

979,812.

Patented Dec. 27, 1910.

2 SHEETS—SHEET 1.

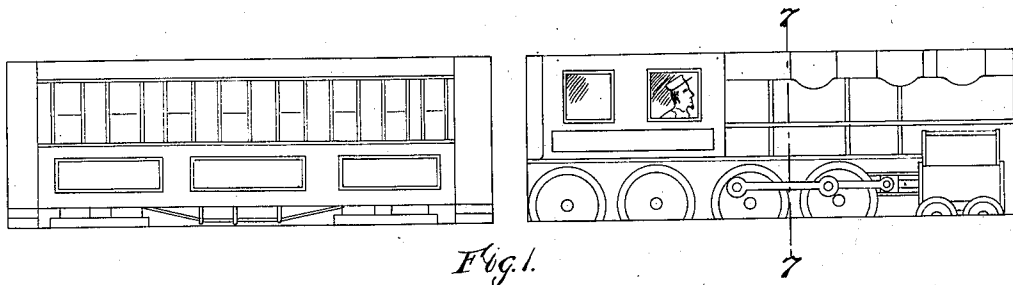


Fig. 1.

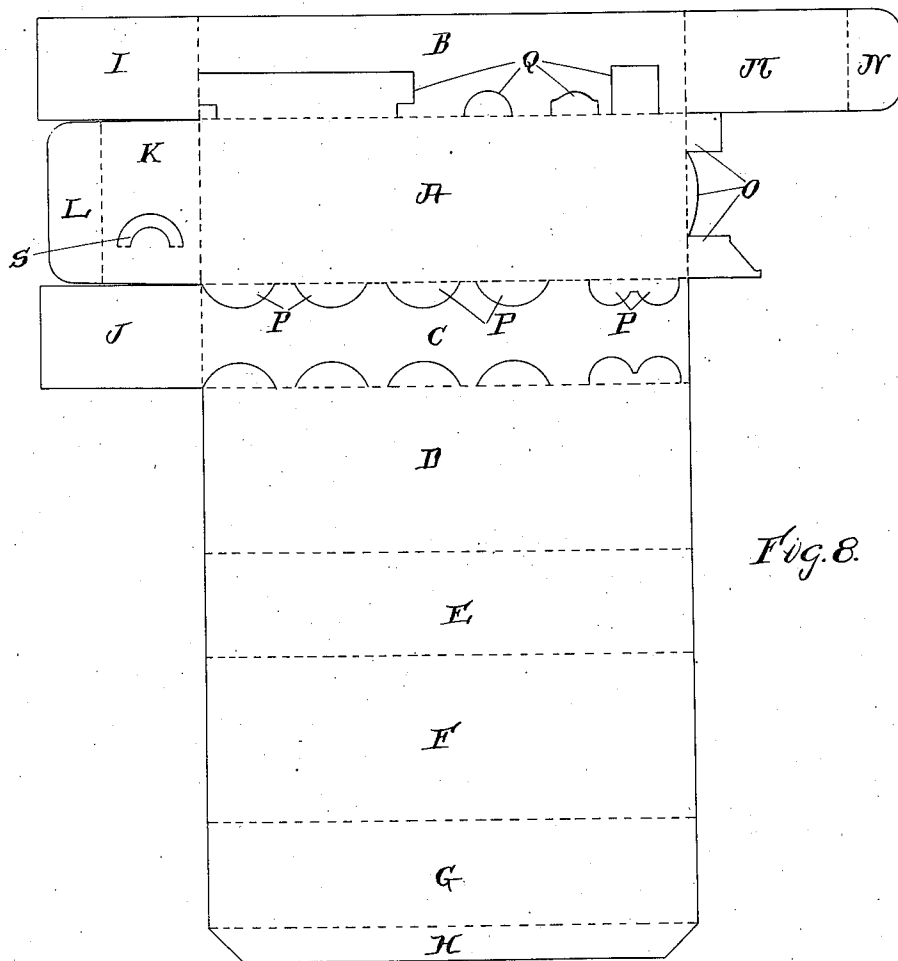


Fig. 8.

