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### Packaging

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#### Abstract

Packaging, a packaging blank and a method of forming packaging are described. The specific packaging comprises a base (**104**); and at least one sidewall (**102**) projecting from the base (**104**) and defining with the base (**104**) a storage volume. The at least one sidewall (**102**) comprises inner and outer layers (**108, 110**). Each of the inner and outer layers (**108, 110**) comprises a line of perforations (**112, 114**). The lines of perforations (**112, 114**) of the inner and outer layers (**108, 110**) are substantially aligned.

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## Background/Summary

### CROSS-REFERENCE TO RELATED APPLICATIONS

(1) This application is a U.S. National Phase Application under 35 U.S.C. § 371 of International Application No. PCT/GB2021/050704, filed on Mar. 23, 2021, which is incorporated herein by reference in its entirety for any and all purposes.

### FIELD OF INVENTION

(2) This invention relates to packaging, a packaging blank used to form the packaging and a method of producing the packaging.

### BACKGROUND OF INVENTION

(3) It is becoming increasingly desirable to recycle packaging for environmental and sustainability reasons. Some packaging is formed from two or more elements which are formed of different materials, meaning the elements must be separated by a user before they are recycled, as waste disposal collectors do not generally permit the recycling of one object formed of two different materials.

(4) In the case of a carton for a whisky bottle or the like, the carton is generally formed from a cardboard sidewall and a base formed from metal. It can be particularly difficult for the user to separate the cardboard sidewall from the metal base because the carton is formed to be very strong so it can maintain its structural integrity when it is subjected to significant stress by the whisky bottle or the like in use. This in turn means that cartons for whisky bottles and the like are not generally recycled, leading to increased landfill and environmental damage.

(5) It is an object of the present invention to mitigate or obviate at least one problem with prior packaging.

### SUMMARY OF INVENTION

(6) According to a first aspect of the present invention, there is provided a packaging blank comprising: a first layer; and a second layer on top of the first layer, wherein the first layer is laterally offset from the second layer such that a first portion of a top surface of the first layer is exposed at a first side of the blank and such that a second portion of an under surface of the second layer is exposed at a second side of the blank, wherein each of the first and second portions comprises a line of perforations which extends longitudinally along the length of the blank.

(7) The first and second lines of perforations may be straight.

(8) The first portion may have a width in the range of 15 mm to 25 mm. The second portion may have a width in the range of 15 mm to 25 mm.

(9) The first and second layers may be formed from a paper-based material having a density in the range of 200 gsm to 600 gsm.

(10) The first and second portions may be arranged such that when the blank is positioned on a mandrel and the second portion is folded over the first portion the lines of perforations are aligned or vice-versa.

(11) A first line of perforations of one of the first and second portions may be located a first lateral distance (L1) from the furthest lateral extent of the layer it is laterally offset from and the one of the first and second portions may extend at least a second lateral distance (L2) from the layer it is laterally offset from. A second line of perforations of the other one of the first and second portions may be located a third lateral distance (L3) from the furthest lateral extent of the layer it is offset from and the other one of the first and second portion may extend at least a fourth lateral distance from the layer it is offset from that is equal to L2. L2 may be equal to L1+L3. L1 may be equal to L2 minus L3. L3 may be equal to L2 minus L1.

(12) L2 may be at least 2.5 mm. L2 may be a distance in the range of 2.5 mm to 10 mm. L2 may be in the range of 3.0 mm to 10 mm, preferably 3.5 mm to 6.5 mm. L2 may be in the range of 2.5 mm

to 8 mm. L2 may be in the range of 4.5 mm to 6 mm. Most preferably, L2 is in the range of 4.25 mm to 5 mm. In an optimum arrangement, L2 is 4.5 mm.

(13) The blank may comprise a plurality of fold lines which divide the blank into a number of panels. The fold lines may facilitate forming a cuboid/tube/cylinder from the blank.

(14) According to a second aspect of the present invention, there is provided packaging comprising a base; and at least one sidewall projecting from the base and defining with the base a storage volume, the at least one sidewall comprising inner and outer layers, wherein each of the inner and outer layers comprises a line of perforations, wherein the lines of perforations of the inner and outer layers are substantially aligned.

