



Industria y Comercio

SUPERINTENDENCIA

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 10-096397-00000-0000

Fecha: 2010-08-06 14:37:47 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 411 PRESENTACION Folios: 88

Organizacion y
Digitalizacion CSA Ltda



CSA125479

SOLICITUD

PATENTE DE INVENCION

10-96397

21. EXPEDIENTE N°

54. TÍTULO PREFORMA Y RECIPIENTE QUE TIENE BRIDA DE
SOPORTE GRABADA EN BAJORRELIEVE.

51. CLASIFICACIÓN INTERNACIONAL B65D 1/02

71. SOLICITANTE AMCOR LIMITED

DOMICILIO Victoria, Australia.

74. APODERADO DILIA MARIA RODRIGUEZ D'ALEMAN

22. BOGOTÁ, D.C.

8-2010



No. 10-096397- -00000-0000

Fecha: 2010-08-06 14:37:47 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 411 PRESENTACION Folios: 88

FORMULARIO ÚNICO DE SOLICITUD DE PATENTE
PCT
ENTRADA EN FASE NACIONAL

SOLICITUD DE:

1

☒

Patente de Invención

☐

Patente de Modelo de Utilidad

☒

Capítulo I.

☐

Capítulo II.

2

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5

PCT (86)

Solicitud Internacional No. PCT/US2009/032235 Fecha 28 de enero de 2009

Publicación Internacional No. WO 2009/099832 A3 Fecha 13 de agosto de 2009

6

TÍTULO (54) PREFORMA Y RECIPIENTE QUE TIENE BRIDA DE SOPORTE GRABADA EN
BAJORRELIEVE.

7

Clasificación Internacional (51)

B65D 1/02

B 29C 49/02

B 65 D 41/34

8

Prioridad

(33) País de Origen

(32) Fecha

(31) Número de Solicitud

ESTADOS UNIDOS DE AMÉRICA

30 de enero de 2008

12/011,975

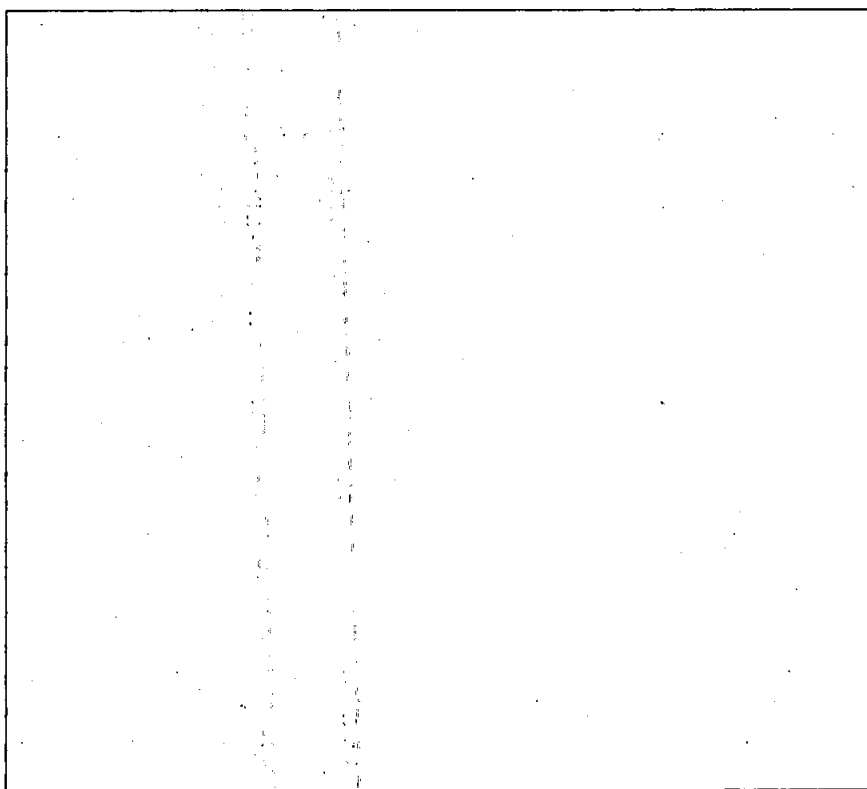
SI ☒ NO ☐

9 Comprobante de pago No. 10-63,037 // 10-63,195 // 10-63,219

Fecha 3 de agosto de 2010

- ☐ Comprobante de pago de la tasa de presentación de la solicitud
- ☐ Documento que acredita la existencia y representación legal cuando el solicitante sea persona jurídica
- ☐ Poderes si fuere el caso
- ☐ Documento de cesión del inventor al solicitante o a su causante
- ☐ Declaraciones
- ☐ Copia de la solicitud internacional. (Resumen, descripción, reivindicaciones, dibujos)
- ☐ Traducción de la solicitud internacional al castellano. (Resumen, descripción, reivindicaciones, dibujo)
- ☐ Copia del examen preliminar internacional efectuado por la Autoridad Internacional de Examen Preliminar (IPEA).
- ☐ Traducción del examen preliminar internacional efectuado por la IPEA
- ☐ De ser el caso copia de contrato de acceso.
- ☐ De ser el caso, documento que acredite la licencia o autorización de uso de conocimientos tradicionales de las comunidades indígenas
- ☐ De ser el caso, certificado de depósito del material biológico
- ☐ Arte final 12 X 12 .
- ☐ De ser el caso, información sobre otras solicitudes de patente o títulos obtenidos en el extranjero por el mismo titular o su causante, relacionadas parcial o totalmente con la invención de esta solicitud.
- ☐ De ser el caso, modificaciones efectuadas a la solicitud internacional
- ☐ Otros Opinión escrita

11 FIGURA CARACTERÍSTICA



12 Solicito la concesión de la patente

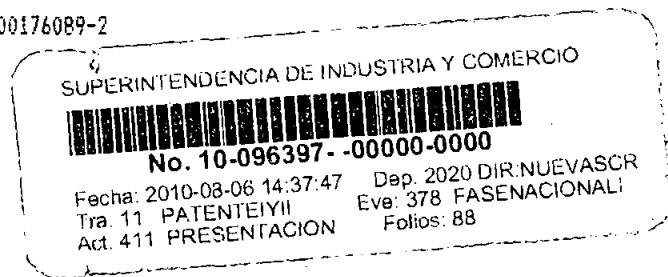
NOMBRE : DILIA MARÍA RODRÍGUEZ D'ALEMAN

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SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 800176089-2

RECIBO OFICIAL DE CAJA : 10 - 63,037
FECHA : AGOSTO 3 DE 2010



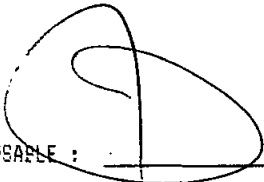
***** CONSIGNACION *****

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PGO	Vr. PAGO
CLARKE MODET	CONSIGNACION	BANCO DE BOGOTA	062754387	380476084	02/08/2010	94,210,000.00

***** CONCEPTO *****

CANT.	RENTISTICO	CONCEPTO	TOTAL CONCEPTO
1	50005-01-01	SOLICITUDES	
		3 PROC. REGISTRO DE MARCAS Y LEMAS	706,000.00
		TOTAL :	\$ 706,000.00

SON: SETECIENTOS SEIS MIL PESOS

RESPONSABLE : 

RECIBO DE CAJA APLICADO AL EXPEDIENTE No. _____

2
P-2645

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 800176089-2

RECIBO OFICIAL DE CAJA : 10 - 63,195
FECHA : AGOSTO 3 DE 2010



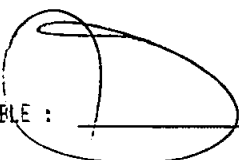
***** CONSIGNACION *****

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PAGO	Vr. PAGO
CLARKE MODET	CONSIGNACION	BANCO DE BOGOTA	062754387	380476084	02/08/2010	94,210,000.00

***** CONCEPTO *****

CANT.	RENTISTICO	CONCEPTO	TOTAL CONCEPTO
1	50005-01-08	PRORROGA DE TERMINOS	*** N.CREACION PRORROGA DE TERMINOS 0
			TOTAL : \$ 83,000.00

SON: OCHENTA Y TRES MIL PESOS

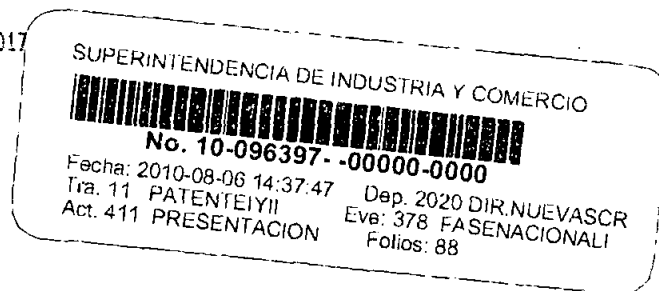
RESPONSABLE : 

RECIBO DE CAJA APLICADO AL EXPEDIENTE No. _____

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 80017

RECIBO OFICIAL DE CAJA : 10 - 63,219
FECHA : AGOSTO 3 DE 2010



***** CONSIGNACION *****

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PGO	Vr. PAGO
CLARKE MODET	CONSIGNACION	BANCO DE BOGOTA	062754387	380476084	02/08/2010	94,219,000.00

***** CONCEPTO *****

CANT. RENTISTICO	CONCEPTO	TOTAL CONCEPTO
1 50005-01-09 OTROS SERVICIOS DE PROPIEDAD I	54 INFORMACION DETALLADA DE UN TRAMI	26,000.00
	TOTAL :	\$ 26,000.00

SON: VEINTISEIS MIL PESOS

RESPONSABLE : _____

RECIBO DE CAJA APLICADO AL EXPEDIENTE No. _____

RESUMEN DE LA INVENCION

La presente descripción proporciona un recipiente y un método para producir un recipiente. En un ejemplo, el recipiente incluye una porción superior que tiene un acabado que define un eje longitudinal y una abertura dentro del recipiente. Una región de hombro se forma integralmente con y extiende desde la porción superior. Una porción de pared lateral se extiende desde la región de hombro a una porción base. Una banda evidente de manipulación indebida (TE) se forma en el acabado y define una superficie más externa del recipiente de plástico sobre la región de hombro. Un cuello que define una pared lateral cilíndrica se forma integralmente con y extiende entre el acabado y la región de hombro. El cuello define una pared lateral cilíndrica uniforme sobre toda su altura entre el acabado y la región de hombro. El recipiente además incluye una brida de soporte con grabado en bajorrelieve definida en la porción superior. La brida de soporte con grabado en bajorrelieve define un diámetro menor que el diámetro definido por la banda TE.

PREFORMA Y RECIPIENTE QUE TIENE BRIDA DE SOPORTE

GRABADA EN BAJORRELIEVE

CAMPO TÉCNICO

Esta descripción en general se refiere a recipientes para retener un artículo
5 de consumo, tal como un artículo de consumo sólido o líquido. Más específicamente, esta
descripción se refiere a un recipiente soplado de polietilén tereftalato (PET) que tiene una
brida de soporte grabada en bajorrelieve.

ANTECEDENTES

Como resultado de consideraciones ambientales y otras, los recipientes de
10 plástico, más específicamente de poliéster y aún más específicamente recipientes de
polietilén tereftalato (PET) ahora se utilizan más que nunca para envasar numerosos
artículos de consumo previamente suministrados en recipientes de vidrio. Los fabricantes
y los embotelladores así como los consumidores, han reconocido que los recipientes de
PET son de peso ligero, económicos, reciclables y que se pueden fabricar en grandes
15 cantidades.

Los recipientes de plástico moldeados por soplado se han vuelto comunes
para envasar numerosos artículos de consumo. El PET es un polímero cristalizante, lo
que significa que está disponible en una forma amorfa o una forma semi-cristalina. La
capacidad de un recipiente de PET para mantener su integridad de material se refiere al
20 porcentaje de recipiente PET en forma cristalina, también conocido como la "cristalinidad"
del recipiente PET. La siguiente ecuación define el porcentaje de cristalinidad como una
fracción en volumen:

$$\% \text{ Cristalinidad} = \left(\frac{\rho - \rho_a}{\rho_c - \rho_a} \right) \times 100$$

en donde p es la densidad del material PET; p_a es la densidad del material PET amorfo puro (1.333 g/cc); y p_c es la densidad del material cristalino puro (1.455 g/cc).

Los fabricantes de recipientes utilizan procesamiento mecánico y procesamiento térmico para aumentar la cristalinidad del polímero de PET de un recipiente. El procesamiento mecánico involucra orientar el material amorfo para lograr endurecimiento por tensión. Este procesamiento comúnmente involucra estirar un preforma de PET moldeada por inyección sobre un eje longitudinal y expansión de la preforma PET sobre un eje transversal o radial para formar un recipiente de PET. La combinación promueve lo que los fabricantes definen como orientación biaxial de la estructura molecular en el recipiente. Los fabricantes de recipientes de PET actualmente utilizan procesamiento mecánico para producir recipientes PET que tienen aproximadamente 20% de cristalinidad en la pared lateral del recipiente.

El procesamiento térmico involucra calentar el material (ya sea amorfo o semi-cristalino) para promover el crecimiento de cristal. En material amorfo, el procesamiento térmico de material de PET resulta en una morfología esferulítica que interfiere con la transmisión de luz. En otras palabras, el material cristalino resultante es opaco, y de esta manera, en general, es indeseable. Utilizado después de procesamiento mecánico, sin embargo el procesamiento térmico resulta en superior cristalinidad y excelente claridad para aquellas porciones del recipiente que tienen una orientación molecular biaxial. El procesamiento térmico de un recipiente de PET orientado, que se conoce como fraguado o fijación por calor, típicamente incluye moldear por soplado una preforma de PET contra un molde calentado a una temperatura de aproximadamente 121 – 177 grados C (250 a 350 grados F), y manteniendo el recipiente soplado contra el molde calentado por aproximadamente dos (2) a cinco (5) segundos. Los fabricantes de las botellas para jugos a base de PET, que deben llenarse en caliente a aproximadamente 85

grados C (185 grados F), actualmente utilizan la fijación con calor para producir botellas de PET que tienen una cristalinidad total en el intervalo de aproximadamente 25% -35%.

5 Típicamente, una porción superior del recipiente de plástico define una abertura. Esta porción superior se refiere comúnmente como un acabado e incluye algunos medios para acoplar un cierre o tapa para cerrar la abertura. En el proceso de moldeo por soplado estirado-inyección tradicional, el acabado permanece substancialmente en su estado moldeado por inyección mientras que el cuerpo del recipiente se forma por debajo del acabado. El acabado puede incluir al menos una rosca que se extiende radial hacia afuera alrededor de una pared lateral anular que define un perfil roscado. En una aplicación, un miembro de cierre o tapa puede definir una o varias roscas complementarias que se adaptan para acoplar en forma cooperante con las roscas del acabado.

15 Un método alternativo puede emplearse para formar la porción de acabado del recipiente. Este método alternativo se conoce como un acabado soplado. Durante este proceso alternativo, la porción de acabado del recipiente se crea en el molde soplado utilizando un proceso similar a proceso de moldeo por soplado anteriormente descrito. Este proceso alternativo permite la producción de una porción de acabado de peso más ligero, y de esta manera, el recipiente, que lo posible a través del método de producción de moldeo por inyección tradicional.

20 Típicamente, el acabado del recipiente incluye una brida de soporte que da frente hacia afuera. Esta brida de soporte puede emplearse para acarrear u orientar una preforma a través de y en diversas etapas de fabricación. Por ejemplo, la preforma puede transportarse por la brida de soporte, la brida de soporte puede emplearse para ayudar en ubicar la preforma en un molde, o un consumidor final puede emplear la brida de soporte para transportar el recipiente de plástico una vez fabricado.

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COMPENDIO

De acuerdo con esto, la presente descripción proporciona un recipiente y un método para producir un recipiente. En un ejemplo, el recipiente incluye una porción superior, que incluye un acabado que define un eje longitudinal y una abertura dentro del recipiente. Una región de hombro se forma integralmente con y extiende desde la porción superior. Una porción de pared lateral se extiende desde la región de hombro a una porción base. La porción base cierra un extremo del recipiente. Una banda evidente de manipulación indebida (TE = Tamper Evident) se forma en el acabado y define una superficie más externa del recipiente de plástico sobre la región de hombro. Un cuello que define una pared lateral cilíndrica se forma integralmente con y extiende desde el acabado y la región de hombro.

