G. H. WILLIAMS.

FLAT FOR EGG AND OTHER CASES.

APPLICATION FILED DEC. 5, 1921.

1,425,820.

Patented Aug. 15, 1922.

2 SHEETS—SHEET 1.

Fig. 1.

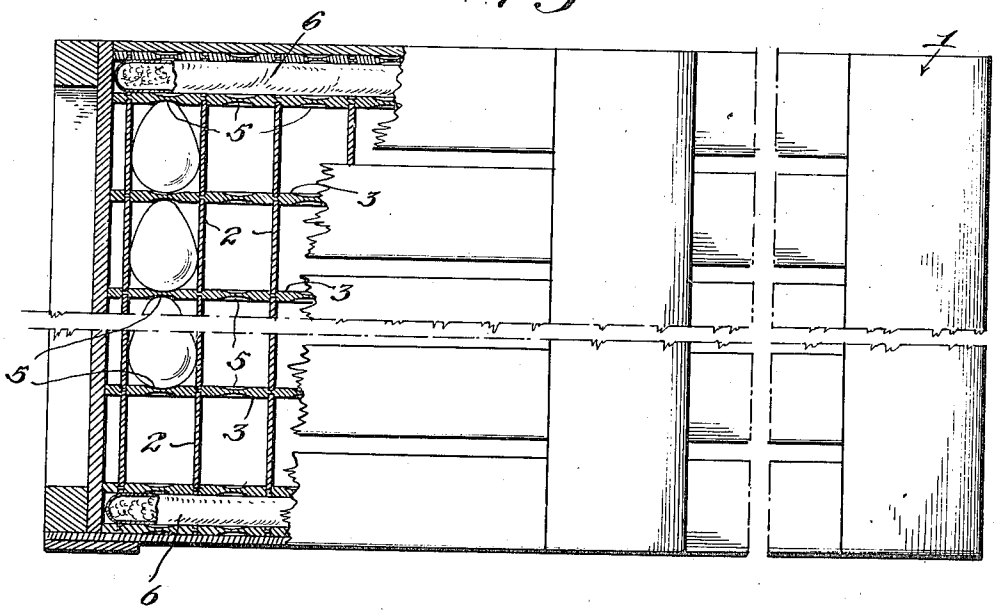


Fig. 2.

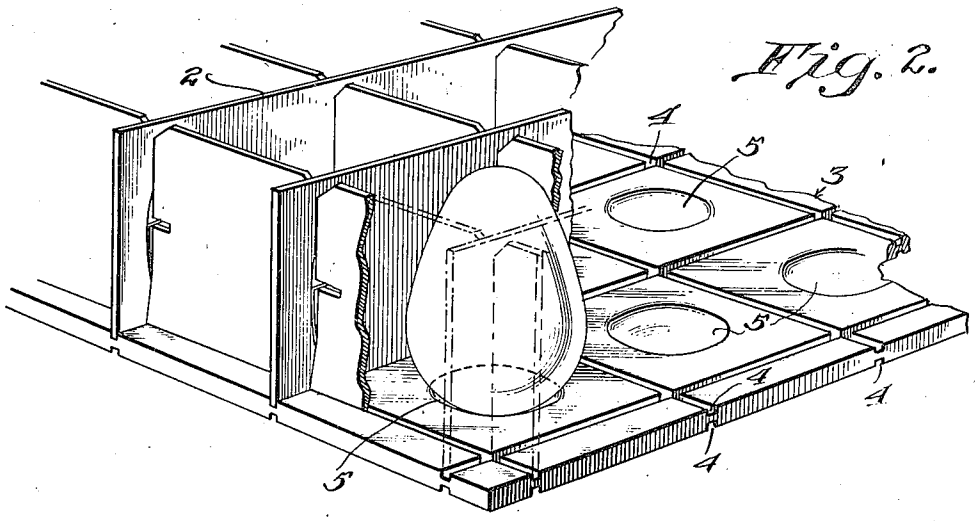
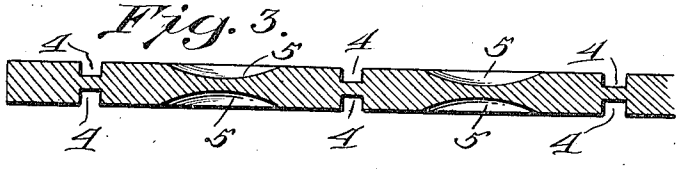


Fig. 3.