(15) The base may comprise a channel portion for receiving the at least one sidewall. The at least one sidewall may be fitted into the channel portion.

(16) The channel portion may comprise two opposing contact surfaces, wherein when the sidewall is attached to the base the at least one sidewall is positioned between the two contact surfaces and each contact surface abuts the at least one sidewall.

(17) The channel portion may define a channel. The two opposing contact surfaces may be inner and outer contact surfaces, the outer contact surface being located outwardly further away from the centre of the base than the inner contact surface. The outer contact surface may be provided upon a sidewall lip which projects into the channel.

(18) The outer contact surface provided upon the sidewall lip may be parallel to the inner contact surface.

(19) The sidewall lip may comprise a free end which is rounded.

(20) The base may be formed of metal or a plastics material.

(21) At its first side the outer layer may comprise a first offset portion which is offset from and extends beyond a first side of the inner layer. At its second side the inner layer may comprise a second offset portion which is offset from and extends beyond a second side of the outer layer. The first and second offset portions may comprise the lines of perforations of the inner and outer layers. The first offset portion may be folded over the second offset portion such that an inner surface of the first offset portion is affixed to an outer surface of the outer layer, an outer surface of the second offset portion is affixed to an inner surface of the inner layer and the lines of perforations are aligned with an internal space between them.

(22) The second side of the outer layer may be sandwiched between the inner layer and the first offset portion. The first side of the inner layer may be sandwiched between the outer layer and the second offset portion. The first side of the inner layer may be separated from the second side of the outer layer by the internal space by a distance of at least 2.5 mm.

(23) The distance may be in the range of 2.5 mm to 10 mm. The distance may be in the range of 3.0 mm to 10 mm, preferably 3.5 mm to 6.5 mm. The distance may be in the range of 2.5 mm to 8 mm. The distance may be in the range of 4.5 mm to 6 mm. Most preferably, the distance is in the range of 4.25 mm to 5 mm. In an optimum arrangement, the distance is 4.5 mm.

(24) The at least one sidewall may be formed from the packaging blank of the first aspect.

(25) According to a third aspect of the present invention, there is provided a method of manufacturing packaging: forming a sidewall such that it includes inner and outer layers, each of the inner and outer layers comprising a line of perforations, wherein the lines of perforations are substantially aligned. attaching the at least one sidewall to a base so as to form the packaging.

(26) Attaching the at least one sidewall to a base so as to form the packaging may involve fitting the at least one sidewall into a channel portion of the base.

(27) The channel portion may comprise two opposing contact surfaces and attaching the sidewall to the base involves positioning the at least one sidewall between the two contact surfaces such that each contact surface abuts the at least one sidewall.

(28) The channel portion may define a channel. The two contact surfaces may be inner and outer contact surfaces. The outer contact surface may be located outwardly further away from the centre

of the base than the inner contact surface. The method may include forming the base such that it has a sidewall lip which comprises the outer contact surface and projects into the channel.

(29) Forming the sidewall may include: forming the outer layer such that at its first side the outer layer comprises a first offset portion which is offset from and extends beyond a first side of the inner layer; forming the inner layer such that at its second side the inner layer comprises a second offset portion which is offset from and extends beyond a second side of the outer layer, wherein the first and second offset portions comprise the lines of the perforations of the inner and outer layers, and folding the first offset portion over the second offset portion such that an inner surface of the first offset portion is affixed to an outer surface of the outer layer, an outer surface of the second offset portion is affixed to an inner surface of the inner layer and the lines of perforations are aligned with an internal space between them.

(30) Forming the sidewall may include positioning the second side of the outer layer such that it is sandwiched between the inner layer and the first offset portion, and positioning the first side of the inner layer such that it is sandwiched between the outer layer and the second offset portion, and such that the first side of the inner layer is separated from the second side of the outer layer by the internal space by a distance of at least 2.5 mm.

(31) Forming the sidewall may include arranging the first side of the inner layer and the second layer of the outer layer such that the distance is in the range of 2.5 mm to 10 mm.

