

Search history

Search 1: FT=((form* near container) AND (mold W2 base)) and PD<20140303 and IC=(B29C48* OR B29C49*) (Results 111)

Search 2: 1 AND (FT = hot) (Results 61)

Search 3: 2 AND (FT = base W2 (plug OR plunger OR retract*)) (Results 6)

Title: APPARATUS FOR **FORMING** A HEAT-RESISTANT **CONTAINER**

Abstract: Source: US5445515A A heat-resistant **container forming** method includes a step of thermally shrinking a primary blow molded article in a heating furnace before secondary blow molding the primary blow molded article into a final product or container. Into the furnace, **hot** air which flows along the longitudinal direction of the first blow molded article and whose temperature enough to facilitate crystallization of the primary blow molded article. The primary blow molded article is thermally shrunk by exposing the entire circumferential surface of a barrel of the primary blow article to the **hot** air and by blowing the **hot** air longitudinally along the primary blow molded article to heat the barrel circumferentially uniformly. Since **hot** air touches the barrel as flowing longitudinally thereof, it is possible to increase the heat conductivity of boundary film of the primary blow molded article, without increasing the **hot** air temperature too high, so that temperature rise of the primary blow molded article is facilitated.

Classifications:

International (IPC 8-9): B29C33/24 B29C49/08 B29C49/18 B29C49/28 B29C49/30 B29C49/42 B29C49/56 B29C49/58 B29C49/62 B29C49/64 B29C49/68 B29C49/70 B29C49/78 B29C49/80 B65D1/00 B65D1/09 (Advanced/Invention); B29C33/20 B29C49/06 B29C61/02 B29L22/00 (Advanced/Non-invention); B29C33/22 B29C49/00 B29C49/08 B29C49/28 B29C49/42 B29C49/56 B29C49/58 B29C49/62 B29C49/64 B29C49/78 B65D1/00 B65D1/09 (Core/Invention)

International (IPC 1-7): B29C33/24 B29C49/08 B29C49/18 B29C49/28 B29C49/30 B29C49/42 B29C49/56 B29C49/58 B29C49/62 B29C49/64 B29C49/68 B29C49/70 B29C49/78 B29L22/00 B65D1/09

CPC: B29C33/20 B29C49/06 B29C49/421 B29C49/56 B29C49/649 B29C49/68 B29C61/02 B29K2067/00 B29K2995/0017 B29K2995/004 B29K2995/0049 B29K2995/0053 B29C49/80 Y10S264/906

European: B29C49/42B2 B29C49/56 B29C49/64C4 B29C49/68 B29C49/80 L29C33/20 L29C49/06 L29C49/42B2 L29C61/02 L29K67/00 L29K995/00D8 L29K995/00F10C L29K995/00F3 L29K995/00F9

US: 264/521 264/529 264/530 264/906 425/526

PatBase - US5445515_A

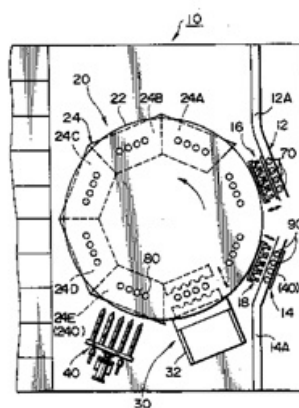
U.S. Patent

Aug. 29, 1995

Sheet 1 of 15

5,445,515

FIG. 1



Family:

Publication number	Publication date	Application number	Application date
DE69311663 D1	19970724	DE19936011663	19931013
DE69311663 T2	19980205	DE19936011663T	19931013
EP0593033 A1	19940420	EP19930116562	19931013
EP0593033 B1	19970618	EP19930116562	19931013
JP2966670 B2	19991025	JP19920302929	19921014
JP3014876 B2	20000228	JP19920302927	19921014
JP3056602 B2	20000626	JP19920302928	19921014
JP3119741 B2	20001225	JP19920302930	19921014
JP6126813 A2	19940510	JP19920302930	19921014
JP6126820 A2	19940510	JP19920302929	19921014
JP6126821 A2	19940510	JP19920302927	19921014
JP6126822 A2	19940510	JP19920302928	19921014
KR0119008 B1	19970930	KR19930021503	19931014
KR100119008 B1	19970930	KR19930021503	19931014
US5445515 A	19950829	US19930134799	19931012
US5641451 A	19970624	US19950403435	19950314

