

Search history

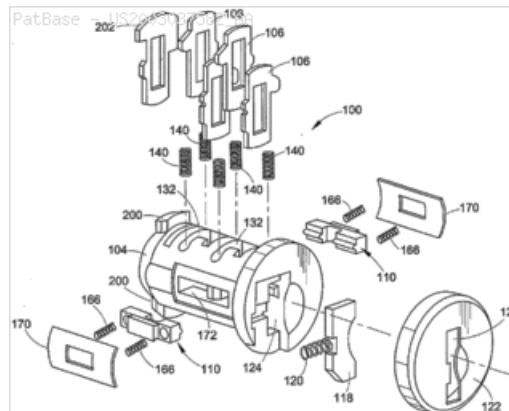
Search 1: FT=(REKEYABLE~ AND LOCK~ AND CYLINDER~) (Results 375)
Search 2: FT=(REKEYABLE~ AND LOCK~ AND CYLINDER~) AND IC=(E05B) (Results 302)
Search 3: FT=(REKEYABLE~ AND LOCK~ AND CYLINDER~ AND RESISTANCE~ AND TORSION TORQUE) AND IC=(E05B) (Results 0)
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Search 5: FT=(REKEYABLE~ AND LOCK~ AND CYLINDER~ AND RESISTANCE~ AND TORSION~ AND IMPROVED) AND IC=(E05B) (Results 3)
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Search 8: FT=(REKEYABLE#~ AND LOCK#~ AND CYLINDER~ AND TORSION~ AND IMPROVED) AND IC=(E05B) (Results 0)
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Search 10: FT=(REKEYABLE~ AND LOCK~ AND CYLINDER~ AND MECHANISM~ AND TORSION~ AND IMPROVED) AND IC=(E05B) (Results 9)
Search 11: FT=(REKEYABLE~ AND LOCK~ AND CYLINDER~ AND MECHANISM) AND IC=(E05B) (Results 210)
Search 12: FT=(REKEYABLE~ AND LOCK~ AND CYLINDER~ AND MECHANISM~ AND TORQUE) AND IC=(E05B) (Results 39)

Abstract: The invention provides a pick-resistant **locking mechanism** with wafer tumblers, sidebars and an interchangeable **cylinder** that allows re-keying of the **lock**. The sidebars have projections with beveled sides that engage with cavities in the **lock shell** when rotational **torque** is applied to the **lock** in the absence of the correct key. A sidebar of the **lock** contacts two, nonadjacent wafer tumblers. The wafer tumblers have indentations that engage cavities in the **lock shell** when rotational **torque** is applied during picking of the **lock**. Tolerance between sidebars and the **lock shell** is less than the tolerance between tumblers and the **lock shell**. The tumbler springs are not accessible from the keyway of the **lock** and are more powerful than the sidebar springs.

International (IPC 8-9): E05B29/00 E05B29/04
E05B9/08 (Advanced/Invention);
E05B29/00 E05B9/00 (Core/Invention)

CPC: E05B29/00 E05B9/086 E05B29/0066 Y10T70/7616 Y10T70/7599
Y10T70/765

US: 70/369 70/492 70/495 70/495P



Publication number	Publication date	Application number	Application date
US2003037582 AA	20030227	US20020187727	20020702
US2004159136 AA	20040819	US20040707816	20040114
US2006032280 AA	20060216	US20050226820	20050914
US6978647 BB	20051227	US20020187727	20020702
US7225651 BB	20070605	US20040707816	20040114

US20010302643P	20010702	US20020187727	20020702	US20030439956P	20030114
US20040707816	20040114	US20050226820	20050914		

Assignee(s): (std): MASTER LOCK CO

Inventor(s): (std): WELCH JAMES L ; EDWARDS BILLY B ; EDWARDS JR BILLY B ; EDWARDS BILLY B JR

Inventor(s): EDWARDS ; JR BILLY B ; WELCH JAMES ; EDWARDS BILLY ; EDWARDS BILLY BJR

Agent(s): CALFEE HALTER AND GRISWOLD LLP

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Patent	Date recorded	Event group	Code	Event	Details
US2003037582 AA	20030227	LSPB	+	published / reissued	
US2004159136 AA	20040819	LSPB	+	published / reissued	
US2004159136 AA	20061206	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MASTER LOCK COMPANY LLC, WISCONSIN OLDPARTY : CHANGE OF NAME; ASSIGNOR:MASTER LOCK COMPANY; REEL/FRAME:018589/0724 EFFECTIVE DATE : 20050815
US2004159136 AA	20061206	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MASTER LOCK COMPANY LLC,WISCONSIN OLDPARTY : CHANGE OF NAME; ASSIGNOR:MASTER LOCK COMPANY; REEL/FRAME:018589/0724 EFFECTIVE DATE : 20050815
US2006032280 AA	20060216	LSPB	+	published / reissued	
US2006032280 AA	20060620	LSWD	-ABD3	Abandoned -	

				- Failure to Respond to an Office Action	
US6978647 BB	20051227	LSGT	+	granted / extensions (spc, cpc, pte)	
US6978647 BB	20051207	LSGT	PAT1	Patented Case	
US6978647 BB	20061025	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MASTER LOCK COMPANY LLC, WISCONSIN OLDPARTY : CHANGE OF NAME; ASSIGNOR:MASTER LOCK COMPANY; REEL/FRAME:018420/0883 EFFECTIVE DATE : 20050815
US6978647 BB	20090629	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6978647 BB	20130627	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6978647 BB	20170627	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6978647 BB	20220702	PEXP		Calculated Patent Term Expiry	
US7225651 BB	20070605	LSGT	+	granted / extensions (spc, cpc, pte)	
US7225651 BB	20040430	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MASTER LOCK COMPANY, WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:EDWARDS, BILLY B.; WELCH, JAMES L.; REEL/FRAME:014587/0138; SIGNING DATES FROM 20040121 TO 20040128
US7225651 BB	20070516	LSGT	PAT1	Patented Case	
US7225651 BB	20101206	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7225651 BB	20141205	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7225651 BB	20181205	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7225651 BB	20240114	PEXP		Calculated Patent Term Expiry	

Title: UNIVERSAL **LOCK CYLINDER**

Abstract: A **lock** assembly includes a universal core assembly, which provides multiple engagement features to permit the core assembly to be mounted into various **lock** housings. A **torque** blade or a spindle assembly is received within a rear segment of the **lock** core to engage one of the engagement members depending upon the desire **lock** within which the core is to be mounted.

