

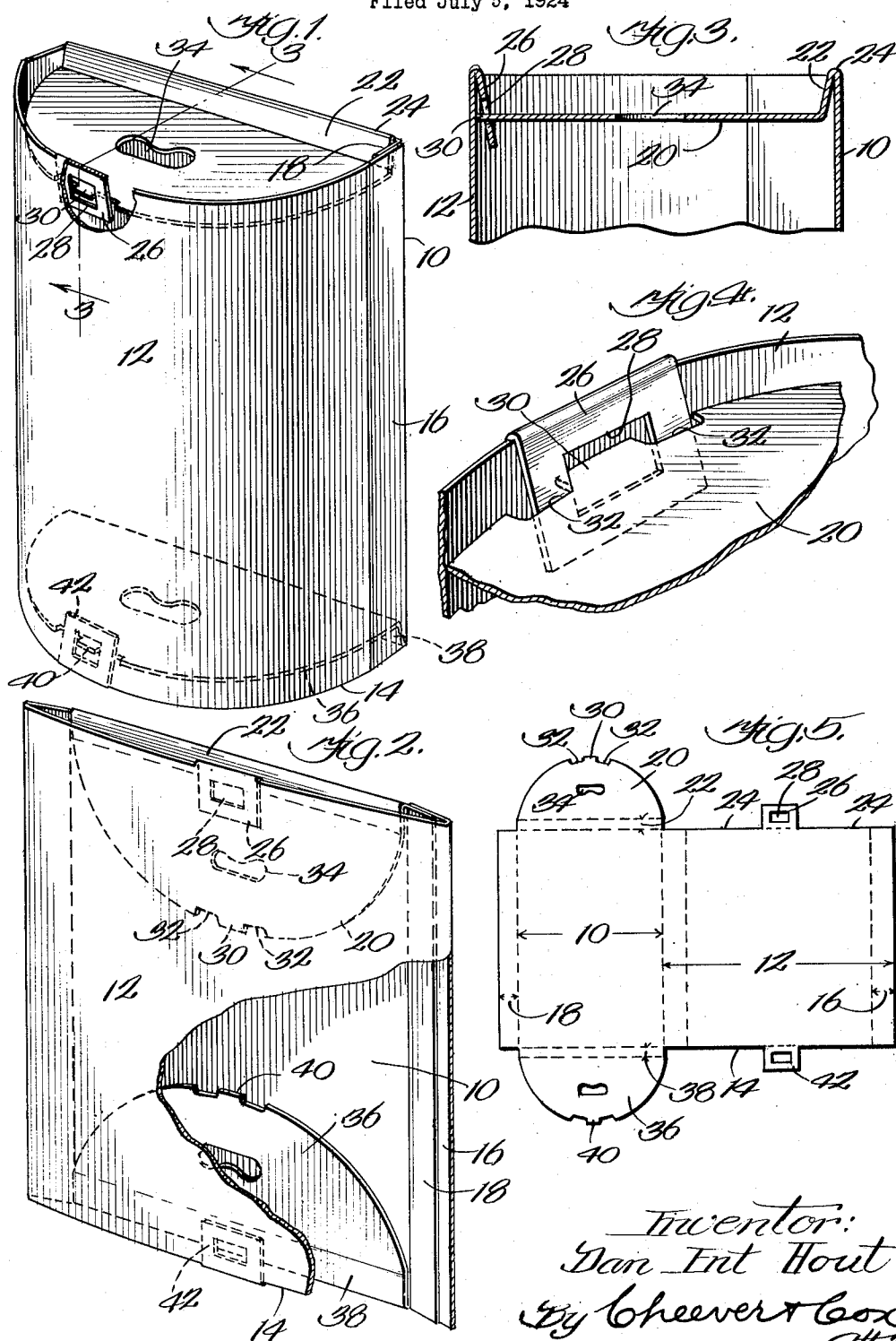
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DISPLAY CARTON

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UNITED STATES PATENT OFFICE.

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DISPLAY CARTON.

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To all whom it may concern:

Be it known that I, DAN INT HOUT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Display Cartons, of which the following is a specification.

This invention relates to conventional, tubular, specifically semi-cylindrical display cartons used in stores and the like for retaining under cover goods readily accessible when the cover is opened.

The object of the invention is to produce a structure equipped with resilient or spring parts tending to detachably hold the cover in locked position and more particularly to make the entire structure from a one-piece stamping of paper, card-board or other suitable material.

The invention consists in means for attaining the foregoing and other objects; which can be easily and cheaply made; which is satisfactory in use and is not readily liable to get out of order, and in numerous features and details of construction which will be hereinafter more fully set forth in the specification and claim.