De acuerdo con características adicionales, el cuello define una pared lateral cilíndrica uniforme sobre toda su altura entre el acabado y la región de hombro. La banda TE define un primer diámetro en la superficie más externa. El recipiente además incluye una brida de soporte grabada en bajorrelieve definida en la porción superior. La brida de soporte grabada en bajorrelieve define un segundo diámetro. El primer diámetro es mayor que el segundo diámetro.

Beneficios y ventajas adicionales de la presente descripción serán aparentes para aquellos con destreza en la técnica a la cual se refiere la presente descripción a partir de la subsecuente descripción y las reivindicaciones anexas, tomadas en conjunto con los dibujos acompañantes.

BREVE DESCRIPCIÓN DE LOS DIBUJOS

La Figura 1 es una vista en elevación lateral de un recipiente de plástico construido de acuerdo con las enseñanzas de la presente descripción ilustrado con una tapa ejemplar que tiene una banda desprendible conectada a la tapa antes de tapado

inicial sobre el recipiente de plástico.

La Figura 2 es una vista en perspectiva detallada de un acabado del recipiente de plástico mostrado en la Figura 1.

La Figura 3 es una vista seccional del acabado que se toma sobre la línea 3-3 de la Figura 2.

La Figura 4 es una vista seccional de una cavidad de molde ejemplar empleada durante formación del recipiente de plástico de la Figura 1 y que se muestra con una preforma ahí ubicada.

La Figura 5 es una vista en elevación lateral de un recipiente intermedio formado en la cavidad de molde de la Figura 4.

La Figura 6 es una vista en elevación lateral de un recipiente de plástico construido de acuerdo con características adicionales de la presente descripción.

La Figura 7 es una vista en elevación lateral de una preforma empleada para construcción del recipiente de plástico de la Figura 6; y

La Figura 8 es una vista seccional de una cavidad de molde ejemplar empleada durante formación de recipiente de la Figura 6 y que se muestra con la preforma de la Figura 7 ubicada ahí.

DESCRIPCIÓN DETALLADA

La siguiente descripción es solamente ejemplar en naturaleza, y de ninguna manera se pretende que limite la descripción o su aplicación o usos.

La Figura 1 muestra una modalidad del presente recipiente. En las Figuras, el número de referencia 10 designa un recipiente de plástico de una-pieza, por ejemplo de polietilen tereftalato (PET), para llenado en caliente. El recipiente 10 se muestra con una tapa ejemplar 12. La tapa 12 incluye una banda desprendible 14. El recipiente 10 y la tapa 12 son referidos colectivamente aquí como un montaje de botella

18. Como se muestra en las Figuras 1 y 2, el recipiente ejemplar 10 define un eje longitudinal L_1 y tiene una altura total H_1 de aproximadamente 177.10 mm (6.97 in). El recipiente 10 puede ser substancialmente cilíndrico en sección transversal. En esta modalidad particular, el recipiente 10 tiene una capacidad en volumen de
5 aproximadamente 946 cc (32 fl.oz.). Aquellos con destreza ordinaria en la especialidad apreciarán que las siguientes enseñanzas aplican a otros recipientes, tales como recipientes de forma rectangular, triangular, hexagonal, octagonal o cuadrada, que pueden tener diferentes dimensiones y capacidades en volumen. También se contempla que pueden hacerse otras modificaciones dependiendo de la aplicación específica y
10 requerimientos ambientales.

El recipiente 10 de acuerdo con las presentes enseñanzas define un cuerpo 20 e incluye una porción superior 22 que tiene un acabado 24. El acabado 24 define una abertura 30 en el recipiente 10. Formada integralmente con el acabado 24 y que se extiende hacia abajo de ahí, está una región de hombro 32. La región de hombro
15 32 se funde en y proporciona una transición entre el acabado 24 y una porción de pared lateral 36. La porción de pared lateral 36 se extiende hacia abajo de la región de hombro 32 a una porción base 40 que tiene una base 42. Una porción amortiguadora superior 44 puede definirse en una transición entre la región de hombro 32 y una porción de pared lateral 36. Una porción amortiguadora inferior 45 puede definirse en una transición entre
20 la porción base 40 y la porción de pared lateral 36. Un cuello 46 que define una pared lateral cilíndrica 47 se forma integralmente con el acabado 24 y se extiende entre el acabado 24 y la región de hombro 32. En un ejemplo, la pared lateral cilíndrica 47 puede definir un radio uniforme sobre toda su altura.

El recipiente 10 se ha diseñado para retener un artículo de consumo. El
25 artículo de consumo puede estar en cualquier forma tal como un producto sólido o líquido.

En un ejemplo, un artículo de consumo líquido puede introducirse en el recipiente 10 durante un proceso térmico, típicamente un proceso de llenado en caliente. Para aplicaciones de embotellado con llenado en caliente, los embotelladores generalmente llenan el recipiente 10 con un líquido o producto a una temperatura elevada entre
5 aproximadamente 68 grados C a 96 grados C (aproximadamente 155 grados F a 205 grados F) y sellar el recipiente 10 con la tapa 12 antes de enfriar. Además, el recipiente 10 puede ser adecuado para otros procesos de pasteurización a alta-temperatura o envasado con esterilización en retorta u otros procesos térmicos por igual. En otro ejemplo, el artículo de consumo puede introducirse en el recipiente 10 bajo temperaturas
10 ambiente.

Con referencia continua a la Figura 2 y adicional referencia a la Figura 3, el acabado 24 se describirá con mayor detalle. El acabado 24 del recipiente 10 en general incluye una pared lateral radial 48 que define una región roscada 50, que tiene roscas 52, y una banda evidente de manipulación indebida (TE) 54. Cada rosca 52 define una
15 porción de inicio de rosca 58, una porción intermedia de rosca 59, y una porción de fin o terminación de rosca 60. Como se ilustra, cada rosca 52 se inclina generalmente lejos de la abertura 30 desde la porción de inicio de rosca 58 a la porción de fin de rosca 60. En general, una porción de inicio de rosca 58 de una rosca 52, está alineada longitudinalmente (es decir alineada en una dirección paralela al eje longitudinal L_1 del
20 recipiente 10) con una porción de fin de rosca 60 de una rosca adyacente 52. Como mejor se muestra en la Figura 2, cada rosca 52 define una primera profundidad 62 en la porción de inicio de rosca 58 y una segunda profundidad 64 en la porción intermedia de rosca 59. De acuerdo con las presentes enseñanzas, la primera profundidad 62 es menor que la segunda profundidad 64. Más específicamente, la primera profundidad 62 es
25 aproximadamente 5-50% menor que la segunda profundidad 64. Al reducir la profundidad

de rosca en la porción de inicio de rosca 58, una mejora en repetibilidad para formar la porción de fin de rosca 60, se logra. En el acabado ejemplar 24, cuatro (4) roscas 52 se incluyen, sin embargo se contemplan más o menos roscas 52.

La banda TE 54 ahora se describirá. La banda TE 54 generalmente es perpendicular al eje longitudinal L_1 del recipiente 10. La banda TE 54 se define colectivamente por una pluralidad de proyecciones radiales desconectadas 70. Cada proyección radial 70 generalmente define un cuerpo 74 y una porción de soporte en rampa 76. El cuerpo 74 además define extremos inclinados terminales 78. Un espacio 72 se define en la pared lateral radial 48 del acabado 24 entre proyecciones radiales adyacentes 70. Cada espacio 72 se alinea longitudinalmente con una porción de inicio de rosca respectiva 58 y una porción de fin de rosca 60. Explicado adicionalmente, una línea L_2 paralela al eje longitudinal L_1 se extiende a través de la porción de inicio de rosca 58 de una primera rosca 52, la porción de fin de rosca 60 de una segunda rosca 52, y el espacio 72 (ver Figura 2). Dependiendo de un paso de rosca seleccionado para un recipiente dado, el espacio 72 puede estar en el intervalo entre aproximadamente 5-32 grados del diámetro de acabado. Además, una línea L_3 paralela al eje longitudinal L_1 se extiende a través de un extremo terminal de la porción de fin de rosca 60 y un extremo inclinado terminal contrario al sentido de las manecillas del reloj (como se ve de la abertura 30) 78 de un cuerpo 74 (ver Figura 2). La naturaleza discontinua de la banda TE 54 y más específicamente de la separación del espacio 72 respecto a la porción de fin de rosca 60 mejora la formación de la porción de fin de rosca 60, y las roscas 52 como un todo.

Con referencia a la Figura 3, se describirán dimensiones ejemplares para el acabado 24. Se aprecia que pueden emplearse otras dimensiones. Un diámetro D_1 se define con una superficie más externa 79 de la banda TE 54. Un diámetro D_2 se define en una superficie más externa 80 de la rosca 52. Un diámetro D_3 se define en la porción de

inicio de rosca 58. Se aprecia en el ejemplo mostrado, que la colocación relativa de las roscas 52 alrededor del acabado 24, permite que se defina un diámetro a través de las superficies más externas diametralmente opuestas 80, así como las porciones de inicio de rosca opuestas diametralmente 58. Aquellos con destreza en la técnica apreciarán que este arreglo no se requiere.

Un diámetro D_4 se define por la pared lateral radial 48. Una profundidad de banda TE 84 se define lateralmente entre la superficie más externa 79 de la banda TE 54 y la pared lateral radial 48. La banda TE 54 se forma entre una primera y segunda alturas 88 y 92, respectivamente del acabado 24. La primera altura 88 se extiende entre una superficie superior 90 de la pared lateral radial 48 y una frontera superior de la banda TE 54. La segunda altura 92 se extiende entre la superficie superior 90 de la pared lateral radial 48 y una frontera inferior de la banda TE 54.

De acuerdo con un ejemplo, el diámetro D_1 puede ser 63.02 mm (2.48 in). El diámetro D_2 puede ser 62.08 mm (2.44 in). El diámetro D_3 puede ser 61.32 mm (2.41 in). El diámetro D_4 puede ser 59.99 mm (2.36 in). Un ángulo α_1 de la rosca 52 que se extiende desde una línea perpendicular al acabado 24 a la rosca 52, puede ser aproximadamente 45 grados. Un ángulo α_2 de la banda TE 54 que se extiende desde una línea perpendicular al acabado 24 a la banda TE 54, puede ser de aproximadamente 30 grados.

Con referencia específica a las Figuras 1 y 3, el recipiente 10 define una brida de soporte con grabado en bajorrelieve 94. La brida de soporte grabada en bajorrelieve 94 se define por una pared que se extiende hacia adentro 96. La pared que se extiende hacia adentro 96 transita hacia la pared lateral cilíndrica 47 del cuello 46. La brida de soporte grabada en bajorrelieve 94 puede proporcionar un medio para sostener y/o sujetar el recipiente 10. La brida de soporte grabada en bajorrelieve 94 proporciona

una reducción significativa en peso de aproximadamente 5-10% o más sobre un recipiente de plástico soplado típico que incorpora una brida de soporte que da frente hacia afuera.

Debido a que el recipiente 10 define la brida de soporte grabada en
bajorrelieve 94, la banda TE 54 define una superficie más externa del recipiente 10 sobre
5 la región de hombro 32. Como puede apreciarse, una vez que la banda desprendible 14
se desprende de la tapa 12 al destapado inicial, la banda desprendible identificada con
líneas punteadas en 14' de la Figura 1, caerá sobre la región de hombro 32. De esta
manera, la banda desprendible 14' ocupa una posición desplazada de la banda TE 54
definiendo un espacio 98. El espacio 98 es un fuerte auxiliar visual para un cliente, ya
10 que ayuda en identificar si un recipiente ha sido o no abierto o manipulado indebidamente
con una abertura previa a la inicial del recipiente por el usuario final. La brida de soporte
grabada en bajorrelieve 94 permite que la banda desprendible 14 caiga una mayor
distancia, de esta manera incrementando la distancia identificada por el espacio 98 en
comparación con un recipiente de plástico típico que incorpora una brida de soporte con
15 frente hacia afuera convencional que pueda atrapar la banda desprendible 14 en una
posición sobre la región de hombro 32.

El recipiente 10 de acuerdo con las Figuras 1-5 de la presente descripción
es un recipiente moldeado por soplado, biaxialmente orientado con una construcción
unitaria con un material de una sola o múltiples capas. Un proceso bien conocido de
20 moldeo por estirado, de fijación por calor para producir el recipiente 10, generalmente
involucra la fabricación de una preforma P_1 (Figura 4) de un material poliéster, tal como
polietilen tereftalato (PET), que tiene una forma bien conocida por aquellos con destreza
en la técnica, similar a un tubo de ensayo, con una sección transversal generalmente
cilíndrica y una longitud típicamente de cincuenta por ciento (50%) aproximado de la
25 altura del recipiente resultante.

Un método ejemplar para formar el recipiente 10 se describirá. Al inicio, la preforma P_1 puede colocarse en una cavidad de molde 102. En general, la cavidad de molde 102 tiene una superficie interior correspondiente a un perfil exterior deseado del recipiente soplado. Más específicamente, la cavidad de molde 102 de acuerdo con las presentes enseñanzas, define una región de formación de cuerpo 108, una región de formación de acabado 110 y una región de formación de rebaba 112. La estructura resultante, a continuación referida como un recipiente intermedio 120, como se ilustra en la Figura 5, generalmente incluye un cuerpo 122, un acabado 124 y una rebaba 126.

En un ejemplo, una máquina (no ilustrada) coloca la preforma P_1 calentada a una temperatura entre aproximadamente 88 grados C a 121 grados C (aproximadamente 190 grados F a 250 grados F) dentro de la cavidad del molde 102. La cavidad del molde 102 puede calentarse a una temperatura entre aproximadamente 121 grados C a 177 grados C (aproximadamente 250 grados F a 350 grados F). Un aparato de varilla de estirado (no ilustrado) estira o extiende la preforma calentada P_1 dentro de la cavidad de molde 102 a una longitud de aproximadamente la del recipiente de intermedio 120, de esta manera orientando molecularmente el material poliéster en una dirección axial que corresponde en general con el eje longitudinal central L_1 del recipiente 10. Mientras que la varilla de estirado extiende la preforma P_1 , aire que tiene una presión de 2.07 MPa a 4.14 MPa (300 PSI a 600 PSI) ayuda en extender la preforma P_1 en la dirección axial y para expandir la preforma P_1 en una dirección circunferencial o de anillo, de esta manera conformando substancialmente el material poliéster a la forma de la cavidad de molde 102 y además orientando molecularmente el material poliéster en una dirección generalmente perpendicular a la dirección axial, de esta manera estableciendo la orientación molecular biaxial del material poliéster en la mayoría del recipiente intermedio 120. El aire a presión mantiene el material poliéster primordialmente orientado

en forma molecular biaxial contra la superficie interior de la cavidad de molde 102 por un periodo aproximado de dos (2) a cinco (5) segundos antes de ser separado del recipiente intermedio 120 de la cavidad de molde 102. Este proceso se conoce como fijación por calor y resulta en un recipiente termo-resistente adecuado para llenar con un producto a
5 altas temperaturas.

