

SLIDE AND SHELL CONTAINER WITH HINGED FLAP

The present invention relates to a slide and shell container with a hinged flap, which finds particular application as a container for smoking articles such as cigarettes.

It is known to package smoking articles and other consumer goods in containers comprising an outer shell and an inner slide or tray in which the consumer goods are housed and which is slidable within the outer shell. To remove consumer goods from such containers, a consumer slides the inner slide from an initial position within the outer shell to an open position in which the inner slide projects outwardly from the outer shell. Slide and shell containers in which the consumer goods are housed in an inner slide having a hinged lid that covers an open end of the inner slide are also known.

Graphics and text are typically applied to the exterior of packaging for consumer goods in order to communicate information to the consumer. However, packs of smoking articles are typically relatively small in size, and so have limited visible exterior surface area for displaying such information. It is known to include additional panels on packs of smoking articles in order to increase the surface area available for displaying graphics and text and hence the amount of information that may be communicated to a consumer.

It would be desirable to provide slide and shell containers for consumer goods, in particular smoking articles, having substantially the same external appearance as known slide and shell containers, but with additional surface areas that may carry, for example, supplementary brand, advertising, promotional or product information.

According to the first aspect of the present invention, there is provided a slide and shell container comprising: an outer shell having a first wall with an aperture provided therein; an inner slide housing a plurality of smoking articles, the inner slide being slidable within the outer shell between a closed position in which the interior of the inner slide is inaccessible and an open position in which the interior of the inner slide is accessible; and wherein the inner slide comprises a box portion and a lid portion connected to the box portion along a hinge line about which the lid portion is pivotable when the inner slide is in the open position, characterized by a hinged flap connected to the inner slide that protrudes through the aperture in the first wall of the outer shell, wherein the hinged flap is pivotable between a first position in which the flap rests against the first wall of the outer shell and a second position in which the flap is hinged outwardly from the first wall of the outer shell upon slidable movement of the inner slide between the closed and open positions, and wherein slidable movement of the inner slide from the closed position to the open position causes the hinged flap to be pivoted from the first position to the second position.

There is disclosed a slide and shell container comprising: an outer shell having a first wall with an aperture provided therein; an inner slide slidable within the outer shell between a closed position in which the interior of the inner slide is inaccessible and an open position in which the interior of the inner slide is accessible; and a hinged flap connected to the inner slide. The hinged flap protrudes through the aperture in the first wall of the outer shell. The hinged flap is pivotable from a first position in which the flap rests against the first wall of the outer shell to a second position in which the flap is hinged outwardly from the first wall of the outer shell. This is caused by slidable movement of the inner slide from the closed position to the open position.

The hinged flap rests against the first wall of the outer shell in the first position. However, when a consumer slides the inner slide from the closed position to the open position, in order to access consumer goods housed in the inner slide, the flap is automatically pivoted from the first position to the second position in which it is hinged outwardly from a first wall of the outer shell. This exposes the inner surface of the flap and also the outer surface of the first wall of the outer shell that is covered by the flap when the flap is in the first position.

Consequently the inner surface of the flap and the outer surface of the first wall of the outer shell covered by the flap when the flap is in the first position become visible to the consumer when the container is opened.

The inclusion of a flap in containers according to the invention thereby advantageously
5 increases the surface area available for displaying consumer information compared to known slide and shell containers, since graphics and text may be applied to both the outer surface of the first wall of the outer shell, the inner and outer surfaces of the flap, and the outer surface of the inner slide.

In the open position, at least a portion of the inner slide projects outwardly from the outer
10 shell through an open face thereof such that the interior of the inner slide is accessible. The outer shell may have a single open face. Alternatively, the outer shell may be an open-ended sleeve with a pair of opposed open faces.

Preferably, the inner slide is slidable within the outer shell in a direction parallel to a longitudinal axis of the slide and shell container. For example, the inner slide may be slidable
15 lengthways within the outer shell so that a portion of the inner slide projects outwardly from the outer shell through an open end face thereof in the open position. Alternatively, the inner slide may be slidable within the outer shell in a direction parallel to a transverse axis of the slide and shell container. For example, the inner slide may be slidable laterally within the outer shell so that a portion of the inner slide projects outwardly from the outer shell through an open side face
20 thereof in the open position.

The first wall of the outer shell is in a plane parallel to the direction of movement of the inner slide within the outer shell. Preferably, the first wall is a major wall of the outer shell.

Preferably, the aperture provided in the first wall of the outer shell is an elongate aperture. For example, where the inner slide is slidable within the outer shell in a direction
25 parallel to a longitudinal axis of the slide and shell container, the aperture is preferably an elongate aperture with a longitudinal axis substantially parallel to a transverse axis of the slide and shell container. In a particularly preferred embodiment of the invention, the aperture is a transverse slit.

Through an appropriate choice of the location of the aperture therein, the outer surface
30 of the first wall of the outer shell may be substantially fully covered or only partially covered by the flap in the first position. Preferably, the outer surface of the first wall of the outer shell is only partially covered by the flap in the first position.

