

Señor Jefe

DIVISION DE NUEVAS CREACIONES

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

Santa Fe de Bogotá, D.C.

SUPERINDUSTRIA Y COMERCIO
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Dependencia: 2020 DIVISION DE NUEVAS CREACIONES

Re.: Expediente No. 000-67.342

Solicitud Patente

DART INDUSTRIES, INC.

Debidamente traducida, adjunto acompaño la copia oficial de la solicitud de patente básica Estadounidense No. 09/394.599, la cual le solicito agregar a este expediente para los efectos legales respectivos.

De Usted atentamente,

GERMAN CASTILLO GRAU

T.P.#2.978 del C.S.J.

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ESTADOS UNIDOS DE AMÉRICA

A TODOS A QUIENES LLEGUE EL PRESENTE:

DEPARTAMENTO DE COMERCIO DE LOS ESTADOS UNIDOS

Oficina de Marcas y Patentes

15 de mayo de 2000.

LA PRESENTE CERTIFICA QUE LA ADJUNTA ES UNA COPIA TOMADA DE LOS REGISTROS DE LA OFICINA DE MARCAS Y PATENTES DE LOS ESTADOS UNIDOS, DE LOS DOCUMENTOS DE LA SOLICITUD DE PATENTE ABAJO IDENTIFICADA Y LA CUAL CUMPLE CON LOS REQUISITOS PARA QUE LE SEA CONFERIDA UNA FECHA DE RADICACIÓN SEGÚN 35 USC 111.

NÚMERO DE SOLICITUD 09/394.599

FECHA DE RADICACIÓN: 13 de septiembre de 1999

Por Autoridad del

COMISIONADO DE MARCAS Y PATENTES

(FIRMA) H. L. JACKSON

Oficial de Certificaciones

(SELLO DORADO DE OBLEA)

* * * * *

CONTENEDOR CON UN SELLO NO PLANAR ENTRE LA BASE Y LA TAPA

REIVINDICACIONES:

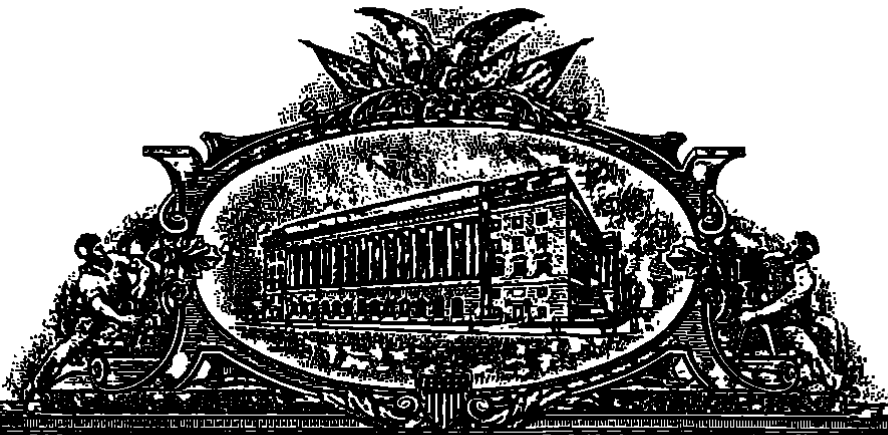
1. En un contenedor que tiene una base y una tapa, la base tiene un primer componente de cierre y la tapa un segundo componente de cierre el primero y el segundo componentes de cierre interactúan para formar un sello cuando dicha tapa es montada a dicha base; dicho mejoramiento comprende:

dicho cierre que se extiende a lo largo de un lugar de puntos que definen un plano no lineal, y dichos primero y segundo componentes se extienden sustancialmente normal a dicho plano no lineal en cualquier punto en particular a lo largo de dicho cierre.

2. El mejoramiento de la reivindicación 1, en donde dicha base incluye una primera orilla de la base y dicha tapa incluye una primera orilla de la tapa, y en donde dicho primer componente de cierre comprende una cara de dicha orilla de la base y en donde dicho segundo componente de cierre comprende una proyección que se extiende desde dicha orilla de la tapa para encajarse con dicha cara de dicha orilla de la base.

3. El mejoramiento de la reivindicación 1, en donde dicha base incluye una orilla de la base y dicha tapa incluye una orilla de la tapa, y en donde dicho segundo componente de cierre comprende una cara de dicha orilla de la tapa, y en donde dicho primer componente de cierre comprende una proyección que se extiende de dicha orilla de la base para encajarse con dicha cara de dicha orilla de la tapa.

