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# UNITED STATES PATENT OFFICE

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## CARTON

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The present invention relates to a new and useful improvement in paper boxes, and more particularly to foldable paper board boxes or cartons, having integral top closure sections, which are adapted to contain cigarettes or similar articles.

An object of the present invention is to provide a carton which may be cheaply and economically manufactured from a single blank of sheet material and which is adapted to be quickly and easily assembled with a minimum amount of time and effort.

Another object is to provide a carton of the character described which is cut and scored so that when assembled a bottom portion is formed which comprises an inner and outer section.

Still another object is to provide an improved locking means whereby the bottom portion of a carton of the class described may be securely locked in assembled relation.

To these and other ends the invention resides in certain improvements and combinations of parts, all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawing:

Fig. 1 is a perspective view of a carton embodying the present invention, portions of the carton being broken away to more clearly disclose the structure; and

Fig. 2 is a plan view of the blank from which the carton is formed.

Similar reference numerals throughout the several views indicate the same parts.

The present invention provides a set-up carton or box which is particularly adapted to contain cigarettes in lots of fifty, although it can obviously be employed to advantage for other purposes, and is adapted to be formed from a single sheet of bendable paper or fibre board. In set-up condition the present carton in its preferred form comprises a bottom portion having an integral top or closure section hinged thereto. The bottom portion of the carton comprises an inner and outer section, the inner section being provided with a locking flap integral therewith whereby the bottom section may be securely locked in set-up position.

Referring more particularly to the drawing, the blank 10, in the present instance, is cut and scored to provide a bottom portion 11, main or outer side walls 12, 12 separated from the bottom 11 by score lines 13, 13 and inner side walls 14, 14 separated from the outer side walls by score lines 15, 15. Main or outer end walls 16 and 17 are formed on the remaining ends of said bottom 11, and are separated therefrom by score lines 18 and 19, respectively. The score line 20 separates end wall 17 from the portion 21, of the blank 10, which forms the top of the box. Main or outer side walls 22, 22 are formed on opposite sides of said top wall 21 and are separated therefrom by score lines 23, 23, and inner side walls 24, 24 are hinged to the side walls 22, 22 along score lines 25, 25. Score lines 26, 27 and 28 divide the free end of the top 21 into a main or outer end wall 29, an inner end wall 30, and a locking flap 31.

An inner bottom wall 32 is formed integral with the outer edge of end wall 16, and is separated therefrom by score line 33. The inner bottom 32 is scored along lines 34, 35, 36 and 37 to provide inner end walls 38 and 39, an outer end wall 40 and a locking flap 41.

Side wall flaps 42, 42 and 43, 43 are provided on the ends of side walls 12. 12 and flaps 44, 44 are provided on the outer ends of side walls 22, 22. Reinforcing flaps 45, 45 are also preferably provided on the ends of the inner side walls 14, 14 and 24, 24, whereby when the carton is set up the corners thereof will be additionally reinforced.

The inner faces of the side walls 12 and 14, and 22 and 24 are preferably coated with suitable adhesive so that they may be se-

wall for said carton and adapted to engage the laterally extending flaps on the adjacent side walls, and a locking flap on the free edge of said last mentioned outer end wall, said locking flap adapted to be inserted between said bottom members to hold the carton in assembled relation.

3. A collapsible carton comprising in combination, a bottom section, inner and outer side walls integral with opposite sides of said bottom adapted to fold upon each other, flaps on opposite ends of said side walls adapted to lie inwardly of said carton and at right angles to their respective side walls, and a section integral with said bottom, said section scored to provide an inner bottom adapted to lie upon said first mentioned bottom when the carton is assembled, and inner and outer end walls for the carton adapted to enclose the flaps on the side walls, and means for frictionally holding said bottom sections in assembled relation, said means comprising a locking flap integral with the free edge of one of said outer end walls and adapted to be inserted between said bottom sections.