Preferably, the flap is integral with the inner slide. More preferably, the flap and inner slide are formed from a single one-piece laminar blank. However, the flap may alternatively be
35 non-integral with the inner slide and connected thereto during production of the container. For example, the flap and inner slide may be formed from two separate laminar blanks and the flap

adhered or otherwise affixed to the inner slide during production of the container.

Where the flap and inner slide are formed from a single one-piece laminar blank, the flap is preferably formed from two panels affixed to one another in an overlying registered relationship. As described in more detail below, this advantageously enables the inner and
5 outer surfaces of the flap to be printed on only one side of the blank, as opposed to printing both sides of the blank.

The flap is connected to the inner slide along a hinge line substantially perpendicular to the direction of slidable movement of the inner slide within the outer shell. The flap may be directly connected to the inner slide along the hinge line. Alternatively, the flap may be
10 indirectly connected to the inner slide along the hinge line via one or more intervening panels. In use, slidable movement of the inner slide within the outer shell between the closed and open positions moves the hinge line relative to the aperture in the first wall of the outer shell causing the flap to pivot about the hinge line between the first and second positions.

Preferably, slidable movement of the inner slide within the outer shell between the
15 closed and open positions moves the hinge line between positions on either side of the aperture in the first wall of the outer shell.

For example, the hinge line about which the hinged flap is pivotable may be moved between a position below the aperture and a position above the aperture by vertically sliding the inner slide between the closed and open positions. Alternatively, the hinge line about which the
20 hinged flap is pivotable may be moved between a position to the left of the aperture and a position to the right of the aperture by horizontally sliding the inner slide between the closed and open positions.

In one embodiment, the flap is connected to a wall of the inner slide parallel and adjacent to the first wall of the outer shell. In an alternative embodiment, the flap is connected
25 to a wall of the inner slide parallel and distant to the first wall of the outer shell. Preferably, the flap is connected to a major wall of the inner slide.

The flap may be of any suitable shape. For example, the flap may have or reflect the shape of the consumer goods intended to be housed in the inner slide or a logo or trade mark associated with the brand or manufacturer of the consumer goods, provided it does not hinder
30 slidable movement of the inner slide.

The dimensions of the flap are preferably such that in the first position the flap does not extend beyond the edges of the first wall of the outer shell, and so does not substantially affect the overall size and shape of the container when the inner slide is in the closed position. This means that containers according to the invention may be stored or displayed in conventional
35 point of sale fixtures and sold using typical vending machines for slide and shell containers. Another advantage is that it allows existing processes and machinery for typical slide and shell

containers to be used for any subsequent processing of containers according to the invention such as, for example, overwrapping, labelling and shipping.

To maximise the additional surface area available for displaying consumer information, the flap may be of substantially the same dimensions as the first wall of the outer shell.

5 Alternatively, the flap may be of reduced dimensions compared to the first wall of the outer shell.

Containers according to the invention may advantageously comprise a pull tab connected to the inner slide, which, in use, may be grasped and pulled on by a consumer in order to slide the inner slide from the closed position to the open position. Preferably, the inner
10 slide comprises an integral pull tab. More preferably, the inner slide comprises an integral pull tab formed in or from a portion of a wall of the inner slide that is accessible through an open face of the outer shell in the closed position.

Instead of, or in addition to, the provision of a pull tab, at least one cut-out or notch may be advantageously provided along a free edge of an open face of the outer shell. For example,
15 a pair of opposed cut-outs or notches may be provided along opposed free edges of an open face of the outer shell. In use, a consumer may grasp the inner slide through the one or more cut-outs in order to slide the inner slide from the closed position to the open position.

Alternatively, or in addition, an opening may be provided in a wall of the outer shell opposed to an open face thereof in order to facilitate movement of the inner slide from the
20 closed position to the open position by the consumer. In use, a consumer may push the inner slide through the opening provided in the wall of the outer shell in order to slide the inner slide from the closed position to the open position. In the open position, at least a portion of the inner slide projects outwardly from the outer shell through the opposed open face.

In yet a further embodiment, the outer shell may be a sleeve with a pair of opposed open
25 faces. A consumer may push the inner slide through one of the open faces in order to slide the inner slide from the closed position to an open position. In the open position, at least a portion of the inner slide projects outwardly from the outer sleeve through the other opposed open face.

The inner slide may be of any suitable construction that enables consumer goods housed within the inner slide to be removed from the container when the inner slide is in the
30 open position. For example, the inner slide may be a tray or box with an open face or other access opening that is covered by a wall of the outer shell in the closed position, but which is at least partially exposed when the inner slide is in the open position.

Alternatively, or in addition, the inner slide may comprise a box portion and a lid portion connected to the box portion along a hinge line that extends across a wall of the inner slide. In
35 use, when the inner slide is in the open position, the lid portion of the inner slide may be pivoted about the hinge line in order to gain or facilitate access to consumer goods housed in the inner

slide. Where the inner slide comprises a box portion and a lid portion, the hinged flap is preferably connected to the box portion of the inner slide.

