that the well known corrugated paper board is used, as for instance for boxes, cartons and the like but possessing advantages thereover particularly for certain uses. However, my new board is useful for many other and divers purposes and I contemplate using the same wherever applicable.

Speaking in general terms my new board consists of a paper board formed in plies or layers with wires laid or interposed between two of such plies with the result that the board thus formed is not only materially strengthened and reinforced but is also made proof against rats, mice and the like so that the board can be put to the same uses as wood in the manufacture of boxes. In the present instance the paper board employed is the well known double-faced corrugated paper board and the wires, in single parallel strands, are interposed between the corrugated paper and one of the facing strips.

In the accompanying drawings Figure 1 is a cross-section of my new board taken on the line 1—1 of Fig. 2; Fig. 2 a plan view of the board with the upper facing strip partly broken away to expose the wires and corrugated paper below; and Fig. 3 an enlarged sectional view of a portion of the board taken at right angles to the section illustrated in Fig. 1.

As above stated I employ, in the production of my new board, a paper board composed of different plies or layers and in the present instance such paper board is of the type which is commonly known as double-faced corrugated paper board and for the sake of a clear and definite description of my invention I will describe the same in connection with that type of paper board.

Referring to the embodiment of my invention as illustrated in Figs. 1, 2 and 3 of the drawings, the paper board employed is a double-faced corrugated board comprising the usual corrugated strip A which is arranged between two parallel paper strips B and C which are known in the art as facing strips and which in practice are secured to the corrugated strip by pasting or gluing at the crowns of the corrugations. In the production of my new board I interpose between one of these facing strips and the corrugated strip a series of wires D which are of any suitable size or strength according to the size and weight of the board desired and which as shown are laid parallel to each other and at right angles to the lines of corrugations. In the present instance the wires are shown as interposed between the corrugated strip and the facing strip B although, as is obvious, such wires may be laid adjacent either one of said facing strips. By preference the wires are embedded in the crowns of the corrugations, leaving the crowns and facing strip in contact. In the operation of pasting or gluing the facing strips to the corrugated strip the wires are at the same time and in the same way secured both to their adjacent facing strip and the corrugated strip. It will be understood that the wires may be laid the proper distance apart to obtain the requisite strength and to also prevent rats, mice, etc., from eating their way through the board.

My new board formed as above described possesses great strength and rigidity and is comparatively light in weight. Moreover, such board is proof against rats, mice and the like so that the same may be advantageously employed in the manufacture of shipping and packing boxes and cartons containing articles that would be attacked by such vermin.

I claim:

1. As a new article of manufacture, a board comprising two facing strips, a corrugated strip therebetween, and wires interposed between the corrugated strip and one of the facing strips, said wires being laid

longitudinally of the board and at right angles to the corrugations; substantially as described.

2. As a new article of manufacture, a
5 board comprising two facing strips, a corrugated strip therebetween, and wires interposed between the corrugated strip and one of the facing strips and embedded in the

material of the board, said wires being arranged parallel to each other and at right angles to the corrugations; substantially as described.

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Witnesses:

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