(32) The distance may be in the range of 3.0 mm to 10 mm, preferably 3.5 mm to 6.5 mm. The distance may be in the range of 2.5 mm to 8 mm. The distance may be in the range of 4.5 mm to 6 mm. Most preferably, the distance is in the range of 4.25 mm to 5 mm. In an optimum arrangement, the distance is 4.5 mm.

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## Description

### BRIEF DESCRIPTION OF THE DRAWINGS

(1) Embodiments of the present invention will now be described, by way of example only, with reference to the following drawings in which:

(2) FIG. 1 shows an end view of a packaging blank according to the present invention;

(3) FIG. 2 shows a plan view of the blank of FIG. 1;

(4) FIG. 3A shows packaging according to the present invention;

(5) FIG. 3B shows a partial cross-section of a sidewall of the packaging of FIG. 3A;

(6) FIG. 3C shows an interior of the packaging of FIG. 3A at its upper end;

(7) FIG. 4 is an enlarged version of FIG. 3B;

(8) FIG. 5A shows the packaging of FIG. 3A;

(9) FIG. 5B shows a partial cross-section of a base of the packaging of FIG. 3A; and

(10) FIGS. 6A, 6B and 6C show sequential steps of a process of disassembling the packaging according to the present invention for recycling.

### DETAILED DESCRIPTION OF THE DRAWINGS

(11) With reference to FIGS. 1 and 2, there is shown a packaging blank **10**. The packaging blank **10** comprises a first layer **12** and a second layer **14**. As best shown in FIG. 1, the second layer **14** is placed on top of the first layer **12**. The second layer **14** is preferably bonded to the first layer **12** with an adhesive.

(12) Preferably, the first and second layers **12**, **14** are formed from a paper-based material, which has a density in the range of 200 gsm to 600 gsm. As shown each layer is rectangular. Each layer **12**, **14** may be of the same thickness. Alternatively, the layers **12**, **14** may have different thicknesses. Each of the layers may have different dimensions, for example, the first layer **12** may have a length of a 315.5 mm and a width of 281 mm and the second layer **14** may have a length of 312 mm and a width of 281 mm.

(13) As best shown in FIG. 1, the first layer **12** is laterally offset from the second layer **14** such that a first portion **18** of a top surface **20** of the first layer **12** is exposed at a first side **16** of the blank **10** and such that a second portion **24** of an under surface **26** of the second layer **12** is exposed at a second side **22** of the blank **10**. The second side **22** of the blank **10** is opposite the first side **16** of the blank.

(14) Each of the first and second portions **18**, **24** comprises a line of perforations **26**, **28** which extends longitudinally along the length of the blank **10**. The lines of perforations **26**, **28** are indicated by the black boxes in FIG. 1. In particular, the first portion **18** is provided with a first line of perforations **26**, and the second portion **24** is provided with a second line of perforations **28**. Each of the first and second lines of perforations **26**, **28** extends longitudinally along the length of the blank **10**. This is best illustrated in FIG. 2, which shows the first and second lines of perforations **26**, **28** extending longitudinally along the length of the blank **10**. The blank may comprise a plurality of fold lines (not shown) which divide the blank into a number of panels. The fold lines may facilitate forming a cuboid/tube/cylinder from the blank.

(15) The first and second portions **18**, **24** are arranged such that when the blank **10** is located on a mandrel and the first portion **18** is folded over the second portion **24** the first and second lines of perforations **26**, **28** align.

(16) Each of the first and second portions **18**, **24** may extend at least a first lateral distance **L2** from the layer **12**, **14** it is laterally offset from. In practice, **L2** is the “width” of an internal space located inside a sidewall the packaging blank **10** may be used to form. This internal space is described with reference to FIGS. 3B and 4 below.

(17) There may be a second lateral distance (**L1**) between the furthest lateral extent of the second layer **14** at the first side **16** of the blank and the first line of perforations **26**. There may be a third lateral distance (**L3**) between the furthest lateral extent of the first layer **12** at the second side **22** of the blank and the second line of perforations **28**. **L2** may be equal to the sum of **L1** and **L3**. **L1** may be equal to **L2** minus **L3**. **L3** may be equal to **L2** minus **L1**. This in practice ensures that the first and second lines of perforations **26**, **28** are aligned with the internal space between them when the blank **10** is located on a mandrel and the first portion **18** is folded over the second portion **24**. Preferably, **L1** is equal to **L3**.