En otro ejemplo, una máquina (no ilustrada) coloca la preforma P_1 calentada a una temperatura entre aproximadamente 85 grados C a 115 grados C (aproximadamente 185 grados F a 239 grados F) en la cavidad de molde 102. La cavidad de molde 102 puede enfriarse a una temperatura entre aproximadamente 0 grados C a 24
10 grados C (aproximadamente 32 grados F a 75 grados F). Un aparato de varilla de estirado (no ilustrado) estira o extiende la preforma calentada P_1 dentro de la cavidad de molde 102 a una longitud de aproximadamente la del recipiente intermedio 120, de esta manera orientando molecularmente el material poliéster en una dirección axial que en general corresponde con el eje longitudinal central L_1 del recipiente 10. Mientras que la
15 varilla de estirado extiende la preforma P_1 , el aire que tiene una presión entre 2.07 MPa a 4.14 MPa (300 PSI a 600 PSI) ayuda en extender la preforma P_1 en la dirección axial y para expandir la preforma P_1 en una dirección circunferencial o de anillo, de esta manera adaptando substancialmente el material poliéster a la forma de la cavidad de molde 102 y además orientando molecularmente el material poliéster en una dirección generalmente
20 perpendicular a la dirección axial, de esta manera estableciendo la orientación molecular biaxial del material poliéster en la mayoría del recipiente intermedio 120. El aire a presión mantiene el material poliéster primordialmente orientado en forma molecular biaxial contra la superficie interior de la cavidad de molde 102 por un periodo de aproximadamente dos (2) a cinco (5) segundos antes de retirar el recipiente intermedio 120 de la cavidad de
25 molde 102. Este proceso se utiliza para producir recipientes adecuados para llenar con

producto bajo condiciones ambiente o temperaturas frías.

En forma alterna, otros métodos de fabricación que utilizan otros materiales convencionales incluyendo por ejemplo, polietileno de alta densidad, polipropileno, polietileno naftalato (PEN), una mezcla o copolímero de PET/PEN, y diversas estructuras de múltiples capas, puede ser adecuada para la fabricación de recipiente 10. Aquellos con destreza ordinaria en la especialidad fácilmente sabrán y comprenderán alternativas a métodos de fabricación de recipientes.

Una vez que el recipiente intermedio 120 se ha formado, el recipiente intermedio 120 puede retirarse de la cavidad de molde 102. Como puede apreciarse, el recipiente intermedio 120 define el recipiente 10 (Figura 1) y la rebaba 126 antes de formación de la abertura 30 (Figura 2). Una intersección entre el acabado 124 y la rebaba 126 define un plano de corte 130 (Figura 5). La rebaba 126 subsecuentemente se corta del acabado 124 en el plano de corte 130. El proceso de corte puede ser cualquier procedimiento de corte conveniente que retira la rebaba 126 y crea la abertura 30.

La Figura 6 muestra un recipiente de plástico de una pieza, por ejemplo polietileno tereftalato (PET), de llenado en caliente 210, de acuerdo con características adicionales. Mientras que no se muestra específicamente, el recipiente 210 puede cooperar con una tapa que tiene una banda desprendible tal como la tapa 12 ilustrada en la Figura 1. Como se muestra en la Figura 6, el recipiente ejemplar 210 define un eje longitudinal L_4 y tiene una altura total H_2 de aproximadamente 158.40 mm (6.24 in). El recipiente 210 puede ser de sección transversal substancialmente cilíndrica. En esta modalidad particular, el recipiente 210 tiene una capacidad en volumen de aproximadamente 678 cc (22.9 fl.oz.). Aquellos con destreza ordinaria en la técnica apreciarán que las siguientes enseñanzas son aplicables a otros recipientes, tales como recipientes de forma rectangular, triangular, hexagonal, octagonal o cuadrada, que

pueden tener diferentes dimensiones y capacidades en volumen. También se contempla que otras modificaciones puedan realizarse dependiendo de la aplicación específica y requerimientos ambientales.

El recipiente 210 de acuerdo con las presentes enseñanzas define un
5 cuerpo 220 e incluye una porción superior 222 que tiene un acabado 224. El acabado 224 define una abertura 230 en el recipiente 210. Integralmente formada con el acabado 224 que se extiende hacia abajo de ahí, está una región de hombro 232. La región de hombro 232 se funde en y proporciona una transición entre el acabado 224 y una porción de pared lateral 236. La porción de pared lateral 236 se extiende hacia abajo de la región
10 de hombro 232 a una porción base 240 que tiene una base 242. Una porción amortiguadora inferior 245 puede definirse en una transición entre la porción base 240 y la porción de pared lateral 236. Un cuello 246 que define una pared lateral cilíndrica 247, se forma integralmente con el acabado 224 y se extiende entre el acabado 224 y la región de hombro 232. En un ejemplo, la pared lateral cilíndrica 247 puede definir un radio uniforme
15 sobre toda su altura. Como se describirá con mayor detalle a continuación, el recipiente 210 también define una brida de soporte grabada en bajorrelieve 294.

El recipiente 210 se ha diseñado para retener un artículo de consumo. El artículo de consumo puede estar en cualquier forma tal como un producto sólido o líquido. En un ejemplo, un artículo de consumo líquido puede introducirse en el recipiente 210
20 durante un procesador térmico bajo temperaturas ambiente como se discutió anteriormente con respecto al recipiente 10.

La Figura 7 ilustra una preforma P_2 empleada para moldear por soplado el recipiente 210. Como se describirá, durante moldeo por soplado del recipiente 210, el cuello 246 y todas las características sobre el cuello 246 incluyendo la brida de soporte
25 grabada en bajorrelieve 294 y el acabado 224, permanecen substancialmente en su

estado moldeado por inyección mientras que el cuerpo de recipiente 220 se forma por debajo del cuello 246. Para propósitos de referencia, el cuello 246, la brida de soporte grabada en bajorrelieve 294, y el acabado 224 del recipiente 210 se identifican con números de referencia semejantes en la preforma P_2 . La preforma P_2 también define una
 5 región formadora de hombro 248, una región formadora de pared lateral 249, y una región formadora de base 250.

Con referencia a las Figuras 6 y 7, el acabado 224 generalmente incluye una pared lateral radial 251 que define una región roscada 252 que tiene roscas 253, y una banda evidente de manipulación indebida (TE) 254. En el acabado ejemplar 224,
 10 cuatro (4) roscas 253 se incluyen, sin embargo se contemplan más o menos roscas 253. La banda TE 254 generalmente es perpendicular al eje longitudinal L_4 del recipiente 210. La banda TE 254 se forma continuamente alrededor del acabado 224.

Ahora se describirá la brida de soporte grabada en bajorrelieve 294. La brida de soporte grabada en bajorrelieve 294 se define por un anillo anular 295 que tiene
 15 una pared que se extiende hacia adentro 296. La brida de soporte grabada en bajorrelieve 294 puede proporcionar un medio para sostener y/o sujetar la preforma P_2 a través del proceso de fabricación así como el recipiente resultante 210. La brida de soporte grabada en bajorrelieve 294 proporciona una reducción en peso significativa de aproximadamente
 5-10% o más sobre una preforma moldeada por inyección típica o recipiente plástico
 20 soplado que incorpora una brida de soporte con frente hacia afuera. Debido a que el recipiente 210 incluye la brida de soporte grabada en bajorrelieve 294, la banda TE 254 define una superficie más externa del recipiente 210 sobre la región de hombro 232.

Con referencia a la Figura 7, dimensiones ejemplares para el acabado 224 ahora se describirán. Se aprecia que pueden emplearse otras dimensiones. Un diámetro
 25 D_5 se define por una superficie más externa 279 de la banda TE 254. Un diámetro D_6 se

define por la brida de soporte grabada en bajorrelieve 294 en el anillo anular 295. Un diámetro D_7 se define por la pared lateral cilíndrica 247 del cuello 246. Un diámetro D_8 se define por la pared lateral radial 251 del acabado 224. Un diámetro D_9 se define por la porción que forma la pared lateral 249 de la preforma P_2 .

5 De acuerdo con un ejemplo, el diámetro D_5 puede ser de 43.40 mm (1.75 in). El diámetro D_6 puede ser 40.80 mm (1.61 in). El diámetro D_7 puede ser 37.80 mm (1.49 in). El diámetro D_8 puede ser 39.30 mm (1.55 in). El diámetro D_9 puede ser 27.0 mm (1.07 in). Una proporción del diámetro D_5 respecto al diámetro D_6 puede estar en el intervalo entre aproximadamente 1.5 y de preferencia ser de aproximadamente 1.1. Una
10 proporción del diámetro D_6 respecto al diámetro D_9 puede estar en el intervalo entre aproximadamente 2.0 y de preferencia ser de aproximadamente 1.5. Una proporción del diámetro D_5 respecto al diámetro D_7 puede estar en el intervalo entre aproximadamente 1.3 y de preferencia ser de aproximadamente 1.1.

Pasando ahora a la Figura 8, se describirá un método ejemplar para
15 formar el recipiente 210. Al inicio, la preforma P_2 puede colocarse en una cavidad de molde 302. En general, la cavidad de molde 302 tiene una superficie interior correspondiente a un perfil exterior deseado del recipiente soplado. Más específicamente, la cavidad de molde 302 de acuerdo con las presentes enseñanzas define una región que forma hombro 304, una región que forma pared lateral 306, y una región que forma base
20 308.

La preforma P_2 puede calentarse a una temperatura entre aproximadamente 88°C a 121°C (aproximadamente 190°F a 250°F) y se coloca en la cavidad del molde 302. La cavidad del molde 302 puede calentarse a una temperatura entre aproximadamente 121°C a 177°C (aproximadamente 250°F a 350°F). Un aparato de
25 varilla de estirado (no ilustrado) se estira o extiende la preforma calentada P_2 dentro de la

cavidad de molde 302 a una longitud aproximadamente la del recipiente resultante 210, de esta manera orientando molecularmente el material poliéster en una dirección axial que generalmente corresponde al eje longitudinal central L_4 del recipiente 210. Mientras que la varilla de estirado extiende la preforma P_2 , aire que tiene una presión entre 2.07 MPa a 4.14 MPa (300 PSI a 600 PSI) ayuda en extender la preforma P_2 en la dirección axial y para expansión de la preforma P_2 en una dirección circunferencial o de anillo, de esta manera adaptando sustancialmente el material poliéster a la forma de la cavidad de molde 302 y además orientando molecularmente el material poliéster en una dirección generalmente perpendicular a la dirección axial, de esta manera estableciendo la orientación molecular biaxial del material poliéster en el recipiente resultante 210. El aire a presión sostiene el material poliéster orientado molecularmente en forma primordial biaxial contra la superficie interior de la cavidad del molde 302 por un periodo de aproximadamente dos (2) a cinco (5) segundos antes de separar el recipiente 210 de la cavidad de molde 302. Otros métodos de moldeo por soplado de la preforma P_2 dentro de la cavidad de molde 302 pueden emplearse.

Mientras que la descripción anterior constituye la presente descripción, se apreciará que la descripción es susceptible a modificación, variación y cambio sin apartarse del adecuado alcance y justo significado de las reivindicaciones acompañantes.

REIVINDICACIONES

1. Un recipiente de plástico, caracterizado porque comprende: una porción superior que incluye un acabado que define un eje longitudinal y una abertura dentro del recipiente; una región de hombro formada integralmente con y que se extiende desde la porción superior; una porción de pared lateral que se extiende desde la región de hombro a una porción base, la porción base cierra un extremo del recipiente de plástico; una banda evidente de manipulación indebida (TE) formada en el acabado y que define una superficie más externa del recipiente de plástico sobre la región de hombro; y un cuello que define una pared lateral cilíndrica formado integralmente con y que se extiende entre el acabado y la región de hombro.

2. El recipiente de plástico de conformidad con la reivindicación 1, caracterizado porque el cuello define una pared lateral cilíndrica uniforme sobre toda su altura entre el acabado y la región de hombro.

3. El recipiente de plástico de conformidad con la reivindicación 2, caracterizado porque la banda TE define un primer diámetro en la superficie más externa, y además comprende una brida de soporte grabada en bajorrelieve definida en la porción superior, la brida de soporte grabada en bajorrelieve define un segundo diámetro, en donde el primer diámetro es mayor que el segundo diámetro.

4. El recipiente de plástico de conformidad con la reivindicación 1, caracterizado porque además comprende al menos una rosca formada en el acabado.

5. El recipiente de plástico de conformidad con la reivindicación 4, caracterizado porque la banda TE define al menos dos proyecciones radiales desconectadas y un espacio entre cada una de las proyecciones radiales desconectadas respectivas.

6. El recipiente de plástico de conformidad con la reivindicación 5,

caracterizado porque cada rosca de la rosca como mínimo define una porción de inicio de rosca y una porción de fin de rosca.

7. El recipiente de plástico de conformidad con la reivindicación 6, caracterizado porque una línea paralela al eje longitudinal se extiende a través de la porción de fin de rosca y el espacio.

8. El recipiente de plástico de conformidad con la reivindicación 6, caracterizado porque una línea paralela al eje longitudinal pasa a través de un extremo terminal de la porción de fin de rosca y el espacio.

9. El recipiente de plástico de conformidad con la reivindicación 6, caracterizado porque la rosca como mínimo define una primera rosca y una segunda rosca, en donde la primera rosca define una primera profundidad en la porción de inicio de rosca y la segunda rosca define una segunda profundidad en la porción de fin de rosca, en donde la porción de inicio de rosca y la porción de fin de rosca se alinean longitudinalmente alrededor del acabado y la primera profundidad es menor que la segunda profundidad.

10. El recipiente de plástico de conformidad con la reivindicación 9, caracterizado porque la primera profundidad es aproximadamente 5-50% menos que la segunda profundidad.

11. El recipiente de plástico de conformidad con la reivindicación 1, caracterizado porque el acabado es un acabado soplado de polietileno tereftalato (PET).

12. Un método para formar un recipiente de plástico moldeado por soplado, caracterizado porque comprende: colocar una preforma en una cavidad de molde que tiene una superficie de molde que define una región de formación de cuerpo y una región de formación de acabado; y soplar la preforma contra la superficie de molde para formar un cuerpo que define una porción superior que incluye un acabado que define un eje

longitudinal y una abertura dentro del recipiente de plástico, una región de hombro formada integralmente con y que se extiende desde la porción superior, una porción de pared lateral que se extiende desde la región de hombro a una porción base, la porción base cierra un extremo del recipiente de plástico y una banda evidente de manipulación
5 indebida (TE) formada en el acabado y que define una superficie más externa del recipiente de plástico sobre la región de hombro.

13. El método para formar un recipiente de plástico moldeado por soplado de conformidad con la reivindicación 12, caracterizado porque soplar la preforma incluye soplar un cuello en donde el cuello define una pared lateral cilíndrica formada
10 integralmente con y que se extiende entre el acabado y la región de hombro.

14. Una preforma adaptada para moldearse en un recipiente de plástico, la preforma se caracteriza porque comprende: una porción superior que incluye un acabado que define un eje longitudinal y una abertura dentro del recipiente de plástico; un cuello que define una pared lateral cilíndrica formada integralmente con y que se extiende entre
15 el acabado y una porción de formación de hombro de la preforma; y una banda evidente de manipulación indebida (TE) formada en el acabado y que define una superficie más externa de la preforma.

15. La preforma de conformidad con la reivindicación 14, caracterizada porque la banda TE define un primer diámetro en la superficie más externa, y además
20 comprende una brida de soporte grabada en bajorrelieve definida en la porción superior, la brida de soporte grabada en bajorrelieve define un segundo diámetro, en donde el primer diámetro es mayor que el segundo diámetro.

16. La preforma de conformidad con la reivindicación 15, caracterizada porque además comprende una porción de formación de pared lateral definida en la
25 preforma, la porción de formación de pared lateral define un tercer diámetro, en donde

una proporción del segundo diámetro respecto al tercer diámetro es de aproximadamente 1.5.

5 17. La preforma de conformidad con la reivindicación 16, caracterizada porque la proporción del segundo diámetro respecto al tercer diámetro es menos que aproximadamente 1.5.

18. La preforma de conformidad con la reivindicación 16, caracterizada porque el cuello define un cuarto diámetro, y además comprende al menos una rosca que se extiende hacia afuera de una pared lateral radial del acabado, la pared lateral radial define un quinto diámetro, en donde el quinto diámetro es mayor que el tercer diámetro.

10 19. La preforma de conformidad con la reivindicación 18, caracterizada porque una proporción del quinto diámetro respecto al cuarto diámetro es mayor que aproximadamente 1 y menor que aproximadamente 1.5.

15 20. La preforma de conformidad con la reivindicación 19, caracterizada porque la proporción del quinto diámetro respecto al cuarto diámetro es en forma sustancial de aproximadamente 1.0.

