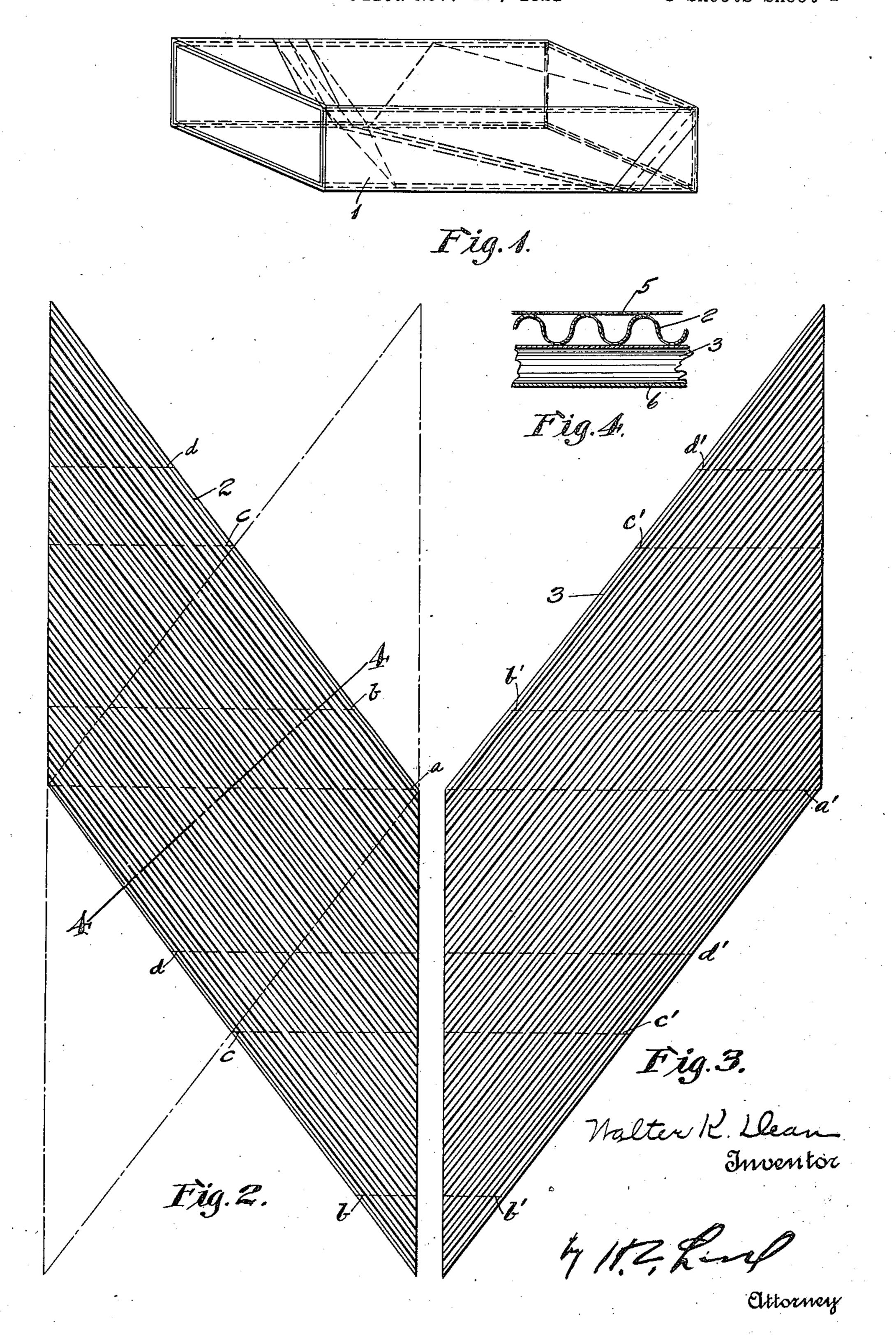
W. K. DEAN

PACKING CASE

Filed Nov. 12. 1921

3 Sheets-Sheet 1

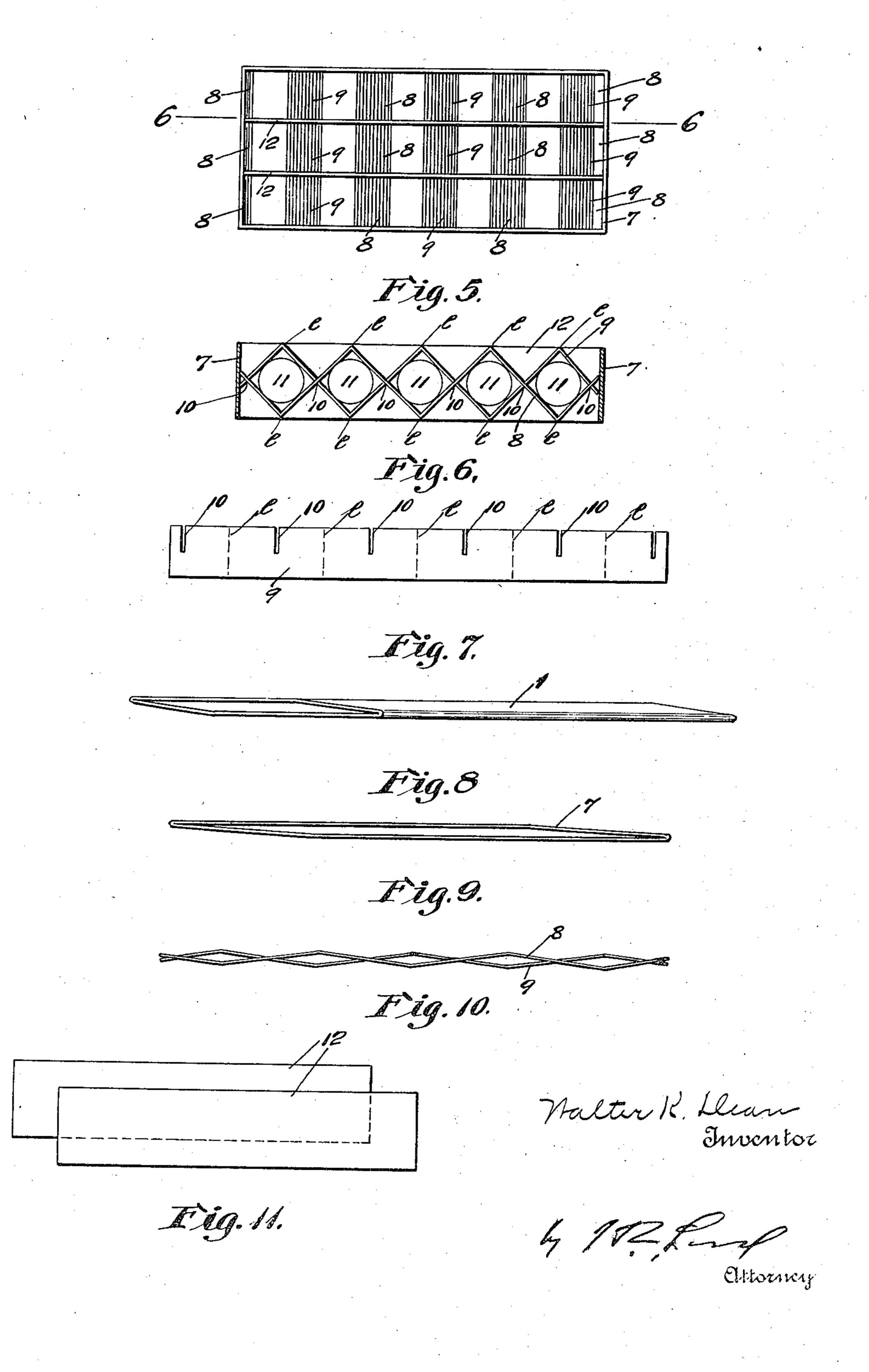


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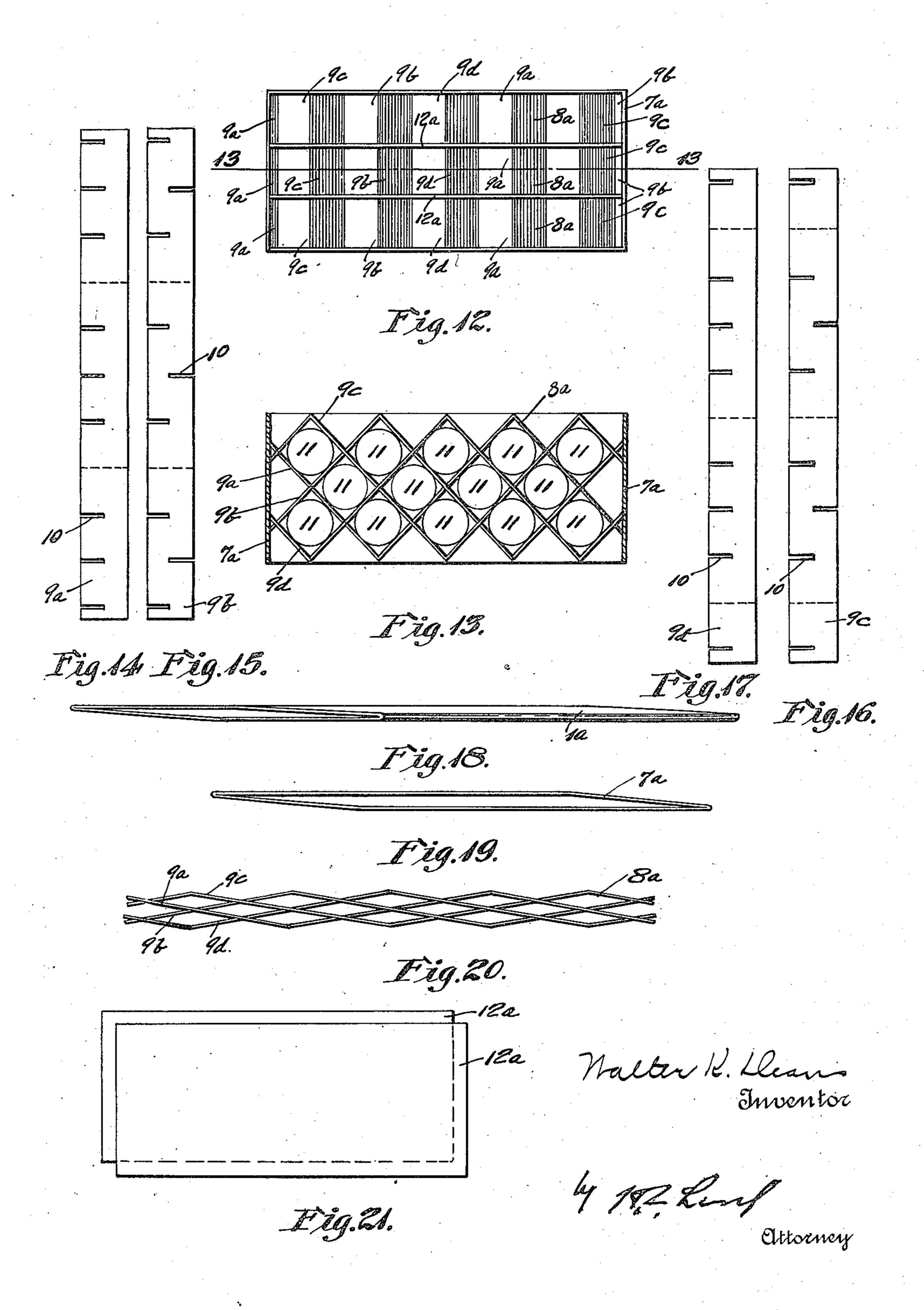


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UNITED STATES PATENT OFFICE.

K. DEAN, OF ERIE, PENNSYLVANIA.

PACKING CASE.

Application filed November 12, 1921. Serial No. 514,537.

To all whom it may concern:

Be it known that I, WALTER K. DEAN, a citizen of the United States, residing at Fig. 20 a side elevation of the pocket piece Erie, in the county of Erie and State of collapsed. 