

F. EMMONS.

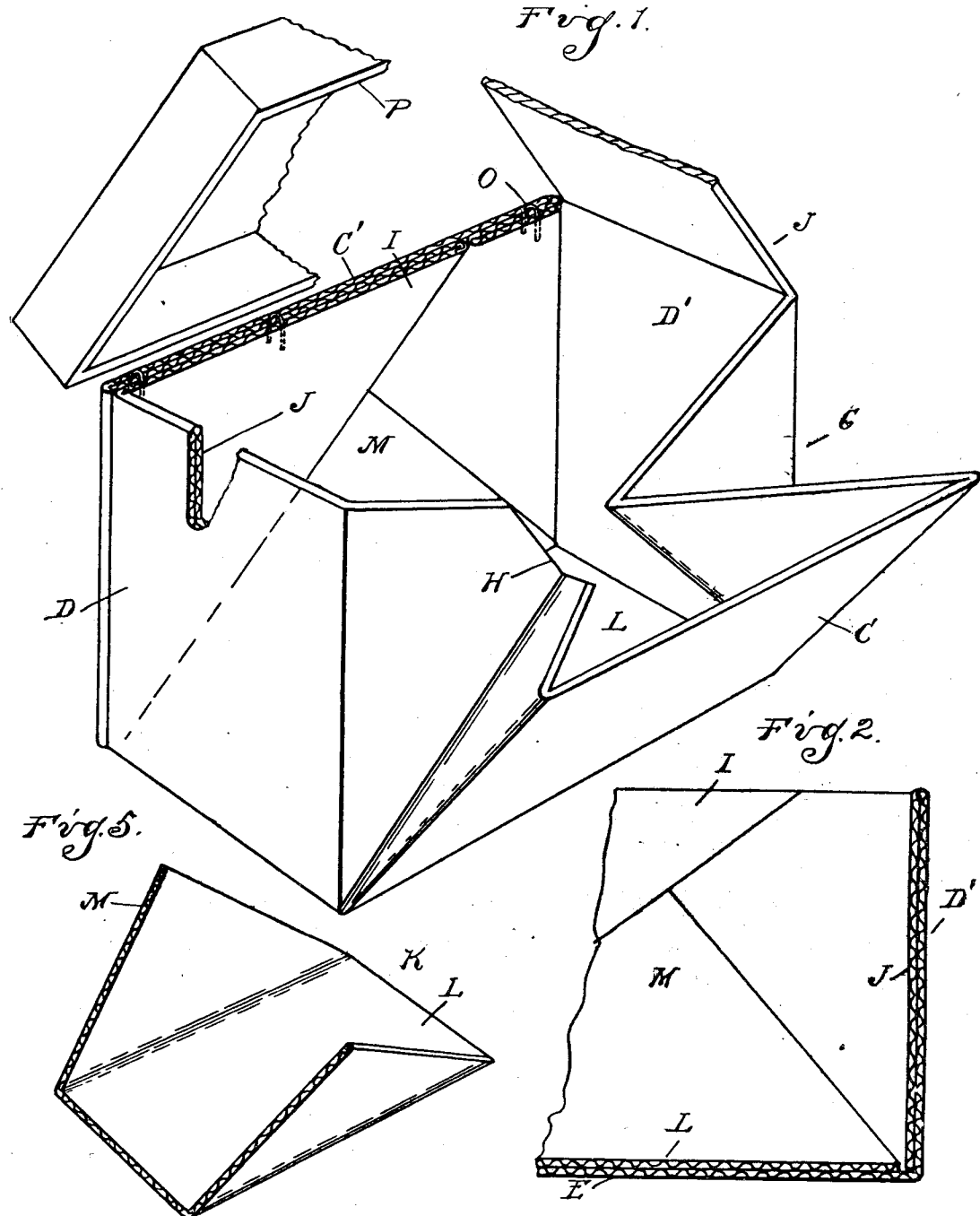
PACKAGE.

APPLICATION FILED APR. 20, 1911.

1,061,531.

Patented May 13, 1913.