Classifications:

International (ipc 8-9): E05B15/00 E05B15/02 E05B17/00 E05B17/04 E05B27/00 E05B29/00 E05B63/00 E05B9/00

E05B9/04 (Advanced/Invention);

E05B15/00 E05B17/00 E05B63/00 E05B9/00 (Core/Invention)

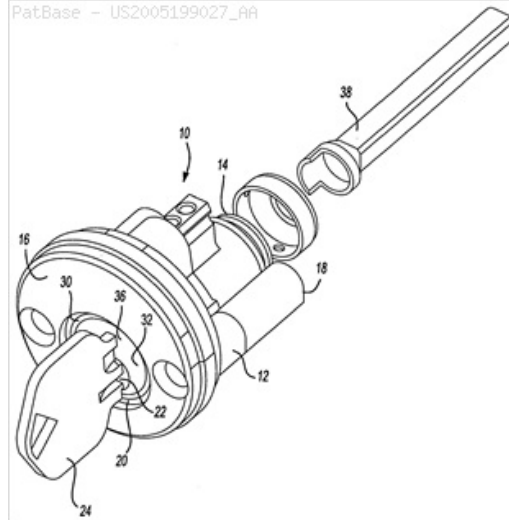
International (ipc 1-7): E05B15/02 E05B15/10 E05B17/04 E05B27/00 E05B9/00 E05B9/04

CPC: Y10T70/7605 Y10T70/7638 Y10T70/7684 Y10T70/7706 E05B17/041 E05B9/086 E05B17/04

European: E05B17/04B E05B9/08C2 P05B17/04

US: 70/367 70/375 70/375S 70/379.00R 70/379.00RP 70/379R 70/493

PatBase - US2005199027_AA

**Family:**

Publication number	Publication date	Application number	Application date
AR049156 AA	20060705	AR2005P100896	20050308
AU2005220815 AA	20050922	AU20050220815	20050304
BRPI0508239 A	20070717	BR2005PI08239	20050304
CA2557478 AA	20060824	CA20052557478	20050304
CL2005000487 A1	20060324	CL20050000487	20050308
CN1926296 A	20070307	CN200580006746	20050304
ECSP066843 A	20070126	EC2006SP06843	20060914
GT200500005 U	20061214	GT20050000005U	20050301
IN04933DN2006 A	20070817	IN2006DN04933	20060828
JP2007528461 T2	20071011	JP20070502885T	20050304
KR20060129492 A	20061215	KR20067019415	20050304
MXPA06010242 A1	20070110	MX2006PA10242	20050304
MY146834 A	20120928	MY20050000696	20050223
PA8625601 A1	20050928	PA20050086256	20050309
TH71194 A	20051013	TH20051000827	20050225
TW200535312 A	20051101	TW20050105992	20050301
US2005199027 AA	20050915	US20040797884	20040310
US8127579 BB	20120306	US20040797884	20040310
WO05086745 A2	20050922	WO2005US07277	20050304
WO05086745 A3	20060323	WO2005US07277	20050304

Priority:

US20040797884 20040310 WO2005US07277 20050304

Probable Assignee: SPECTRUM BRANDS INC

Assignee(s): (std): MANNELLA EUGENIO ; NEWFREY LLC

Assignee(s): NATIONAL MFG CO ; PRICE PFISTER INC ; ROV HOLDING INC A CORP OF DELAWARE ; ROVCAL INC ; ROVCAL INC A CORP OF CALIFORNIA ; RUSSELL HOBBS INC A CORP OF DELAWARE ; SALIX ANIMAL HEALTH LLC ; RUSSELL HOBBS INC ; ROYAL BANK OF CANADA ; SPECTRUM BRANDS INC ; WELLS FARGO BANK NATIONAL ASSOCIATION ; SEED RESOURCES LLC ; SPECTRUM BRANDS INC A CORP OF DELAWARE ; SPECTRUM BRANDS INC SUCCESSOR IN INTEREST TO ROVCAL INC AS ; TELL MFG INC ; TETRA HOLDING US INC A CORP OF DELAWARE ; TETRA HOLDINGS US INC ; UNITED IND CORP ; UNITED IND SUCCESSOR IN INTEREST TO LIQUID HOLDING CO INC AS CORP ; UNITED PET GROUP INC ; UNITED PET GROUP INC A CORP OF DELAWARE ; TETRA HOLDING US INC ; TOASTMASTER INC ; APPLICA CONSUMER PRODUCTS INC ; APPLICA CONSUMER PRODUCTS INC A CORP OF FLORIDA ; BANK OF AMERICA NA AGENT AS ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; KWIKSET CORP ; LIQUID HOLDING CO INC

Inventor(s): (std): EUGENIO MANNELLA ; MANNELLA EUGENIO

Inventor(s): MANNELLA ; EUGENIO

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BLAKE CASSELS AND GRAYDON LLP; HARNECKER; OHTSUKA FUMIAKI; SUDA HIROYUKI; KUMAKURA YOSHIO; NISHIJIMA TAKAKI; CARLSON GASKEY AND OLDS PC