The hinged flap may be connected to a wall of the inner slide that does not contain the hinge line. Alternatively, the hinged flap may be connected to the wall of the inner slide across
5 which the hinge line extends.

In such embodiments, the container may further comprise a lid opening mechanism that automatically pivots the lid portion about the hinge line. This is caused by slidable movement of the inner slide within the outer shell from the closed position to the open position. Suitable lid-opening mechanisms are known in the art and described in, for example, EP-A-1 847 478 and
10 EP-A-1 927 549. The lid opening mechanism may, for example, comprise a hook or flap connected to the lid portion of the inner slide and a flap or abutment edge projecting inwardly from a wall of the outer shell. These components of the lid opening mechanism engage one another upon slidable movement of the inner slide within the outer shell from the closed position to the open position causing the lid to open.

15 The hinge line along which the box portion and lid portion of the inner slide are connected preferably extends across a wall of the inner slide distant from the first wall of the outer shell. This is particular preferred in embodiments where the container comprises a lid-opening mechanism, so that, in use, operation of the lid-opening mechanism does not interfere with pivotal movement of the hinged flap between the first and second positions.

20 To increase the additional surface areas on which brand, advertising, promotional, product and other consumer information may be provided, the hinged flap may comprise two or more integral, foldably connected, overlying sub-panels that, in use, may be unfolded by a consumer to expose consumer information provided on the surfaces thereof. The integral, foldably connected, sub-panels are preferably retained in the overlying position by, for example,
25 re-sealable adhesive. For example, the flap may comprise two integral, book-folded, overlying sub-panels, or three or more integral, accordion or zig-zag folded, overlying sub-panels.

Alternatively, or in addition, to increase the additional surface areas provided, containers according to the invention may comprise an outer shell having two or more walls with apertures provided therein and two or more flaps connected to the inner slide thereof. Each of the flaps
30 protrudes through a separate one of the apertures. The flaps are all pivotable between a first position and a second position upon slidable movement of the inner slide between the closed and open positions. For example, containers according to the invention may comprise a first flap connected to a first wall of the inner slide that protrudes through an aperture provided in a front wall of the outer shell, and a second flap connected to a second wall of the inner slide that
35 protrudes through an aperture provided in a rear wall of the outer shell.

Preferably, the slide and shell container further comprises retention means for

preventing removal of the inner slide from the outer shell. For example, the container may comprise one or more flaps, tabs or other mechanical retention means for preventing removal of the inner slide from the outer shell. Preferably, the retention means restricts or substantially prevents slidable movement of the inner slide beyond the open position. The retention means
5 may comprise a first retention means on the outer shell and a second retention means on the inner slide that in use cooperate to prevent slidable movement of the inner slide beyond the open position. For example, the retention means may comprise at least one hinged flap on the outer shell and at least one hinged flap or fixed projection on the inner slide that in use cooperate to prevent slidable movement of the inner slide beyond the open position.

10 In the closed position, the interior of the inner slide is inaccessible and consumer goods housed in the inner slide cannot be removed from the container. In the open position, the interior of the inner slide is accessible and consumer goods housed in the inner slide may be removed from the container. The closed position and the open position are opposite extremes of a range of slidable movement of the inner slide within the outer shell. It will be appreciated
15 that the inner slide is slidable within the outer shell from the closed position to intermediate 'partially open' positions located between the closed position and the open position.

Containers according to the invention may be used as packages for a variety of consumer goods. In a particularly preferred embodiment, containers according to the invention are used to package smoking articles. Slide and shell containers according to the invention
20 may be advantageously used to package smoking articles including, but not limited to, conventional lit-end cigarettes, cigars or cigarillos, heated smoking articles comprising a combustible fuel element or heat source and an aerosol-generating substrate (for example cigarettes of the type disclosed in US-A-4,714,082) and smoking articles for use with electrical smoking systems (for example cigarettes of the type disclosed in US-A-5,692,525).

25 It will be appreciated that through an appropriate choice of the dimensions thereof, the inner slide of containers according to the invention may house different total numbers of smoking articles or different arrangements of smoking articles. For example, the inner slide may house a total of between ten and thirty smoking articles.

The smoking articles may be arranged in different collations, depending on the total
30 number of smoking articles. For example, the smoking articles may be arranged in a single row of six, seven, eight, nine or ten. Alternatively, the smoking articles may be arranged in two or more rows. The two or more rows may contain the same number of smoking articles. For example, the smoking articles may be arranged in: two rows of five, six, seven, eight, nine or ten; three rows of five or seven; or four rows of four, five or six. Alternatively, the two or more
35 rows may include at least two rows containing different numbers of smoking articles to each other. For example, the smoking articles may be arranged in: a row of five and a row of six (5-

6); a row of six and a row of seven (6-7); a row of seven and a row of eight (7-8); a middle row of five and two outer rows of six (6-5-6); a middle row of five and two outer rows of seven (7-5-7); a middle row of six and two outer rows of five (5-6-5); a middle row of six and two outer rows of seven (7-6-7); a middle row of seven and two outer rows of six (6-7-6); a middle row of nine and two outer rows of eight (8-9-8); or a middle row of six with one outer row of five and one outer row of seven (5-6-7).