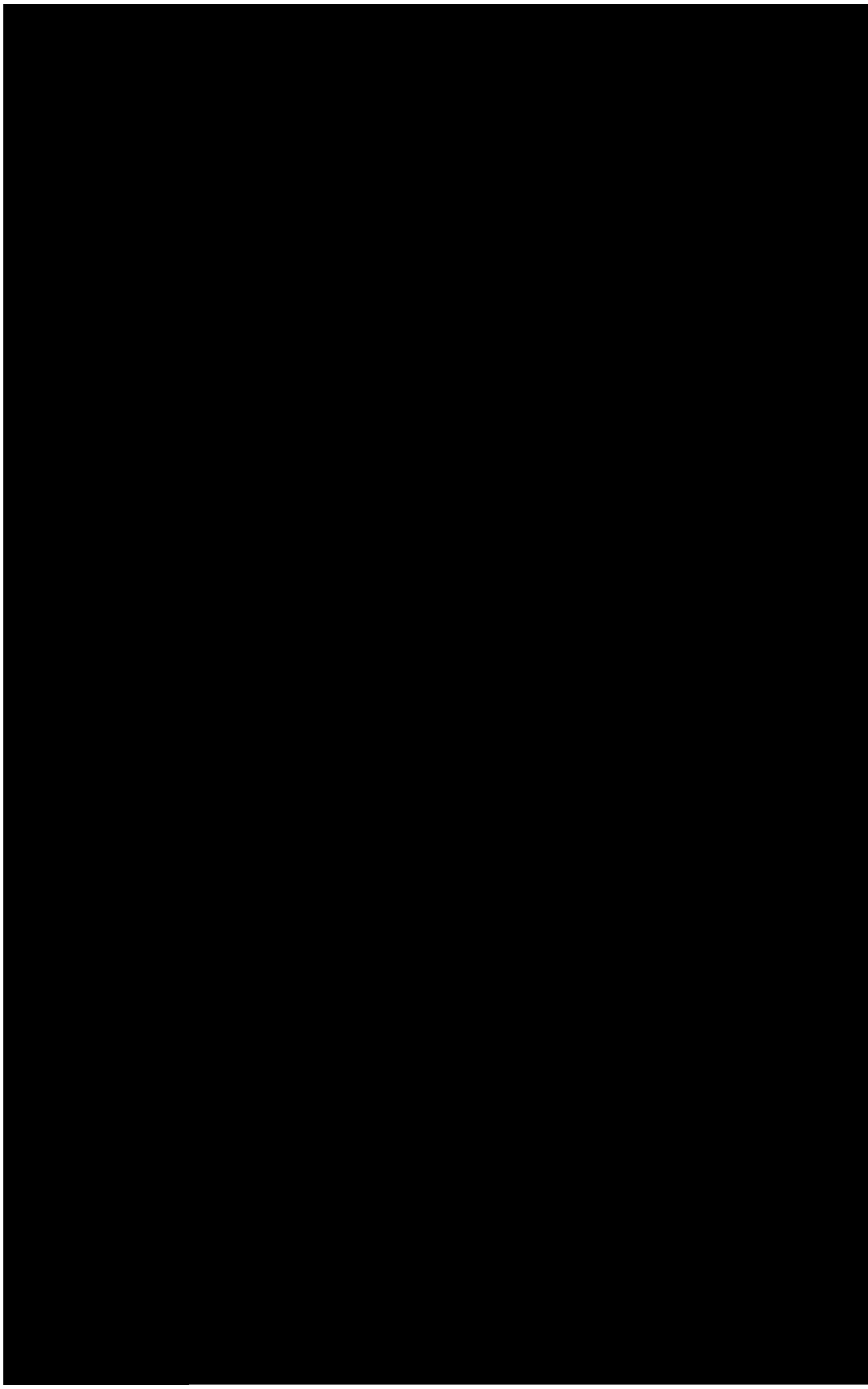
4. A carton of the character described having top and bottom sections adapted to be swung into interfitting relation and each comprising a main wall with side walls and an end wall swingable relative thereto, an additional section integral with the end wall of said bottom, said additional section being scored to provide an inner end wall adapted to lie against said end wall on the bottom section, an inner bottom, and an inner and outer end wall for the remaining end of the bottom section, and means for holding said bottom section in assembled relation, said means comprising a locking flap on the free edge of said last mentioned outer end wall adapted to be inserted between the two bottoms.