2 SHEETS—SHEET 1.



Inventor

By Frederick K. Emmons
[Signature]

Witnesses
W. H. Ford
C. B. Knapp

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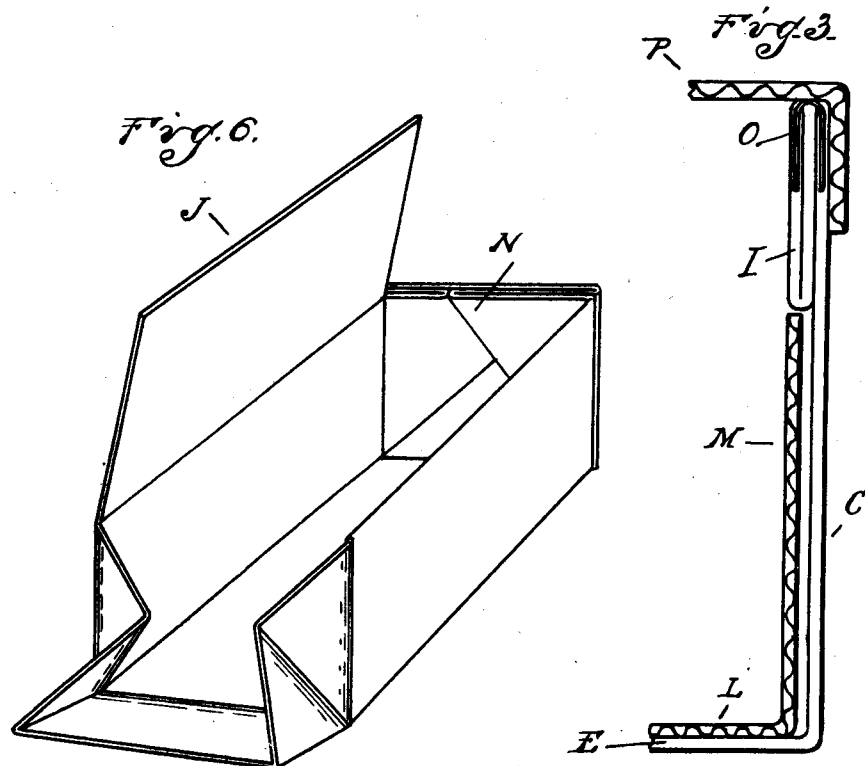
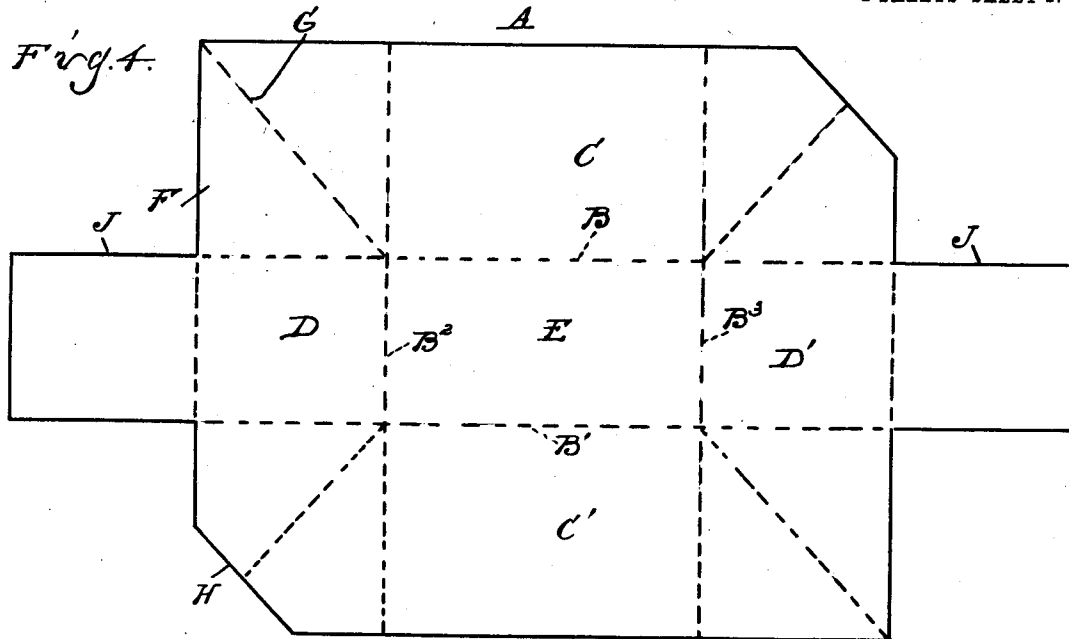
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Witnesses
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UNITED STATES PATENT OFFICE.

FREDERICK EMMONS, OF SANDUSKY, OHIO, ASSIGNOR TO HINDE & DAUCH PAPER COMPANY, OF SANDUSKY, OHIO, A CORPORATION OF OHIO.

PACKAGE.

1,061,531.

Specification of Letters Patent.

Patented May 13, 1913.