Priority:

JP19920302927 19921014	JP19920302928 19921014	JP19920302929 19921014
JP19920302930 19921014	US19950403435 19950314	US19930134799 19931012

Probable Assignee: NISSEI ASB MACHINE CO LTD

Assignee(s): (std): NISSEI A S B MACHINE KK ; NISSEI ASB MACHINE CO LTD

Assignee(s): NISSEI ASB MACHINE CO LTD KOMORO NAGANO JP ; NISSEI ASB MACHINE KK ; NITSUSEI EE ESU BII KIKAI KK ; NISSEI ASB MACH CO LTD ; NISSEI ASB MACHINE CO

Inventor(s): (std): AMARI FUMYA ; YOKOTA KATSUMASA ; SUZUKI SABURO ; ORIMOTO HIROYUKI ; AMARI FUMIYA ; AMARI HUMIYA

Inventor(s): ORIMOTO HIROYUKI UEDA SHI NAGANO KEN JP ; SUZUKI SABURO UEDA SHI NAGANO KEN JP ; YOKOTA KATSUMASA CHIISAGATA GUN NAGANO KEN JP ; AMARI FUMIYA KOMORO SHI NAGANO KEN JP

Designated states: DE FR GB IT

Title: BASE FOR A MOLD ASSEMBLY

Abstract: Source: US5762981A A base assembly for use as a part of a mold assembly for making containers comprises an adaptor, a base insert (or **base plug**), and a wear ring. The base insert is made from aluminum and has a lower surface positioned on a flat upper supporting surface of the adaptor. The base insert has an upper surface with a ledge surrounding a recessed contoured pattern in the base insert Which pattern corresponds to a base of the **container** to be **formed**. The base insert has an annular side wall portion. The wear ring has an inner annular surface surrounding and engaging the annular side wall portion of the base insert to protect the annular side wall portion. The wear ring comprises a hardened wear resistant steel ring adapted to reinforce the base insert during **formation** of the **container**. The base insert and wear ring are secured to the adaptor by threaded fasteners that pass through threaded apertures in the adaptor, the base insert and the wear ring. By using an aluminum base insert the mass or weight of the base assembly is reduced and the heat transfer characteristics of the base assembly are improved reducing **container forming** cycle time. Further, the wear ring can be hardened by heat treatment which increases the strength of the wear ring above that of steel base inserts eliminating the need for stellite welding to reinforce the base insert.

Classifications:

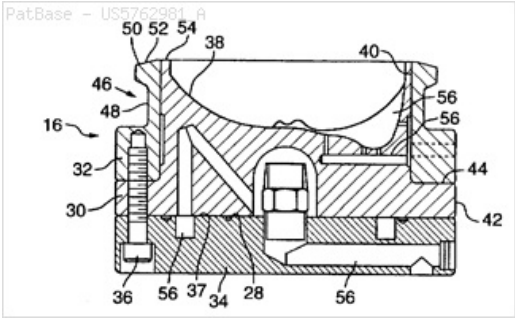
International (IPC 8-9): B29C49/48 (Advanced/Invention);
B29C49/48 (Core/Invention)

International (IPC 1-7): B29C49/48

CPC: B29C49/48 B29C2049/4843 B29C2049/4858 B29C2049/4892
B29C2791/006 B29K2705/02

European: B29C49/48 L29C49/48D4A1 L29C49/48E1 L29C49/48K9
L29C791/00E4 L29K705/02

US: 249/79 425/522 425/526 425/822



Family:

Publication number	Publication date	Application number	Application date
CA2188082 AA	19980310	CA19962188082	19961017
US5762981 A	19980609	US19960709812	19960910

Priority:

CA19962188082 19961017 US19960709812 19960910

Probable Assignee: WENTWORTH MOLD LTD

Assignee(s): (std): NITSCHKE REINHOLD ERNST ; WENTWORTH MOULD AND DIE COMPAN

Assignee(s): WENTWORTH MOULD INC ; WENTWORTH MOLD LTD ; NORTHCASTLE LOAN LP AS AGENT ;
WENTWORTH MOULD AND DIE COMPANY LIMITED ; NORTHCASTLE LOAN LP AGENT AS ; WENTWORTH
MOULD AND DIE CO LTD ; 1589711 ONTARIO INC ; CRAIG WILSON AND CO ; FORTRESS CREDIT
CORP AGENT AS LTD ; FORTRESS CREDIT CORP LTD ; GENERAL ELECTRIC CAPITAL CORP

Inventor(s): (std): NITSCHKE REINHOLD ERNST

Agent(s): CRAIG WILSON AND CO

Title: METHOD AND APPARATUS FOR MANUFACTURING BLOW MOLDED CONTAINERS

Abstract: Source: US2006231985A A method for **forming** a **container** includes receiving a parison, enclosing the parison with a mold that includes a cavity, and inflating the parison in said mold to **form** a blow molded **container** with a moveable region at the cavity. The method further includes repositioning the moveable region before filling the blow molded container.

Classifications:

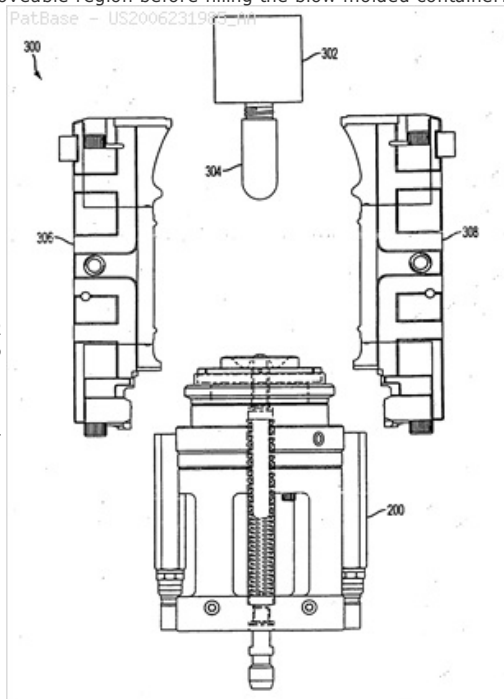
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International (ipc 1-7): B29C49/48 B65D79/00 B65D90/02
CPC: B29B2911/14053 B29B2911/14066 B29B2911/1408 B29B2911/14093 B29B2911/14106 B29B2911/14113 B29B2911/1412 B29B2911/14126 B29B2911/14133 B29B2911/1414 B29B2911/14146 B29B2911/14153 B29C49/482 B29C49/541 B29C2049/4807 B29C2049/4889 B29C2049/4892 B29K2105/26 B29K2995/0067 B65D1/0276 B29C49/4802 B29B2911/1402 B29B2911/14026 B29B2911/14033 B29B2911/1404 B29C49/06 B29C49/22 B29C49/54 B29K2023/06 B29K2023/0633 B29K2023/065 B29K2023/086 B29K2067/00 B29K2077/00 B29L2031/463 B29L2031/7158 B65D23/102 B29C49/48

European: B29C49/48A B29C49/48C B29C49/54 B29C49/54B B65D1/02D2C B65D23/10B L29B911/14B2B L29B911/14B2D L29B911/14B2F L29B911/14B2H L29B911/14B4B L29B911/14B4D L29B911/14B4F L29B911/14B4H L29B911/14B4L L29B911/14B4L2 L29B911/14B4L2B L29B911/14B4L2B2 L29B911/14B4N L29B911/14B4N2 L29B911/14B4N2B L29B911/14B4N2B2 L29C49/06 L29C49/22 L29C49/48A4 L29C49/48K7 L29C49/48K9 L29K105/26 L29K23/06 L29K23/06B5 L29K23/06B9 L29K23/08D L29K67/00 L29K77/00 L29K995/00F16B L29L31/46B L29L31/7158

US: 215/376 215/384 215/44 220/660 220/675 264/312 264/312P

264/523 264/523P 264/531 264/534 264/537 425/522 425/522S 425/525 425/525P 425/528 425/529 425/529S 53/453



Family:

Publication number	Publication date	Application number	Application date
AR053847 AA	20070523	AR2006P101511	20060417
AT453499 E	20100115	AT20060750165T	20060413
AT511978 E	20110615	AT20060173607T	20060413
AU2006236674 AA	20061026	AU20060236674	20060413
AU2006236674 BB	20100923	AU20060236674	20060413
AU2010235932 AA	20101111	AU20100235932	20101021
AU2010235932 BB	20120216	AU20100235932	20101021
AU2012200286 AA	20120209	AU20120200286	20120118
AU2016201235 AA	20160317	AU20160201235	20160226
BRPI0610216 A2	20120925	BR2006PI10216	20060413
CA2604231 AA	20071011	CA20062604231	20060413
CA2604231 C	20111101	CA20062604231	20060413
CL2006000858 A1	20070112	CL20060000858	20060413
CN101160199 A	20080409	CN200680012360	20060413
CN101160199 B	20120321	CN200680012360	20060413
DE602006011449 D1	20100211	DE200660011449T	20060413
DE602006022464 D1	20110721	DE200660022464T	20060413
EP1868790 A2	20071226	EP20060750165	20060413
EP1868790 B1	20091230	EP20060750165	20060413
EP2143546 A2	20100113	EP20090173607	20060413
EP2143546 A3	20100407	EP20090173607	20060413
EP2143546 B1	20110608	EP20090173607	20060413
EP2319679 A2	20110511	EP20100185697	20060413
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EP2319679 B1	20160817	EP20100185697	20060413
ES2588390 T3	20161102	ES20100185697T	20060413
JP2008536717 T2	20080911	JP20080506738T	20060413
JP5303268 B2	20131002	JP20080506738T	20060413
KR100990176 B1	20101029	KR20077023575	20060413
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MX2007012717 A1	20080111	MX20070012717	20060413
NZ563134 A	20091224	NZ20060563134	20060413
PE14672006 A1	20070309	PE20060000391	20060412
PL2319679 T3	20170131	PL20100185697T	20060413
TH154694 A	20160726	TH20151005280	20060412
TH82971 A	20070208	TH20061001715	20060412
TW200711820 A	20070401	TW20060113450	20060414
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US2006231985 AA	20061019	US20060362416	20060227
US2007235905 AA	20071011	US20060399430	20060407
US2010074983 AA	20100325	US20090627922	20091130

US2010181704 AA	20100722	US20100697309	20100201
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US2012266565 AA	20121025	US20120453981	20120423
US2012267381 AA	20121025	US20120453993	20120423
US8017065 BB	20110913	US20060399430	20060407
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US9707711 BB	20170718	US20120453993	20120423
WO06113428 A2	20061026	WO2006US14055	20060413
WO06113428 A3	20070329	WO2006US14055	20060413
ZA200708173 A	20081029	ZA20070008173	20070924

Priority:

AU20060236674	20060413	AU20100235932	20101021	EP20060750165	20060413
EP20090173607	20060413	AU20120200286	20120118	AU20160201235	20160226
US20060399430	20060407	US20050671459	20050415	US20090627922	20091130
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US20100856516	20100813	US20100856484	20100813	WO2006US14055	20060413
US20120453981	20120423	US20120453993	20120423		

Probable Assignee: GRAHAM PACKAGING CO

Assignee(s): (std): GRAHAM PACKAGING CO ; GRAHAM PACKAGING CO LP ; KELLEY PAUL ; TRUDE GREGORY A ; GRAHAM PACKAGING PET TECH ; TRUDE GREGORY

Assignee(s): REYNOLDS GROUP HOLDINGS INC ; BANK OF NEW YORK MELLON ; GRAHAM PACKAGING LP ; GRAHAM PACKAGING COMPANY LP ; GRAHAM PACKAGING PET TECHNOLOGIES INC ; GRAHAM PACKAGING CO LP YORK ; GRAHAM PACKAGING COMPANY L P