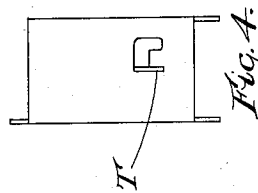
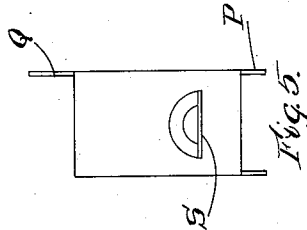
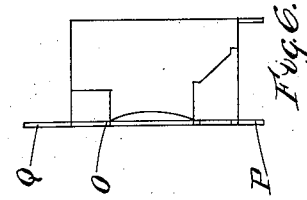
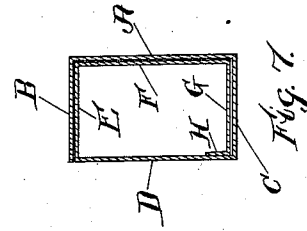
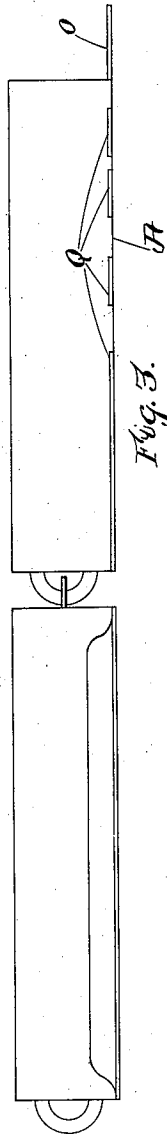
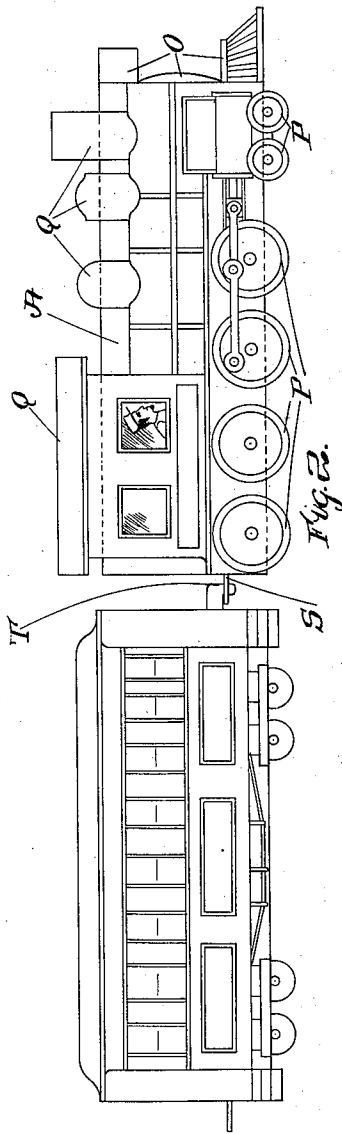
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2 SHEETS—SHEET 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

PETER R. WARREN, OF LOWELL, MASSACHUSETTS.

BOX.

979,812.

Specification of Letters Patent.

Patented Dec. 27, 1910.

Application filed December 30, 1909. Serial No. 535,592.

To all whom it may concern:

Be it known that I, PETER R. WARREN, a citizen of the United States, residing at Lowell, county of Middlesex, State of Massachusetts, have invented a certain new and useful Improvement in Boxes, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to card board boxes intended to contain confectionery and like articles.

The particular object of my invention is to construct a pasteboard box or container in such a form that when the articles contained therein have been removed the said box may be used as a toy for children. With this object in view I form certain portions of the box of more than one thickness of material and print upon one side of the box a portion of the representation of the toy which the box is to represent when emptied. The remaining portions of the figure are printed upon flaps which are ordinarily hinged to the said face of the said box and are died out from the outer thickness of the material of which the box is formed. These flaps when bent outwardly from their normal position so that they lie in the plane of the front face of the box or in a plane parallel thereto, complete the outline of the object which the box represents. The material is chosen to have sufficient stiffness so that if desired the box may be supported on the said flaps as upon legs. I also contemplate making these boxes or toys in series representing different but related objects, as for instance, a locomotive and train of cars or a string of canal boats so that a child may obtain the entire series by successive purchases. With this in view, I contemplate forming male and female connecting means on the proximate ends of the boxes forming the series so that the boxes successively purchased may be linked together.

The invention will be fully understood from the following description taken in connection with the accompanying drawings, and the novel features are pointed out and clearly defined in the claim at the close of this specification.

In the drawings,—Figure 1 is a front view of two boxes embodying my invention and printed and constructed to represent a locomotive and a passenger car, said boxes being in their normal condition. Fig. 2 shows

the same boxes with the flaps opened. Fig. 3 is a top plan view of said locomotive and car. Fig. 4 is an end view of the front end of the passenger car. Fig. 5 is an end view of the rear end of the locomotive. Fig. 6 is a similar view of the front end of the locomotive. Fig. 7 is a section on line 7—7 of Fig. 1. Fig. 8 is a plan view of the blank employed in the production of the locomotive. In this figure the outline together with the creases and cuts formed in the blank are shown but the printing is omitted for the sake of clearness.