PA 246811



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

May 15, 2000

**THIS IS TO CERTIFY THAT ANNEXED HERETO IS A TRUE COPY FROM
THE RECORDS OF THE UNITED STATES PATENT AND TRADEMARK
OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT
APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A
FILING DATE UNDER 35 USC 111.**

APPLICATION NUMBER: 09/394,599

FILING DATE: September 13, 1999



**By Authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS**

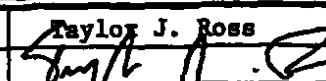
H. L. Jackson
H. L. JACKSON
Certifying Officer

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UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))	Attorney Docket No.	130548-M200
	First Inventor or Application Identifier	Alex Kinming LEE et al
	Title	Container with a Non-Planar Seal Between Base and Lid
	Express Mail Label No.	EL432723045US

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231		
1. ☒ Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)	5. ☐ Microfiche Computer Program (Appendix)		
2. ☒ Specification (2 Sets) [Total Pages 11] (preferred arrangement set forth below) - Descriptive title of the invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D - Reference to Microfiche Appendix - Background of the invention - Brief Summary of the invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure	6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. ☐ Computer Readable Copy b. ☐ Paper Copy (identical to computer copy) c. ☐ Statement verifying identity of above copies		
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 3] (2 Sets)	ACCOMPANYING APPLICATION PARTS		
4. Oath or Declaration (2 Sets) [Total Pages 4] a. ☒ Newly executed (original or copy) b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d)) (for continuation/divisional with Box 16 completed) - L ☐ DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).	7. ☒ Assignment Papers (cover sheet & document(s))		
*NOTE FOR ITEMS 1 & 16: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.29).			
11. ☐ Preliminary Amendment			
12. ☒ Return Receipt Postcard (MPEP 603) (Should be specifically itemized)			
13. ☐ Small Entity Statement filed in prior application, Status still proper and desired (PTO/SB-12)			
14. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)			
15. ☐ Other: _____			
16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: ☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: _____ Prior application information: Examiner: _____ Group / Art Unit: _____ For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.			
17. CORRESPONDENCE ADDRESS			
☐ Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) or ☒ Correspondence address below			
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Name (Print/Type)	Taylor J. Ross	Registration No. (Attorney/Agent)	33,342
Signature		Date	9/13/99

36
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CONTAINER WITH A NON-PLANAR SEAL BETWEEN BASE AND LID

CROSS-REFERENCE TO RELATED APPLICATIONS

Not Applicable.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH

Not Applicable.

5 BACKGROUND OF THE INVENTION

The present invention relates in general to sealed containers for storage. In particular, the present invention relates to an improved arrangement for sealing a container about a locus of points defining a non-planar surface.

Sealed containers in general are well known, especially for household use and for storing of food. Such containers are exemplified by Tupperware[®] brand containers having a base defining a volume for receiving a quantity of material, typically food, and a lid secured to the base to close same. The fit between the base and lid is typically designed to provide a liquid-tight seal, and possibly a gas-tight seal. This seal is achieved in a number of different ways well known in the art. These containers have taken a variety of shapes, with outer peripheries ranging from relatively square to round, with bases ranging from relatively flat platforms to deep concavities, and with lids ranging from deep inverted concavities to relatively flat covers. Despite this variety in shape, however, the actual points of contact between the base and lid, i.e., the actual seal, has typically been along a locus of points which defines a plane. In other words, regardless of the shape of the assembled base and lid, the base and lid joined along a linear plane passing through this assembly. This linear plane permitted the lid to be placed on the base by moving in a direction normal to such plane.

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This has limited design potential for the containers. It has been known to place this plane at an angle, and at various vertical positions. It has also been known to provide a gentle curvature to the plane about one axis. Each of these variations has expanded design possibilities, but has had limits. In particular, even with the gently curved seal the components forming the seal were oriented vertically. In other words, the lid was still placed on the base (i.e., the sealing direction) by pure vertical movement (discounting the radial flexing of the plastic components). While this is acceptable for minimal curvature in the sealing plane, more pronounced curvatures resulted in poor seal fits. With the present invention, the design possibilities are expanded further. With the present design, the curvatures of the plane may be much more radical, as the sealing direction varies about the plane. This variation in sealing direction requires variation in the sealing components, generally such that they are normal to the plane of the seal.