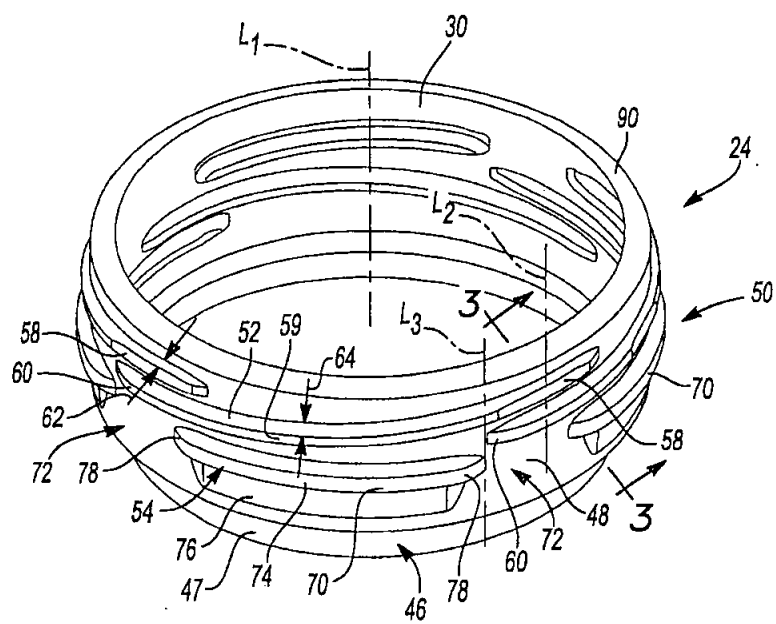


Fig. 2

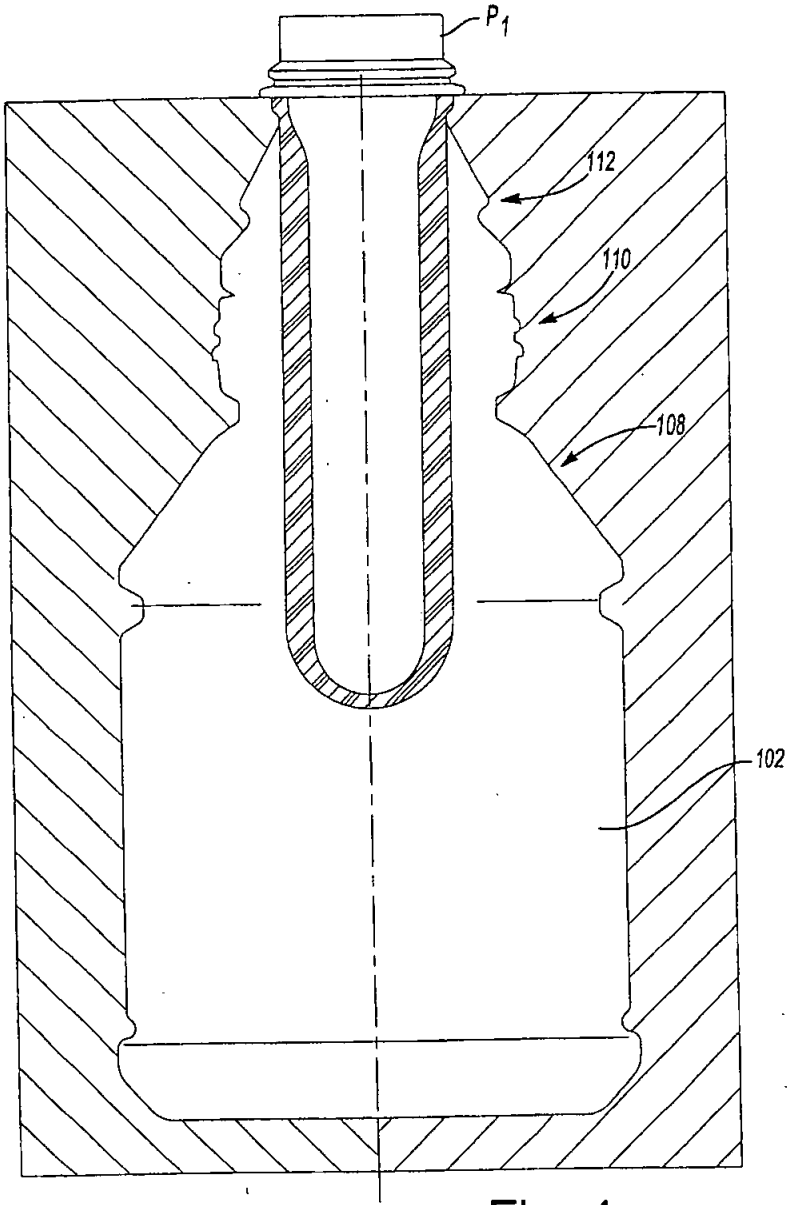


Fig. 4

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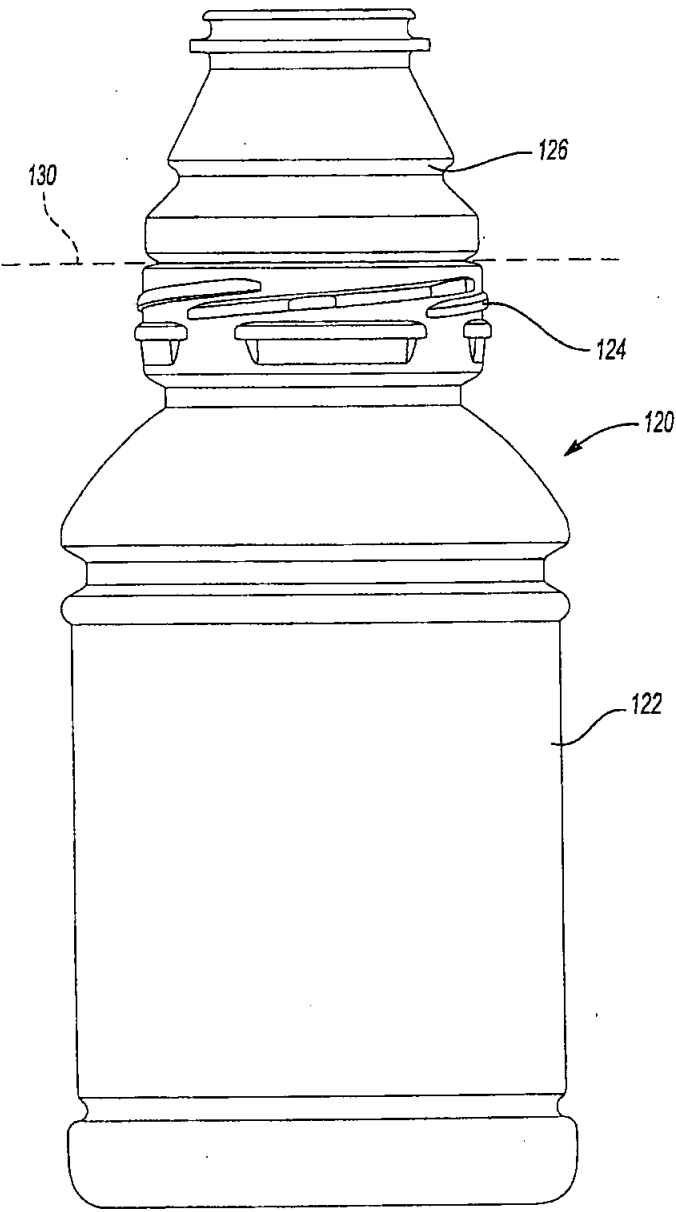


Fig. 5

5



32

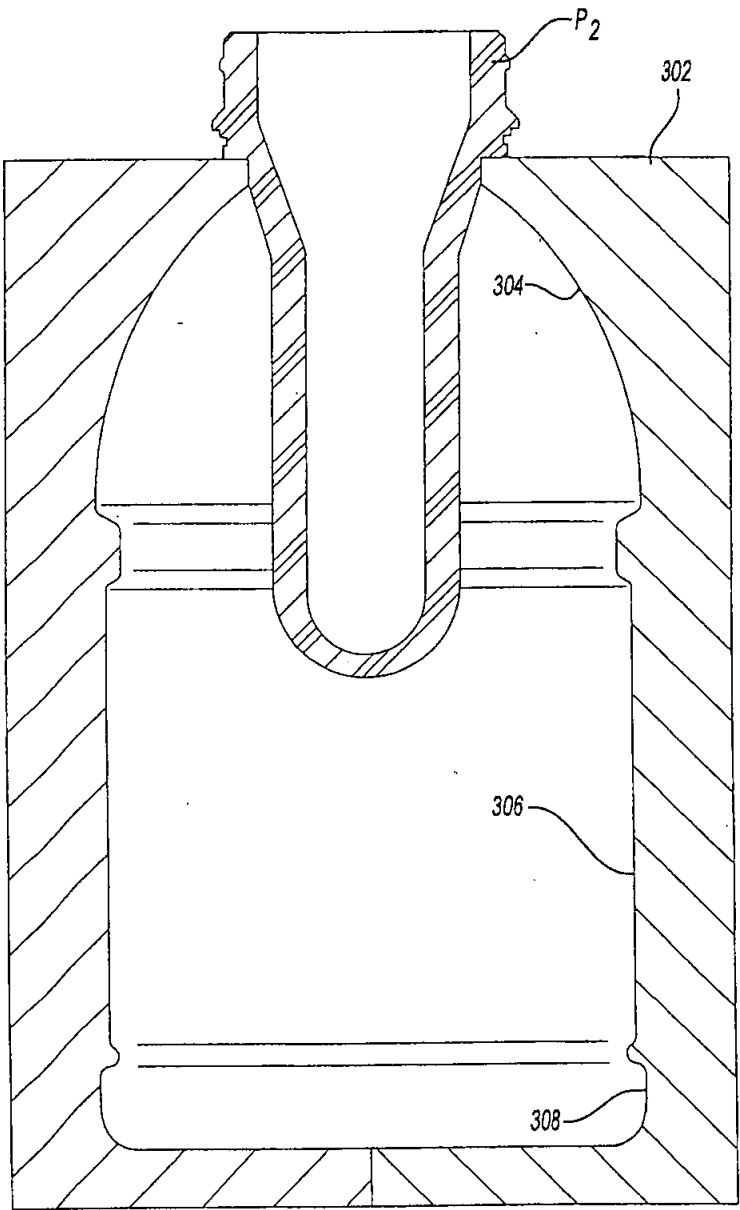


Fig. 8

PCT REQUEST

Original (for SUBMISSION)

0	For receiving Office use only	PCT/US09/32235
0-1	International Application No.	
0-2	International Filing Date	28-01-2009 28 JAN 2009
0-3	Name of receiving Office and "PCT International Application"	PCT INTERNATIONAL APPLICATION RO/US
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT-SAFE [EASY mode] Version 3.51.036.211 MT/FOP 20090101/0.20.5.15
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
0-7	Applicant's or agent's file reference	8330-308/POA
I	Title of Invention	PREFORM AND CONTAINER HAVING DEBOSSED SUPPORT FLANGE
II	Applicant	
II-1	This person is	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	AMCOR LIMITED
II-5	Address	679 Victoria Street Abbotsford, Victoria 3067 Australia
II-6	State of nationality	AU
II-7	State of residence	AU
III-1	Applicant and/or inventor	
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III-1-7	State of residence	US

PCT REQUEST

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IV-1-1	Name (LAST, First)	ERJAVAC, Stanley M.
IV-1-2	Address	HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 United States of America
IV-1-3	Telephone No.	248-641-1600
IV-1-4	Facsimile No.	248-641-0270
IV-1-5	e-mail	docketing@hdp.com
IV-1-5(a))	E-mail authorization The receiving Office, the International Searching Authority, the International Bureau and the International Preliminary Examining Authority are authorized to use this e-mail address to send, if the Office or Authority so wishes, advance copies of notifications in respect of this international application.	Yes
IV-1-6	Agent's registration No.	38442
IV-2	Additional agent(s)	additional agent(s) with same address as first named agent
IV-2-1	Name(s)	ALBERDI, Fernando (62,688); AQUINO, Damian M. (54964); BREINER, David M. (61336); BRENNAN, Michael P. (30612); BROCK, Christopher M. (27313); BUDDE, Anna M. (35085); CASTELLANO, John A., III (35094); CHANG, Alex C. ((52716)); CHAPP, Jeffrey J. (50579); CHO, David J. (48078); CLARK, Terry L. (32644); COMNINOU, Maria (44626); CUTLER, Matthew L. (43574); DALEY, Donald J. (34313); DAWSON, John (39504); DOBROWITSKY, Joshua B. (51288); DOERR, Michael P. (52825); DONLEY, Garrett C. (34579); ELCHERT, Scott A. (55149); ELCHUK, Mark D. (33686); EUSEBI, Christopher A. (44672); FALCOFF, Monte L. (37617); FITZPATRICK, John W. (41018); FORBES, James C. (39457); FOSS, Stephen J. (31251); FRENTRUP, Mark A. (41026); FULLER, Roland A., III (31160); FUSSNER, Anthony G. (47582); GALVIN, Lawrence F. (44694);

PCT REQUEST

Original (for SUBMISSION)

HALLIN, Thomas A. (32468); HARRIS, Gordon K., Jr. (28615); HEIST, Jason (51797); HILTON, Michael E. (33509); HOFFMAN, Erin G. (57752); HOLLIS, Brian D. (51075); JACOBSON, Nels D. (41871); JONES, Stephanie D. (62038); KASNEVICH, Andrew D. (59436); KEANE, J. Timothy (27808); KELLER, Paul A. (29752); KESKAR, Hemant M. (61776); KRUL, Thomas J. (46842); LAFATA, Joseph M. (37166); LARSON, Paul A. (53184); MACINTYRE, Timothy D. (42824); MALINZAK, Michael (43770); MASSEY, Ryan W. (38543); MCCLAUGHRY, David A. (37885); MEYER, Greg (59915); MIERZWA, Kevin (38049); MILLER, H. Keith (22484); MOUSTAKAS, George D. (44425); NYE, Michael (62126); ODELL, Elizabeth D. (39532); OLSON, Stephen T. (36626); PANKA, Brian G. (53430); PATEL, Neel K. (59452); PLENZLER, Jeremy M. (56432); PUMM, Kevin (49046); PURCELL, Justin H. (53493); RAYMOND, Donald D. (61666); RETTIG, Philip E. (34000); SANDERS, Justin Baker (60936); SCHAEFER, Erica K. (55861); SCHALDENBRAND, Michael A. (47923); SCHIVLEY, G. Gregory (27382); SCHMIDT, Bradford P. (42128); SCHMIDT, Michael J. (34007); SCHOOFF, George T. (44323); SCHULTZ, Dale H. (36267); SEITZ, Brent G. (54435); SIMINSKI, Robert M. (36007); SMITH, Michael L. (35685); SNYDER, Jeffrey L. (43141); STEIN, Julie E. (43158); STOBBS, Gregory A. (28764); SUTER, David L. (30692); SZALACH, Matthew H. (53665); TAYLOR, Michael L. (50521); TAYLOR, W.R. Duke (31306); TELSCHER, Rudolph A., Jr. (36032); THOMAS, Michael J. (39857); URIAN, Jeffrey H. (46232); UTYKANSKI, David P. (39052); VESBIT, Thomas E. (50562); WADE, Bryant E. (40344); WALKER, Donald G. (44390); WALSH, Joseph E., Jr. (36959); WANGEROW, Steven (61070); WARNER, Richard W. (38043); WAXMAN, Andrew M. (56007); WENG, Li Hua (L0202); WHEELLOCK, Bryan K. (31441); WIGGINS, Michael D. (34754);

PCT REQUEST

Original (for SUBMISSION)