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To all whom it may concern:

Be it known that I, FREDERICK EMMONS, a citizen of the United States of America, residing at Sandusky, in the county of Erie and State of Ohio, have invented certain new and useful Improvements in Packages, of which the following is a specification, reference being had therein to the accompanying drawings.

It is the object of the invention to obtain a construction of package particularly adapted for use in the shipment of certain classes of goods such for instance as high explosives which require handling with the utmost care, and must be carefully guarded against impact or jar.

To this end the invention consists in the peculiar construction of the cushioned receptacle as hereinafter set forth.

In the drawings,—Figure 1 is a perspective view of the package in partially knocked down position; Fig. 2 is a longitudinal section; Fig. 3 is a cross section; and, Fig. 4 is a plan of the blank. Fig. 5 is a perspective view of the insert; Fig. 6 is a perspective view of a box of slightly modified construction.

The material from which my improved package is constructed is preferably cellular paper board and preferably the double-faced board. This material on account of its structure has a large element of rigidity and also is sufficiently yielding to cushion the article contained therein. It is however, necessary in the protection of high explosives such as dynamite, not only to protect the same from jar but also to use a liquid proof package which will prevent the leakage of any of the contents, and further to avoid all metallic contact. This result I have secured by a package of the following construction:

A is a blank which as shown in Fig. 4 is scored longitudinally and transversely along the lines B, B¹, B² and B³ to form the sides C, C¹, ends D, D¹ and bottom E of a rectangular box. The portions F at the corners intermediate the sides and ends are scored diagonally at G and the arrangement is such that the blank may be folded into rectangular form by folding the corners to overlap the sides or ends. Where the length of the box is less than twice its height the gores or folded portions are preferably arranged adjacent to the sides and to prevent the gores

from overlapping each other, one is cut-away. Thus as shown at H, the corner of the blank is cut-away while the opposite corner is left full and in folded position overlaps the cut-away corner as shown at I in Fig. 1. J are tabs or projections on the blank opposite the ends D and D¹ which are adapted to fold inside the latter to produce a two-ply thickness of end wall.

K is an insert or separate blank having a portion L corresponding to the bottom E, and triangular shaped or gored portions M which fit in the recesses beneath the overlapping gores at the sides. Thus when assembled the box or package will present a smooth interior having two of its walls and bottom formed of a plurality of plies of material.

To secure greater strength the overlapping gores on opposite sides of the box extend over opposite ends thereof, thereby avoiding alining the joints upon the opposite sides. Where the length of the box is greater than twice the height the gores instead of being arranged to overlap the sides are folded over the ends as shown at N in Fig. 6, while the tabs or projections J¹ are arranged to overlap the sides.

For securing the blank in folded position, I preferably employ staples O which are inserted into the walls of the cellular board on the edges thereof, as shown in Fig. 1. This avoids exposure of any metallic surface and also permits of knocking down the package at any time by withdrawing all the staples.

The receptacle may be closed by any suitable cover such as indicated at P, or two boxes of the same structure may be arranged to telescope with each other.

The package constructed as described will form a safe container for high explosives, as the several plies constituting each of the walls, and the bottom will form a resilient cushion protecting the contents from impact. Furthermore, the package may be easily knocked down by withdrawing the staples and folding out the blanks which facilitates returning to the original point of shipment.

What I claim as my invention is:

1. A rectangular package formed of a blank having two of the opposite walls thereof each folded to provide gore portions, leaving a space between the gores, and an insert having a portion covering the bot-

tom and provided with gore portions of a size only to fill the space between said gores of the walls.

2. A rectangular package formed from a folded blank having two of the opposite walls thereof each formed of a plurality of plies of substantially the same size, and the other opposite walls each having folded gore portions forming a space between the gores and an insert having a portion covering the bottom and provided with gore portions of a size only to fill the space between the gores of the walls.

3. A rectangular package formed of a folded blank having two of the opposite walls thereof each formed of a plurality of plies of substantially the same size and the other opposite walls having folded gores, one of the gores having a portion cut away to permit of the gores lying in the same plane, there being a space formed between the gores, and an insert having a portion

completely covering the bottom and gore portions of a size only to fill said space between the gores of the walls.

4. A rectangular package formed of a folded blank having two of the opposite walls thereof provided with extensions of substantially the same size as the walls and folded downward within the package and the other opposite walls having folded gores, one of the gores having a portion cut away to permit the gores to lie in the same plane, there being a space formed between the gores, and an insert having a portion completely covering the bottom and gore portions of a size only to fill said space between the gores of the walls.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK EMMONS.

Witnesses:

C. N. KIEFER,

LOUIS R. WENDT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."