SUMMARY OF THE INVENTION

An object of the present invention is to provide a container having a base with sealing lid.

Another object of the present invention is to provide such a base and lid in which the seal between the two is along a locus of points defining a non-linear plane.

A further object of the present invention is to provide such a base and lid in which the sealing components are oriented substantially normal to the non-linear plane.

These and other objects are achieved by a non-planar seal between a container having a base and lid. The base has an rim which includes a first seal component. The lid has a rim which includes a second seal component. The first and second seal components interact to provide a seal, for example a water-tight seal, when the lid is mounted to the container to thus

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protect the contents of the container. The seal is formed along a locus of points defining a non-linear plane, or curved surface. The first and second seal components are oriented so as to be substantially normal to the non-linear plane at any given point along the seal. This arrangement permits greater design possibilities due to fewer restraints on seal component placement, while still providing excellent sealing properties for the container.

BRIEF DESCRIPTION OF THE DRAWINGS

The objects and features of the invention noted above are explained in more detail with reference to the drawings, in which like reference numerals denote like elements, and in which:

Fig. 1 is a perspective view of a first embodiment of a container according to the present invention;

Fig. 2 is a side view of the container of Fig. 1;

Fig. 3 is a detail cross-sectional view along line 3-3 of Fig. 1;

Fig. 4 is an exploded view of the assembly of Fig. 3;

Figs. 5 and 6 are exploded detail views similar to Fig. 4, showing alternative prior art sealing arrangements; and

Fig. 7 is a detail view along line 7-7 of Fig. 1, with components exploded.

DETAILED DESCRIPTION OF THE INVENTION

With reference to Fig. 1, a first embodiment of a container according to the present invention is generally designated by reference numeral 10. The container 10 includes a base 12 and a lid 14. The base 12 and lid 14 together define an interior 16 (Fig. 3) which will receive material for storage within the container 10. The interior 16 is formed by one or both

of the base 12 and lid 14 having a concave configuration, typically the base 12, as shown in Fig. 1.

In the first embodiment, the base 12 includes a bottom wall 18 having an outer periphery, and one or more side walls 20 extending upwardly from the bottom wall 18 to form a base rim 22. The lid 14 includes a top wall 24 having an outer periphery which defines a lid rim 26. It will be apparent that these components could be inverted such that the lid 14 acts as the base, and the base 12 acts as the lid. Alternatively or additionally, the lid 14 could have a depth which contributes appreciably to the interior 16 by addition of side walls (not shown) in a manner similar to that shown for base 12.

The base rim 22 and lid rim 26 are configured to form a mating seal when assembled together. To this end, the base rim 22 includes a first seal component 28 and the lid rim 26 includes a second seal component 30. In the first embodiment, the first seal component 28 takes the form of a vertically extending rib, and the second seal component 30 takes the form of a downward opening groove which closely receives this rib. As best shown in Fig. 4, it is known in the prior art to form this groove with a variation in width, such as by a protrusion 32. As may be envisioned, this protrusion will serve to pinch the rib when assembled. While the rib may be closely received within the groove at all points, it is at this protrusion 32 that the actual seal is formed for strong seals, such as water-tight.

To achieve a tight fit, and thus produce a good seal, it is preferred that at least one of the first seal component 28 and/or second seal component 30 at least include a material having elasticity. This elasticity may be relatively minor, and be provided by forming the second seal component 30 from sheet metal. For ease of manufacture and maintenance, it is

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preferred however that this elastic material be a plastic. For example, the lid 14 may be formed of a monolithic piece of plastic material such a polyethylene.

As noted above, in the prior art these seal components would lie along a linear plane (as do the portions of the seal components shown in Figs. 3 and 4). Further, in the prior art it is known to provide a better seal by providing the seal components with a slight angle with respect to vertical. This is illustrated by the angle A in Fig. 4. In terms of the present invention, it is seen that prior art seal components are placed at a slight angle with respect to the plane of the seal (i.e., a horizontal plane in Figs. 3 and 4), and are thus not normal to such plane. For the purposes of this invention, this angle is encompassed by the phrase "substantially normal" when referring to the locus of points defining the seal. As such, the portion of the seal components shown in Figs. 3 and 4 is substantially normal to the linear horizontal plane.