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 KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE 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

Legal status (INPADOC)
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Patent	Date recorded	Event group	Code	Event	Details
AR049156 AA	20060705	LSPB	+	published / reissued	
AR049156 AA	20121206	LSWD	-FB	SUSPENSION OF GRANTING PROCEDURE	
AU2005220815 AA	20050922	LSPB	+	published / reissued	
AU2005220815 AA	20100930	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
BRPI0508239 A	20070717	LSPB	+	published / reissued	
BRPI0508239 A	20110329	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	TEXT : REFERENTE A 5A E 6A ANUIDADE(S).
BRPI0508239 A	20120313	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	TEXT : REFERENTE A 8.6 NA RPI 2099 DE 29/03/2011.
CA2557478 AA	20060824	LSPB	+	published / reissued	
CA2557478 AA	20100304	LSLE	-FZDE	DEAD	
CL2005000487 A1	20060324	LSPB	+	published / reissued	
CN1926296 A	20070307	LSPB	+	published / reissued	
CN1926296 A	20070307	LSPB	+C06	PUBLICATION	
CN1926296 A	20110727	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
ECSP066843 A	20070126	LSPB	+	published / reissued	
GT200500005 U	20061214	LSGT	+	granted / extensions (spc, cpc, pte)	
IN04933DN2006 A	20070817	LSPB	+	published / reissued	
JP2007528461 T2	20071011	LSPB	+	published / reissued	
JP2007528461 T2	20080112	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20080111
JP2007528461 T2	20100914	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20100913
JP2007528461 T2	20110301	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20110228
KR20060129492 A	20061215	LSPB	+	published / reissued	
KR20060129492 A	20100406	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR EXAMINATION	

MXPA06010242 A1	20070110	LSPB	+	published / reissued	
MXPA06010242 A1	20131129	LSWD	-FA	ABANDONMENT OR WITHDRAWAL	
MY146834 A	20120928	LSGT	+	granted / extensions (spc, cpc, pte)	
MY146834 A	20250223	PEXP		Calculated Patent Term Expiry	
PA8625601 A1	20050928	LSPB	+	published / reissued	
TH71194 A	20051013	LSPB	+	published / reissued	
TW200535312 A	20051101	LSPB	+	published / reissued	
US2005199027 AA	20050915	LSPB	+	published / reissued	
US8127579 BB	20120306	LSGT	+	granted / extensions (spc, cpc, pte)	
US8127579 BB	20040310	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NEWFREY LLC, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MANNELLA, EUGENIO; REEL/FRAME:015078/0129 EFFECTIVE DATE : 20040217
US8127579 BB	20120215	LSGT	PAT1	Patented Case	
US8127579 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US8127579 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US8127579 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US8127579 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845

					EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWISET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK,

					NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
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US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001

					EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8127579 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US8127579 BB	20160306	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US8127579 BB	20160404	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US8127579 BB	20160426	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160306
US8127579 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US8127579 BB	20290408	PEXP		Calculated Patent Term Expiry (PTA 1855 days)	
WO05086745 A2	20050922	LSPB	+	published /	

WO05086745 A3	20060821	LSNP	+WWE	reissued WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005220815 COUNTRY OF REF DOCUMENT : AU
WO05086745 A3	20060824	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2557478 COUNTRY OF REF DOCUMENT : CA
WO05086745 A3	20060828	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 4933/DELNP/2006 COUNTRY OF REF DOCUMENT : IN
WO05086745 A3	20060901	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200580006746.2 COUNTRY OF REF DOCUMENT : CN
WO05086745 A3	20060907	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2005220815 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20050304 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO05086745 A3	20060907	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007502885 COUNTRY OF REF DOCUMENT : JP
WO05086745 A3	20060907	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005220815 COUNTRY OF REF DOCUMENT : AU
WO05086745 A3	20060908	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12006501760 COUNTRY OF REF DOCUMENT : PH
WO05086745 A3	20060908	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2006/010242 COUNTRY OF REF DOCUMENT : MX
WO05086745 A3	20060912	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO05086745 A3	20060912	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : DE
WO05086745 A3	20060921	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020067019415 COUNTRY OF REF DOCUMENT : KR
WO05086745 A3	20061002	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 06099256 COUNTRY OF REF DOCUMENT : CO
WO05086745 A3	20061215	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020067019415 COUNTRY OF REF DOCUMENT : KR
WO05086745 A3	20070509	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO05086745 A3	20070717	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0508239 COUNTRY OF REF DOCUMENT : BR

Title: KEY HAVING MOVABLE MEMBERS AND **LOCKING** SYSTEM

Abstract: An illustrative key includes first and second substantially vertical blades being connected by a substantially horizontal connecting member such that an axial channel is formed between the two blades. Members may be slidably coupled to the connecting member such that the members are moveable into the channel.