Alternatively or in addition, the inner slide may house smoking articles of different dimensions (for example, smoking articles of different length or different circumference). For example, the inner slide may house smoking articles with lengths of between about 40 mm and about 180 mm and diameters of between about 4 mm and about 9 mm.

The inner slide may house filterless smoking articles and smoking articles with various filter tips. In addition, the inner slide may house smoking articles of the same type or brand, or of different types or brands (for example, smoking articles with different filters, tobacco blends, flavours, total particulate matter delivery, resistance to draw or nicotine delivery). Preferably, the dimensions of the inner slide are adapted to the length of smoking articles, and the collation of the smoking articles housed therein. Typically, the outer dimensions of the inner slide are between about 0.5 mm and about 5 mm larger than the dimensions of the bundle or bundles of smoking articles housed therein.

Where the inner slide of a container according to the invention houses a plurality of cigarettes or other smoking articles, the smoking articles are preferably wrapped in an inner liner of, for example, metal foil or metallised paper.

The outer shell, inner slide and flap of containers according to the invention may be formed from any suitable material including, but not limited to, cardboard, paperboard, plastic, metal or combinations thereof. The outer shell and inner slide may be formed from the same or different materials.

The flap may be formed from the same or different materials to the outer shell and, where the flap is not integral with the inner slide, from the same or different materials to the inner slide. Preferably, the outer shell, inner slide and flap are formed from folded laminar blanks, more preferably from folded laminar cardboard blanks. Preferably, the cardboard has a weight of between about 100 grams per square metre and about 350 grams per square metre.

Preferably, the outer sleeve and the inner slide are each formed from a single one-piece folded laminar blank. More preferably, the outer sleeve is formed from a first single one-piece folded laminar blank and the inner slide and flap are formed from a second single one-piece folded laminar blank.

Containers according to the invention may be overwrapped in a known manner with any suitable known material or combination of materials including, but not limited to, cellophane,

polymeric films of, for example, polyethylene or polypropylene, metallised polymeric films and laminated polymeric films. Containers according to the invention may be overwrapped with overwrappers including one or more tear tapes. The one or more tear tapes may extend in a transverse or longitudinal direction around the perimeter of the container.

5 The inner and outer surfaces of the outer shell, inner slide and flap may be printed, embossed, debossed or otherwise embellished (for example, using labels or stickers) with manufacturer or brand logos, trade marks, slogans and other consumer information and indicia.

Preferably, the internal dimensions of the outer shell are substantially the same as the external dimensions of the inner slide, so that inner surfaces of the outer shell overlie and abut
10 outer surfaces of the inner slide in the closed position. In use, frictional forces generated between the outer surfaces of the inner slide and the abutting inner surfaces of the outer shell resist slidable movement of the inner slide between the closed position and the open position. This advantageously prevents opening and closing of the container without the application of a positive force by the consumer.

15 The outer shell and inner slide of may be substantially rectangular parallelepipeds, with right-angled longitudinal and right-angled transverse edges. Alternatively, the outer shell and inner slide may comprise one or more rounded longitudinal edges, rounded transverse edges, bevelled longitudinal edges, bevelled transverse edges or combinations thereof. For example,
20 by scoring in a known manner laminar blanks from which the outer shell and the inner slide of the container are erected, a "rounded-corner" multi-compartment slide and shell container according to the invention may be produced.

The invention will be further described, by way of example only, with reference to the accompanying drawings in which:

25 Figure 1 shows a perspective view of a slide and shell container according to an embodiment of the invention with the inner slide in a closed position;

Figure 2 shows a perspective view of the container of Figure 1 with the inner slide in an open position;

Figure 3 shows a plan view of a laminar cardboard blank for forming the outer shell of the container of Figures 1 and 2; and

30 Figure 4 shows a plan view of a laminar cardboard blank for forming the inner slide of the container of Figures 1 and 2.

The slide and shell container shown in Figures 1 and 2 is a rectangular parallelepiped and comprises an outer shell 2 and an inner slide 4 slidable within the outer shell 2, which houses a wrapped bundle of cigarettes 6. In the following description of the container the terms
35 "upper" and "top", "bottom" and "lower" and "front" and "rear", are used to describe the relative positions of components of the outer shell 2 and inner slide 4 when the container is held in an

upright position by a consumer so that the inner slide 4 is slidable in a substantially vertical direction within the outer shell 2 between the closed and open positions. These terms are used irrespective of the actual orientation of the container shown in the Figures.

The outer shell 2 has a front wall 8 and an opposed rear wall 10, a left side wall 12 and
5 an opposed right side wall 14 and a bottom wall 16. As shown in Figures 1 and 2, the front wall 8 and the rear wall 10 are major walls of the outer shell 2. The walls 8, 10, 12, 14, 16 of the outer shell 2 define a cup-shaped receptacle with an open upper rectangular end face defined by the upper transverse edges of the front wall 8, rear wall 10, left side wall 12 and right side wall 14, within which the inner slide 4 is inserted. A slit 18 provided in the front wall 8 of the
10 outer shell 2 proximate the bottom wall 16 thereof extends transversely between the left 12 and right 14 side walls of the outer shell 2.

