

1) Family number: 68730890 (US2019177051A)

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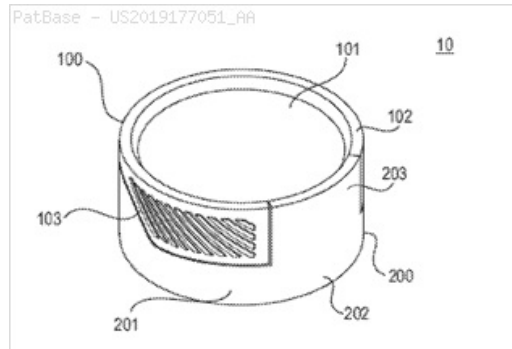
Title: LOCKABLE CLOSURE

Abstract: Aspects of the present invention are directed to a child-proof cap that is easier to open for adults than traditional child-resistant closures, yet remains resistant to opening by children. The child-proof cap may be opened in a pull-and-flip motion with a single hand.

Classifications:

International (IPC 8-9): B65D41/00 B65D41/04 B65D41/10 B65D41/16 B65D41/18 B65D41/30 B65D41/32 B65D41/34 B65D41/60 B65D47/08 B65D50/04 (Advanced/Invention)

CPC: B65D2251/023 B65D2251/1058 B65D41/18 B65D41/325 B65D41/3423 B65D50/045 B65D47/08 B65D50/046 B65D47/0809 B65D2401/25 B65D41/00 B65D41/04 B65D41/10 B65D41/16 B65D41/30 B65D41/60 B65D50/06 B65D2215/04

US: 1/1**Family:**

Publication number	Publication date	Application number	Application date
AU2017315380 AA	20190307	AU20170315380	20170824
AU2017315380 BB	20200611	AU20170315380	20170824
CN109789950 A	20190521	CN201780059742	20170824
CO20190001641 A2	20190521	CO20190001641	20190222
EP3504128 A1	20190703	EP20170844386	20170824
EP3504128 A4	20200617	EP20170844386	20170824
US2019177051 AA	20190613	US20170327471	20170824
WO18039413 A1	20180301	WO2017US48336	20170824
WO18039413 A8	20190418	WO2017US48336	20170824

Priority:

IN201611028842 20160824 US20170327471 20170824 WO2017US48336 20170824

Probable Assignee: GLAXOSMITHKLINE PLC

Assignee(s): (std): GLAXOSMITH CONSUME HEALTHCARE HOLDINGS US LLC ; GLAXOSMITHKLINE CONSUME HEALTHCARE HOLDINGS US LLC ; GLAXOSMITHKLINE CONSUMER HEALTHCARE HOLDINGS US LLC ; GLAXOSMITHKLINE PLC

Inventor(s): (std): SABHERWAL AMIT**Agent(s):** DAVIES COLLISON CAVE PTY LTD; GUNDEL ISABELLE; STEIN NORA L ET AL

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

2) Family number: 20442132 (US5427260A)

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Title: CLOSURE WITH INSERTABLE TAMPER INDICATOR

Abstract: A tamper-evident dispensing closure is provided with a base suitable for attachment to a container. The base has a deck defining a dispensing orifice and an anchor-receiving opening with an adjacent anchor-retention structure. A lid is provided to close the orifice and defines an aperture spaced from the dispensing orifice when the lid is seated on the base. A tamper-indicating element is provided with an anchor retained in the opening below the deck in the base. The element has a first segment extending from the anchor through the base opening, between the base and lid, and through the lid aperture. A second segment extends from the first segment and is disposed adjacent a portion of the lid to inhibit movement of the lid from the closed position. A first frangible connection joins the first and second segments at the lid aperture. Preferably, a second frangible connection joins the first segment to the anchor at the anchor-receiving opening in the base.