(18) **L2** may be at least 2.5 mm. **L2** may be a distance in the range of 2.5 mm to 10 mm. **L2** may be in the range of 3.0 mm to 10 mm, preferably 3.5 mm to 6.5 mm. **L2** may be in the range of 2.5 mm to 8 mm. **L2** may be in the range of 4.5 mm to 6 mm. Most preferably, **L2** is in the range of 4.25 mm to 5 mm. In an optimum arrangement, **L2** is 4.5 mm.

(19) With reference to FIGS. 3A to 3C, there is shown packaging **100** according to the present invention. As shown the packaging **100** comprises at least one sidewall **102** which projects upwardly from a base **104** to define a storage volume. In practice, a whisky bottle or the like is located in the storage volume. In the depicted example shown in FIGS. 3A to 3C, the at least one sidewall **102** is open at its upper end **106**. However, the upper end **106** may be closed with a lid, for example. The at least one sidewall **102** may be formed from a paper based material having a density in the range of 200 gsm to 600 gsm. Preferably, the at least one sidewall **102** is formed from the packaging blank **10** described above.

(20) As shown in FIGS. 3A to 3C, the at least one sidewall **102** comprises inner and outer layers **108**, **110**. Each of the inner and outer layers **108**, **110** comprises a line of perforations **112**, **114**. The lines of perforations **112**, **114** are aligned and preferably an internal space **116** is provided between them. As shown, the lines of perforations extend longitudinally along the length of the sidewall **102**. In the depicted example, the lines of perforations **112**, **114** are straight. However, they may for example be curved so long as they are aligned. Preferably, the lines of perforations **112**, **114** have the same configuration. In the depicted example, the perforations of the lines of perforations **112**, **114** are preferably linear holes. However, the perforations may also be circular holes for example. The aligned lines of perforations **112**, **114** form a line of weakness **115** in the at least one sidewall

**102** which in use the user can utilise to disassemble the packaging **100** as explained below.

(21) How the inner and outer layers **108**, **110** may be attached to each other is shown in FIG. **3B** and FIG. **4**. In particular FIG. **3B**, shows a partial cross-section of the at least one sidewall **102** taken across the longitudinal axis of the at least one sidewall. FIG. **4** is an enlarged view of FIG. **3B**.

(22) Where the term “side” is used below in connection with describing the arrangement shown in FIG. **3B** and FIG. **4**, we are referring to the furthest extent of a given portion in the clockwise/anticlockwise direction.

(23) The inner layer **108** comprises a first line of perforations **112**, and the outer layer **110** comprises a second line of perforations **114**. The positions of the first and second lines of perforations **112**, **114** are indicated by the black boxes in FIG. **4**. As shown, the outer layer **110** comprises at its first side **124** a first offset portion **126** which is offset from and extends beyond a first side **127** of the inner layer **108** in an anticlockwise direction. As shown the first offset portion **126** comprises the second line of perforations **114**. The inner layer **108** comprises at its second side **128** a second offset portion **130** which is offset from and extends beyond a second side **129** of the outer layer **110** in a clockwise direction.

(24) The first offset portion **126** is folded over the second offset portion **130** such that an inner surface of the first offset portion **126** is bonded to an outer surface of the outer layer **110**, and an outer surface of the second offset portion **130** is bonded to an inner surface of the inner layer **108**. This means that the first and second lines of perforations **112**, **114** are separated by an internal space **116**. The first and second lines of perforations **112**, **114** are aligned at opposite ends of the internal space **116**. An adhesive may be used to bond the various surfaces to one another.

(25) As shown the second side **129** of the outer layer **110** is sandwiched between the inner surface of the first offset portion **126** and an outer surface of the inner layer **108**. A first side **127** of the inner layer **108** is sandwiched between the inner surface of the outer layer **110** and the outer surface of the second offset portion **130**.