Classifications:

International (IPC 8-9): E05B19/00 E05B19/02 E05B19/12 E05B19/18

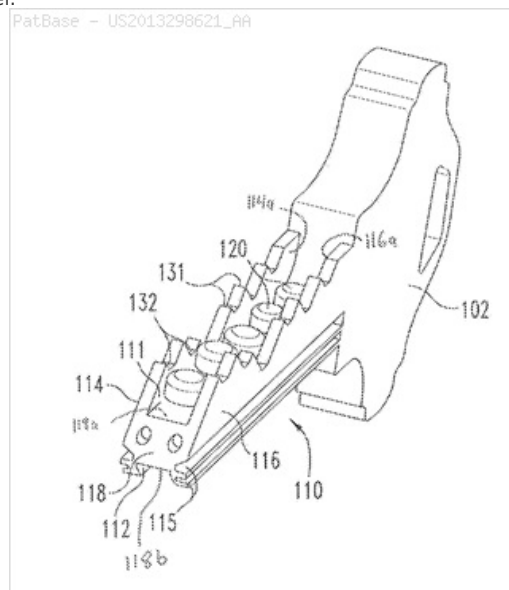
E05B27/00 E05B27/06 E05B27/08 E05B35/00 (Advanced/Invention)

CPC: E05B27/08 E05B27/00 E05B19/0052 E05B19/0017 E05B35/003

E05B19/00 E05B19/0023 E05B19/18 Y10T70/7559 Y10T70/7565

Y10T70/7605 Y10T70/7842 Y10T70/7864

US: 1/1 70/357 70/358 70/402 70/406 70/493



					OWNER : JPMORGAN CHASE BANK, N.A., AS ADMINISTRATIVE AGENT OLDPARTY : SECURITY AGREEMENT; ASSIGNOR: SCHLAGE LOCK COMPANY LLC; REEL/FRA: 034173/0001 EFFECTIVE DATE : 20141015
US2013298623 AA	20131114	LSPB	+	published / reissued	
US2013298623 AA	20140404	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SCHLAGE LOCK COMPANY LLC, INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: CLIFFORD, JASON C; REEL/FRA: 032607/0792 EFFECTIVE DATE : 20140327
US2013298623 AA	20141105	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS ADMINISTRATIVE AGENT OLDPARTY : SECURITY AGREEMENT; ASSIGNOR: SCHLAGE LOCK COMPANY LLC; REEL/FRA: 034173/0001 EFFECTIVE DATE : 20141015
US2013340493 AA	20131226	LSPB	+	published / reissued	
US2013340493 AA	20140917	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SCHLAGE LOCK COMPANY LLC, INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: MATHACHAN, SAJIL JOHN; ALI, MOHAMMED MAKSOOD; BADHYA, ROHITH; SIGNING DATES FROM 20140715 TO 20140717; REEL/FRA: 033754/0570
US2013340493 AA	20141105	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : JPMORGAN CHASE BANK, N.A., AS ADMINISTRATIVE AGENT OLDPARTY : SECURITY AGREEMENT; ASSIGNOR: SCHLAGE LOCK COMPANY LLC; REEL/FRA: 034173/0001 EFFECTIVE DATE : 20141015
US2013340493 AA	20150402	LSWD	-ABD3	Abandoned - - Failure to Respond to an Office Action	
US9103139 BB	20150811	LSGT	+	granted / extensions (spc, cpc, pte)	
US9103139 BB	20150722	LSGT	PAT1	Patented Case	
US9103139 BB	20190128	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US9103139 BB	20330508	PEXP		Calculated Patent Term Expiry	
US9523217 BB	20161220	LSGT	+	granted / extensions (spc, cpc, pte)	
US9523217 BB	20150911	LSES	NFA1	Non Final Action Mailed	
US9523217 BB	20161130	LSGT	PAT1	Patented Case	
US9523217 BB	20330829	PEXP		Calculated Patent Term Expiry (PTA 114 days)	
WO13169760 A1	20131114	LSPB	+	published / reissued	
WO13169760 A1	20141110	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO13169760 A1	20150527	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 13788507 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

WO13169952 A1	20131114	LSPB	+	published / reissued	
WO13169952 A1	20141110	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO13169952 A1	20150527	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 13788009 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
WO13169954 A2	20131114	LSPB	+	published / reissued	
WO13169954 A3	20150527	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 13788444 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :

Title: **REKEYABLE** PADLOCK

Abstract: A **rekeyable** padlock comprises a **lock** housing, a generally U-shaped recess formed in said **lock** housing and having an entry side, a guide channel defined within said housing, a shackle movable within said channel between an open position in which it is retracted into said housing and frees said entry side of said recess, and a closed position in which it is partly located outside of said housing and closes off said entry side, a **lock cylinder**, means removably mounting said **lock cylinder** in said **lock** housing, a cam movable by said **lock cylinder** and having an abutment member engageable with said shackle to move said shackle from said open position to said closed position and vice versa, a latch member biased into position in front of a shoulder of said mounting means prohibiting withdrawal of said **lock cylinder** and means accessible through said recess when said shackle is in said open position, but not when said shackle is in said closed position, for releasing said latch member from said shoulder to permit withdrawal of said **lock cylinder** from said **lock** housing and replacement of said **lock cylinder** by a substitute **lock cylinder**.

Classifications:

International (IPC 8-9): E05B67/28 E05B9/08 (Advanced/Invention);
E05B67/00 E05B9/00 (Core/Invention)

International (IPC 1-7): E05B67/28 E05B9/04

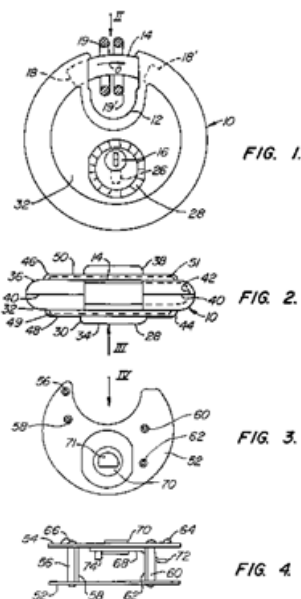
CPC: Y10T70/457 Y10T70/7661 E05B9/084 E05B67/28

European: E05B67/28 E05B9/08C

US: 70/371 70/40 703/710

PatBase - US5921123_A

U.S. Patent Jul. 13, 1999 Sheet 1 of 4 5,921,123



Family:

Publication number	Publication date	Application number	Application date
DE69819234 D1	20031204	DE19986019234T	19980417
DE69819234 D1	20031204	DE19986019234	19980417
DE69819234 T2	20040812	DE19986019234T	19980417
EP0872615 A2	19981021	EP19980107027	19980417
EP0872615 A3	20000322	EP19980107027	19980417
EP0872615 B1	20031029	EP19980107027	19980417
US5921123 A	19990713	US19970844513	19970418

Priority:

US19970844513 19970418

Probable Assignee: ABUS AUGUST BREMICKER SOHNE KG

Assignee(s): (std): ABUS AUG BREMICKER SOEHNE KG ; ABUS AUGUST BREMICKER SOEHNE A ; BREMICKER SOEHNE A KG ; BREMICKER SOEHNE KG A

Assignee(s): ABUS AUGUST BREMICKER SOHNE KG ; ABUS AUGUST BREMICKER SOEHNE AG ; ABUS AUGUST BREMICKER SOEHNE KG

Inventor(s): (std): GUNTHER RAYMOND ; MECKBACH GERHARD ; SCHWARZKOPF NORBERT

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE69819234 D1	20041125	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69819234 D1	20041125	LSGT	+8364	NO OPPOSITION DURING TERM OF	

OPPOSITION					
DE69819234 D1	20060209	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69819234 D1	20060209	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69819234 T2	20040812	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69819234 T2	20041125	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69819234 T2	20060209	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69819234 T2	20180417	PEXP		Calculated Patent Term Expiry	
EP0872615 A2	19981021	LSPB	+	published / reissued	
EP0872615 A2	19981028	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : ABUS AUGUST BREMICKER SOEHNE KG
EP0872615 A3	20000719	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20000419
EP0872615 A3	20001129	LSFE	+AKX	DESIGNATION FEES PAID	TEXT : DE GB IE
EP0872615 A3	20021023	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20020910
EP0872615 B1	20031029	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0872615 B1	20031029	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP0872615 B1	20031126	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP0872615 B1	20040323	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20040323 YEAR OF FEE PAYMENT : 7
EP0872615 B1	20040402	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20040402 YEAR OF FEE PAYMENT : 7
EP0872615 B1	20040525	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20040525 YEAR OF FEE PAYMENT : 7
EP0872615 B1	20041020	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20040730
EP0872615 B1	20050417	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20050417
EP0872615 B1	20050418	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20050418
EP0872615 B1	20051101	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20051101
EP0872615 B1	20051228	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF	REF COUNTRY CODE : EP EFFECTIVE DATE : 20050417

RENEWAL FEE					
EP0872615 B1	20180417	PEXP		Calculated Patent Term Expiry	
US5921123 A	19990713	LSGT	+	granted / extensions (spc, cpc, pte)	
US5921123 A	19980214	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ABUS AUGUST BREMICKER SOEHNE AG, GERMANY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: SCHWARZKOPF, NORBERT; GUNTHER, RAYMOND; MECKBACH, GERHARD; REEL/FRAME:008977/0458 EFFECTIVE DATE : 19971219
US5921123 A	19990706	LSGT	PAT1	Patented Case	
US5921123 A	19991012	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ABUS AUGUST BREMICKER SOHNE KG, GERMANY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: SCHWARZKOPF, NORBERT; GUNTHER, RAYMOND; MECKBACH, GERHARD; REEL/FRAME:010297/0001 EFFECTIVE DATE : 19971219
US5921123 A	20021223	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5921123 A	20070105	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5921123 A	20110106	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5921123 A	20170418	PEXP		Calculated Patent Term Expiry	

Title: ELECTROMECHANICAL **CYLINDER** PLUG

Abstract: An electromechanical **locking mechanism** provides a plug with a **rekeyable** primary **lock mechanism** such as a tumbler stack, an electromechanical operator such as a solenoid or a motor, and an electronic circuit having a memory, or an electronic memory and an electronic logic stage, controlling activation and operation of the electromechanical operator, contained entirely within the plug. Insertion of a blade of a key that is properly profiled and bitted to correctly displace the primary **lock** assembly relative to a **cylinder** encasing the plug, and application by the key of electrical power, or of electrical power and a correct data signal, to the electronic circuit, will cause activation of the electrical operator and repositioning of a distal member of the operator relative to the **cylinder**, and thereby enable **torque** manually applied to the blade of the key to rotate the plug within the **cylinder**.

Classifications:

International (IPC 8-9): E05B47/06 E05B49/00 (Advanced/Invention);

G07C9/00 (Advanced/Non-invention);

E05B47/06 (Core/Invention);

G07C9/00 (Core/Non-invention)

International (IPC 1-7): E05B47/06 E05B49/00

CPC: Y10T70/7062 Y10T70/7079 Y10T70/7102 Y10T70/713 Y10T70/7136

Y10T70/7616 Y10T70/765 E05B47/063 E05B47/0004 E05B47/0012

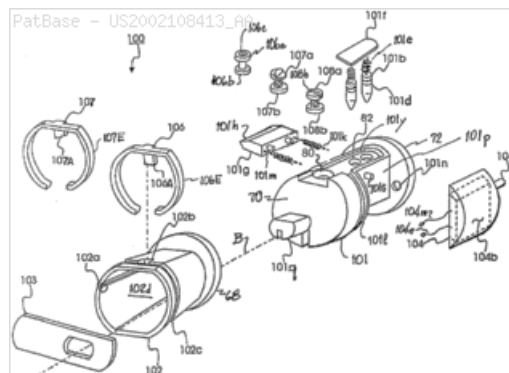
G07C2009/00634 G07C2009/00761 G07C2009/00841 G07C2009/00992