In the prior art the locus of points defining the seal (i.e., the contact points between the protrusion 32 and base rim 22) would typically form a linear horizontal plane. Further, the seal components (i.e., the base rim 22 and lid rim 26) extend in a parallel, vertical direction. In the one prior art container known to applicants in which the locus of points defining the seal is not a linear plane, the curvature of the plane is gentle and small, and the seal components still extend in a parallel, vertical direction.

The first seal component 28 and second seal component 30 may take various other forms known in the art. Examples of other seal components are shown in Figs. 5 and 6. In Fig. 5, a prior art container 34 includes a base 36 and lid 38. The base 36 includes an upper rim 40, and the lid 38 includes a depending skirt 42 sized to closely surround the upper rim 40. The first seal component 28 in this embodiment is a peripheral projection 44 extending

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laterally outward from the upper rim 40, and the second seal component 30 is the inner face of the skirt 42. As may be envisioned, upon assembly the projection 44 will press against the inner face of the skirt 42 to form the actual seal.

In this arrangement the locus of points defining the seal again forms a linear, horizontal plane, and the seal components (i.e., the upper rim 40 and skirt 42) again extend in a parallel, vertical direction.

The arrangement of Fig. 5 may also be reversed, such that the skirt is received within the upper rim, and the skirt includes a ridge which abuts the inner face of the upper rim. This is similar to the prior art arrangement shown in Fig. 6. In this arrangement a container 46 includes a base 48 and a lid 50. The base 48 again includes an upper rim 52, which in this case includes a inward extending peripheral rim forming a downward directed shoulder 54. The lid 50 includes a lid rim 56 surrounding a depressed top wall 58. The inner face of the lid rim 56 includes a ridge 60 positioned to seat beneath the shoulder 54 when the lid 50 is assembled to the base 48. This abutment of the projection 60 against the shoulder 54 forms the seal in this arrangement.

Here again the locus of points defining the seal define a linear, horizontal plane, and the seal components (i.e., the upper rim 52 and lid rim 56) extend in a parallel, vertical direction.

Various other seal component structures are known in the prior art. In each case however, the locus of points defining the seal is believed to lie within a linear, typically horizontal, plane. Further, the seal components are believed to extend in a parallel, typically vertical, direction. To the extent, however, that these other seal components may be used according to the present invention, they are intended to be encompassed hereby.

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To this point the description of the container 10 has focused on those aspects which are identical to the prior art. The present invention, however, differs from the prior art in an important respect. This difference is the formation of the seal components such that the locus of points forming the seal defines a non-linear plane, and that the seal components extend in a direction normal to such plane at any particular point along the seal.

As shown in Fig. 2, the side walls 20 have a reduced height adjacent the left end, such that the base rim 22 slopes downward toward this end. In a similar manner, the lid 14 and lid rim 26 slope downward as well. As may be envisioned, the locus of points defining the seal will thus be a non-linear plane. In this simple example, the non-linear plane includes a single line of curvature between two linear planar portions. Other, more complex, forms are of course possible. This non-linear plane is a first aspect of the present invention. The second aspect is the orientation of the seal components, which is best illustrated in Fig. 7.

As shown, the base rim 22 and lid rim 26 (with associated protrusion 32) slope downward adjacent this end of the container. The seal components do not extend vertically, however, but instead extend substantially normal to the non-linear plane at each point along the seal. In other words, a true normal N to the non-linear plane extends perpendicular to the edge of the base rim 22. The seal components may, however, be offset from this true normal N by the small angle A to increase the operability of the seal as is known in the art. As such, the seal components extend substantially normal, as defined above. This offset may not be required in all configurations, however, and true normal orientation is of course also encompassed within "substantially normal".

As noted, this is a simple example showing only a single line of curvature between two linear planar portions. The principle of the present invention may however, be applied to

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more complex forms having multiple lines of curvature extending in multiple directions with multiple radii. In each case the locus of points defining the seal will define a non-linear plane, and in each case the seal components will extend in a direction substantially normal to such plane at any point along the seal. This arrangement permits a good seal to be formed
5 about the entirety of the base, while greatly increasing the design possibilities for containers.