The inner slide 4 of the container shown in Figures 1 and 2 has a lower box portion 20 and an upper lid portion 22, which is hinged to the lower box portion 20 along a transverse hinge line 24 that extends across the rear of the inner slide 4. The lower box portion 20 has a
15 front wall 26 and an opposed rear wall 28, a left side wall 30 and an opposed right side wall 32 and a bottom wall 34. As shown in Figure 2, a central cut-out 36 is provided along the free transverse upper edge of the front wall 26 of the box portion 20 of the inner slide 4.

The upper lid portion 22 has a rear wall 38, a left side wall 40 and an opposed right side wall 42, which function as continuations of the corresponding walls of the lower box portion 20
20 when the lid portion 22 is in a closed position. The upper lid portion 22 also has a top wall 44, which opposes the bottom wall 34 of the lower box portion 20 when the lid portion 22 is in the closed position. The lid portion 22 has a rectangular open front face defined by the free longitudinal front edges of the left 40 and 42 right side walls and transverse front edge of the top wall 44 of the lid portion 22 and the upper free edge of the front wall of the box portion 20 of the
25 inner slide 4. As shown in Figures 1 and 2, a semi-circular pull tab 46, which is cut out from the upper wall 44 of the lid portion 22 of the inner slide 4 extends upwardly from the rear wall 38 thereof.

An integral flap 48 of substantially the same dimensions as the front walls 8, 26 of the outer shell 2 and inner slide 4 is hingedly connected to the rear wall 28 of the box portion 20 of
30 the inner slide 4 via an intervening panel 50, which is hingedly connected to the lower edge of the rear wall 28. The intervening panel 50 overlies the bottom wall 34 of the box portion 20 of the inner slide 4 and extends from the lower edge of the rear wall 28 of the box portion 20 to proximate the lower edge of the front wall 26 thereof, between the bottom wall 34 of the box portion 20 of the inner slide 4 and the bottom wall 16 of the outer shell 2.

35 The integral flap 48, which is hingedly connected to the intervening panel 50 along a transverse hinge line 52, extends upwardly between the front wall 26 of the box portion 20 of

the inner slide 4 and the front wall 8 of the outer shell 2 from proximate the lower edge of the front wall 26 of the box portion 20 of the inner slide to the transverse slit 18 provided in the front wall 8 of the outer shell 2. The flap 48 then passes through the slit 18 so that when the inner slide 4 is in the closed position shown in Figure 1 it overlies the front wall 8 of the outer shell 2 above the slit 18.

Figure 1 shows the container with the inner slide 4 in a closed position in which the open front face of the lid portion 22 of the inner slide 4 and the hinge line 24 along which the box 20 and lid 22 portions of the inner slide 4 are connected are covered by the front 8 and rear 10 walls, respectively, of the outer shell 2, such that the bundle of cigarettes 6 housed in the inner slide 4 is inaccessible.

In the closed position, the inner slide 4 is contained within the outer shell 2 with rear wall 10, left side wall 12 and right side wall 14 of the outer shell 2 adjacent to and overlying the rear walls 28, 36 of the box 20 and lid 22 portions, left side walls 30, 40 of the box 20 and lid 22 portions, and right side walls 32, 42 of the box 20 and lid 22 portions, respectively, of the inner slide 4, and the bottom wall 16 of the outer shell 2 adjacent to and overlying the intervening panel 50. As shown in Figure 1, the outer shell 2 and the inner slide 4 are of substantially equal height, so that the inner slide 4 does not project outwardly from the outer shell 2 through the open upper end face thereof in the closed position and the top wall 44 of the lid portion 22 of the inner slide 4 forms the top wall of the container.

Figure 2 shows the container with the inner slide 4 in an open position in which the bottom wall 34 of the inner slide 6 and the intervening panel 50 are spaced apart from the bottom wall 16 of the outer shell 2, and the lid portion 22 and an upper portion of the box portion 20 of the inner slide 2 protrude from the outer shell 2 through the open upper end face thereof. When the inner slide 4 is in this open position, the bundle of cigarettes 6 housed in the inner slide 4 is accessible through the exposed open front face of the lid portion 22 thereof. As shown in Figure 2, to facilitate access to the bundle of cigarettes 6, the lid portion 22 of the inner slide 4 may be pivoted backwards about the hinge line 24 along which it is connected to the box portion 20 thereof. The central cut-out 36 provided along the free transverse upper edge of the front wall 26 of the box portion 20 of the inner slide 4 also facilitates removal of cigarettes housed in the inner slide 4 from the container when the inner slide is in the open position.

The transverse external cross-section of the inner slide 4 is substantially equal to the transverse internal cross-section of the outer shell 2 so that during opening and closing of the container, frictional forces generated between the outer surface of the inner slide 4 and the inner surface of the outer shell 2 prevent slidable movement of the inner slide 4 within the outer shell 2 until a positive force is applied thereto by the consumer.