Inventor

G. H. Williams

Eccleston & Eccleston,

Attorneys

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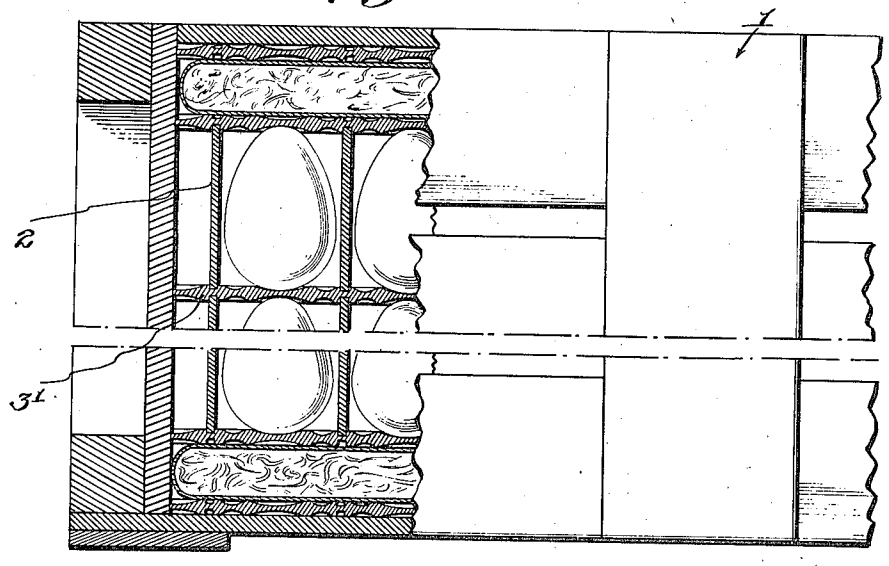
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2 SHEETS—SHEET 2.

Fig. 4.



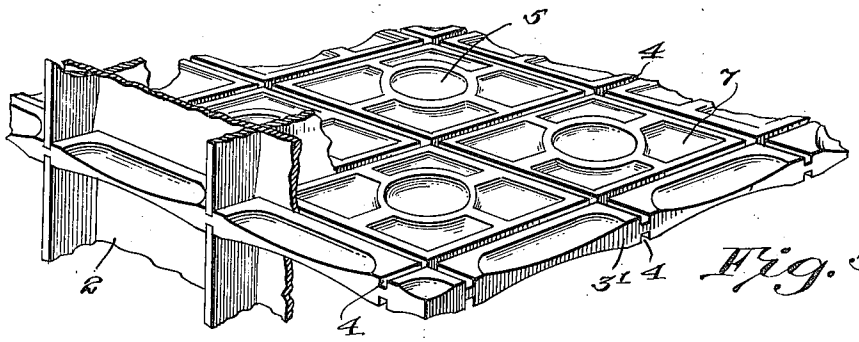


Fig. 5.

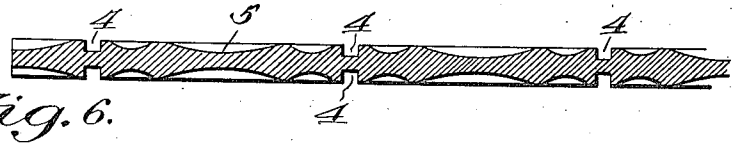


Fig. 6.

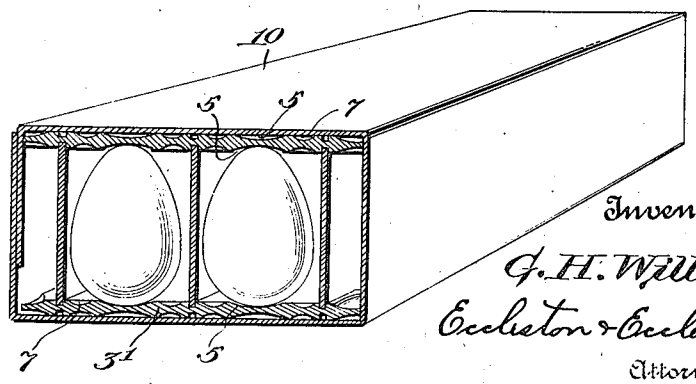


Fig. 7.

Inventor

G. H. Williams

Eccleston & Eccleston

Attorneys.

UNITED STATES PATENT OFFICE.

GEORGE H. WILLIAMS, OF BURNSIDE, KENTUCKY.

FLAT FOR EGG AND OTHER CASES.

1,425,820. Specification of Letters Patent. Patented Aug. 15, 1922.

