

July 5, 1932.

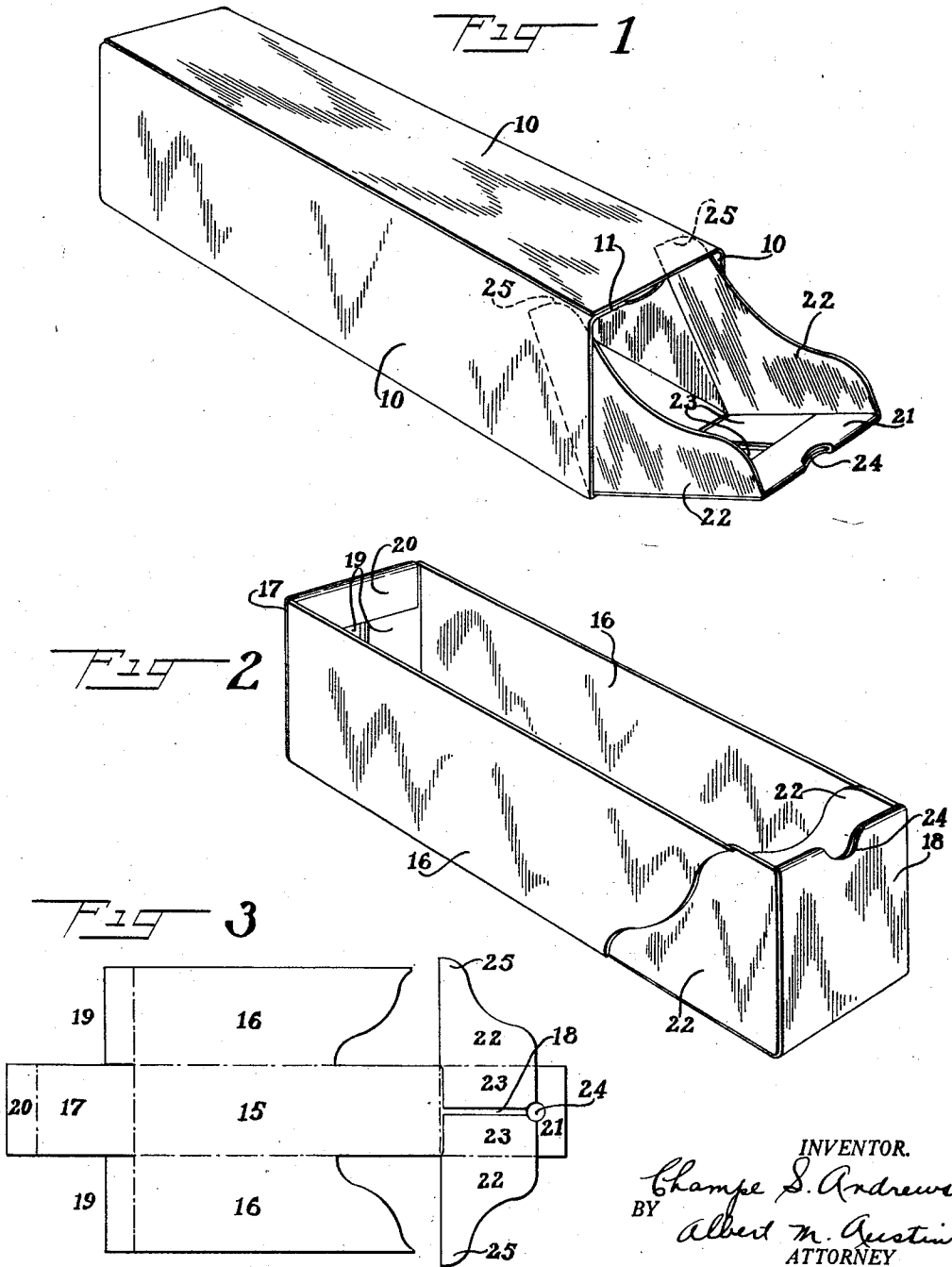
C. S. ANDREWS

1,865,608

HINGED BOX

Filed May 31, 1929

2 Sheets-Sheet 1



INVENTOR.