In use, to slide the inner slide 4 within the outer shell 2 from the closed position shown in Figure 1 to the open position shown in Figure 2, the consumer holds the outer shell 2 of the container in one hand, grasps the pull tab 46 connected to the rear wall 38 of the lid portion 22 of the inner slide 4 with their other hand and pulls the inner slide 4 upwardly through the open upper end face of the outer shell 2 in the direction shown by the block arrow in Figure 1. As described in more detail below, the container further comprises retention means for preventing slidable movement of the inner slide 4 relative within the outer shell 2 beyond the open position shown in Figure 2.

As well as or instead of the pull tab 46, a pair of opposed cut-outs (not shown) may be provided along the free transverse upper edges of the left 12 and right 14 side walls of the outer shell through which a consumer may grasp the left 30 and right 32 side walls of the inner slide 4 in order to move it from the closed position to the open position. Alternatively or in addition, an opening (not shown) may be provided in the bottom wall 16 of the outer shell 2 through which, in use, a consumer may push on the intervening panel 50 and bottom wall 34 of the inner slide 4 in order to open the container.

The transverse hinge line 52 along which the integral hinged flap 48 is connected to the intervening panel 50 is below the transverse slit 18 in the front wall 8 of the outer shell 2 when the inner slide 4 is in the closed position, and, as described above, the integral hinged flap 48 is in a first position parallel to the front wall 8 of the outer shell 2 and the front wall 26 of the box portion 20 of the inner slide 4. Upward slidable movement of the inner slide 4 within the outer shell 2 from the closed position to the open position moves the hinge line 52 along which the flap 48 is connected to the intervening panel 50 upwardly relative to the transverse slit 18, so that in the second position it is above the transverse slit 18. This causes the flap 48 to pivot about the hinge line 52 to a second position in which it is hinged outwardly from the front wall 8 of the outer shell 2 and the front wall 26 of the box portion 20 of the inner slide 4, as shown in Figure 2. The inner surface of the flap 48, which faces towards the inner slide 4 when the inner slide 4 is in the closed position and the flap 48 is in the first position, and the upper portion of the front wall 8 of the outer shell 2 above the transverse slit 18, which is covered by the flap 48 when the inner slide 4 is in the closed position and the flap 48 is in the first position, are thus exposed when the inner slide is in the open position and the flap 48 is in the second position. Consequently, graphics or text provided on the inner surface of the flap and the outer surface of the upper portion of the front wall 8 of the outer shell 2 above the transverse slit 18 become visible to the consumer when the container is opened.

The lower portion of the front wall 8 of the outer shell 2 below the transverse slit 18 biases the upper portion of the integral hinged flap 48 that protrudes through the transverse slit towards the front wall 8 of the outer shell 2 when the inner slide 4 is in the closed position. This

advantageously ensures that the upper portion of the flap 48 that protrudes through the slit 18 rests against the upper portion of the front wall 8 of the outer shell 2 above the slit 18 in the first position.

A one-piece laminar cardboard blank from which the outer shell 2 of the container
5 Figures 1 and 2 may be formed is shown in Figure 3. A one-piece laminar cardboard blank from which the inner slide 4 and hinged flap 48 of the container of Figures 1 and 2 may be formed is shown in Figure 4. Corresponding reference numerals are used in Figures 3 and 4 for elements of the blanks that are similar or related to elements of the outer shell 2, inner slide 4 and flap 48 of the container of Figures 1 and 2 previously described above. The blanks
10 includes various panels, flaps and tabs (labelled in bold), which when folded about appropriate score lines (shown by broken lines) and affixed with adhesive (not shown) in a conventional manner, form the outer shell 2, inner slide 4 and flap 48 of the container. Throughout the specification, the term score line is used to indicate a line formed by, for example, creasing, scoring, perforating, embossing or otherwise compressing, cutting or weakening the blank.

15 The blank shown in Figure 3 for forming the outer shell 2 of the container shown in Figures 1 and 2 has a front wall panel 8, a rear wall panel 10, a left side wall panel 12, an inner right side wall panel 14a, an outer right side wall panel 14b, an inner bottom wall panel 16a and an outer bottom wall panel 16b, which when the blank is folded form the corresponding walls of the outer shell 2. The blank further comprises a pair of lower side wall closure tabs 54, which
20 are connected to the lower edges of the left side wall panel 12 and the outer right side wall panel 14b along transverse score lines. The blank also comprises an upper retention flap 56, which is connected to the upper edge of the rear wall panel 10 along a transverse score line. As shown in Figure 3, a transverse slit 18 provided in the front wall panel 8 of the blank extends across the front wall panel 10 between the left side wall panel 12 and the outer right side wall
25 panel 14b.