		WILSON, Crystal D. (61730); WOODSIDE- WOJTALA, Jennifer M. (50721); YACURA, Gary D. (35416); ZALOBsky, Michael D. (45512); ZIEHLER, William A. (61415)
V	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
V-3	Identification of parent application or patent grant	
V-3-1	Designation	US
V-3-1-1	Kind of parent application or grant	continuation
V-3-1-2	Parent application or grant No.	12/011,975
V-3-1-3	Parent application or grant date	30 January 2008 (30.01.2008)
VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	30 January 2008 (30.01.2008)
VI-1-2	Number	12/011,975
VI-1-3	Country	US
VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1
VI-3	Incorporation by reference : where an element of the international application referred to in Article 11(1)(iii)(d) or (e) or a part of the description, claims or drawings referred to in Rule 20.5(a) is not otherwise contained in this international application but is completely contained in an earlier application whose priority is claimed on the date on which one or more elements referred to in Article 11(1)(iii) were first received by the receiving Office, that element or part is, subject to confirmation under Rule 20.6, incorporated by reference in this international application for the purposes of Rule 20.6.	
VII-1	International Searching Authority Chosen	Korean Intellectual Property Office (ISA/KR)

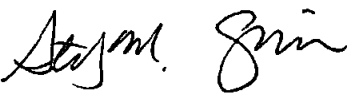
PCT REQUEST

Original (for SUBMISSION)

VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	—	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	1	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	1	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	—	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	—	

PCT REQUEST

Original (for SUBMISSION)

IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	8	✓
IX-2	Description	14	-
IX-3	Claims	4	-
IX-4	Abstract	1	✓
IX-5	Drawings	8	-
IX-7	TOTAL	35	
	Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-18	PCT-SAFE physical media	-	✓
IX-20	Figure of the drawings which should accompany the abstract		
IX-21	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative		
X-1-1	Name (LAST, First)	ERJAVAC, Stanley M.	
X-1-2	Name of signatory		
X-1-3	Capacity		

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	28-01-2009	28 JAN 2009
10-2	Drawings:		
10-2-1	Received		
10-2-2	Not received		
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application		
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)		
10-5	International Searching Authority	ISA/KR	
10-6	Transmittal of search copy delayed until search fee is paid		

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 August 2009 (13.08.2009)

PCT

(10) International Publication Number
WO 2009/099832 A2

- (51) International Patent Classification:
B65D 1/02 (2006.01) B29C 49/02 (2006.01)
B65D 1/40 (2006.01) B65D 41/34 (2006.01)
- (21) International Application Number:
PCT/US2009/032235
- (22) International Filing Date:
28 January 2009 (28.01.2009)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
12/011,975 30 January 2008 (30.01.2008) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 12/011,975 (CON)
Filed on 30 January 2008 (30.01.2008)
- (71) Applicant (for all designated States except US): AM-COR LIMITED [AU/AU]; 679 Victoria Street, Abbotsford, Victoria 3067 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): PENNY, Michael E. [US/US]; 100 E. Henry, Saline, Michigan 48176 (US).
- (74) Agents: ERJAVAC, Stanley M. et al.; Harness, Dickey & Pierce, P.L.C., P.O. Box 828, Bloomfield Hills, Michigan 48303 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: PREFORM AND CONTAINER HAVING DEBOSSSED SUPPORT FLANGE

(57) Abstract: The present disclosure provides a container and a method of making a container. In one example, the container includes an upper portion having a finish defining a longitudinal axis and an opening into the container. A shoulder region is integrally formed with and extends from the upper portion. A sidewall portion extends from the shoulder region to a base portion. A tamper evident (TE) band is formed on the finish and defines an outermost surface of the plastic container above the shoulder region. A neck defining a cylindrical sidewall is integrally formed with and extends between the finish and the shoulder region. The neck defines a uniform cylindrical sidewall along its entire height between the finish and the shoulder region. The container further includes a debossed support flange defined on the upper portion. The debossed support flange defines a diameter less than a diameter defined by the TE band.

WO 2009/099832 A2

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 August 2009 (13.08.2009)

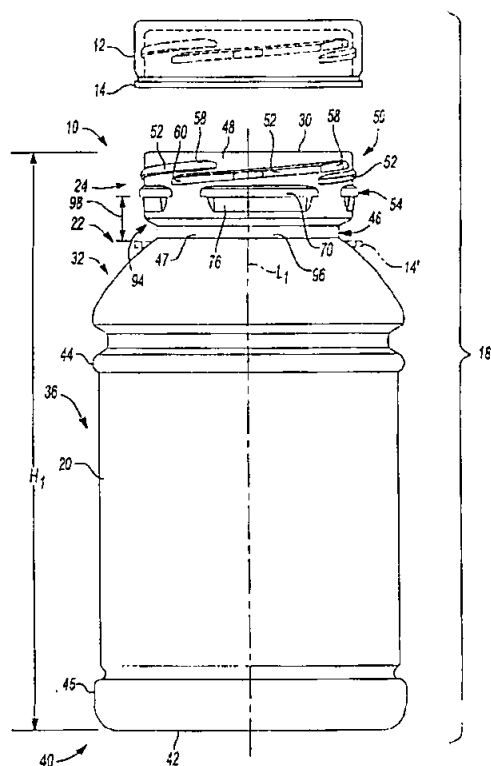
(10) International Publication Number
WO 2009/099832 A3

PCT

- (51) International Patent Classification:
B65D 1/02 (2006.01) *B29C 49/02* (2006.01)
B65D 1/40 (2006.01) *B65D 41/34* (2006.01)
- (21) International Application Number:
PCT/US2009/032235
- (22) International Filing Date:
28 January 2009 (28.01.2009)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
12/011,975 30 January 2008 (30.01.2008) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 12/011,975 (CON)
Filed on 30 January 2008 (30.01.2008)
- (71) Applicant (for all designated States except US): **AMCOR LIMITED** [AU/AU]; 679 Victoria Street, Abbotsford, Victoria 3067 (AU).
- (72) Inventor; and
(75) Inventor/Applicant (for US only): **PENNY, Michael E.** [US/US]; 100 E. Henry, Saline, Michigan 48176 (US).
- (74) Agents: **ERJAVAC, Stanley M.** et al.; Harness, Dickey & Pierce, P.L.C., P.O. Box 828, Bloomfield Hills, Michigan 48303 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,

[Continued on next page]

(54) Title: PREFORM AND CONTAINER HAVING DEBOSSSED SUPPORT FLANGE



(57) Abstract: The present disclosure provides a container and a method of making a container. In one example, the container includes an upper portion having a finish defining a longitudinal axis and an opening into the container. A shoulder region is integrally formed with and extends from the upper portion. A sidewall portion extends from the shoulder region to a base portion. A tamper evident (TE) band is formed on the finish and defines an outermost surface of the plastic container above the shoulder region. A neck defining a cylindrical sidewall is integrally formed with and extends between the finish and the shoulder region. The neck defines a uniform cylindrical sidewall along its entire height between the finish and the shoulder region. The container further includes a debossed support flange defined on the upper portion. The debossed support flange defines a diameter less than a diameter defined by the TE band.

Fig-1

WO 2009/099832 A3

TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

(88) Date of publication of the international search report:
15 October 2009

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/032235**A. CLASSIFICATION OF SUBJECT MATTER***B65D 1/02(2006.01)i, B65D 1/40(2006.01)i, B29C 49/02(2006.01)i, B65D 41/34(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: B65D 1/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models since 1975

Japanese utility models and applications for utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS (KIPO internal) & keywords: bottle, container, plastic, PET, shoulder, sidewall, tamper-evident, neck

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4566600 A (CHANG) 28 January 1986 See column 3, line 33 - column 4, line 31.	1, 2, 4 -11
X	US 2007/0210026 A1 (DARR et al.) 13 September 2007 See paragraph 13 - paragraph 25.	12-14
Y		1, 2, 4-11
A	US 4895265 A (LUCH et al.) 23 January 1990 See column 3, line 10 - column 4, line 60.	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

27 AUGUST 2009 (27.08.2009)

Date of mailing of the international search report

27 AUGUST 2009 (27.08.2009)

Name and mailing address of the ISA/KR

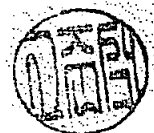
Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KO, Jun Seok

Telephone No. 82-42-481-5419



INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/US2009/032235

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 04566600 A	28.01.1986	US 04566600 A	28.01.1986
US 2007-0210026 A1	13.09.2007	AU 2007-222101 A1	13.09.2007
		AU 2007-222101 A1	25.01.2007
		CA 2644081 A1	13.09.2007
		EP 1993917 A2	26.11.2008
		US 2007-0205175 A1	06.09.2007
		WO 2007-102950 A2	13.09.2007
		WO 2007-102950 A3	13.09.2007
		WO 2008-144417 A1	27.11.2008
US 04895265 A	23.01.1990	US 04895265 A	23.01.1990

Slomzenski, Sandra

To: DocketingPT
Cc: Garbarino, Sheryl; McGaw, Sue
Subject: FW: PCT/US2009/062301 - Online Document Upload Confirmation - Ref. 8330-247-POE

Request for Recording a Change-92bis - Address of Applicant Amcor Limited, filed July 19, 2010.

Please note, one document was filed for multiple international applications as follows:

8330:
8347/POE
8300/POA
8302/POA
8303/POA
8308/POA ✓
8311/POA
8312/POB
8313/POA
8314/POA
8317/POA
8320/POA
8321/POA
8322/POA

Thank you!

Sandy SlomZenski
PCT Specialist - International Dept.
Harness, Dickey and Pierce, P.L.C.
Direct: 248.341.1315
SSlomzenski@hdp.com

-----Original Message-----

From: no.reply@wipo.int [mailto:no.reply@wipo.int]
Sent: Monday, July 19, 2010 1:28 PM
To: Slomzenski, Sandra
Subject: PCT/US2009/062301 - Online Document Upload Confirmation - Ref. 8330-247-POE

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This is an automatically generated confirmation for the online document upload that was operated successfully on 19/07/2010 19:27:59 CET (format of date and time is 'dd/MM/yyyy hh:mm:ss').

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Rule 92bis Changes (for multiple IAs), C:\Temp\Amcors_92bis_Address_Change.PDF (81 KB)

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Slomzenski, Sandra

From: no.reply@wipo.int
Sent: Monday, July 19, 2010 1:28 PM
To: Slomzenski, Sandra
Subject: PCT/US2009/062301 - Online Document Upload Confirmation - Ref. 8330-247-POE

Dear User,

This is an automatically generated confirmation for the online document upload that was operated successfully on 19/07/2010 19:27:59 CET (format of date and time is 'dd/MM/yyyy hh:mm:ss').

WO20100719000010 is the transaction number allotted by the system for tracking the following uploaded document(s):

Document Type,File Name,File Size
Rule 92bis Changes (for multiple IAs), C:\Temp\Amcors_92bis_Address_Change.PDF (81 KB)

THIS IS AN AUTOMATED E-MAIL - PLEASE DO NOT REPLY AS WE WILL BE UNABLE TO RESPOND.

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System Operator

48

Upload Transaction history

Amcor Limited - 8330 Address Change on Multiple Files

Transaction Number	Date/Time	E-mail	IA Number	Document Type	File Name
WO20100719000010	2010/07/19 00:00:10	sslomzenski@hdp.com	PCT/US09/62301	Rule 92bis Changes (for multiple IAs)	C:\Temp\Amcor_92bis_Ad

[Print this page](#)

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**IN THE INTERNATIONAL BUREAU OF
THE WORLD INTELLECTUAL PROPERTY OFFICE**

To: International Bureau of WIPO
PCT Processing Section
34, Chemin des Colombettes
P.O. Box 18
1211 Geneva 20
Switzerland

92*bis*** REQUEST
(ADDRESS OF APPLICANT, AMCOR LIMITED)**

RE: International Application No.: **PCT/US2009/062301**
International Filing Date: 28 October 2009
For: Container Base Structure Responsive To
Vacuum Related Forces
Attorney Docket No.: 8330-247/POE

International Application No.: **PCT/US2009/000756**
International Filing Date: 07 February 2009
For: Flex Ring Base
Attorney Docket No.: 8330-300/POA

International Application No.: **PCT/US2009/032347**
International Filing Date: 29 January 2009
For: Hybrid Base Design
Attorney Docket No.: 8330-302/POA

International Application No.: **PCT/US2009/048431**
International Filing Date: 24 June 2009
For: Single Serve Container
Attorney Docket No.: 8330-303/POA

International Application No.: **PCT/US2009/032235**
International Filing Date: 28 January 2009
For: Preform And Container Having Debossed
Support Flange
Attorney Docket No.: 8330-308/POA

International Application No.: **PCT/US2009/067675**
International Filing Date: 11 December 2009
For: Hot-Fill Container
Attorney Docket No.: 8330-311/POA

International Application No.: **PCT/US2009/048127**
International Filing Date: 22 June 2009
For: Plastic Container Having Vacuum Panels
Attorney Docket No.: 8330-312/POB

80

International Application No.: **PCT/US2009/043714**

International Filing Date: 13 May 2009

For: Hot-Fill Container

Attorney Docket No.: 8330-313/POA

International Application No.: **PCT/US2009/050092**

International Filing Date: 09 July 2009

For: Thin Walled Hot-Filled Container

Attorney Docket No.: 8330-314/POA

International Application No.: **PCT/US2009/068929**

International Filing Date: 21 December 2009

For: Container

Attorney Docket No.: 8330-317/POA

International Application No.: **PCT/US2010/024582**

International Filing Date: 18 February 2010

For: Hot-Fill Container

Attorney Docket No.: 8330-320/POA

International Application No.: **PCT/US2010/024573**

International Filing Date: 18 February 2010

For: Hot-Fill Container

Attorney Docket No.: 8330-321/POA

International Application No.: **PCT/US2010/024588**

International Filing Date: 18 February 2010

For: Hot-Fill Container

Attorney Docket No.: 8330-322/POA

**REQUEST FOR RECORDING OF A CHANGE PURSUANT TO 92bis
IN THE ADDRESS OF APPLICANT, AMCOR LIMITED**

Sir or Madam:

Applicant respectfully requests the recording of a change pursuant to Rule 92bis, regarding the address of Applicant, AMCOR LIMITED in the above listed International PCT Applications. The current address of Applicant is as follows:

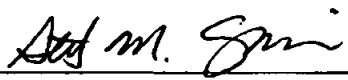
**AMCOR LIMITED
109 Burwood Road
Hawthorn, Victoria 3122
AUSTRALIA**

51

Should there be any questions regarding this submission, or if the Authorized Officer feels that direct communication would expedite this matter, he or she is invited to contact the undersigned at (248) 641-1600. Thank you for your prompt attention in this matter.

Respectfully submitted,

Dated: 19 July 2010

By: 
Stanley M. Erjavac
Registration No. 38442

Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
Bloomfield Hills, MI 48303
(248) 641-1600

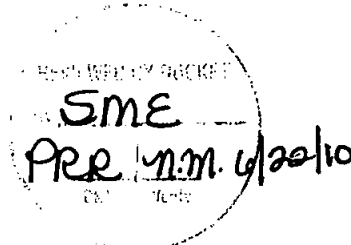
52



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ERJAVAC, Stanley M. et al.
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ETATS-UNIS D'AMERIQUE



For any questions about
this communication:
Tel.: +31 (0)70 340 45 00

Date
Application No. 8330-000308/w01P8A

Reference	Application No./Patent No. 09708363.8 - 1261 PCT/US2009032235
Applicant/Proprietor Amcor Limited	

Entry into the European phase before the European Patent Office

The following information describes the procedural steps required for entry into the European phase before the European Patent Office (EPO). You are advised to read it carefully because failure to take the necessary action in due time can lead to a loss of rights.

1. The above mentioned international patent application has been given the **European application No. 09708363.8**.
2. Applicants **without a residence or their principal place of business** in an EPC Contracting State may themselves initiate European processing of their international applications, provided they do so before expiry of the 31st month from the priority date.

During the European phase before the EPO as designated or elected Office, however, such applicants **must** be represented by a professional representative (Art. 133(2) and Art. 134(1) and (8) EPC).

Where, at the expiry of the time period laid down in Rule 163(5) EPC, the requirements of Article 133(2) EPC have not been complied with, the European patent application will be **refused**, pursuant to Rule 163(6) EPC.

Please note that a professional representative authorised to act before the EPO and who acted for the applicant during the international phase does not automatically become the representative for the European phase. Applicants are therefore strongly advised to appoint in good time any representative they wish to initiate the European phase for them; otherwise the EPO has to send all communications directly to the applicant.