European: E05B47/06C E05B47/06C4R1 P05B47/00A1B1 P05B47/00A4

S07C9/00E10 S07C9/00E14B S07C9/00E16D S07C9/00E24D

US: 340/5.2 340/5.6 340/52 70/277 70/278.3 70/278.300P 70/278.300S

70/278.7 70/278.700S 70/283 70/283.1 70/283P 70/369 70/495



Family:

Publication number	Publication date	Application number	Application date
US2002108413 AA	20020815	US20020061202	20020204
US2003205071 AA	20031106	US20030440308	20030519
US2004107751 AA	20040610	US20030630759	20030731
US2007289346 AA	20071220	US20070892305	20070821
US6564601 BB	20030520	US20020061202	20020204
US8122746 BB	20120228	US20070892305	20070821
US8141399 BB	20120327	US20030440308	20030519

Priority:

US19950004594P 19950929	US19960011764P 19960212	US19960720070 19960927
US20020061202 20020204	US20030440308 20030519	US20030630759 20030731
US20070892305 20070821		

Probable Assignee: INVISION RESEARCH INC

Assignee(s): (std): HYATT RICHARD G ; HYATT RICHARD G JR ; HYATT JR RICHARD G

Assignee(s): I NV ; INVISION RESEARCH INC

Inventor(s): (std): HYATT JR RICHARD G ; HYATT RICHARD G ; HYATT RICHARD G JR

Inventor(s): HYATT RICHARD GJR

Agent(s): ROBERT E BUSHNELL; ROBERT R; ROBERT E

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US2002108413 AA	20020815	LSPB	+	published / reissued	
US2003205071 AA	20031106	LSPB	+	published / reissued	
US2004107751 AA	20040610	LSPB	+	published / reissued	
US2004107751 AA	20131016	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007289346 AA	20071220	LSPB	+	published / reissued	
US6564601 BB	20030520	LSGT	+	granted / extensions (spc, cpc, pte)	
US6564601 BB	20030501	LSGT	PAT1	Patented Case	
US6564601 BB	20030623	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVISION RESEARCH, INC., VIRGINIA

					OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HYATT, JR., RICHARD G.; REEL/FRAME:014201/0022 EFFECTIVE DATE : 20030623
US6564601 BB	20061222	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6564601 BB	20101122	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6564601 BB	20150519	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6564601 BB	20220204	PEXP		Calculated Patent Term Expiry	
US8122746 BB	20120228	LSGT	+	granted / extensions (spc, cpc, pte)	
US8122746 BB	20120208	LSGT	PAT1	Patented Case	
US8122746 BB	20150825	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8122746 BB	20290123	PEXP		Calculated Patent Term Expiry (PTA 521 days)	
US8141399 BB	20120327	LSGT	+	granted / extensions (spc, cpc, pte)	
US8141399 BB	20120307	LSGT	PAT1	Patented Case	
US8141399 BB	20150928	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8141399 BB	20290619	PEXP		Calculated Patent Term Expiry (PTA 2223 days)	

Title: ELECTRONIC BARREL **LOCK** AND KEY SYSTEM

Abstract: An electronic barrel **lock** and key system that functions in combination with a computer that codes an electronic master key, or an electronic standard key, or an electronic programming module and includes an electronic **lock** having a **lock** security device. The master key has no restrictions, based on how it is programmed, therefore it can open any of the **locks**. The standard key includes restrictions that precludes the key from opening the **lock**. The programming module cannot open a **lock** it is only used to program or reprogram a **lock**. The **lock** security device is utilized to prevent a person from opening the **lock** by applying a high temperature to the **lock**. The security device utilizes a low-melt alloy that is isolated from the electronic elements located within the **lock**. When the low-melt alloy melts it causes the **lock** to be placed in a permanent **locked** state. The system also has a non-rotating non-keyed interface between the key and the **lock**.

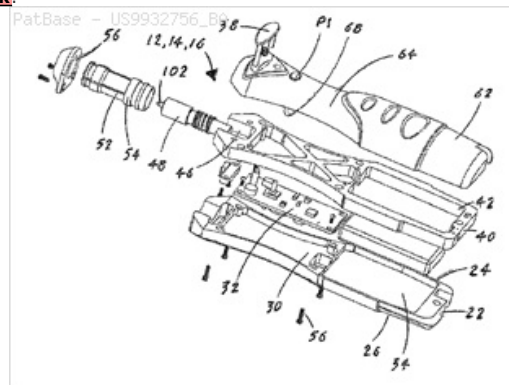
Classifications:

International (IPC 8-9): E05B45/06 E05B47/00

H05K7/14 (Advanced/Invention)

CPC: E05B47/00 E05B45/06 E05B47/0009 E05B67/365 G07C9/00

G07C9/00309 G07C9/00571 G07C9/00857 G07C9/00944 G07C2209/63



Family:

Publication number	Publication date	Application number	Application date
US9932756 BA	20180403	US20140148297	20140106

Priority:

US20140148297 20140106

Probable Assignee:

NICKEAS MARK

Assignee(s): (std):

NICKEAS MARK ; NICKEAS MARTIN

Inventor(s): (std):

NICKEAS MARK ; NICKEAS MARTIN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US9932756 BA	20180403	LSGT	+	granted / extensions (spc, cpc, pte)	
US9932756 BA	20180314	LSGT	PAT1	Patented Case	
US9932756 BA	20360526	PEXP		Calculated Patent Term Expiry (PTA 871 days)	

Title: **REKEYABLE LOCK** ASSEMBLY WITH BLOWN **CYLINDER** PROTECTION

Abstract: A **rekeyable lock cylinder** includes a plug body with a keyway opening along a longitudinal axis and a multiple of channels transverse to the axis. A **rekeying** feature located adjacent to the keyway opening.