(26) As shown, the second side **129** of the outer layer **110** is separated from the first side **127** of the inner layer **108** by the internal space **116**. The distance by which the internal space **116** separates the second side **129** of the outer layer from the first side **127** of the inner layer is the “width” of the internal space referred to above in relation to L2 for the packaging blank **10**. This distance may be referred to as a “lateral separation distance”. The lateral separation distance L2 may be at least 2.5 mm. The lateral separation distance L2 may be a distance in the range of 2.5 mm to 10 mm. The lateral separation distance L2 may be in the range of 3.0 mm to 10 mm, preferably 3.5 mm to 6.5 mm. The lateral separation distance L2 may be in the range of 2.5 mm to 8 mm. The lateral separation distance L2 may be in the range of 4.5 mm to 6 mm. Most preferably, the lateral separation distance L2 is in the range of 4.25 mm to 5 mm. In an optimum arrangement, the lateral separation distance L2 is 4.5 mm.

(27) With reference to FIGS. **5A** and **5B**, there is shown a particular example of the base **104** of the packaging **100**. In particular, FIG. **5B** shows a partial cross-section of the base **104** taken along the longitudinal axis of the packaging **100**. The base **104** includes a channel portion **152** which defines a channel **154**. A lower end **156** of the at least one sidewall **102** is received by the channel portion **152**. The channel portion **152** comprises opposing contact surfaces **158**, **160**. In particular, the opposing contact surfaces comprise an inner contact surface **158** and an outer contact surface **160**. The outer contact surface **160** is located outwardly further away from the centre of the base **150** than the inner contact surface **158**. As shown in FIG. **4**, the outer contact surface **160** is provided upon a sidewall lip **162**. The sidewall lip **162** projects into the channel **154**. The sidewall lip **162** may be as depicted a folded portion of the base **104**. In the depicted example, the sidewall lip **162** comprises a free end **163** which is rounded. In other words, the free end **163** of the sidewall lip **162** does not comprise any straight edges. As shown, the at least one sidewall **102** is received into the channel portion **152** such that the at least one sidewall **102** is positioned between the inner and

outer contact surfaces **158**, **160**. The sidewall lip **162** is pressed into the at least one sidewall **102** as depicted. The sidewall lip **162** may be inwardly biased.

(28) The base **104** is preferably formed from metal, but may also be formed from a plastics material of a suitable rigidity.

#### INDUSTRIAL APPLICABILITY

(29) With reference to FIGS. **6A** to **6C**, there are shown sequential steps of a process of disassembling the packaging **100** of the present invention when the user desires to recycle the components of that packaging.

(30) In a first step, as shown in FIG. **6A**, the user simply applies pressure to the at least one sidewall **102** on either side of the line of weakness **115**. This as shown in FIG. **6B** causes the sidewall **102** to break along the line of weakness **115**. The user can then tear the sidewall along the whole of the line of weakness **115**. This then allows as shown in FIG. **6C** the at least one sidewall **102** to be removed from the base **104**.

(31) The user can then ensure that the metal base and the sidewall formed from a paperboard material are recycled.

(32) The packaging of the present invention maintains its structural integrity during use when it is subjected to significant stress by the whisky bottle or the like, but can be easily disassembled into its constituent parts by the user when the packaging needs to be recycled. This in turn makes the recycling process easier for the user, and decreases landfill and environmental damage.

(33) The blank of the present invention can be used to form such packaging.

(34) The arrangement of aligned lines of perforations ensure that the user can easily disassemble the sidewall.

(35) The specific arrangement of the channel portion of the base ensures that in contrast to prior art bases that the at least one sidewall can be securely held in position in use but easily removed from the base when the packaging is to be recycled by the user.

(36) The specific arrangement of the offset portions of the packaging blank and sidewall mean that the sidewall can be produced quickly and efficiently from paper-based materials.

(37) The specific distance between the second side of the outer layer and the first side of the inner layer means that it is especially easy for the user to disassemble the packaging.

(38) Modifications and improvements may be incorporated without departing from the scope of the invention, which is defined by the appended claims.