While this principle is relatively simple, the actual production of containers according to the present invention is more problematic. Specifically, molding such containers using injection molding techniques presents issues of blockage and release. For example, in Fig. 7 it may be seen that for the base the typical parting line between mold portions would be at the edge of the base rim 22. This presents no problems. However, the outward extending lip 62 does. The upper face of this lip 62 extends inward, such that the mold portion forming this upper face would tend to block release of the base from the mold (i.e., movement in the vertical direction in Fig. 7). Similar problems may be seen with regard to molding the lid 14, and in particular the lid rim 26. These problems may be eliminated, however, by use of
15 movable mold portions as are known in the art. While the use of movable mold portions is not feasible for all applications, it will still permit a wide range of container forms to be produced according to the present invention.

From the foregoing it will be seen that this invention is one well adapted to attain all ends and objects hereinabove set forth together with the other advantages which are obvious
20 and which are inherent to the structure.

It will be understood that certain features and subcombinations are of utility and may be employed without reference to other features and subcombinations. This is contemplated by and is within the scope of the claims.

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Since many possible embodiments may be made of the invention without departing from the scope thereof, it is to be understood that all matter herein set forth or shown in the accompanying drawings is to be interpreted as illustrative, and not in a limiting sense.

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WHAT IS CLAIMED IS:

1 1. In a container having a base and a lid, with the base having a first seal component
2 and the lid having a second seal component, the first and second seal components interacting
3 to form a seal when said lid is mounted to said base, the improvement comprising:

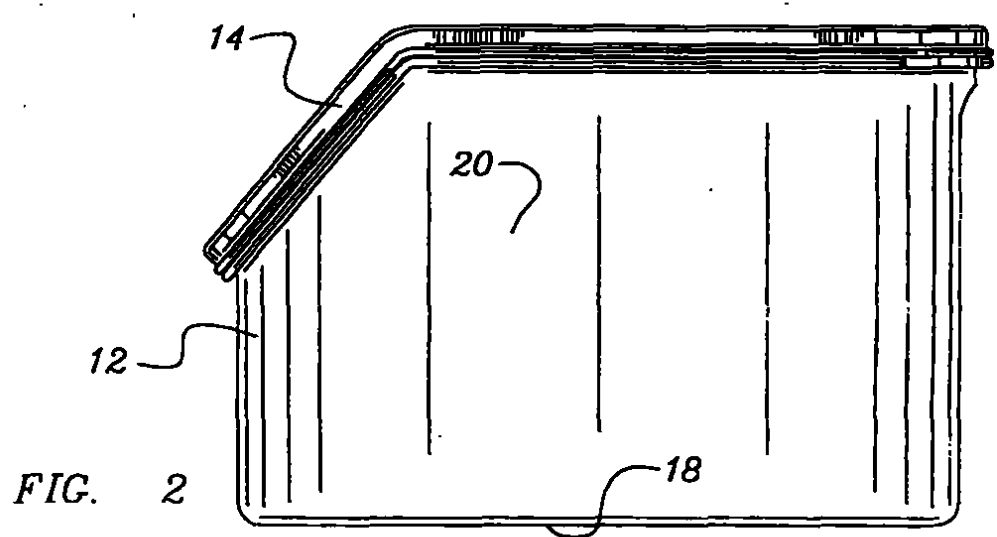
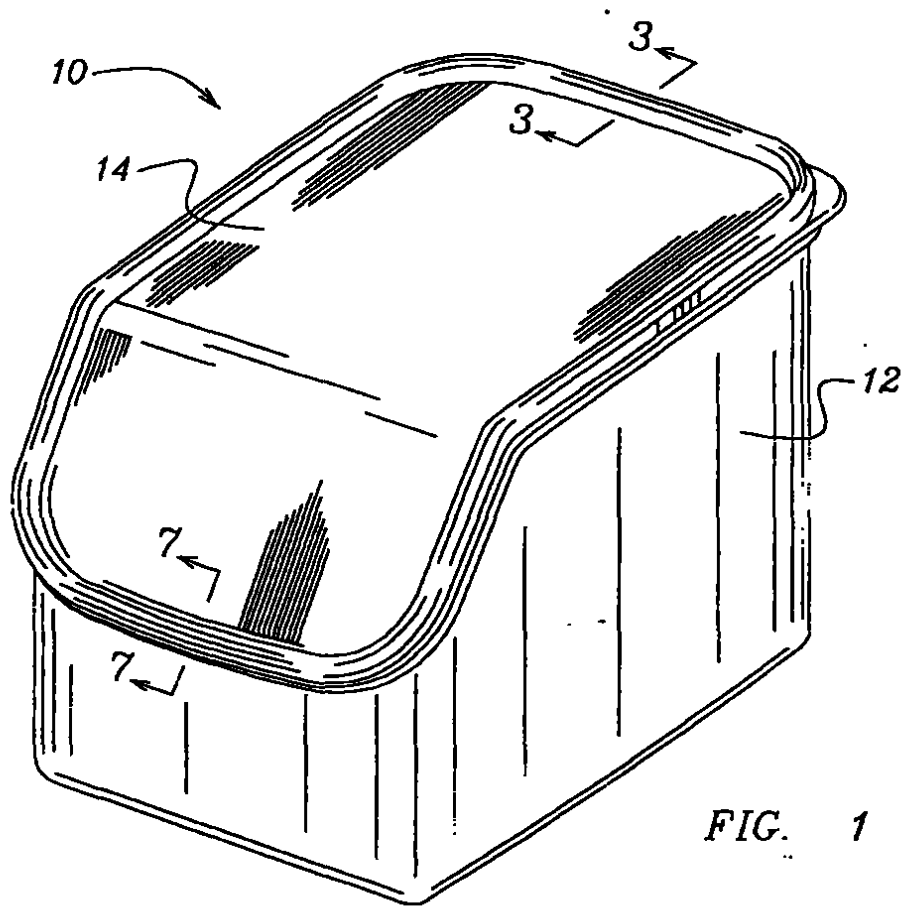
4 said seal extending along a locus of points defining a non-linear plane, and said first
5 and second seal components extending substantially normal to said non-linear plane at any
6 particular point along said seal.