Classifications:

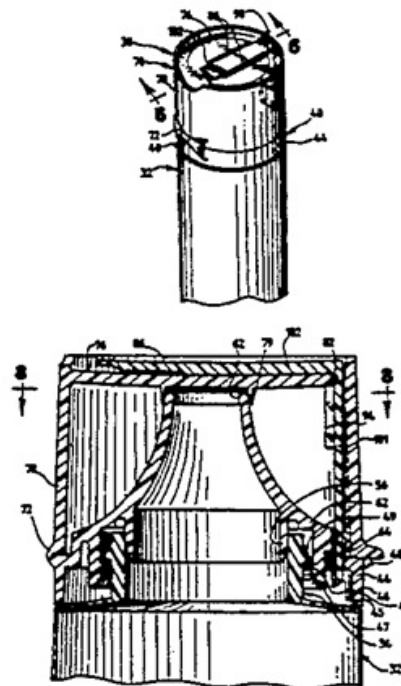
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International (IPC 1-7): B65D45/00 B65D47/08 B65D51/18 B65D51/26 B65D55/02 B65D55/06

CPC: B65D47/0809 B65D55/06 B65D2401/00

European: B65D47/08B1 B65D55/06 L65D101/00

US: 215/237 215/253 215/254 220/214 222/153.07 222/541 222/541.9 222/556

**Family:**

Publication number	Publication date	Application number	Application date
AU199510416 A1	19960502	AU19950010416	19941021
AU682233 B2	19970925	AU19950010416	19941021
CA2198137 AA	19970220	CA19942198137	19941021
DE69423246 D1	20000406	DE19946023246	19941021
DE69423246 D1	20000406	DE19946023246T	19941021
DE69423246 T2	20000713	DE19946023246T	19941021
EP0784576 A1	19970723	EP19950901027	19941021
EP0784576 A4	19980304	EP19950901027	19941021
EP0784576 B1	20000301	EP19950901027	19941021
ES2143034 T3	20000501	ES19950901027T	19941021
US5427260 A	19950627	US19940321328	19941011
WO9611150 A1	19960418	WO1994US12121	19941021

Priority:

US19930098600 19930728 US19940321328 19941011 WO1994US12121 19941021

Probable Assignee: SEAGUIST CLOSURES FOREIGN INC

Assignee(s): (std): APTARGROUP INC

Assignee(s): MUELLER BRUCE M ; ROWLANDS WILLIAM O ; SEAGUIST CLOSURES FOREIGN INC ; APTAR GROUP INC

Inventor(s): (std): BRUCE M MUELLER ; MUELLE BRUCE M ; MUELLER BRUCE M ; MUELLER M ; ROWLANDS O ; ROWLANDS WILLIAM O ; WILLIAM O ROWLANDS

Agent(s): PHILLIPS ORMONDE FITZPATRICK; FETHERSTONHAUGH AND CO

Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT LU MC NL PT SE

3) Family number: 32278803 (US2005218105A)

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Title: SELF-OPENING CAP MECHANISM

Abstract: A self-opening mechanism for a cap is capable of maintaining a restoring force of an elastic member and easily and tightly locking the cap and also releasing the locking. The mechanism has an elastic member (4) that is attached to an inner side of a hinge (3), and also a stopper block (7) is provided in a direction in which the elastic member (4) deforms so that the elastic member (4) deforms to an S-shaped form. Engagement pieces (10, 10a) in the cap (2) side are inserted into and fixed between hooks (16, 16a) of a push piece (18) and a protruding engagement pieces (15, 15a) to lock the cap more tightly. As the hook (16, 16a) moves upward and moves away from the protruding engagement pieces (15, 15a) when the push piece (18) is pressed, the engagement pieces (10, 10a) are released and a cover (2) automatically opens due to the restoring force of the elastic member (4).