3. Applicants **with a residence or their principal place of business** in an EPC Contracting State are not obliged to appoint for the European phase a professional representative authorised to act before the EPO. However, in view of the complexity of the procedure it is recommended that they do so.
4. Applicants and professional representatives are also strongly advised to initiate the European phase using **EPO Form 1200**. It is available free of charge from the EPO or via the EPO website at <http://www.epo.org>. Similarly, it can be generated with the **epoline®** Online Filing Software, obtainable free of charge from the EPO (<http://www.epoline.org>) The use of the form is not compulsory.

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7. If the applicant had appointed a representative during the application's international phase, the present Form will be sent to the representative, asking him to inform the applicant accordingly.

All subsequent communications will be sent to the applicant, or - if the EPO is informed of his appointment in time - to the applicant's European representative.

8. For more details about time limits and procedural acts before the EPO as designated or elected Office, see the EPO brochure "How to get a European patent", Guide for applicants - Part 2, PCT procedure before the EPO - "Euro-PCT".

This brochure, the list of professional representatives before the EPO as well as Form 1200 are available on the Internet under <http://www.epo.org>.

Receiving Section



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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:

ERJAVAC STANLEY M.

HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828
BLOOMFIELD HILLS MI 48303 USA

Matter no. 8330-000308/WQ/POA
 Action Due Date 10-27-09 Final Date 10-27-09
 Action Article 19
 Atty SME DKT/Verify MM

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing
(day/month/year) 27 AUGUST 2009 (27.08.2009)

Applicant's or agent's file reference

8330-308/POA

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.

PCT/US2009/032235

International filing date
(day/month/year)

28 JANUARY 2009 (28.01.2009)

Applicant

AMCOR LIMITED et al

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70**For more detailed instructions,** see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until **30 months** from the priority date (in some Offices even later); otherwise, the applicant must, within **20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, National Chapters.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro,
Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

COMMISSIONER

Telephone No. 82-42-481-5762



NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annex B).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, paragraph 296).

What parts of the international application may be amended ?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When ? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments ?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How ? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet or sheets containing a complete set of claims in replacement of all the claims previously filed must be submitted.

Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively in Arabic numerals (Section 205(a)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments ?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1 - 10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the *PCT Applicant's Guide*, National Chapters.

* Attention

Copies of the documents cited in the international search report can be searched in the following Korean Intellectual Property Office English website for three months from the date of mailing of the international search report.

<http://www.kipo.go.kr/en/> => Patent Search => PCT-Service

ID : PCT international application number

PW : **L1KMLCKJ**

Inquiries related to PCT International Search Report or Written Opinion prepared by KIPO as an International Searching Authority can be answered not only by KIPO but also through IPKC (Intellectual Property Korea Center), located in Vienna, VA, which functions as a PCT Help Desk for PCT applicants.

Homepage: <http://www.ipkcenter.com>

Email: ipkc@ipkcenter.com

Phone: +1 703 388 1066

Fax: +1 703 388 1064

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
ERJAVAC STANLEY M.

HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828
BLOOMFIELD HILLS MI 48303 USA

Matter no. 8330-600308/WO/POA
Action due date 11-30-09 Final Date 11-30-09
Action Chapter II Demand
Atty S M E DKT/Verify M M HCO

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY
(PCT Rule 43bis.1)

Date of mailing
(day/month/year) 27 AUGUST 2009 (27.08.2009)

Applicant's or agent's file reference
8330-308/POA

FOR FURTHER ACTION
See paragraph 2 below

International application No. PCT/US2009/032235	International filing date (day/month/year) 28 JANUARY 2009 (28.01.2009)	Priority date(day/month/year) 30 JANUARY 2008 (30.01.2008)
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International Patent Classification (IPC) or both national classification and IPC

B65D 1/02(2006.01)i, B65D 1/40(2006.01)i, B29C 49/02(2006.01)i, B65D 41/34(2006.01)i

Applicant
AMCOR LIMITED et al

1. This opinion contains indications relating to the following items:
- ☒ Box No. I Basis of the opinion
 - ☐ Box No. II Priority
 - ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - ☐ Box No. IV Lack of unity of invention
 - ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - ☐ Box No. VI Certain documents cited
 - ☐ Box No. VII Certain defects in the international application
 - ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR
Korean Intellectual Property Office
Government Complex-Daejeon, 139
Seonsa-ro, Seo-gu, Daejeon 302
-701, Republic of Korea
Facsimile No. 82-42-472-7140

Date of completion of this opinion
27 AUGUST 2009 (27.08.2009)

Authorized officer
KO, Jun Seok
Telephone No.82-42-481-5419



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US2009/032235

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of :

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
- ☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper
- ☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
- ☐ filed together with the international application in electronic form.
- ☐ furnished subsequently to this Authority for the purposes of search.

4. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2009/032235

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-11, 13, 15-20	YES
	Claims	12, 14	NO
Inventive step (IS)	Claims	3, 15-20	YES
	Claims	1, 2, 4-14	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO

2. Citations and explanations :

Reference is made to the following documents:

D1: US 4566600 A (CHANG) 28 January 1986

D2: US 2007/0210026 A1 (DARR et al.) 13 September 2007

1. Novelty and Inventive Step

1.1 Independent Claims 1, 12 and 14

D1, which is considered to be the closest prior art to the subject matter of claim 1, discloses a plastic container comprising a finish portion(12), a shoulder portion(26), a sidewall portion(28), and a neck portion(20). Claim 1 differs from D1 in that it more includes a tamper evident (TE) band formed on said finish. However, D2, which claims a plastic container and preform, discloses a tamper-evident formation(28). It would be obvious to a person skilled in the art to combine D1 with D2. Thus, claim 1 lacks an inventive step under PCT Article 33(3).

Claim 12 claims a method of forming a blow-molded plastic container comprising disposing a preform into a mold cavity; and blowing the preform against the mold surface to form a body. However, D2, which claims a method for making a container comprising providing a preform; and forming a container, discloses all the same technical feature with that of claim 12. So, claim 12 lacks a novelty under PCT Article 33(2).

Claim 14 suggests a preform comprising an upper portion, a neck, and a tamper evident (TE) band. However, D2 also discloses a plastic preform comprising a neck portion having upper and lower surface; a tamper-evident formation; and a dispensing opening. So, claim 14 lacks a novelty under PCT Article 33(2).

1.2 Dependent Claims 2 to 11, 13, and 15 to 20

Claim 3 dependent on claim 2 modifies the TE band structure and further adds a debossed support flange defining a second diameter. Neither D1 nor D2 does not disclose the debossed support flange. And it is not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claim 3 meets the requirements of PCT Article 33(2) and (3) with respect to novelty and inventive step.

Continued to supplemental box.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2009/032235

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of :

Box No. V.

Claims 2 and 4 to 11, which are dependent on claim 1 or other claims, modify the structure of the previous components, or specify the material of the finish. However, those modifications and specification are mere matters of design option when the general knowledge in this field of the art is used. So, these dependent claims lack an inventive step under PCT Article 33(3).

Claim 13 dependent on claim 12 further includes blowing a neck. However, adding the blowing-step is also a mere matter of design option when the general knowledge in this field of the art is used. Thus, claim 13 also lacks an inventive step PCT Article 33(3).

Claim 15 dependent on claim 14 further adds a debossed support flange in the TE band. Neither D1 nor D2 does not disclose the debossed support flange. And it is not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claim 15 meets the requirements of PCT Article 33(2) and (3) with respect to novelty and inventive step.

Claims 16 to 20, which are dependent on claim 15 directly or indirectly, also meet the requirements of PCT Article 33(2) and (3).

2. Industrial Applicability

Claims 1 to 29 are industrially applicable under PCT Article 33(4).

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 8330-308/POA	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2009/032235	International filing date (day/month/year) 28 JANUARY 2009 (28.01.2009)	(Earliest) Priority Date (day/month/year) 30 JANUARY 2008 (30.01.2008)
Applicant AMCOR LIMITED et al		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.
☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
- a. With regard to the **language**, the international search was carried out on the basis of :
- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))
- b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).
- c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.
2. ☐ **Certain claims were found unsearchable** (See Box No. II)
3. ☐ **Unity of invention is lacking** (See Box No. III)
4. With regard to the **title**,
- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:
5. With regard to the **abstract**,
- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. With regard to the **drawings**,
- a. the figure of the **drawings** to be published with the abstract is Figure No. 1
- ☐ as suggested by the applicant.
- ☒ as selected by this Authority, because the applicant failed to suggest a figure.
- ☐ as selected by this Authority, because this figure better characterizes the invention.
- b. ☐ none of the figure is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/032235**A. CLASSIFICATION OF SUBJECT MATTER****B65D 1/02(2006.01)i, B65D 1/40(2006.01)i, B29C 49/02(2006.01)i, B65D 41/34(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: B65D 1/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models since 1975

Japanese utility models and applications for utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS (KIPO internal) & keywords: bottle, container, plastic, PET, shoulder, sidewall, tamper-evident, neck

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4566600 A (CHANG) 28 January 1986 See column 3, line 33 - column 4, line 31.	1, 2, 4 -11
X	US 2007/0210026 A1 (DARR et al.) 13 September 2007 See paragraph 13 - paragraph 25.	12-14
Y		1, 2, 4-11
A	US 4895265 A (LUCH et al.) 23 January 1990 See column 3, line 10 - column 4, line 60.	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

27 AUGUST 2009 (27.08.2009)

Date of mailing of the international search report

27 AUGUST 2009 (27.08.2009)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KO, Jun Seok

Telephone No. 82-42-481-5419



INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/US2009/032235

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 04566600 A	28.01.1986	US 04566600 A	28.01.1986
US 2007-0210026 A1	13.09.2007	AU 2007-222101 A1	13.09.2007
		AU 2007-222101 A1	25.01.2007
		CA 2644081 A1	13.09.2007
		EP 1993917 A2	26.11.2008
		US 2007-0205175 A1	06.09.2007
		WO 2007-102950 A2	13.09.2007
		WO 2007-102950 A3	13.09.2007
		WO 2008-144417 A1	27.11.2008
US 04895265 A	23.01.1990	US 04895265 A	23.01.1990

ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF RECEIPT OF
RECORD COPY

(PCT Rule 24.2(a))

To:

ERJAVAC, Stanley M.
Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 17 February 2009 (17.02.2009)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 8330-308/POA	International application No. PCT/US2009/032235

The applicant is hereby **notified** that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

AMCOR LIMITED (for all designated States except US)
PENNY, Michael E. (for US)

International filing date: 28 January 2009 (28.01.2009)
Priority date(s) claimed: 30 January 2008 (30.01.2008)
Date of receipt of the record copy by the International Bureau: 05 February 2009 (05.02.2009)
List of designated Offices:

AP: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW

EA: AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR

OA: BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

National: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

ATTENTION: The applicant should carefully check the data appearing in this notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau. **In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:**

- time limits for entry into the national phase - see updated important information (as of April 2002)
- requirements regarding priority documents (if applicable)

A copy of this notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Mandallaz Stephane e-mail pt04.pct@wipo.int Telephone No. +41 22 338 74 04
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Facsimile No. +41 22 338 89 95

Form PCT/IB/301 (October 2005)

1/DYN6VUZU0

66

INFORMATION ON ENTERING THE NATIONAL PHASE

The applicant is reminded that the "national phase" must be entered before each of the designated Offices indicated on the cover sheet of this notification by paying national fees and furnishing translations, as prescribed by Articles 22 and 39 and the applicable national laws. In addition, the applicant may also have to comply with other special requirements applicable in certain Offices. It is the applicant's responsibility to ensure that the necessary steps to enter the national phase are taken in a timely fashion. Most Offices do not issue reminders to applicants in connection with the entry into the national phase.

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 30 MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 19 months from the priority date (see Article 39(1)), but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see *PCT Gazette* No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the *PCT Newsletter*, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette* ("Section IV" part published on a weekly basis), to the *PCT Newsletter* (on a monthly basis) and to the relevant National Chapters in Volume II of the *PCT Applicant's Guide* (the paper version of which is updated usually twice a year and the Internet version of which is updated usually on a weekly basis). Finally, a cumulative table of all applicable time limits for entering the national phase is available from WIPO's Internet site, via links from various pages of the site, including those of the *Gazette*, *Newsletter* and *Guide*, at <http://www.wipo.int/pct/en/index.html>.

Information about the requirements for filing a demand for international preliminary examination is set out in the *PCT Applicant's Guide*, Volume I/A, Chapter IX. Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

REQUIREMENTS REGARDING PRIORITY DOCUMENTS

For applicants who have not yet complied with the requirements regarding priority documents, the following is recalled.

Where the priority of an earlier national, regional or international application is claimed, the applicant must submit a copy of the said earlier application, certified by the authority with which it was filed ("the priority document") to the receiving Office (which will transmit it to the International Bureau) or directly to the International Bureau, before the expiration of 16 months from the priority date, provided that any such priority document may still be submitted to the International Bureau before the date of international publication of the international application, in which case that document will be considered to have been received by the International Bureau on the last day of the 16-month time limit (Rule 17.1(a)).

Where the priority document is issued by the receiving Office, the applicant may, instead of submitting the priority document, request the receiving Office to prepare and transmit the priority document to the International Bureau. Such request must be made before the expiration of the 16-month time limit and may be subjected by the receiving Office to the payment of a fee (Rule 17.1(b)).

If the priority document concerned is not submitted to the International Bureau and if the request to the receiving Office to prepare and transmit the priority document has not been made (and the corresponding fee, if any, paid) within the applicable time limit indicated under the preceding paragraphs, any designated State may disregard the priority claim, provided that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances (Rule 17.1(c)).

Where several priorities are claimed, the priority date to be considered for the purposes of computing the 16-month time limit (and all other PCT time limits) is the filing date of the earliest application whose priority is claimed (Article 2(xi)(b)).

PATENT COOPERATION TREATY

WO 2009/099832
PCT/US2009/032235

From the INTERNATIONAL BUREAU

PCT

FIRST NOTICE INFORMING THE APPLICANT OF
THE COMMUNICATION OF THE INTERNATIONAL
APPLICATION (TO DESIGNATED OFFICES WHICH
DO NOT APPLY THE 30 MONTH TIME LIMIT
UNDER ARTICLE 22(1))

(PCT Rule 47.1(c))

To:

ERJAVAC, Stanley M.
Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 03 September 2009 (03.09.2009)		
Applicant's or agent's file reference 8330-308/POA		IMPORTANT NOTICE
International application No. PCT/US2009/032235	International filing date (day/month/year) 28 January 2009 (28.01.2009)	
Priority date (day/month/year) 30 January 2008 (30.01.2008)		
Applicant AMCOR LIMITED et al		

- ATTENTION:** For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from the priority date), **does apply**, please see Form PCT/IB/308(Second and Supplementary Notice) (to be issued promptly after the expiration of 28 months from the priority date).
- Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, **does not apply**, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below:
13 August 2009 (13.08.2009)

None

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

- The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, **does not apply**, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1 :

LU, TZ, UG

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

4. TIME LIMITS for entry into the national phase

For the designated Office(s) listed above, and unless a demand for international preliminary examination has been filed before the expiration of **19 months** from the priority date (see Article 39(1)), the applicable time limit for entering the national phase will, **subject to what is said in the following paragraph**, be **20 MONTHS** from the priority date.