1 2. The improvement of claim 1, wherein said base includes a base rim and said lid
2 includes a lid rim, and wherein said first seal component comprises a face of said base rim
3 and wherein said second seal component comprises a projection extending from said lid rim
4 to abut said face of said base rim.

1 3. The improvement of claim 1, wherein said base includes a base rim and said lid
2 includes a lid rim, and wherein said second seal component comprises a face of said lid rim
3 and wherein said first seal component comprises a projection extending from said base rim to
4 abut said face of said lid rim.

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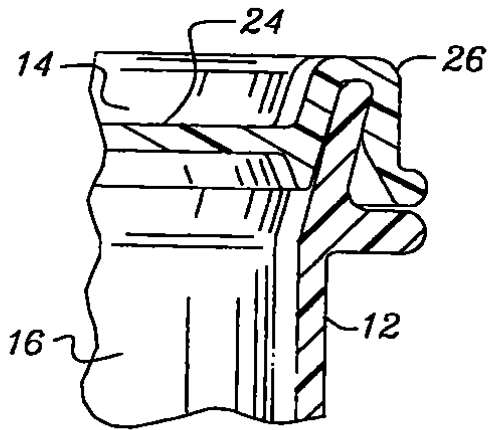


FIG. 4

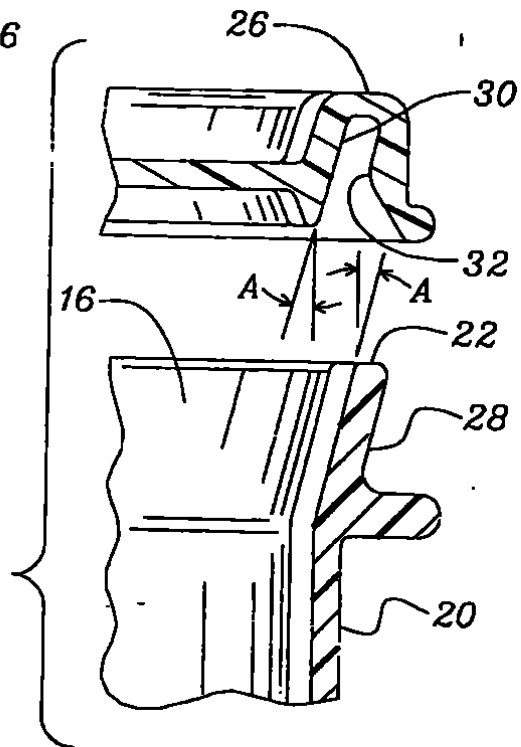


FIG. 3

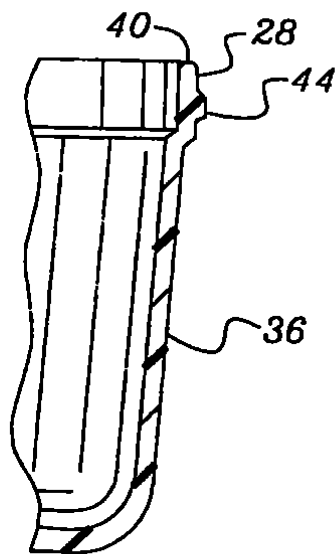
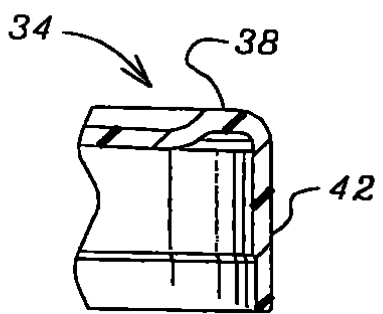


FIG. 5

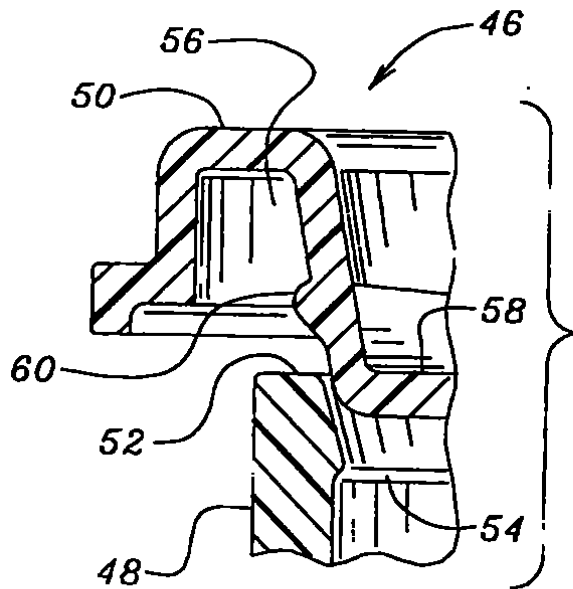


FIG. 6

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Combined Declaration and Power of Attorney
Attorney Docket No.: 130548-M200

(Utility, Design, National Stage of PCT, Substitute, Divisional, Continuation or CIP Application)

This declaration is for the following type of application:

- ☒ Utility
☐ Design
☐ National Stage of PCT
☐ Substitute
☐ Divisional
☐ Continuation
☐ Continuation-in-Part

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

CONTAINER WITH A NON-PLANAR SEAL BETWEEN BASE AND LID

the specification of which:

☒ is attached hereto

☐ was filed on _____ as application Serial No. _____ and was amended on _____ (if applicable)

☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to the inventor to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