Inventor(s): (std): PAUL KELLEY ; TRUDE GREGORY ; TRUDE GREGORY A ; KELLEY PAUL

Inventor(s): KELLEY PAUL TRUDE GREGORY A ; GREGORY A TRUDE ; TRUDE GREGORY A CLARKS SUMMIT ; KELLEY PAUL WRIGHTSVILLE

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PIZZEYS; MBM INTELLECTUAL PROPERTY LAW LLP; CLARKE; RAU SCHNECK AND HUEBNER PATENTANWALTE RECHTSANWALTE PARTGMBB; BENTZ JEAN PAUL; NOVAGRAAF TECHNOLOGIES; LAWRENCE JOHN; CAMPELLO REYES; VENABLE LLP; MILES AND STOCKBRIDGE PC; JAMES T; PATRICK L; BAKER BOTTS LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Abstract: Source: US2011018177A The present invention relates to a base assembly (100) for forming a base portion of a plastic container. The base assembly comprises a base pedestal (104), a **base mold** attached to the base pedestal, a push rod (102) movable between a first position and a second position with respect to the **base mold** to reposition a portion of the plastic container, and an activation mechanism adapted to move the push rod between the first position and the second position.

International (IPC 8-9): B29C33/42 B29C49/06 B29C49/10
B29C49/12 B29C49/30 B29C49/36 B29C49/48
B29C49/54 (Advanced/Invention);

International (IPC 1-7): B29C33/42 B29C49/54

European: B29C 33/42 B29C 49/48A B29C 49/54B L29C 49/06
L29C 49/10 L29C 49/12M3A L29C 49/36 L29C 49/48K9 L29C 49/54D5
L29C 49/70 L29L31/7158

Publication number	Publication date	Application number	Application date
AT555890 E	20120515	AT20070709729T	20070111
AU2007204862 AA	20070719	AU20070204862	20070111
AU2007204862 BB	20101216	AU20070204862	20070111
CA2636781 AA	20080710	CA20072636781	20070111
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CN101370640 A	20090218	CN200780003013	20070111
CN101370640 B	20150218	CN200780003013	20070111
DE602007022419 D1	20120628	DE200760022419T	20070111
EP1976679 A1	20081008	EP20070709729	20070111
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ES2385016 T3	20120717	ES20070709729T	20070111
JP2009523082 T2	20090618	JP20080550422T	20070111
JP5550236 B2	20140716	JP20080550422T	20070111
TH90430 A	20080710	TH20071000094	20070111
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Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PIZZEYS; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; RUSCHKE MADGWICK SEIDE AND KOLLEGEN PATENTANWALTE PATENT ATTORNEY UK PART MBB; MADGWICK PAUL ROLAND ET AL; MADGWICK PAUL ROLAND; KNOBLE YOSHIDA AND DUNLEAVY; BAKER BOTTS LLP

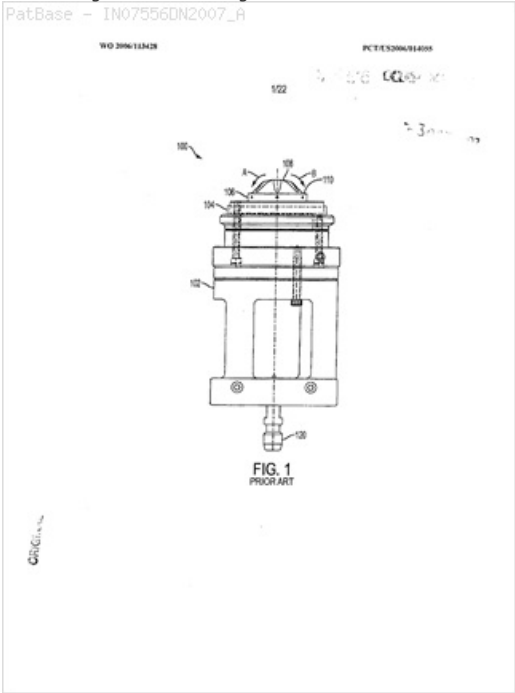
PatBase PDF Export - Page: 6 30/08/2017

Title: SYSTEM AND METHOD FOR MANUFACTURING BLOW MOLDED CONTAINERS HAVING OPTIMAL PLASTIC DISTRIBUTION

Abstract: Source: IN07556DN2007A A method for forming a container includes receiving a parison, enclosing the parison with a mold that includes a cavity, and inflating the parison in said mold to form a blow molded container with a moveable region at the cavity. The method further includes repositioning the moveable region before filling the blow molded container.