To form the outer shell 2, the front 8, rear 10, left side 12, inner right side 14a and outer right side 14b wall panels are initially folded to form an open ended hollow sleeve and the outer right side wall panel 14b affixed to the inner right side wall panel 14a. This may advantageously be done by a supplier prior to delivery of the blank to a consumer goods manufacturer. In the
30 next stage, the inner bottom wall panel 16a, outer bottom wall panel 16b and lower side wall closure tabs 54 are folded through 90 degrees and affixed to one another in a known manner to close the lower end of the hollow sleeve and so form the bottom wall 16 of the outer shell 2. In the final stage, the upper retention flap 56 is folded through 180 degrees so that it rests against the inner surface of the rear wall panel 10 in the formed outer shell 2.

35 The blank shown in Figure 4 for forming the inner slide 4 and the integral hinged flap 48 of the container shown in Figures 1 and 2 has a box portion front wall panel 26, a box portion

rear wall panel 28, a box portion left side wall panel 30, a box portion inner right side wall panel 32a, a box portion outer right side wall panel 32b and a box portion bottom wall panel 34, which when the blank is folded form the corresponding walls of the box portion 20 of the inner slide 4. A pair of lower box portion side wall closure tabs 57 are connected to the lower edges of the
5 box portion left side wall panel 30 and the box portion outer right side wall panel 32b 34 along transverse score lines. A box portion bottom wall closure tab 58 is connected to the box portion bottom wall panel 34 along transverse a score line.

An inner flap panel 48a and an outer flap panel 48b are connected to the box portion rear wall panel 28 of the blank via an intervening panel 50, which is connected to the lower
10 edge thereof along a transverse score line. As shown in Figure 4, a trapezoidal lower retention flap 60 cut out from the intervening panel 50 extends from the lower edge of the box portion rear wall panel 28 along the transverse score line.

The blank further comprises a lid portion rear wall panel 38, which is connected to the box portion rear wall panel 28 along a transverse hinge line 24 (shown in bold in Figure 4), a lid
15 portion left side wall panel 40, a lid portion right side wall panel 42, a lid portion outer top wall panel 44b and a lid portion inner top wall panel 44a. A pair of upper lid portion side wall closure tabs 62 are connected to the upper edges of the lid portion left 40 and right 42 side wall panels along transverse score lines, and a lid portion flap 64 is connected to the lid portion inner top wall panel 44a along a transverse a score line. As shown in Figure 4, a central, semi-circular,
20 pull tab 46, cut out from the lid portion outer top wall panel 44b, extends from the upper edge of the lid portion rear wall panel 38.

To form the inner slide 4, the box portion front 26, rear 28, left side 30, inner right side 32a and outer right side 32b wall panels are initially folded to form an open ended hollow sleeve and the box portion outer right side wall panel 32b affixed to the box portion inner right side wall
25 panel 32a. In addition, to form the hinged flap 48, the outer flap panel 48b is folded through 180 degrees and permanently or releasably affixed to the inner flap panel 48a. This may advantageously be done by a supplier prior to delivery of the blank to a consumer goods manufacturer. Forming the integral hinged flap 48 by permanently affixing the two overlying foldably connected sub-panels (*i.e.* the outer flap panel 48b and the inner flap panel 48a) to one
30 another advantageously enables the inner and outer surfaces of the hinged flap 48 to be provided with consumer information by printing one side of the blank. If the integral hinged flap 48 were formed from a single panel, it would be necessary to print both sides of the blank shown in Figure 4 in order to provide consumer information on the inner and outer surfaces of the hinged flap 48.

35 To complete erection of the body portion 20 of the inner slide 4, the box portion bottom wall panel 34, box portion lower side wall closure tabs 57 and box portion bottom wall closure

tab 58 are folded through 90 degrees and affixed in a known manner to close the lower end of the hollow sleeve and so form the bottom wall 34 of the body portion 20 of the inner slide 4. The intervening panel 50 is folded through 90 degrees so that it overlies the box portion bottom wall panel 34 and the upper retention flap 56 is folded outwardly through 180 degrees so that it rests against the outer surface of the box portion rear wall panel 28. The trapezoidal lower retention flap 60 is also folded 180 degrees so that it rests against the outer surface of the box portion rear wall panel 28.

To erect the lid portion 22 of the inner slide 2, the lid portion outer top wall panel 44b, the lid portion left 40 and right 42 side wall panels and the upper lid portion side wall closure tabs 62 are folded through 90 degrees and the upper lid portion side wall closure tabs 62 affixed to the inner surface of the lid portion outer top wall panel 44b. To complete erection of the lid portion 22, the lid portion inner top wall panel 44a is folded inwardly through 180 degrees, so that it rests against the inner surface of the lid portion outer top wall panel 44b, and the lid portion flap 64 is folded through 90 degrees, so that it rests against the lid portion rear wall panel 38. To retain the lid portion flap 64 in position, the lower edge thereof is inserted in a narrow curved slit 66 provided in the lid portion rear wall panel 38.

It will be appreciated that the precise order in which the various panels, flaps and tabs of the one-piece laminar cardboard blanks shown in Figures 3 and 4 are folded and secured to one another to form the outer shell 2, inner slide 4 and flap 48 of the container of Figures 1 and 2 may be varied depending upon, for example, the apparatus used to produce the container.