In practice, **time limits other than the 20-month time limit** will continue to apply, for various periods of time, in respect of certain of the designated Offices listed above. For **regular updates on the applicable time limits** (20 or 21 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

It is the applicant's **sole responsibility** to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Athina Nickitas-Etienne
Facsimile No. +41 22 338 82 70	e-mail: pt04.pct@wipo.int

ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

To:

ERJAVAC, Stanley M.
Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 18 February 2009 (18.02.2009)	
Applicant's or agent's file reference 8330-308/POA	IMPORTANT NOTIFICATION
International application No. PCT/US2009/032235	International filing date (day/month/year) 28 January 2009 (28.01.2009)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 30 January 2008 (30.01.2008)
Applicant AMCOR LIMITED et al	

1. By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. (If applicable) The letters "NR" appearing in the right-hand column denote a priority document which, on the date of mailing of this Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
3. (If applicable) An asterisk (*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as the priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
30 January 2008 (30.01.2008)	12/011,975	US	05 February 2009 (05.02.2009)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Athina Nickitas-Etienne e-mail PT04.PCT@WIPO.INT Telephone No. +41 22 338 74 04
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Facsimile No. +41 22 338 82 70

Form PCT/IB/304 (October 2005)

1/DYPI0RR50

PATENT COOPERATION TREATY

WO 2009/099832
PCT/US2009/032235

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
AVAILABILITY OF THE PUBLICATION
OF THE INTERNATIONAL APPLICATION

To:

ERJAVAC, Stanley M.
Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 13 August 2009 (13.08.2009)		IMPORTANT NOTICE	
Applicant's or agent's file reference 8330-308/POA			
International application No. PCT/US2009/032235	International filing date (day/month/year) 28 January 2009 (28.01.2009)	Priority date (day/month/year) 30 January 2008 (30.01.2008)	
Applicant AMCOR LIMITED et al			

The applicant is hereby notified that the International Bureau:

☒ has **published** the above-indicated international application on 13 August 2009 (13.08.2009) under No. WO 2009/099832

☐ has **republished** the above-indicated international application on under No. WO
For an explanation as to the reason for this republication of the international application, reference is made to INID codes (15), (48) or (88) (*as the case may be*) on the front page of the published international application.

A copy of the international application is available for viewing and downloading on WIPO's website at the following address: www.wipo.int/pctdb (in the appropriate field of the structured search, enter the PCT or WO number).

The applicant may also obtain a paper copy of the published international application from the International Bureau by sending an e-mail to patentscope@wipo.int or by submitting a written request to the contact details provided below.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Athina Nickitas-Etienne e-mail: pt04.pct@wipo.int
Facsimile No. +41 22 338 82 70	

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

To:

STANLEY M. ERJAVAC
HARNES, DICKEY & PIERCE, P.L.C.
P.O. BOX 828
BLOOMFIELD HILLS, MICHIGAN 48303

PCT

NOTIFICATION CONCERNING PAYMENT OF PRESCRIBED FEES

(PCT Rules 12bis.1(c), 14, 15 and 16 and Administrative
Instructions, Sections 102bis(c), 304,
323(b), 707(b) and 803)

Date of mailing (day/month/year) 06 Feb 2009		
Applicant's or agent's file reference 8330-308/POA	PAYMENT DUE see item 3 for time limits	
International application No. PCT/US2009/032235	International filing date/Date of receipt (day/month/year) 28 Jan 2009	Priority date (day/month/year) 30 Jan 2008
Applicant AMCOR LIMITED		

1. The applicant is hereby notified that this receiving Office has received:

- ☒ the payment of all the prescribed fees, and
 ☐ an overpayment, which will be refunded in due course.
☐ no or insufficient payment of the prescribed fees and the applicant is hereby invited to pay the balance due, as summarized under item 2, within the time limit(s) indicated under item 3.

2. Fees and payment calculation:

1,947.00	-	1,947.00	=	0.00
Total fees payable		Amount paid		Balance

- ☐ The details of the calculation are given in the Annex.

3. Time limit(s) for payment and amount(s) payable (Rules 14.1, 15.4 and 16.1(f)):

- ☐ within ONE MONTH from the date of receipt of the international application (for the transmittal fee (if any), the search fee and the international filing fee). The amount payable for each fee is the amount applicable on the date of receipt of the international application.
☐ within 16 MONTHS from the priority date (only for the fee for priority document). The applicant's attention is drawn to the fact that the request made by the applicant under Rule 17.1(b) will be considered not to have been made unless the fee is paid within that time limit.

4. Additional observations (if necessary):

- ☐ The search copy will not be transmitted to the International Searching Authority until the search fee is paid (therefore the start of the international search will be delayed) (Rule 23.1(a) and (b)).

Name and mailing address of the receiving Office
Mail Stop PCT, Commissioner for Patents
P.O. Box 1450, Alexandria, VA 22313-1450
Facsimile No. 571-273-3201

Authorized officer
Arnessa Smith
Telephone No. 703- 308-9290 EX 138

ANNEX TO FORM PCT/RO/102
CALCULATION OF THE PRESCRIBED FEES

International application No.
PCT/US2009/032235

T Transmittal Fee

Prescribed amount: 240.00 **T**
Amount paid: 240.00
Balance: = 0.00

☒ correct amount
☐ overpayment
☐ balance due

S Search Fee

Prescribed amount: 609.00 **S**
Amount paid: 609.00
Balance: = 0.00

☒ correct amount
☐ overpayment
☐ balance due

I International Filing Fee

Fixed amount for first 30 sheets: 1,028.00 **i1**
 $\frac{5}{\text{Number of sheets in excess of 30}} \times \frac{14.00}{\text{Fee per sheet}} = \frac{70.00}{\text{70.00}} \text{ **i2**}$

Additional component: 0.00 **i3**
 $\frac{.400}{\text{Fee per sheet}} = \frac{0.00}{\text{0.00}}$

Reduction where the international application is filed
(See PCT Applicant's Guide, International Phase for details on the availability of this reduction):

using the PCT-EASY software: 0.00 **r**

or

in electronic form where the text of the description, claims and abstract is not in character coded format: 0.00 **r**

or

in electronic form where the text of the description, claims and abstract is in character coded format: 0.00 **r**

Sub-total: = 1,098.00 **i1+i2+i3-r**

Applicants from certain States are entitled to a reduction of 90% of the international filing fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 10% of the sub-total entered at (i1+i2+i3-r): (see Notes to the Fee Calculation Sheet as annexed to the Request Form, PCT/RO/101, for details):

1,098.00 **I**

Amount paid: 1,098.00
Balance: = 0.00

☒ correct amount
☐ overpayment
☐ balance due

P Fee for Priority Document

Prescribed amount: 0.00 **P**
Amount paid: 0.00
Balance: = 0.00

☒ correct amount
☐ overpayment
☐ balance due

ES Fee for Earlier Search Documents

Prescribed amount: 0.00 **ES**
Amount paid: 0.00
Balance: = 0.00

☐ correct amount
☐ overpayment
☐ balance due

PATENT COOPERATION TREATY

From the RECEIVING OFFICE

PCT

To:
STANLEY M. ERJAVAC
HARNES, DICKEY & PIERCE, P.L.C.
P.O. BOX 828
BLOOMFIELD HILLS, MICHIGAN 48303

NOTIFICATION OF THE INTERNATIONAL APPLICATION NUMBER AND OF THE INTERNATIONAL FILING DATE

(PCT Rule 20.2(c))

Confirmation No: 7852

Date of mailing
(day/month/year) 06 Feb 2009

Applicant's or agent's file reference
8330-308/POA

IMPORTANT NOTIFICATION

International application No.
PCT/US2009/032235

International filing date (day/month/year)
28 Jan 2009

Priority date (day/month/year)
30 Jan 2008

Applicant
AMCOR LIMITED

Title of the invention
PREFORM AND CONTAINER HAVING DEBOSSSED SUPPORT FLANGE

1. The applicant is hereby notified that the international application has been accorded the international application number and the international filing date indicated above.

2. The applicant is further notified that the record copy of the international application:

- ☒ was transmitted to the International Bureau on 06 Feb 2009
- ☐ has not yet been transmitted to the International Bureau for the reason indicated below and a copy of this notification has been sent to the International Bureau*:
- ☐ because the necessary national security clearance has not yet been obtained.
- ☐ because (reason to be specified):

* The International Bureau monitors the transmittal of the record copy by the receiving Office and will notify the applicant (with Form PCT/IB/301) of its receipt. Should the record copy not have been received by the expiration of 14 months from the priority date, the International Bureau will notify the applicant (Rule 22.1(c)).

3. FOREIGN TRANSMITTAL LICENSE INFORMATION

Completed by: AS

- ☐ Additional license for foreign transmittal not required. This subject matter is covered by a license already granted or the equivalent U.S. national application. Refer to that license for information concerning its scope.
- ☐ License for foreign transmittal not required. 37 CFR 5.11(e)(1) or 37 CFR 5.11(e)(2). However, a license may be required for additional subject matter. See 37 CFR 5.15(b).
- ☒ Foreign transmittal license granted. 35 U.S.C. 184; 37 CFR 5.11 on 02 Feb 2009 :
(date)
- ☐ 37 CFR 5.15(a) ☒ 37 CFR 5.15(b)

Name and mailing address of the receiving Office
Mail Stop PCT, Commissioner for Patents
P.O. Box 1450, Alexandria, VA 22313-1450
Facsimile No. 571-273-3201

Authorized officer
Arnessa Smith
Telephone No. 703- 308-9290 EX 138

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:

ERJAVAC STANLEY M.

HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828
BLOOMFIELD HILLS MI 48303 USA

PCT

NOTIFICATION OF RECEIPT
OF SEARCH COPY

(PCT Rule 25.1)

Date of mailing
(day/month/year) 18 MARCH 2009 (18.03.2009)

Applicant's or agent's file reference
8330-308/POA

IMPORTANT NOTIFICATION

International application No.
PCT/US2009/032235

International filing date (day/month/year)
28 JANUARY 2009 (28.01.2009)

Priority date (day/month/year)
30 JANUARY 2008 (30.01.2008)

Applicant
AMCOR LIMITED et al

1. **Where the International Searching Authority and the receiving Office are not the same Office:**
The applicant is hereby notified that the search copy of the international application was received by this International Searching Authority on the date indicated below.

Where the International Searching Authority and the receiving Office are the same Office:
The applicant is hereby notified that the search copy of the international application was received on the date indicated below.

13 FEBRUARY 2009 (13.02.2009) (date of receipt).

2. ☐ The search copy was accompanied by a nucleotide and/or amino acid sequence listing or tables related thereto in electronic form.
3. ☐ The search copy contained a nucleotide and/or amino acid sequence listing or tables related thereto in electronic form.
4. **Time limit for establishment of international search report and written opinion of the International Searching Authority**
The applicant is informed that the time limit for establishing the international search report and the written opinion of the International Searching Authority is three months from the date of receipt indicated above or nine months from the priority date, whichever time limit expires later (Rules 42.1 and 43bis.1(a)).
5. A copy of this notification has been sent to the International Bureau and, where the first sentence of paragraph 1 applies, to the receiving Office.

Name and mailing address of the ISA/KR

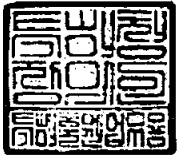
 Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro,
Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

COMMISSIONER

Telephone No. 82-42-481-5281



PATENT COOPERATION TREATY

From the RECEIVING OFFICE

To:

STANLEY M. ERJAVAC
HARNESS, DICKEY & PIERCE, P.L.C.
P.O. BOX 828
BLOOMFIELD HILLS, MICHIGAN 48303

PCT

NOTIFICATION CONCERNING
REPRESENTATION

(PCT Rule 90 and Administrative
Instructions, Section 328)

Applicant's or agent's file reference 8330-308/POA	Date of mailing (day/month/year) 07 May 2009
International application No. PCT/US2009/032235	International filing date (day/month/year) 28 Jan 2009
Applicant AMCOR LIMITED	

1. This receiving Office hereby gives notice of the receipt of a document containing:

- ☒ a power of attorney
☐ a revocation of power of attorney
☐ a renunciation of appointment

2. This notification, together with a copy of the document indicated above, is sent to the addressee in its capacity as:

- ☒ the International Searching Authority.
☐ the International Bureau, which is requested to record a change in the person of the agent or common representative under Rule 92bis.1(a)(ii).

Name and mailing address of the receiving Office Mail Stop PCT, Commissioner for Patents P.O. Box 1450, Alexandria, VA 22313-1450 Facsimile No. 571-273-3201	Authorized officer Arnessa Smith Telephone No. 703-756-1428
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Docket: 8330-308/POA

IN THE UNITED STATES RECEIVING OFFICE
UNDER THE PATENT COOPERATION TREATY

In re Application of: AMCOR LIMITED and Michael E. PENNY

Int'l Appln. No.: PCT/US2009/032235

Int'l Filing Date: 28 January 2009

For: PREFORM AND CONTAINER HAVING DEBOSSSED
SUPPORT FLANGE

SUBMISSION OF PCT POWERS OF ATTORNEY

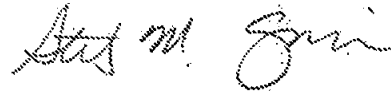
MS PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA. 22313-1450
Attn.: RO/US

Sir/Madam:

In support of Applicants PCT Request and International Application filed 28 January 2009, enclosed herewith are two (2) PCT Powers of Attorney under PCT Rule 90.4 signed by Kimberly HOUCHEMS, on behalf of AMCOR LIMITED, and Inventor/Applicant Michael E. PENNY. Please enter the signed Powers into the record in support of Applicants' International Application.

Should you have any questions regarding the present application or this submission, please direct all communications to the undersigned at (248) 641-1600.

Respectfully submitted,



Stanley M. Erjavac
Registration No. 38,442

Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
(248) 641-1253

Dated: 13 April 2009

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the Request Form (PCT/RO-101)).

AMCOR LIMITED
679 Victoria Street
Abbotsford, Victoria 3067
AUSTRALIA

hereby appoints (appoint) the following person as: ☒ agent ☐ common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Stanley M. Erjavac, 38,442; and each practitioner at customer number 27572:

HARNESS, DICKEY & PIERCE, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
UNITED STATES OF AMERICA

to represent the undersigned before ☒ all the competent International Authorities
☐ the International Searching Authority only
☐ the Authority specified for supplementary search: _____
(please indicate the Authority(ies) specified for supplementary search)
☐ the International Preliminary Examining Authority only

in connection with the international application identified below:

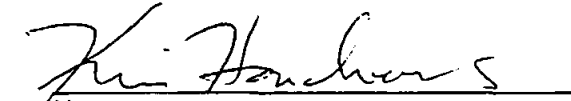
Title of the invention: PREFORM AND CONTAINER HAVING DEBOSSSED SUPPORT FLANGE

Applicant's or agent's file reference: 8330-308/POA

International application number (if already available): PCT/US2009/032235

filed with the following Office _____ US _____ as receiving Office
and to make or receive payments on behalf of the undersigned.

Signature of the applicant(s) (where there are several applicants, each of them must sign, next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power)


Name: Kimberly Houchens
Title: VP Proc Dev
Authorized signer for Amcor Limited

Date: 2/10/2009

Attachment to PCT Power of Attorney
Practitioners listed at Customer Number 27572, with
HARNESSE, DICKEY & PIERCE, P.L.C.