Referring to the drawings in which like numerals designate the same parts throughout the several views:

Figure 1 is a perspective view of the device of this invention at it appears on a store counter or floor in the actual business of handling goods.

Figure 2 is a perspective view of the carton in collapsed form for shipping.

Figure 3 is a sectional detail view on the line 3—3 of Figure 1.

Figure 4 is a perspective view taken from the back of Figure 1 showing the front edge of the cover and the lock therefor.

Figure 5 is a reduced size plan view of the blank from which the finished carton is folded; viz: it is the one-piece stamping which makes the entire carton.

The tubular: specifically semi-cylindrical body or box of the carton, appearing in expanded form in Figure 1, having a rear wall 10 and convex front 12 is made preferably by conventional stamping from a single, rectangular sheet 14, having at one end (at one side of the front 12) flap 16, adapted, when in the position of Figures 1 and 2 to overlap and be secured by paste, rivets or other suitable means to a flap

18 at the opposite end of said blank 14 (adjacent to the back 10). Formed on an edge of blank 14, which is to be the upper edge 24 of the finished carton and positioned at the end of the back section 10 of the blank 14 is a cover flap 20 of proper size and shape to fit inside of the opening in the top of the carton assembled in Figure 1. The cover 20 is integrally connected to the back section 10 by a narrow, rectangular hinge section 22, extending in the final folding of the carton down from its top edge 24 for a short distance inside the carton, and in the final closing of the carton resting in close proximity to the rear wall 10 of the carton (see Figure 3). However, because of the resiliency of the material of the structure, this member 22 always tends to spring away from and clear wall 10 as seen in Figure 3. Similarly, the top edge 24 of the carton, at the center of the curved front section 12, is provided with an integral latch flap 26 bent over the front edge of the curved section 12 of the carton, and then downward inside the carton to receive through a perforation 28 a locking tooth 30 formed at the middle of the front edge of the cover 20.

Owing to the fact that the flap 26 is integral with the front wall 12 of the carton and that the material of the carton is of more or less resilient material, this inturned locking flap 26 tends to assume the inclined position of Figures 3 and 4 and to lock into notches 32 in the cover 20 on opposite sides of the tooth 30. For the same reason, the resiliency of the material in rectangular flap section 22 always tends to force cover 20 to the left, as viewed in Figure 3, or toward the front of the carton thus urging the cover into engagement with the resilient locking flap 26. Because of the construction described, the cover is always automatically detachably locked in the position shown in Figures 1 and 3. It is releasable by an operator's applying one hand to the handle opening 34 or otherwise to cover 20 and simultaneously applying the other hand to the latch 26 and thereupon separating the cover in this latch to release locking point 30 from perforation 28 in latch 26.

The bottom of the carton is provided with a closure identical with the cover device consisting in a main bottom section flap 36 integral with stamping 14 through the agency

of a narrow reversely folded flap section 38. The edge of the bottom 36 is provided with a locking point 40 engageable with a locking flap 42, identical with flap 26.

- 5 In the construction of the entire device, the blank 14 with all attached parts shown and described is stamped in one piece. The front 12 is then folded around the back and the flaps 16 and 18 are secured together.
- 10 The operator then takes hold of cover 20 and folds flap section 22 downward over the edge 24 of the back 10 of the carton to the position of Figure 3 and then inserts the front edge of the cover 20 in latch flap 26
- 15 which has been simultaneously folded down over the front edge of the curved section 12 of the carton. In a similar manner, the bottom flap 32 is folded to place as shown in Figures 1 and 2.
- 20 The carton of this construction may be shipped flat in blanks formed as in Figure 5, or, after the flaps 16 and 18 have been secured together, it may be collapsed and shipped in the form appearing in Figure 2,
- 25 the top flap 20 and the bottom flap 36 being turned directly down the back 10 inside the collapsed carton.

While the device is especially adapted to tubular semi-cylindrical carton bodies, it may

obviously be applied to carton bodies of other cross-sections without departing from the invention.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

35 A carton including a cover for an end thereof, a resilient hinge connection between one side of the cover and a wall of the carton tending to move the cover towards an opposite wall of the carton, a resilient apertured flap of less width than the carton disposed 40 between the free edge of the cover and the adjacent wall of the carton and tending to move the cover towards the first mentioned wall of the carton when the cover is closed, 45 and a tooth on the free edge of said cover adapted to enter the aperture in said flap, said tooth being formed by a pair of spaced notches in the free edge of the cover where- 50 by the free edge of the cover, beyond opposite sides of said flap, lies closely against the adjacent wall of the carton when the cover is closed and said tooth is entered in said aperture.

In witness whereof, I have hereunto subscribed my name.

DAN INT HOUT.