Classifications:

International (ipc 8-9): B65D39/00 B65D43/22 B65D43/26

B65D47/08 (Advanced/Invention);

B65D39/00 B65D43/00 B65D43/14 B65D47/08 (Core/Invention)

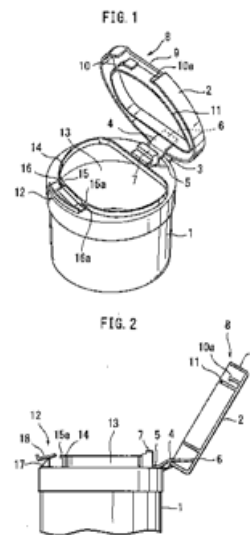
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B65D43/24 B65D47/08

CPC: B65D43/22 B65D47/0828 B65D2251/1058 B65D2251/1075

European: B65D43/22 B65D47/08B3 L65D251/10D5 L65D251/10F1

US: 215/237 220/324 220/810 220/829 220/835

**Family:**

Publication number	Publication date	Application number	Application date
■ CN100558605 C	20091111	CN200510059589	20050330
■ CN1676435 A	20051005	CN200510059589	20050330
■ DE602005007407 D1	20080724	DE200560007407T	20050331
■ EP1582476 A1	20051005	EP20050252053	20050331
■ EP1582476 B1	20080611	EP20050252053	20050331
■ JP2005289426 A2	20051020	JP20040105467	20040331
■ JP4658507 B2	20110323	JP20040105467	20040331
■ US2005218105 AA	20051006	US20050092337	20050329
■ US7000792 BB	20060221	US20050092337	20050329

Priority:

JP20040105467 20040331

Probable Assignee: TAKEMOTO YOKI CO LTD**Assignee(s):** (std): ARAI YOSHITAKA ; TAKEMOTO YOKI CO LTD ; TAKEMOTO YOKI KK**Assignee(s):** TAKEMOTO YOKI CO**Inventor(s):** (std): ARAI YOSHITAKA ; YOSHITAKA ARAI**Agent(s):** KING JAMES BERTRAM; MCGLEW AND TUTTLE PC**Designated states:** DE FR GB IT**4) Family number: 50951732 (US2014008381A)**

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Title: LIVING HINGE

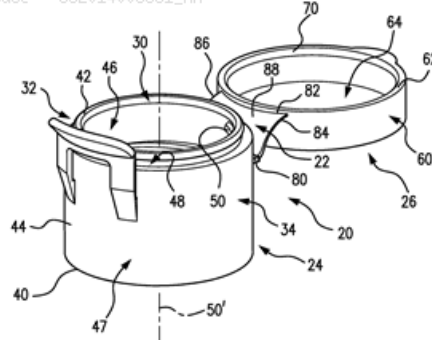
Abstract: A system (20; 302) comprising the unitarily molded single-piece combination of: a first portion (24; 324); a living hinge (22; 322); and a second portion (26; 326) coupled by the living hinge to the first portion and shiftable between a first condition and second condition via rotation about the living hinge. The living hinge comprises: a first end (80) at the first portion; and a second end (82) at the second portion, in the as-molded condition the second end is spaced upward from the first end.

Classifications:**International (IPC 8-9):** B65D43/16 B65D47/08

E05D1/02 (Advanced/Invention)

CPC: E05D1/02 B65D43/168 B65D47/0809 B65D2543/00101 B65D2543/00351 B65D2543/00537**European:** B65D43/16C3 B65D47/08B1 L65D543/00Y1F2D

L65D543/00Y2D L65D543/00Y8D3

US: 1/1 220/810 264/242 49/386 49/397**Family:**

Publication number	Publication date	Application number	Application date
■ US2014008381 AA	20140109	US20110808102	20110929
■ US9290973 BB	20160322	US20110808102	20110929
■ WO12050949 A2	20120419	WO2011US53858	20110929

Priority:

US20100387965P 20100929 US20110808102 20110929 WO2011US53858 20110929

Probable Assignee: PLASTEK IND INC**Assignee(s):** (std): PLASTEK IND INC ; QUINN H STEPHEN**Assignee(s):** PLASTEK INDUSTRIES INC ; QUINN H**Inventor(s):** (std): QUINN H STEPHEN**Inventor(s):** QUINN H**Agent(s):** BACHMAN AND LAPOINTE PC; SLATE WILLIAM B

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

5) Family number: 51273904 (JP2012096808A)