Referring now to the embodiment of my invention shown in the drawings: at A is shown the front face of the box. On this front face is printed as much of the picture of the locomotive as is permitted by the space. This is plainly shown in Fig. 1. Connected with the upper line of the front face A is the outer top B, which when the box is made up forms the outside layer of the material. At C is shown the outside layer of material of the bottom, the back is indicated at D, the inside layer of the top at E, the inside layer of the front at F, the inside layer of the bottom at G and the gluing strip at H. Said parts are separated from each other by creases or scored lines as indicated by dash lines in Fig. 8. The arrangements of these parts when the box is made up may be seen from Fig. 7, which is a sectional view.

The left hand end of the box is closed by end flaps I and J attached respectively to the outer top B and outer bottom C and by the end K attached to the front face A. Said end K is provided with a tuck L in the usual manner. The right hand end of the box is closed by the end M and tuck N, or in any other convenient manner.

The head light, rounded end of the boiler, and cow-catcher are formed from flaps attached to the adjacent edge of the front face A being died or otherwise cut out to have an outline corresponding to the outline of the respective parts of the locomotive which they represent. Said flaps are indicated at O in the drawings.

The portions P of the wheels which fall outside the limits of the front face A of the box are cut out of the adjacent portions of the outer layer C of the bottom of the box. In like manner such portions of the locomotive as project above the upper edge

of the box are cut from the outside layer B of the top of the box. These portions are, in the embodiment of the invention illustrated in the drawings, the upper portion of the smoke stack, steam dome, sand box and cab and are marked Q in the drawings. All of said projecting portions are printed to represent the corresponding parts of the locomotive.

10 It is essential that the faces of the box from which the flaps P, P, and Q, Q are cut should be composed of two layers of material because otherwise the cutting out of the flaps would leave corresponding holes which 15 would allow the contents of the box to escape. In the embodiment of my invention shown in the drawings, the box is of the well known folding type being formed from a single piece of material cut to proper 20 shape, and folded together being glued as required. In this case, provision for two thicknesses of card board is readily made in the manner shown, that is, by forming the box so that portions overlap. In the box 25 shown in the drawings, the board composing the box is glued at the point when the strip H comes in contact with the rear wall D and the outer and inner layers composing the top are glued together along the rear 30 edge, thus holding the parts securely without interfering with the opening of the flaps.

The rear wall of the locomotive is provided with a V-shaped coupling member S cut from the rear end K and bent to stand 35 in a substantially horizontal position as shown. The front end of the car is provided with a hook T similarly constructed but lying in a plane at right angles to that of the plane of the other coupling member 40 S. Said coupling members may be ornamented with the representation of a coupling if desired. It will be seen that the male member T engages the female member S and thereby secures the two boxes together 45 after the manner of a train of cars. The rear end of the car is provided with a female coupling member like that on the rear end of the locomotive, thereby affording means for connecting another car to the rear 50 end of the train.

The car is constructed similarly to the en-

gine and does not require a detailed description.

When the boxes embodying my invention are set up ready to be filled with candy, the 55 flaps are in the position shown in Fig. 1 being in the plane of the top or the bottom as the case may be, and in the case of the flaps O may be folded under the end M for better protection. When the child, into whose 60 hands the box comes, has removed the contents of the box he can lift up the flaps into the plane of the front face of the box thereby giving the box the appearance of the object, the representation of which is printed on it. 65 The material of which the box is made is ordinarily of sufficient strength and stiffness so that the box may be supported on the flaps cut from the bottom as upon legs. If the child has more than one box of a series 70 as for instance, the engine and car, he may connect them by means of the coupling arrangement with which they are provided. This tends to induce the child to buy others of the series and assists greatly the sale of 75 the goods.

I find that my improved box provides a cheap and attractive toy which costs about the same as the ordinary card board box, but which is much more salable by reason of the 80 fact that the child gets an attractive toy which would otherwise cost much more.

What I claim is:—

The combination with a folding box having printed on one side thereof the representation of an object and having flaps 85 hinged to the edges of said side and printed with representations of other portions of said object, of a second box similarly printed to represent an object, and having representations of projecting portions printed upon 90 flaps hinged to the edges of a side thereof, one of said boxes having a male coupling member and the other of said boxes having a female coupling member whereby the two 95 boxes may be mechanically connected.

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

PETER R. WARREN.

Witnesses:

GEORGE P. DIKE,
ALICE H. MORRISON.