Classifications:

International (IPC 1-7): B29C49/54



Family:

Publication number	Publication date	Application number	Application date
IN07556DN2007 A	20080711	IN2007DN07556	20071003

Priority:

US20050399430 20050407

Probable Assignee:

GRAHAM PACKAGING CO L P

Assignee(s):

GRAHAM PACKAGING CO L P

Inventor(s):

GREGORY TRUDE ; PAUL KELLEY

Title: STACKABLE CONTAINER

Abstract: Source: US2012261297A A container which includes a recessed portion and a complimentary top and base of generally undulating design which allow for a stack of such containers to be arranged where the neck of a lower container is placed within the recessed portion of an upper container and the base of the upper container contacts the top of the lower container. The container stack can then be extended to comprise multiple stacks which are positioned on a shipping pallet to provide for improved transportation efficiency of palletized containers.

Classifications:

International (IPC 8-9): B29C49/00 B29C49/28 B29C49/30 B29C49/42 B29C49/48 B29C49/54 B29D22/00 B65D1/00 B65D1/02 B65D19/22 B65D21/032 B65D8/04 (Advanced/Invention);

B29C49/04 B29L31/00 (Advanced/Non-invention)

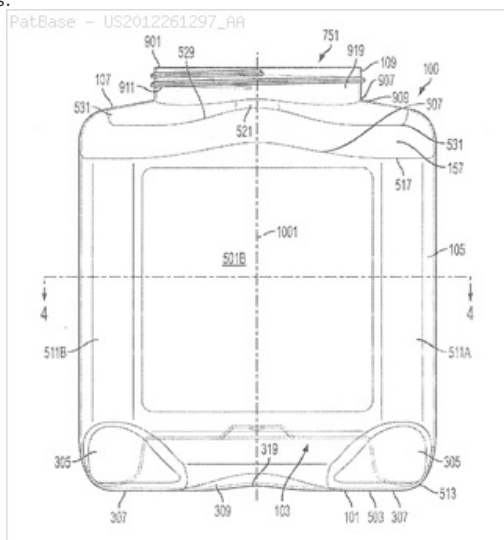
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European: B29C49/48A B29C49/54B B65D1/02D2 L29C49/04 L29C49/48A10

US: 1/1 206/509 220/23.83 220/600 264/531 425/522 425/538 428/34.1 D9/520 D9/560 D9/571 D9/574

Locarno class: 09/01



Family:

Publication number	Publication date	Application number	Application date
CA2774334 AA	20121015	CA20122774334	20120416
CA2791596 AA	20130629	CA20122791596	20121003
MX2012004438 A1	20121026	MX20120004438	20120416
MX2012014586 A1	20130628	MX20120014586	20121213
US2012261297 AA	20121018	US20110087883	20110415
US2012261428 AA	20121018	US20110340263	20111229
US2016031147 AA	20160204	US20150879846	20151009
US2017100874 AA	20170413	US20160389042	20161222
US9193495 BB	20151124	US20110340263	20111229
US9555575 BB	20170131	US20150879846	20151009
USD701769 S1	20140401	US20110391650F	20110511

Priority:

CA20122774334 20120416 CA20122791596 20121003 US20110087883 20110415
 US20110340263 20111229 US20110391650F 20110511 US20150879846 20151009
 US20160389042 20161222

Probable Assignee: PRETIUM PACKAGING L L C

Assignee(s): (std): PRETIUM PACKAGING L L C ; EBLE RAYMOND C

Assignee(s): GENERAL ELECTRIC CAPITAL ADMINISTRATIVE AGENT AS CORP ; ANTARES CAPITAL LP
 ADMINISTRATIVE AGENT AS ; PRETIUM PACKAGING LLC ; PVC CONTAINER CORP ; WILMINGTON
 TRUST NATIONAL ASSOCIATION ADMINISTRATIVE AGENT AS

Inventor(s): (std): EBLE RAYMOND C

Inventor(s): RAYMOND C EBLE

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; LEWIS RICE LLC; LEWIS RICE AND FINGERSH LC