ALBERDI, Fernando, Reg. No. 62,688	MIERZWA, Kevin, Reg. No. 38,049
AQUINO, Damian M., Reg. No. 54,964	MILLER, H. Keith, Reg. No. 22,484
BREINER, David, Reg. No. 61,336	MOUSTAKAS, George D., Reg. No. 44,425
BRENNAN, Michael P., Reg. No. 30,612	NYE, Michael, Reg. No. 62,126
BROCK, Christopher M., Reg. No. 27,313	O'DELL, Elizabeth, Reg. No. 39,532
BUDDE, Anna M., Reg. No. 35,085	OLSON, Stephen T., Reg. No. 36,626
CASTELLANO, III, John A., Reg. No. 35,094	PANKA, Brian, Reg. No. 53,430
CHANG, Alex, Reg. No. 52,716	PATEL, Neel K., Reg. No. 59,452
CHAPP, Jeffrey, Reg. No. 50,579	PLENZLER, Jeremy, Reg. No. 56,432
CHO, David J., Reg. No. 48,078	PUMM, Kevin, Reg. No. 49,046
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COMNINOU, Maria, Reg. No. 44,626	RAYMOND, Donald D., Reg. No. 61,666
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DALEY, Donald J., Reg. No. 34,313	SANDERS, Justin Baker, Reg. No. 60,936
DAWSON, John, Reg. No. 39,504	SCHAEFER, Erica, Reg. No. 55,861
DOBROWITSKY, Joshua B., Reg. No. 51,288	SCHALDENBRAND, M., Reg. No. 47,923
DOERR, Michael P., Reg. No. 52,825	SCHIVLEY, G. Gregory, Reg. No. 27,382
DONLEY, Garrett C., Reg. No. 34,579	SCHMIDT, Bradford, Reg. No. 42,128
ELCHERT, Scott, Reg. No. 55,149	SCHMIDT, Michael J., Reg. No. 34,007
ELCHUK, Mark D., Reg. No. 33,686	SCHOOF, George T., Reg. No. 44,323
ERJAVAC, Stanley M., Reg. No. 38,442	SCHULTZ, Dale, Reg. No. 36,267
EUSEBI, Christopher A., Reg. No. 44,672	SEITZ, Brent G., Reg. No. 54,435
FALCOFF, Monte L., Reg. No. 37,617	SIMINSKI, Robert M., Reg. No. 36,007
FITZPATRICK, John, Reg. No. 41,018	SMITH, Corey, Reg. No. 57,807
FORBES, James C., Reg. No. 39,457	SMITH, Michael, Reg. No. 35,685
FOSS, Stephen J., Reg. No. 31,251	SNYDER, Jeffrey L., Reg. No. 43,141
FRENTROP, Mark A., Reg. No. 41,026	STEIN, Julie, Reg. No. 43,158
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FUSSNER, Anthony G., Reg. No. 47,582	SUTER, David L., Reg. No. 30,692
GALVIN, Lawrence, Reg. No. 44,694	SZALACH, Matthew H., Reg. No. 53,665
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HARRIS, Jr., Gordon K., Reg. No. 28,615	TAYLOR, W.R. Duke, Reg. No. 31,306
HEIST, Jason, Reg. No. 51,797	TELSCHER, Jr., Rudolph A., Reg. No. 36,032
HERNANDEZ, Jesus, Reg. No. 62,570	THOMAS, Michael J., Reg. No. 39,857
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MASSEY, Ryan W., Reg. No. 38,543	ZALOBESKY, Michael D., Reg. No. 45,512
McCLAUGHRY, David A., Reg. No. 37,885	ZIEHLER, William, Reg. No. 61,415
MEYER, Greg, Reg. No. 59,915	

Harness, Dickey & Pierce, P.L.C.:
P.O. Box 828, Bloomfield Hills, Michigan 48303, United States of America;
7700 Bonhomme, Suite 400, St. Louis, Missouri 63105, United States of America; and
11730 Plaza America Drive, Suite 600, Reston, VA 20190, United States of America

PCT

POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.1)

The undersigned applicant(s) (Names should be indicated as they appear in the Request Form (PCT RO/101):

PENNY, Michael E.
100 E. Henry Street
Saline, Michigan 48176
UNITED STATES OF AMERICA

hereby appoints (appoint) the following person as: ☐ agent ☒ common representative

Name and address

(Family name followed by given name, for a legal entity, full official designation. The address must include postal code and name of country.)

AMCOR LIMITED
679 Victoria Street
Abbotsford, Victoria 3067
AUSTRALIA

to represent the undersigned before ☒ all the competent International Authorities
☐ the International Searching Authority only
☐ the Authority specified for supplementary search: _____
(please indicate the Authority(ies) specified for supplementary search)
☐ the International Preliminary Examining Authority only

in connection with the international application identified below:

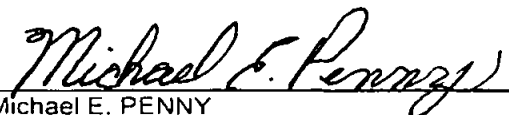
Title of the invention: PREFORM AND CONTAINER HAVING DEBOSSSED SUPPORT
FLANGE

Applicant's or agent's file reference: 8330-308/POA

International application number (if already available): PCT/US2009/032235

filed with the following Office _____ US _____ as receiving Office
and to make or receive payments on behalf of the undersigned.

Signature of the applicant(s) (where there are several applicants, each of them must sign, next to each signature, indicate the name of the person signing
and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power)


Michael E. PENNY

Date: 2-20-09

USPTO

5/6/2008 4:20:00 PM PAGE 2/004 Fax Server

TO: HARNESS, DICKEY & PIERCE, P.C. COMPANY: P.O. BOX 828



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UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



MAY 06, 2008

500531487A

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HARNESS, DICKEY & PIERCE, P.L.C.
P.O. BOX 828
BLOOMFIELD HILLS, MI 48303

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RECORDATION DATE: 05/06/2008

REEL/FRAME: 020903/0083
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 8330-000308

ASSIGNOR:

PENNY, MICHAEL E.

DOC DATE: 05/01/2008

ASSIGNEE:

AMCOR LIMITED
679 VICTORIA STREET
ABBOTSFORD, VICTORIA, AUSTRALIA

3067

SERIAL NUMBER: 12011975

FILING DATE: 01/30/2008

PATENT NUMBER:

ISSUE DATE:

TITLE: PREFORM AND CONTAINER HAVING DEBOSSSED SUPPORT FLANGE

80

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PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.105/06/2008
500531487

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Michael E. Penny	05/01/2008
RECEIVING PARTY DATA	
Name:	Amcov Limited
Street Address:	679 Victoria Street
City:	Abbotsford, Victoria
State/Country:	AUSTRALIA
Postal Code:	3067
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12011975
CORRESPONDENCE DATA	
Fax Number:	(248)641-0270
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	(248) 641-1600
Email:	ldavis@hdp.com
Correspondent Name:	Harness, Dickey & Pierce, P.L.C.
Address Line 1:	P.O. Box 828
Address Line 4:	Bloomfield Hills, MICHIGAN 48303
ATTORNEY DOCKET NUMBER:	8330-000308
NAME OF SUBMITTER:	Stanley M. Erjavac
Total Attachments: 2 source=20080505ASN#page1.tif source=20080505ASN#page2.tif	

CH \$40.00 12011975

ORIGINAL FAX



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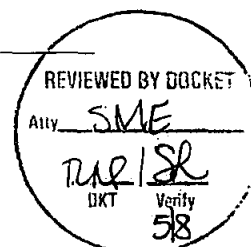
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8330-000308/US

83

ASSIGNMENT

Atty. Docket No. 8330-000308

The undersigned, hereinafter referred to collectively as Assignor, has an interest in the invention entitled:

PREFORM AND CONTAINER HAVING DEBOSSSED SUPPORT FLANGE

which is the subject of a United States or International application for patent

- (a) ☐ executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
- (b) ☐ executed on _____, _____, _____;
- (c) ☒ filed on January 30, 2008, and assigned Serial No. 12/011,975;
- (d) ☐ U.S. Patent No. _____, issued _____, and
☐ presently assigned as evidenced at Reel _____, Frame _____; or
- (e) ☐ entitled above and naming the undersigned inventors in this provisional patent application; and

AMCOR LIMITED, (an Australian corporation) having a place of business at 679 Victoria Street, Abbotsford, Victoria 3067, Australia, hereinafter referred to as Assignee, is desirous of acquiring Assignor's interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

Assignor hereby authorizes an attorney authorized to prosecute this patent application to insert here in parentheses (Application No. 12/011,975, filed January 30, 2008) the filing date and application number of said application when known.

ASSIGNMENT

Michael E. Penny
First Inventor: Michael E. Penny

State of Michigan)
County of Washtenaw) ss.

On this 1st day of May, 2008, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public, Faye L. Walter
Faye L. Walter

(seal)

Acting in the County Of Washtenaw

State Of Michigan

My Commission Expires 11-30-2012



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY DOCKET NO	TOT CLAIMS	END CLAIMS
12/011,975	01/30/2008	3781	1160	8330-000308	20	3

CONFIRMATION NO. 1546

UPDATED FILING RECEIPT

27572
HARNESS, DICKEY & PIERCE, P.L.C.
P.O. BOX 828
BLOOMFIELD HILLS, MI 48303



OC000000029989938

Date Mailed: 05/19/2008

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Michael E. Penny, Saline, MI;

Power of Attorney: The patent practitioners associated with Customer Number 27572

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted: 02/28/2008

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/011,975**

Projected Publication Date: 07/30/2009

Non-Publication Request: No

Early Publication Request: No

Title

Preform and container having debossed support flange

Preliminary Class

215

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent

(12) International Application Status Report

Received at International Bureau: 05 February 2009 (05.02.2009)

Information valid as of: 24 September 2009 (24.09.2009)

Report generated on: 27.07.2010

(10) Publication number: WO2009/099832	(43) Publication date: 13 August 2009 (13.08.2009)	(26) Publication language: English (EN)
(21) Application Number: PCT/US2009/032235	(22) Filing Date: 28 January 2009 (28.01.2009)	(25) Filing language: English (EN)
(31) Priority number(s): 12/011,975 (US)	(31) Priority date(s): 30 January 2008 (30.01.2008)	(31) Priority status: Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:
B65D 1/02 (2006.01); B65D 1/40 (2006.01); B29C 49/02 (2006.01); B65D 41/34 (2006.01)

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PENNY, Michael E. [US/US]; 100 E. Henry Saline, Michigan 48176 (US) *(for US only)*

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(74) Agent(s):
ERJAVAC, Stanley M.; Harness, Dickey & Pierce, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (US)

(54) Title (EN): PREFORM AND CONTAINER HAVING DEBOSSSED SUPPORT FLANGE
(54) Title (FR): PRÉFORME ET RÉCIPIENT COMPORTANT UN REBORD DE SUPPORT EN CREUX

(57) Abstract:
(EN): The present disclosure provides a container and a method of making a container. In one example, the container includes an upper portion having a finish defining a longitudinal axis and an opening into the container. A shoulder region is integrally formed with and extends from the upper portion. A sidewall portion extends from the shoulder region to a base portion. A tamper evident (TE) band is formed on the finish and defines an outermost surface of the plastic container above the shoulder region. A neck defining a cylindrical sidewall is integrally formed with and extends between the finish and the shoulder region. The neck defines a uniform cylindrical sidewall along its entire height between the finish and the shoulder region. The container further includes a debossed support flange defined on the upper portion. The debossed support flange defines a diameter less than a diameter defined by the TE band.

(FR): La présente invention concerne un récipient et un procédé de fabrication d'un récipient. Dans un exemple, le récipient comprend une partie supérieure comportant une bague définissant un axe longitudinal et une ouverture dans le récipient. Une région d'épaulement est formée d'un seul tenant avec la partie supérieure et s'étend de celle-ci. Une partie formant paroi latérale s'étend de la région d'épaulement jusqu'à une partie formant base. Une bande d'inviolabilité (TE) est formée sur la bague et définit une surface la plus à l'extérieur du récipient en plastique au-dessus de la région d'épaulement. Un goulot définissant une paroi latérale cylindrique est formé d'un seul tenant avec la bague et la région d'épaulement et s'étend entre celles-ci. Le goulot définit une paroi latérale cylindrique uniforme le long de sa hauteur entière entre la bague et la région d'épaulement. Le récipient comprend en outre un rebord de support en creux défini sur la partie supérieure. Le rebord de support en creux définit un diamètre inférieur à un diamètre défini par la bande TE.

International search report:
Received at International Bureau: 31 August 2009 (31.08.2009) [KR]

International preliminary examination report:

Not available

(81) Designated States:

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR

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African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

Declarations:

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))

Industria y Comercio
SUPERINTENDENCIA

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 10-096397- -00000-0000

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Act. 411 PRESENTACION Folios: 88

ES

PATENTE DE INVENCION ☐

MODELO DE UTILIDAD ☐

Art 33 Decisión 486/00

☐
☐
☐
☐
☐

Indicación que se solicita una patente.

Datos de identificación del solicitante o de la persona que presenta la solicitud

Descripción de la invención

Dibujos de ser estos pertinentes

Comprobante de pago de las tasas establecidas (De ser el caso formato de descuento)

Completa ☐

Incompleta ☐

PATENTE DE INVENCION PCT ☒

MODELO DE UTILIDAD PCT ☐

Art.33 Decisión 486/00, Circular Única



Indicación que se solicita una PCT.



Copia de la solicitud en español, tal como fue presentada inicialmente (capítulo descriptivo, reivindicatorio, resumen)



Dibujos de ser estos pertinentes



Comprobante de pago de las tasas establecidas (de ser el caso formato de descuento)

Completa ☒

Incompleta ☐

DISEÑO INDUSTRIAL ☐

(Art. 119 Decisión 486/00)



Indicación que se solicita Diseño industrial



Datos de identificación del solicitante o de la persona que presenta la solicitud



Representación gráfica y fotográfica del Diseño industrial o muestra del material que incorpora el diseño



Comprobante de pago de las tasas establecidas

Completa ☐

Incompleta ☐

ESQUEMA DE TRAZADO ☐

(Art. 92 Decisión 486/00)



Indicación que se solicita un esquema de trazado



Datos de identificación del solicitante o de la persona que presenta la solicitud



Representación gráfica de un esquema de trazado



Comprobante de pago de las tasas establecidas

Completa ☐

Incompleta ☐



Bogotá D.C.,
2020



Doctor(a)
RODRIGUEZ D' ALEMAN DILIA MARIA
Apoderado(a) y/o Representante de
AMCOR LIMITED

REFERENCIA	Radicación No.	10 096397
	Solicitud internacional	PCT/US2009/032235
	Fecha inicio fase nacional	30/08/2010
	Trámite	11
	Evento	378
	Actuación	430
	Oficio No.	<u>11228</u>

Como resultado del examen de forma, realizado con fundamento en el artículo 38 de la Decisión 486 de la Comisión de la Comunidad Andina, artículo 27 del Tratado de Cooperación en Materia de Patentes (PCT), regla 51 bis del Reglamento y Circular Única de la Superintendencia de Industria y Comercio, se le comunica que:

1. La solicitud no contiene el poder debidamente otorgado, con el lleno de los requisitos exigidos por los artículos 63 y subsiguientes del Código de Procedimiento Civil. Adicionalmente, deberá presentar el documento que acredita la existencia y representación legal de la sociedad solicitante, cuando ésta fuere persona jurídica.
2. El solicitante debe presentar un nuevo título que permita identificar la materia de la cual trata la solicitud, ya que el título relacionado no se encuentra con la precisión necesaria para identificar claramente el objeto de la solicitud de patente. (Regla 4.3 PCT, Art 26-27 D-486, Circular única 5.2.9)
3. La solicitud no contiene la copia del documento en que consta la cesión del derecho a la patente del inventor al solicitante o a su causante, conforme a lo establecido por el artículo 26 literal k) de la Decisión 486 de la Comisión de la Comunidad Andina. Cuando se trate de documentos otorgados en el extranjero, estos deberán legalizarse de conformidad con lo dispuesto por los artículos 259 y 260 del Código de Procedimiento Civil. Cuando se trate de las declaraciones a que hace referencia la Regla 4.17 ii) del Tratado de Cooperación en Materia de Patentes PCT., el alcance de las tales declaraciones se determinará según indiquen claramente una cesión de derechos del inventor al solicitante o su causante, de conformidad con lo dispuesto en el numeral 5.2.15 del Capítulo Quinto, Título X de la Circular Única de Superintendencia de Industria y Comercio.

En cumplimiento de lo dispuesto por el artículo 39 de la Decisión 486, se le requiere para que dentro del término de dos meses siguientes a la fecha de notificación del presente oficio, complete los requisitos anteriormente enunciados. En caso de no dar cumplimiento al presente requerimiento, la solicitud se considerará abandonada y perderá su prelación.

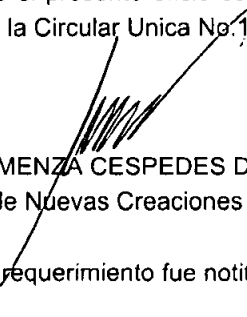
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Continuación radicado No: 10 096397


Industria y Comercio
SUPERINTENDENCIA

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Unica No. 10 de 2001.


ALIX CARMENZA CESPEDES DE VERGEL
Directora de Nuevas Creaciones (c)

El anterior requerimiento fue notificado por fijación en lista de fecha 03 SET. 2010
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