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2 Sheets-Sheet 2

Fig 4

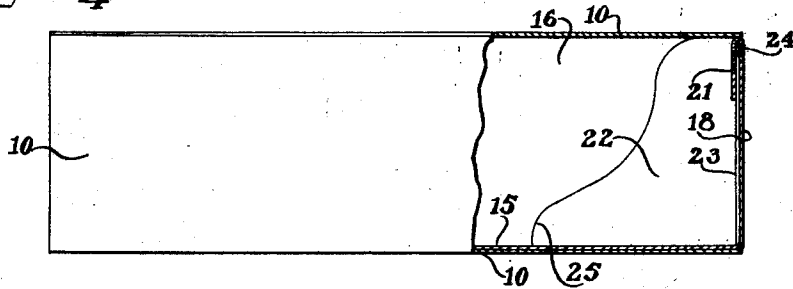


Fig 5

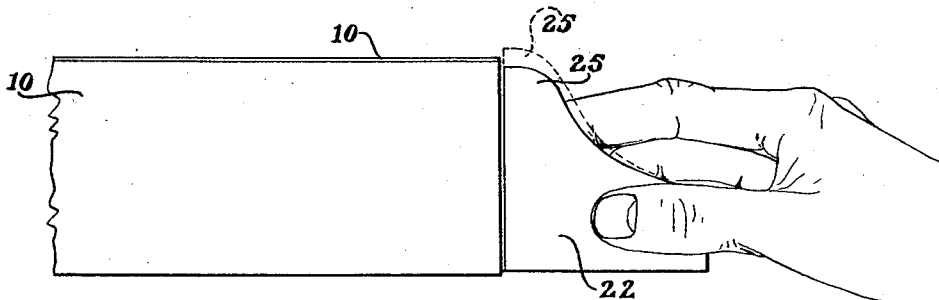
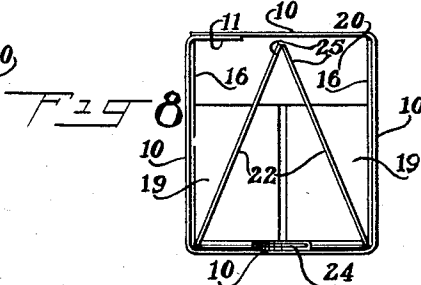
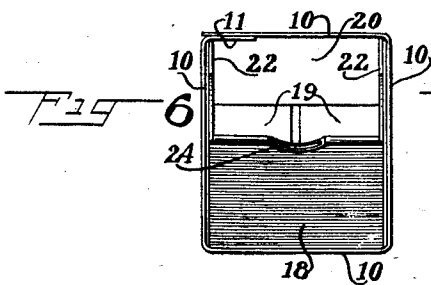
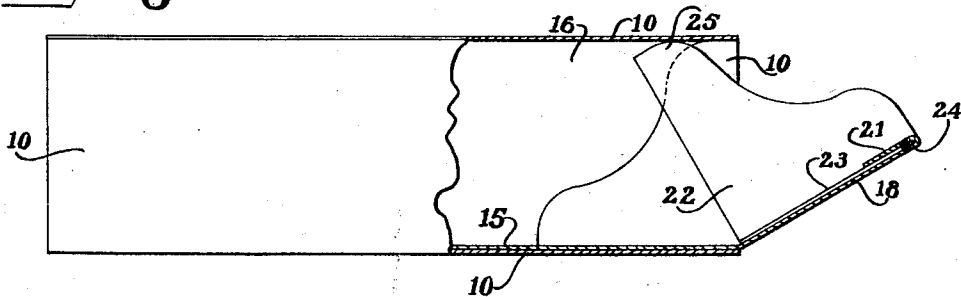


Fig 7

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UNITED STATES PATENT OFFICE

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HINGED BOX

Application filed May 31, 1929. Serial No. 367,272.

This invention relates to folded boxes, and more particularly to a telescoping box having an end which may be readily opened for the insertion or removal of articles.

5 The invention particularly applies to a type of box which is adapted to be stacked, for example on the shelves of a store and provides for the removal of articles from the box without disturbing the stack.

10 The invention provides an outer open ended cover member and an inner telescoping member having a hinged end. The telescoping member is normally secured inside of the cover member with the hinged end in closed position. When it is desired to remove the contents of the box the end is swung open about its lower edge and is held in partly open position while the desired article is being withdrawn from or inserted into the box.

15 Means are also provided for completely opening the end member when desired to afford unimpeded access to the interior.

20 The invention also consists in certain new and original features of construction and combinations of parts hereinafter set forth and claimed.

Although the novel features which are believed to be characteristic of this invention will be particularly pointed out in the claims appended hereto, the invention itself, as to its objects and advantages, the mode of its operation and the manner of its organization may be better understood by referring to the following description taken in connection with the accompanying drawings forming a part thereof, in which

Fig. 1 is a perspective view of the box showing the end in partly open position;

40 Fig. 2 is a perspective view of the telescoping member showing the end in closed position;

Fig. 3 is a plan view of the blank from which the telescoping member may be formed;

45 Fig. 4 is a side elevation of the box partly in section showing the construction of the hinged end;

50 Fig. 5 is a view similar to Fig. 4 showing the end in partly open position;

Fig. 6 is an end view of the box shown in Fig. 5;

Fig. 7 is a side elevation of the box showing the manner of gripping the side flaps for closing the end; and

Fig. 8 is an end view of the box in the position of Fig. 7.