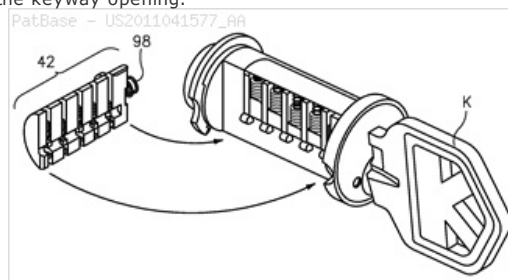
Classifications:

International (IPC 8-9): E05B25/00 E05B27/00 E05B29/00 E05B29/04 E05B37/00 (Advanced/Invention)

CPC: E05B27/005 E05B29/004 E05B29/0066 Y10T70/7588 Y10T70/7729 Y10T70/774

European: E05B27/00K E05B29/00K

US: 1/1 70/382 70/382S 70/384 70/384P 70/490



Family:

Publication number	Publication date	Application number	Application date
US2011041577 AA	20110224	US20090543456	20090818
US2014041429 AA	20140213	US20130055470	20131016
US2016265249 AA	20160915	US20160163859	20160525
US9359791 BB	20160607	US20130055470	20131016

Priority:

US20090543456 20090818 US20130055470 20131016 US20160163859 20160525

Probable Assignee: SPECTRUM BRANDS INC

Assignee(s): (std): ZHANG JACK ; SPECTRUM BRANDS INC ; KWIKSET CORP

Assignee(s): NEWFREY LLC ; LIQUID HOLDING CO INC ; NATIONAL MFG CO ; PRICE PFISTER INC ; ROV HOLDING INC A CORP OF DELAWARE ; ROVCAL INC ; ROVCAL INC A CORP OF CALIFORNIA ; RUSSELL HOBBS INC A CORP OF DELAWARE ; RUSSELL HOBBS INC ; ROYAL BANK OF CANADA ; APPLICA CONSUMER PRODUCTS INC ; APPLICA CONSUMER PRODUCTS INC A CORP OF FLORIDA ; BANK OF AMERICA NA AGENT AS ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; WELLS FARGO BANK NATIONAL ASSOCIATION ; SALIX ANIMAL HEALTH LLC ; SEED RESOURCES LLC ; SPECTRUM BRANDS INC A CORP OF DELAWARE ; SPECTRUM BRANDS INC SUCCESSOR IN INTEREST TO ROVCAL INC AS ; TELL MFG INC ; TETRA HOLDING US INC A CORP OF DELAWARE ; TETRA HOLDINGS US INC ; UNITED IND CORP ; UNITED IND SUCCESSOR IN INTEREST TO LIQUID HOLDING CO INC AS CORP ; UNITED PET GROUP INC ; UNITED PET GROUP INC A CORP OF DELAWARE ; TETRA HOLDING US INC ; TOASTMASTER INC

Inventor(s): (std): ZHANG JACK

Agent(s): CARLSON GASKEY AND OLDS PC; BARNES AND THORNBURG LLP

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2011041577 AA	20110224	LSPB	+	published / reissued	
US2011041577 AA	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US2011041577 AA	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US2011041577 AA	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US2011041577 AA	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET

					CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRA:029731/0589 EFFECTIVE DATE : 20121217
US2011041577 AA	20131018	LSWD	-ABD3	Abandoned - - Failure to Respond to an Office Action	
US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRA:036052/0845 EFFECTIVE DATE : 20150623
US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRA:036052/0845 EFFECTIVE DATE : 20150623
US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRA:036052/0845 EFFECTIVE DATE : 20150623
US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRA:036052/0845 EFFECTIVE DATE : 20150623
US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRA:036052/0845 EFFECTIVE DATE : 20150623
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US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRA:036052/0845 EFFECTIVE DATE : 20150623
US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRA:036052/0845 EFFECTIVE DATE : 20150623
US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRA:036052/0845 EFFECTIVE DATE : 20150623
US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRA:036052/0845 EFFECTIVE DATE : 20150623
US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY;

					ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2011041577 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2014041429 AA	20140213	LSPB	+	published / reissued	
US2014041429 AA	20140512	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : SECURITY INTEREST; ASSIGNORS:SPECTRUM BRANDS, INC.; UNITED PET GROUP, INC.; KWIKSET CORPORATION; AND OTHERS; REEL/FRAME:032874/0109 EFFECTIVE DATE : 20140430
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
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US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001

					EFFECTIVE DATE : 20150623
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US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623

US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2014041429 AA	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US2016265249 AA	20160915	LSPB	+	published / reissued	
US2016265249 AA	20180524	LSES	NFA1	Non Final Action Mailed	
US9359791 BB	20160607	LSGT	+	granted / extensions (spc, cpc, pte)	
US9359791 BB	20131226	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ZHANG, JACK; REEL/FRAME:031850/0352 EFFECTIVE DATE : 20131224
US9359791 BB	20151029	LSES	ADV1	Advisory Action Mailed	
US9359791 BB	20160518	LSGT	PAT1	Patented Case	
US9359791 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293

EFFECTIVE DATE : 20141104

US9359791 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
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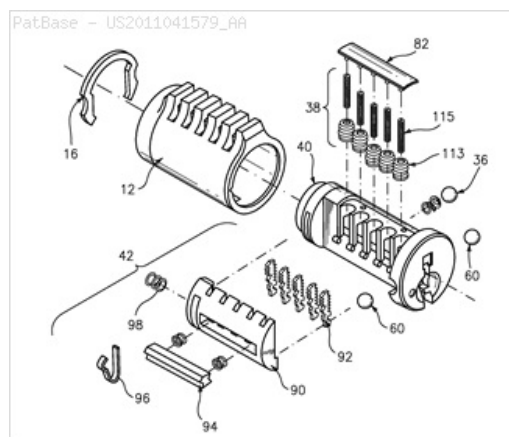
US9359791 BB	20331016	PEXP		Calculated Patent Term Expiry
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Title: **REKEYABLE LOCK** ASSEMBLY WITH BLOWN **CYLINDER** PROTECTION

Abstract: A **rekeyable lock cylinder** includes a plug body with a keyway opening along a longitudinal axis and a multiple of channels transverse to the axis. A **locking** bar generally parallel to the longitudinal axis, the **locking** bar having an extension. A slide movably mounted to an end section of the plug body, the slide having a slot which selectively permits passage of the extension during a **rekeying** procedure.