During erection of the of the container shown in Figures 1 and 2 from the blanks shown in Figures 3 and 4, the inner slide 4 is inserted into the outer shell 2 through the open upper end face thereof and the hinged flap 48 connected to the inner slide 4 is inserted through the transverse slit 18 provided in the front wall 8 of the outer shell 2 and inner slide 4.

In use, as the inner slide 4 reaches the open position shown in Figure 2, the upper retention flap 56 of the outer shell 2 engages the lower retention flap 60 of the inner slide 4, thereby advantageously preventing further upward slidable movement of the inner slide 2 within the outer shell 4 beyond the open position. The interaction between the upper retention flap 56 of the outer shell 2 and the retention flap 60 of the inner slide 4 also advantageously prevents removal of the inner slide 4 of the container from the outer shell 4 thereof.

In the container shown in Figures 1 and 2, the integral hinged flap 48 is of substantially the same dimensions as the front wall of the outer shell 2. However, it will be appreciated that containers according to the invention may have hinged flaps of reduced dimensions compared to the first wall of the outer shell in which the aperture is provided.

The invention has been exemplified above with reference to a container comprising an outer shell formed from a first one-piece laminar blank and an inner slide and integral flap

formed from a second one-piece laminar blank. However, containers according to the invention may comprise an inner slide and a non-integral flap that is adhered or otherwise affixed to the inner slide. For example, containers according to the invention may comprise an outer shell formed from a first one-piece laminar blank, an inner slide formed from a second one-piece
5 laminar blank and a flap formed from a third one-piece laminar blank.

Containers according to the invention may also comprise inner slides in which the lid portion of the inner slide is omitted. For example, the inner slide may be a tray or box with an open face or with an opening provided in a wall thereof, wherein the open face or opening is covered by the outer shell when the inner slide is in the closed position and at least partially
10 exposed when the inner slide is in the open position such that consumer goods housed in the inner slide are accessible there through.

In the embodiment described above, the outer shell of the container comprises a bottom wall. However, it will be appreciated that this is not an essential feature and containers according to the invention may comprise outer shells in which the bottom wall is omitted (*i.e.*
15 outer shells with opposed open faces). It will also be appreciated that whilst in the embodiment described, the inner slide has a lid portion with an open front face, containers according to the invention may comprise inner slides with a lid portion having a front wall, a rear wall, opposed side walls and a top wall.

Furthermore, it will be appreciated that, whilst in the embodiment described above the
20 aperture is provided in the front wall of the outer shell, an aperture may alternatively be provided in the rear wall, or one of the side walls of the outer shell. Similarly, it will be appreciated that whilst in the embodiment described above the flap is connected to the rear wall of the inner slide, depending upon the wall of the outer shell in which the aperture is provided, the flap may alternatively be connected to one of the other walls of the inner slide.

25 In addition, it will be appreciated that containers according to the invention may comprise an outer shell having two or more walls with apertures provided therein and two or more flaps connected to the inner slide thereof, each of which protrudes through a separate one of the apertures and is pivotable between a first position and a second position upon slidable movement of the inner slide between the closed and open positions.

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CLAIMS:

1. A slide and shell container comprising:

an outer shell having a first wall with an aperture provided therein;

an inner slide housing a plurality of smoking articles, the inner slide being slidable within the outer shell between a closed position in which the interior of the inner slide is inaccessible and an open position in which the interior of the inner slide is accessible; and wherein the inner slide comprises a box portion and a lid portion connected to the box portion along a hinge line about which the lid portion is pivotable when the inner slide is in the open position,

characterized by

a hinged flap connected to the inner slide that protrudes through the aperture in the first wall of the outer shell,

wherein the hinged flap is pivotable between a first position in which the flap rests against the first wall of the outer shell and a second position in which the flap is hinged outwardly from the first wall of the outer shell upon slidable movement of the inner slide between the closed and open positions, and

wherein slidable movement of the inner slide from the closed position to the open position causes the hinged flap to be pivoted from the first position to the second position.

2. A container according to claim 1 wherein the hinged flap is connected to the box portion of the inner slide.

3. A container according to claim 1 or 2 wherein the flap is of substantially the same dimensions as the first wall of the outer shell.

4. A container according to any of claims 1 to 3 wherein the flap partially covers the outer surface of the first wall of the outer shell in the first position.

5. A container according to any preceding claim wherein the flap is integral with the inner slide.

6. A container according to any preceding claim further comprising retention means for preventing removal of the inner slide from the outer shell.

7. A container according to any preceding claim further comprising a pull tab connected to the inner slide, which, in use, may be grasped and pulled on by a consumer in order to slide the inner slide within the outer shell from the closed position to the open position.

8. A container according to any preceding claim wherein the hinged flap comprises two or more integral, foldably connected, overlying sub-panels.

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9. A container according to any preceding claim wherein the hinged flap and the inner slide are formed from a single one-piece laminar blank and the hinged flap is formed from two panels affixed to one another in an overlying registered relationship.

10 10. A container according to any preceding claim wherein the hinged flap is connected to a wall of the inner slide parallel and adjacent to the first wall of the outer shell.