Like reference characters denote like parts in the several figures of the drawings.

In the following description and in the claims parts will be identified by specific names for convenience, but they are intended to be as generic in their application to similar parts as the art will permit.

Referring to the drawings more in detail, the invention is shown as applied to a box comprising an open end cover member formed with a plurality of side members 10 which may be stamped from a single blank and folded into rectangular form. One of the side members 10 is provided with a flap 11 which is bent into engagement with another of said side members and secured for holding the cover in assembled position.

The telescoping member which is adapted to be inserted within the above described cover member is formed from a blank shown in Fig. 3 and comprises a bottom 15, sides 16, and end pieces 17 and 18. Sides 16 are provided with side flaps 19, and ends 17 and 18 are provided with flaps 20 and 21 respectively, for a purpose to be described. Wings 22 having attaching flaps 23 are stamped from the blank and are shown in Fig. 3 in assembled position.

In assembling the telescoping member from the blank shown in Fig. 3, sides 16 and end 17 are bent into upstanding relationship with respect to bottom 15. Flanges 19 are then bent inwardly and are secured to the inside of end 17 and end flap 20 is bent over interiorly of the box and is secured to the inside of flaps 19. Wings 22 are then attached to end 18 by positioning flaps 23 interiorly of said end member and bending flap 21 over said wings and into engagement therewith. Flaps 19, 20, 21 and 23 are secured by convenient means such as glue. A hole 24 is formed in end 18 and flap 21 for the purpose of providing convenient means for gripping

the end when the box is in assembled position.

After the parts have been secured as above pointed out, end 18 may be bent into up-
standing position and wings 22 bent inward-
ly to the position shown in Fig. 2, after which
the telescoping member may be inserted with-
in the cover member to form a closed box.
Wings 22 are preferably formed sufficiently
long so that points 25 bear against the cover
member as shown in Fig. 1 for limiting the
pivotal movement of end 18 and holding said
end in partly open position. The box may be
completely opened, however, by forcing tips
of wings 22 into engaging position as shown
in Fig. 8 whereby clearance is provided be-
tween said tips and the outer cover member.
For again closing the end it is only necessary
to grip the wings as shown in Fig. 7, forcing
them into engaging position after which the
end may be bent about its lower edge into
closed position. The tips of wings 22 engage
with the inner surface of sides 16 as shown in
Fig. 5 and serve as guiding means during
closing of the end.

In the above described box it is to be noted
that the end may be opened to permit re-
moval of articles without sliding the tele-
scoping member or otherwise disturbing the
position of the box. This feature is particu-
larly important in cases where a large num-
ber of such boxes are formed in a stack, since
the weight supported by each box would
force the cover member into firm engagement
with the telescoping member and impede
sliding movement therebetween. The end
may be brought into partly open position by
a single movement of the hand, wings 22 pre-
venting the same from being inadvertently
brought into full open position. When full
open position is required, however, it may
readily be obtained by bending said wings
inwardly, as shown in Figs. 7 and 8, whereby
they are released from engagement with the
cover member and the end is permitted to
swing about its lower edge as a hinge.

While certain novel features of the inven-
tion have been shown and described and are
pointed out in the annexed claims, it will be
understood that various omissions, substitu-
tions and changes in the forms and details of
the device illustrated and in its operation
may be made by those skilled in the art with-
out departing from the spirit of the inven-
tion.

What is claimed is:

1. In a telescoping box, an open ended
cover member, an open top member telescoped
therein, said telescoped member having a
hinged end wall, wings secured to said hinged
end wall, said wings having portions adapt-
ed to engage with said cover member to hold
said end wall in partly open position, said
portions being adjustable to permit said end
wall to be brought into full open position.

2. In a telescoping box, an open ended

cover member, an open top member tele-
scoped therein, said telescoped member hav-
ing a fixed closed end and a hinged end wall,
wings normally secured to said hinged end
wall, said wings contacting with said cover
member to hold said end in partly open po-
sition, said wings being adjustable inwardly
to permit said end wall to be brought into
full open position.

3. A box adapted to be placed in stacked
relationship, said box having side walls, an
end wall hinged to a side wall and adapted
to pivot outwardly, and wings hinged to the
side edges of said end wall and pivoting in-
wardly, said wings having portions adapted
to normally contact a side wall of said box to
hold said end in partly open position, said
portions being of such length that when said
wings are pivoted inwardly, said portions
will avoid the side wall engageable thereby
and permit said end wall to be moved into
full open position.

In testimony whereof I have hereunto set
my hand.

CHAMPE S. ANDREWS.