5 Pennsylvania, have invented new and use- Fig. 21 a side elevation of the partition ful Improvements in a Packing Case, of pieces. which the following is a specification.

15 ent parts are collapsible so that the empty so that the joints are as completely broken 20 ing effect of the pockets are all matters of ing out of the corrugations and the reverse manufacture.

panying drawings as follows:—

Fig. 1 shows a perspective view of the case complete.

Figs. 2 and 3 plies of corrugated paper from which the outer case is formed.

Fig. 5 a plan view of parts of the packing case, the outer shell being removed.

Fig. 6 a section on the line 6—6 in Fig. 5. plates or strips.

Fig. 8 a perspective view of the outer shell collapsed.

Fig. 9 an end view of the inner shell collapsed.

Fig. 10, an elevation of the pocket piece collapsed.

pieces separating the pocket pieces in the case.

Fig. 12 a plan view of a part of the case, 45 the outer shell removed showing the pocket In the structure shown in Fig. 12 and folpieces carrying a plurality of rows of lowing a larger unit is formed. In this the pockets.

Fig. 13 a section on the line 13—13 in Fig. 12.

Figs. 14, 15, 16 and 17 elevations of the partition pieces forming the pocket piece.

Fig. 18 a perspective view of the outer shell collapsed.

Fig. 19 an end view of the inner shell collapsed.