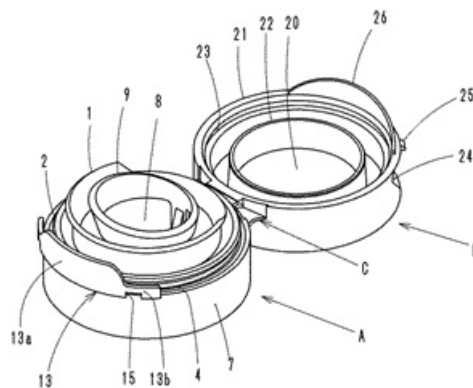
© PatBase

Title: FRAUDULENCE PREVENTING CAP

Abstract: PROBLEM TO BE SOLVED: To provide a fraudulence preventing cap which allows fraudulence to be confirmed by a sealing member provided successively to a hinge cap in a separable fashion, maintains a lid closed state more strongly and prevents an upper lid from being easily opened even when force is applied thereto. SOLUTION: The hinge cap includes a cap body mounted on a container mouth part and the upper lid connected to the cap body by a hinge so as to be opened and closed. In the hinge cap, the cap body includes a fitting cylinder part and an outer peripheral wall having the hinge and the sealing member provided successively to prescribed positions of an outer peripheral upper part of the cap body, the sealing member is provided successively to the outer peripheral wall at an inner peripheral lower end so as to be broken and has a notched part formed in a prescribed position, the upper lid has a top wall and an outer cylinder, the hinge is provided successively to a prescribed position of a lower part of the outer cylinder, an engagement protrusion inserted into the notched part of the sealing member and engaged therewith is disposed on a side opposite from the hinge, and a tongue piece inserted between an external cylinder and the outer peripheral wall of the cap body when the upper lid is closed centering on a side opposite from the hinge is provided in a hung fashion on a lower surface of the outer cylinder.

Classifications:**International (IPC 8-9):** B65D43/16 B65D55/06 (Advanced/Invention)

PatBase - JP2012096808_A2

**Family:**

Publication number	Publication date	Application number	Application date
JP2012096808 A2	20120524	JP20100243647	20101029

Priority:

JP20100243647 20101029

Probable Assignee: YOSHINO KOGYOSHO CO LTD**Assignee(s):** (std): YOSHINO KOGYOSHO CO LTD**Inventor(s):** (std): SHINOZAKI NATSUO**6) Family number: 55923012 (CN203461284U)**

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Title: DAMP-PROOF BOX SEALED BY SPRING COVER

Abstract: The utility model relates to a packing box, in particular to a damp-proof box sealed by a spring cover. The damp-proof box sealed by the spring cover comprises a box body, a cover frame buckled on the box body and a box cover hinged to the cover frame, wherein the cover frame is provided with a powder taking port allowing a toothbrush to extend in; a

Classifications:

PatBase - CN203461284 U



Priority:

Probable Assignee:

GAO NAIYUN

Assignee(s): (std):

GAO NAIYUN

Inventor(s): (std):

GAO NAIYUN

Abstract: A child resistant dispensing closure of the type comprising a cap base member and a cap lid member. The cap base member is provided with a dispensing opening, a slot, and a cap locking bead adapted to engage a container locking bead provided on the neck of a container. The container locking bead is provided with an interruption which is adapted to be brought into and out of alignment with the slot by manually rotating the cap base member with respect to the neck. The cap lid member is provided with a locking prong adapted to be received within the slot when the cap lid member assumes a closed position wherein it closes off the dispensing opening. The locking prong, when the cap lid member is in the closed position, is adapted to be engaged beneath the continuous portion of the container locking bead. The cap lid member is adapted to thereafter assume the open position by a user manually rotating the cap base member with respect to the neck so as to bring the slot into alignment with the interruption in the container locking bead and then manually moving the cap lid member away from the cap base member so as to withdraw the locking prong from the slot, thereby presenting an unobstructed dispensing opening. Alignment of the slot with the interruption in the bottle bead may be indicated by the alignment of visible indicia provided on the dispensing closure and the neck of the container.