Application filed December 5, 1921. Serial No. 520,008.

To all whom it may concern:

Be it known that I, GEORGE H. WILLIAMS, a citizen of the United States, residing at Burnside, in the county of Pulaski and State of Kentucky, have invented certain new and useful Improvements in Flats for Egg and Other Cases, of which the following is a full, clear, and exact description.

In shipping eggs in cell cases it very often happens that the horizontal partition will slip to one side, due to rough handling or other causes and allow the eggs to touch each other. These eggs are soon broken thereby softening the cells and partitions and permitting the destruction of a large portion of the box contents. In other cases the cell walls will sometimes break down due to rough handling, etc.

It is the object of my invention to provide a flat for eggs, bottles and similar fragile articles which are packed in cells for shipment, and more especially to provide such a flat which is strong and durable in construction and which will engage the individual walls of the cells in such manner as to prevent their collapsing or shifting in the crate.

Another object of the invention is to provide a flat for egg cases and the like in which the means for engaging the cell walls are so constructed as to prevent their destruction or mutilation while handling or shipping before being put in use.

Other objects and advantages of the invention will be apparent from the following description when taken in connection with the accompanying drawings, in which,

Figure 1 is a side view of a crate with parts broken away to disclose the interior construction.

Figure 2 is a fragmentary perspective view of a layer of egg cells with my invention applied thereto.

Figure 3 is a vertical section through a portion of the flat.

Figure 4 is a side elevation partly broken away and showing a modified form of flat.

Figure 5 is a fragmentary perspective view of the flat shown in Figure 4.

Figure 6 is a vertical section through a portion of the flat, and

Figure 7 is a perspective view of a box for carrying a single layer of eggs, a portion of the box being cut away.

Referring to the drawing more in detail and especially to Figures 1 to 3 inclusive, the numeral 1 indicates the usual form of crate for shipping eggs which is provided with a number of tiers of egg cells 2. It is usual to separate the several tiers of cells by means of flat sheets of card board, straw board or the like, and the present invention comprises a modified form of such a sheet and is indicated by the numeral 3. This sheet is formed by passing the plastic pulp of which it is formed between rollers having such configuration as to provide the intersecting grooves 4 and the circular depressions 5. The grooves 4 are spaced the same distance apart as are the walls of the cells and are adapted to receive the upper and lower edges of these cells, thereby bracing them and preventing collapse due to rough handling or during transportation. The eggs are held in upright position by means of the circular depressions 5. As an additional protection to the eggs pads, 6 may be positioned at the top and bottom of the crate if desired.

In the form of the invention shown in Figures 4 to 7 inclusive the flat 3′ is provided with the same grooves 4 and depressions 5 but in addition thereto I employ the depressions 7 which not only reduce the weight of the flats but also reduce the amount of material required for each flat.

Figure 7 shows a box 10 in which a single layer of cells is used and in this arrangement the flat braces the cell structure as previously described and also provides a cushion for the eggs due to the fact that the depressions 5 provide spaces between the eggs and the top and bottom of the box.

From the foregoing description it will be seen that I have provided a flat which is simple in construction and can be produced at low cost; and furthermore that in use the flat securely engages the edges of the cell walls and braces them against collapse during the rough handling to which they are necessarily exposed.

In accordance with the patent statutes I have described what I now believe to be the best embodiment of the invention, but I do not wish to be understood thereby as limiting myself or the scope of my invention, as many changes and modifications may be made without departing from the spirit of the invention, and all such I aim to include in the scope of the appended claims.

What I claim as new and desire to secure by Letters Patent is:

1. A flat for cell cases including a relatively thin rectangular member of card-

board or the like having oppositely disposed circular depressions in its upper and lower surfaces.

2. The combination with an egg crate and cells therefor, of a flat formed with oppositely disposed circular depressions in its upper and lower surfaces, said flat being positioned between a row of cells and the end of the crate.

3. A flat for cell cases including a member of strawboard or the like, said member being formed with circular depressions in its opposite surfaces, other depressions being also formed in its surfaces.

4. A flat for cell cases including a member of strawboard or the like, having intersecting grooves and circular depressions formed in its upper and lower surfaces, and other depressions also formed in its upper and lower surfaces.

5. A flat for cell cases including a member of strawboard or the like, having intersecting grooves and circular depressions formed in its upper and lower surfaces, other depressions also formed in its upper and lower surfaces, and ribs extending between said last-mentioned depressions.

GEO. H. WILLIAMS.