1 marks the outer shell. This is made of 60 The purpose of this invention is to pro- two plies of corrugated paper as shown in vide a packing case which may be readily Figs. 2 and 3, the piece as shown in Fig. 2 used for packing fragile articles, such as being first wound into the shape of the shell, eggs, in such a way that they will pass the folds being shown at a, b, c and d. The through ordinary shipments and particular-piece shown in Fig. 3 is then wrapped over 65 ly in the parcels post without breakage. this first being supplied with adhesive ma-Preferably the case is such that the constitu- terial and preferably the folds are reversed cases may occupy small space both for ship- as possible. The layers of paper 5 and 6 are ping and for storage. In carrying out the then secured to the inner and outer surfaces 70 invention the collapsible features, the of these plies. This makes a very rigid constrength of the receptacle, and the cushion-struction, the paper preventing the flattenconsideration together with the cheapness of direction of the corrugations giving rigidity in both directions. An inner shell 7 has 75 The invention is illustrated in the accom- openings extending through it and is assembled with the outer shell by placing it within the outer shell, the outer shell closing the openings in the inner shell and the side walls of the inner shell closing the openings of the 80 outer shell. Both of these shells are col-Fig. 4 a section on the line 4—4 in Fig. 2. lapsible so that they may be readily shipped empty or stored. The pocket pieces 8 are formed of partition strips 9 which extend in the form of a zig zag in parallel diagonal 85 Fig. 7 an elevation of one of the partition lines and with return bends at the upper and lower edges of the pockets, the strips being provided with slits or notches 10 at the crossings so as to permit the interlapping of the strips. The eggs 11 are placed 90 in the pockets so formed. This pocket strip is collapsible as shown in Fig. 10. In the smaller unit 1 the inner shell ordinarily is Fig. 11 a front elevation of the partition provided with a plurality of the pocket pieces and the different pieces are separated 95 by separating plates 12 formed preferably of corrugated paper.

outer shell 1° corresponds to the shell 1 and 100 the inner shell 7° corresponds to the shell 7. The pocket piece 8ª is made up with a plurality of rows. This is formed by carrying the strips with a plurality of crossings in each diagonal direction but the strips have the return bends at their upper and lower

edges as in the construction shown in Fig. being oppositely notched and interlapped at provide them for a plurality of rows of piece being collapsible. pockets is illustrated in Figs. 14, 15, 16 and 5. In a packing case, the combination of 5 17 wherein are shown the strips 9^a, 9^b, 9^c a container; and a pocket piece comprising and 9d as formed prior to the assembling a series of parallel zig zag shaped partithe top and bottom is accomplished. The container with return bends at the container case is provided with a plurality of the walls, said strips crossing each other and pocket pieces 8ª and these are separated by being oppositely notched and interlapped at the separating plates 12a. As will be seen the crossings, said partition strips having a that these parts may be put together and forming a series of rows of pockets, said readily stored or shipped. container and pocket piece being collapsible.

This provides a very rigid packing case 6. In a packing case, the combination of a

as eggs from undue breakage.

What I claim is new is: strips extending diagonally across the con-25 tainer with return bends at the container

walls, said strips crossing each other and the crossings. being oppositely notched and interlapped at 7. A container case formed of two plies 80

the crossings.

30 container; and a pocket piece comprising a edges extending diagonally across the shell strips extending diagonally across the con- a direction at an angle to the corrugations 85 tainer with return bends at the container of the other shell. walls, said strips crossing each other and 8. A container case formed of two plies being oppositely notched and interlapped at of corrugated paper, each ply being wound forming a series of rows or pockets.

40 a container; a plurality of pocket pieces the other shell, the joints between the edges each comprising a series of parallel zig zag of the two shells being broken. at the container walls, said strips crossing a shell and having its meeting edges ex-45 each other and being oppositely notched tending diagonally across the ply, the slant and interlapped at the crossings; and sep- of the edges making the ply of sufficient

50 a series of parallel zig zag shaped partition of the other ply. strips extending diagonally across the con- In testimony whereof I have hereunto set tainer with return bends at the container my hand. walls, said strips crossing each other and

6. The notching of the strips in order to the crossings, said container and pocket 55

and with the lines on which the bending at tion strips extending diagonally across the 60 all the parts 1a, 7a and 8a are collapsible so plurality of crossings in each direction and 65

so far as resisting crushing strain is con- container comprising two telescoping shells cerned and at the same time there is suf- open at their ends, one shell opening in a 70 ficient cushioning effect to save such articles direction at right angles to the opening of the other when assembled; and a pocket piece within the container comprising a 1. In a packing case, the combination of series of parallel zig zag shaped partition a container; and a pocket piece comprising strips extending diagonally across the con- 75 a series of parallel zig zag shaped partition tainer with return bends at the container walls, said strips crossing each other and being oppositely notched and interlapped at

of corrugated paper, each ply being wound 2. In a packing case, the combination of a to form the shell and having its meeting series of parallel zig zag shaped partition and the corrugations of one shell being in

the crossings, said partition strips having to form the shell and having its meeting a plurality of crossings in each direction and edges extending diagonally across the shell 90 and the corrugations of one shell being in a 3. In a packing case, the combination of direction at an angle to the corrugations of

shaped partition strips extending diago- 9. A container formed of two plies of cor- 95 nally across the container with return bends rugated paper, each ply being folded to form arating plates between the pocket pieces. length to make two wraps of the shell, and 100 4. In a packing case, the combination of one ply being secured to the other with its a container; and a pocket piece comprising corrugations at an angle to the corrugations

WALTER K. DEAN.