Classifications:

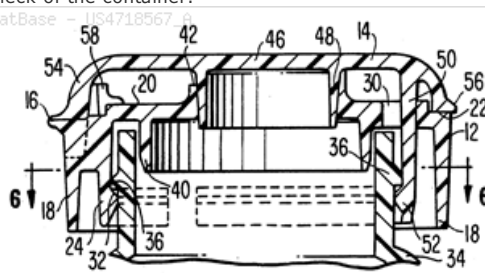
Pat.Base - US4718567 A

International (IPC 1-7): B65D47/08 B65D55/02

CPC: B65D47/305 B65D50/06

European: B65D47/30B B65D50/06

US: 215/206 215/211 215/216 215/224 215/237 222/153 222/153.14
222/534 222/536 222/546 222/556



Publication number	Publication date	Application number	Application date
AT72799 E	19920315	AT19880302923T	19880331
AU198813841 A1	19881006	AU19880013841	19880329
AU595698 B2	19900405	AU19880013841	19880329

CA1295970 A1	19920218	CA19880563074	19880331
DE3868522 D1	19920402	DE19883868522	19880331
EP0285433 A1	19881005	EP19880302923	19880331
EP0285433 B1	19920226	EP19880302923	19880331
ES2029321 T3	19920801	ES19880302923T	19880331
GR3004605 T3	19930428	GR19920400928T	19920515
US4718567 A	19880112	US19870032562	19870401
US4776475 A	19881011	US19870139745	19871230

Priority:

US19870032562 19870401 US19870139745 19871230 CA19880563074 19880331
EP19880302923 19880331

Probable Assignee: POLYTOP CORP

Assignee(s): (std): POLYTOP CORP

Assignee(s): LA VANGE DONALD ; POLYTOP CORP SLATERSVILLE R I US

Inventor(s): (std): DONALD LA VANGE ; LA VANGE DONALD ; VANGE DONALD LA

Inventor(s): LA VANGE DONALD RHODE ISLAND 02864 US

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON;
SMART AND BIGGAR

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

8) Family number: 28335042 (US2005133475A)

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Title: SAFETY CAP AND CONTAINER WITH SAFETY CAP

Abstract: There is provided a safety cap which requires manual dexterity for a cover opening operation and is difficult for an infant or the like to open a cover, in which a safety function can be released, as necessary. In the safety cap configured such that a part of an outer circumferential wall (11) of a cap main body (2) is formed on an inward elastically deformable operating plate (6), a pair of engaging means (7) and (22) engageable with each other are provided on a peripheral wall of a cover (2) connected to the upper portion of the cap main body (2) via a hinge and at the upper portion of the operating plate (6), respectively, and the engagement is released by elastically deforming the operating plate inward so as to open the cover, the operating plate (6) can be fixed to the cap main body (2) or a neck portion (52) of the container except for the operating plate by the fixing member (14) in the inward deformed state.

Classifications:

International (ipc 8-9): B65D1/02 B65D43/14 B65D43/16
B65D43/22 B65D47/08 B65D50/04 B65D55/02 (Advanced/Invention);
B65D43/14 B65D47/08 B65D50/00 (Core/Invention)

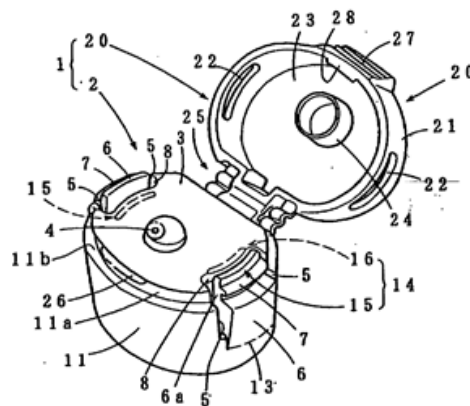
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B65D55/02