(39) The packaging may comprise one or more sidewalls. For example, the packaging may be cylindrical, or alternatively it may be cuboidal.

(40) For the avoidance of any doubt, the packaging may be used to package other objects aside from whisky bottles such as glass bottles filled with other alcoholic beverages, or metal objects.

(41) The sidewall **102** may be formed from the packaging blank **10** described above, and may be formed by positioning the blank **10** on a mandrel and folding the first portion over the second portion such that the lines of perforations are aligned with an internal space between them.

(42) The blank may comprise a plurality of fold lines which divide the blank into a number of panels. The fold lines may facilitate forming a cuboid/tube/cylinder from the blank.

## Claims

1. A packaging blank comprising: a first layer; and a second layer on top of the first layer, wherein the first layer is laterally offset from the second layer such that a first portion of a top surface of the first layer is exposed at a first side of the blank and such that a second portion of an under surface of the second layer is exposed at a second side of the blank, wherein each of the first and second portions comprises a line of perforations, wherein each of the line of perforations extends longitudinally along the length of the blank; wherein the line of perforations on the first portion and the line of perforations on the second portion are positioned on the first and second portions such



that when the blank is folded the exposed top surface of the first portion is configured to be affixed to an outer surface of the second layer, the exposed under surface of the second portion is configured to be affixed to an inner surface of the first layer and the first and second lines of perforations are substantially aligned with an internal space between the lines of perforations; wherein a second side inner edge of the second layer is configured to be sandwiched between the first layer and the first portion, a first side inner edge of the first layer is configured to be sandwiched between the second layer and the second portion, and the first side inner edge of the first layer is configured to be spaced from the second side inner edge of the second layer, thereby creating an enclosed space between the first and second side inner edges and a section of the first and second portions, wherein the enclosed space provides the internal space between the lines of perforations.

2. The blank of claim 1, wherein the first and second lines of perforations are straight.
  3. The blank of claim 1, wherein the first and second layers are formed from a paper based material having a density in the range of 200 to 600 gsm.
  4. Packaging comprising an assembly of: a base; and the blank as claimed in claim 1, wherein the blank is formed to provide at least one sidewall projecting from the base, wherein together the at least one sidewall and the base define a storage volume, wherein the at least one sidewall comprises inner and outer layers, provided by the first and second layers respectively of the blank; wherein the inner and outer layers include the first portion and second portion, each comprising a line of perforations, wherein the first portion is affixed to an outer surface of the outer layer, the second portion is affixed to an inner surface of the inner layer such that the lines of perforations of the inner and outer layers are substantially aligned with an internal space between the lines of perforations; wherein a second side inner edge of the outer layer is sandwiched between the inner layer and the first portion, a first side inner edge of the inner layer is sandwiched between the outer layer and the second portion, wherein the first side inner edge of the inner layer is spaced from the second side inner edge of the outer layer, thereby creating an enclosed space between the first and second side inner edges and a section of the first and second portions, wherein the enclosed space provides the internal space between the lines of perforations.
  5. The packaging of claim 4, wherein the base comprises a channel portion for receiving the at least one sidewall, wherein the at least one sidewall is fitted into the channel portion.
  6. The packaging of claim 4, wherein the base is formed of metal or a plastics material.
  7. The packaging of claim 4, wherein the enclosed space between the first side inner edge of the inner layer and the second side inner edge of the outer layer has a width of at least 2.5 mm.
  8. The packaging of claim 5, wherein the channel portion comprises two opposing contact surfaces, wherein when the sidewall is attached to the base the at least one sidewall is positioned between the two contact surfaces and each contact surface abuts the at least one sidewall.
  9. The packaging of claim 8, wherein the channel portion defines a channel, wherein the two opposing contact surfaces are inner and outer contact surfaces, the outer contact surface being located outwardly further away from the centre of the base than the inner contact surface, wherein the outer contact surface is provided upon a sidewall lip which projects into the channel.
  10. The packaging of claim 9, wherein the outer contact surface provided upon the sidewall lip is parallel to the inner contact surface.
  11. The packaging of claim 10, wherein the sidewall lip comprises a free end which is rounded.
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