5. A carton formed from a blank of sheet material, comprising a bottom portion, side walls on opposite sides thereof, inner and outer end walls on one end of said bottom, an inner bottom portion integral with said inner end wall and adapted to lie upon said first mentioned bottom, an inner and outer end wall on said inner bottom opposite said first mentioned end walls adapted to form the remaining end wall for said carton, and means for frictionally locking said carton in assembled position, said means including a locking flap on said last mentioned outer end wall adapted to be inserted between said bottom portions.

6. A carton formed from a single blank of foldable material and comprising a bottom, side walls on opposite sides of said bottom, side wall flaps on the ends of said side walls, an inner and outer end wall at one end of said bottom adapted to enclose the adjacent side wall flaps, an inner bottom integral with the inner end wall, an inner and outer end wall on said inner bottom opposite said first mentioned end walls adapted to form the remaining end wall for said carton, said last mentioned inner and outer end walls adapted to enclose their adjacent side wall flaps, and a locking flap on said last mentioned outer end wall adapted to be inserted between the bottom members to frictionally hold the carton in assembled relation.

Signed at Chicago, Illinois, this 5th day of January, 1932.

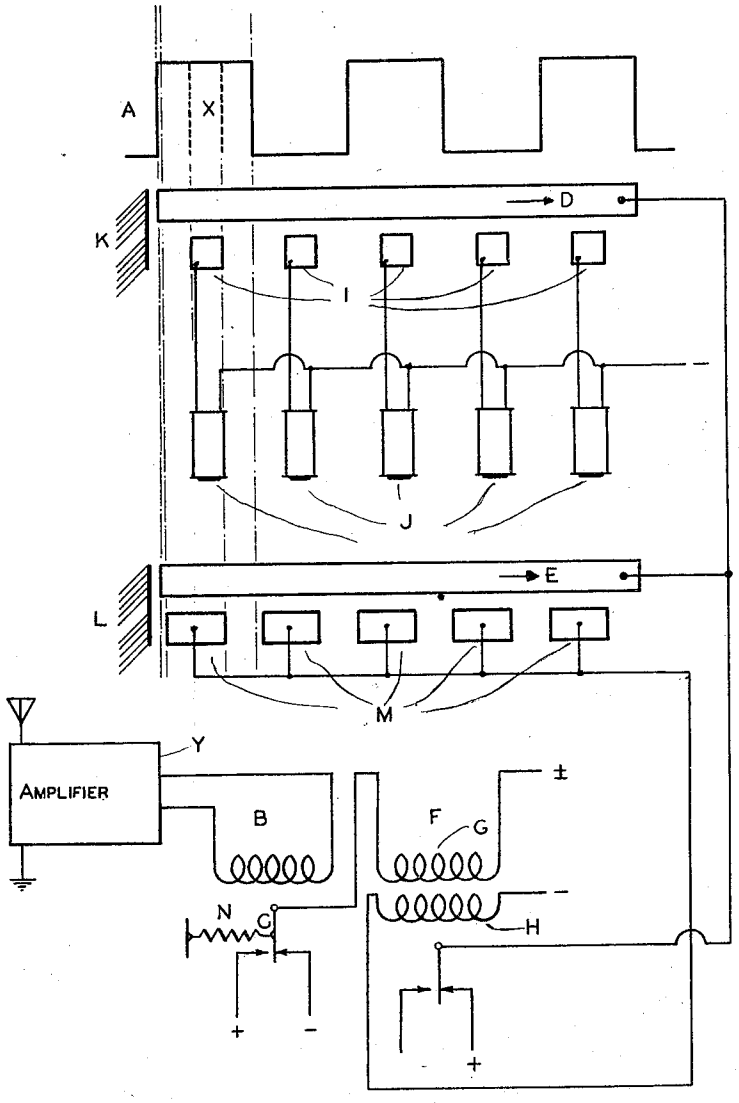
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TELEGRAPH SYSTEM

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