CPC: B65D50/046 B65D55/02 B65D47/0814 B65D2251/1058
B65D2251/20 C04B38/009 C04B38/08

European: B65D47/08B1A B65D50/04F B65D55/02 C04B38/00P
C04B38/08 L65D251/10D5 L65D251/20

US: 215/216 215/221 215/237 215/245 215/43 215/43P 220/254.3
220/259.1 220/259.100S 220/326 220/835 220/835S 222/556
222/556S

PatBase - US2005133475_AA



Family:

Publication number	Publication date	Application number	Application date
DE60243300 D1	20120906	DE20026043300	20020830
EP1505004 A1	20050209	EP20020770181	20020830
EP1505004 A4	20090429	EP20020770181	20020830
EP1505004 B1	20120711	EP20020770181	20020830
JP2003072800 A2	20030312	JP20010261788	20010830
JP2003072801 A2	20030312	JP20010264559	20010831
JP4027626 B2	20071226	JP20010261788	20010830
JP4039547 B2	20080130	JP20010264559	20010831
US2005133475 AA	20050623	US20050496964	20050207
US2011062107 AA	20110317	US20100923606	20100929
US8469212 BB	20130625	US20100923606	20100929
WO03018422 A1	20030306	WO2002JP08831	20020830

Priority:

JP20010261788 20010830 JP20010264559 20010831 EP20020770181 20020830
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US20100923606 20100929

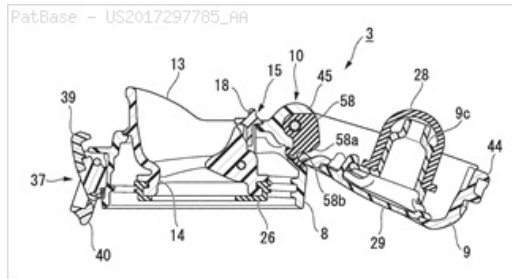
Probable Assignee: YOSHINO KOGYOSHO CO LTD

Assignee(s): (std): YOSHINO KOGYOSHO CO LTD ; MIZUSHIMA HIROSHI ; IIZUKA SHIGEO ; GOTO TAKAYUKI

Assignee(s): YOSHINO KOGYOSHO CO

Inventor(s): (std): GOTO TAKAYUKI ; IIZUKA SHIGEO ; MIZUSHIMA HIROSHI ; IIZUKA SHIGEO

Inventor(s): MIZUSHIMA HIROSHI O YOSHINO KOGYOSHO CO LTD KOTO KU ; IIZUKA SHIGEO O YOSHINO

**Family:**

Publication number	Publication date	Application number	Application date
■ CA2964092 AA	20171013	CA20172964092	20170411
■ CN107284836 A	20171024	CN201710224583	20170407
■ CN107284836 B	20200417	CN201710224583	20170407
■ HK1241832 A1	20180615	HK20180101152	20180125
■ JP2017190156 A2	20171019	JP20160080360	20160413
■ JP6649838 B2	20200219	JP20160080360	20160413
■ KR101879987 B1	20180718	KR20170044305	20170405
■ KR20170117320 A	20171023	KR20170044305	20170405
■ TW201736212 A	20171016	TW20170109601	20170322
■ TWI605986 B	20171121	TW20170109601	20170322
■ US2017297785 AA	20171019	US20170484578	20170411

Priority:

JP20160080360 20160413 KR20170044305 20170405

Probable Assignee: THERMOS KK

Assignee(s): (std): CROWN MFG CORP ; THERMOS KK ; THERMOS LLC ; THERMOS KOREA CO LTD ; THERMOS CHINA HOUSEWARES CO LTD

Assignee(s): THERMOS KOREA CO ; THERMOS K K ; MARUYAMA TAKAHIRO ; MATSUYAMA SHIN ; THERMOS CHINA HOUSEWARES CO

Inventor(s): (std): MATSUYAMA MAKOTO ; SHIN MATSUYAMA ; TAKAHIRO MARUYAMA ; MATSUYAMA SHIN ; MARUYAMA TAKAHIRO

Agent(s): GOWLING WLG CANADA LLP; SHIGA INT PATENT OFFICE