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I hereby claim foreign priority benefits under Title 35, United States Code Section 119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international applications(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

Country	Application Number	Date of Filing (month, day, year)	Priority Claimed Under 37 USC 119
			☐ Yes ☐ No
			☐ Yes ☐ No
			☐ Yes ☐ No

I hereby claim the benefit under Title 35, United States Code Section 120, of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Serial No.) (Filing Date) (Patented, Pending, Abandoned)

(Application Serial No.) (Filing Date) (Patented, Pending, Abandoned)

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As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

John A. Doninger -Reg. No. 28,293
Taylor J. Ross - Reg. No. 33,342

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Direct Telephone Calls To:

Dart Industries Inc.
P.O. Box 779001
Orlando, FL 32877-9001

Taylor J. Ross
(407) 826-8817

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Wherefore I pray that Letters Patent be granted to me (if only one name listed below) or us (if plural names listed below) for the subject matter which is claimed in the specification (including claims) identified above, and I hereby subscribe my name to the specification, the accompanying declaration, power of attorney, and this petition.

Full name of sole or first inventor: Alex Kinming LEE

Inventor's signature: _____ Date: _____

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Post Office: 10H, Block 4, Hong Sing Garden, Junk Bay, Hong Kong

Citizenship: China Hong Kong

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Victor J. J. CAUTEREELS

or: Victor J. J.

Date: AUG 26 '99

Residence: Schawijkstraat 31, B-2520 Ranst, Belgium

Post Office: Schawijkstraat 31, B-2520 Ranst, Belgium

Citizenship: Belgium

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.