Classifications:

International (IPC 8-9): E05B15/00 E05B15/12 E05B15/14 E05B27/00 E05B27/04 E05B27/08 E05B29/04 (Advanced/Invention)
CPC: Y10T70/7599 Y10T70/7605 Y10T70/7616 Y10T70/7734 Y10T70/774 E05B27/005 E05B27/0082
European: E05B27/00K E05B27/00S
US: 70/383 70/384 70/492 70/493 70/495 70/495P



Family:

Publication number	Publication date	Application number	Application date
CA2709365 AA	20110218	CA20102709365	20100708
CA2709365 C	20171003	CA20102709365	20100708
CN201802143 U	20110420	CN201020297212U	20100818
US2011041579 AA	20110224	US20090543475	20090818
US8739587 BB	20140603	US20090543475	20090818

Priority:

US20090543475 20090818 CA20102709365 20100708

Probable Assignee: SPECTRUM BRANDS INC

Assignee(s): (std): NEWFREY LLC ; KWISET CORP ; CHEN HENRY

Assignee(s): DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; APPLICA CONSUMER PRODUCTS INC ; APPLICA CONSUMER PRODUCTS INC A CORP OF FLORIDA ; BANK OF AMERICA NA AGENT AS ; LIQUID HOLDING CO INC ; NATIONAL MFG CO ; PRICE PFISTER INC ; ROV HOLDING INC A CORP OF DELAWARE ; ROV CAL INC ; ROV CAL INC A CORP OF CALIFORNIA ; RUSSELL HOBBS INC ; ROYAL BANK OF CANADA ; SPECTRUM BRANDS INC ; WELLS FARGO BANK NATIONAL ASSOCIATION ; RUSSELL HOBBS INC A CORP OF DELAWARE ; SALIX ANIMAL HEALTH LLC ; SEED RESOURCES LLC ; SPECTRUM BRANDS INC A CORP OF DELAWARE ; SPECTRUM BRANDS INC SUCCESSOR IN INTEREST TO ROV CAL INC AS ; TELL MFG INC ; TETRA HOLDING US INC A CORP OF DELAWARE ; TETRA HOLDINGS US INC ; UNITED IND CORP ; UNITED IND SUCCESSOR IN INTEREST TO LIQUID HOLDING CO INC AS CORP ; UNITED PET GROUP INC ; UNITED PET GROUP INC A CORP OF DELAWARE ; TETRA HOLDING US INC ; TOASTMASTER INC

Inventor(s): (std): CHEN HENRY ; CHEN HENRY

Inventor(s): HERRY CHEN ; HERRYCHEN

Agent(s): MARAVEI DAPHNE L; RIDOUT AND MAYBEE LLP; CARLSON GASKEY AND OLDS PC; BARNES AND THORNBURG LLP

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CA2709365 AA	20110218	LSPB	+	published / reissued	
CA2709365 AA	20150720	LSSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20150708
CA2709365 C	20171003	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2709365 C	20300708	PEXP		Calculated Patent Term Expiry	
CN201802143 U	20110420	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201802143 U	20110420	LSGT	+C14	GRANT OF PATENT OR	

				UTILITY MODEL	
CN201802143 U	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : KWIKSET CORP. OLDPARTY : FORMER OWNER: SPECTRUM BRAND CO., LTD. EFFECTIVE DATE : 20131118
CN201802143 U	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : SPECTRUM BRAND CO., LTD. OLDPARTY : FORMER OWNER: NEWFRE INC. EFFECTIVE DATE : 20131118
CN201802143 U	20131204	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN201802143 U	20200818	PEXP		Calculated Patent Term Expiry	
US2011041579 AA	20110224	LSPB	+	published / reissued	
US2011041579 AA	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US2011041579 AA	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US2011041579 AA	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US2011041579 AA	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US8739587 BB	20140603	LSGT	+	granted / extensions (spc, cpc, pte)	
US8739587 BB	20090818	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NEWFREY LLC, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CHEN, HENRY; REEL/FRAME:023114/0588 EFFECTIVE DATE : 20090812
US8739587 BB	20140514	LSGT	PAT1	Patented Case	
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845

EFFECTIVE DATE : 20150623					
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY;

					ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV CAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001

					EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623

US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8739587 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US8739587 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US8739587 BB	20171130	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8739587 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US8739587 BB	20301214	PEXP		Calculated Patent Term Expiry (PTA 483 days)	

Title: **LOCK** ACTUATOR WITH REMOVABLE OPERATOR

Abstract: An actuator for a **lock** is provided with a operating handle which may be easily removed through the use of a special key and may also be reinstalled without the use of the special key or tools. The actuator may be "**rekeyed**" as necessary to maintain security and removal of the handle will **lock** the actuator.

Classifications:

International (IPC 8-9): E05B11/00 E05B17/20

E05B27/00 (Advanced/Invention);

E05B27/00 (Advanced/Non-invention);

E05B11/00 (Core/Invention);

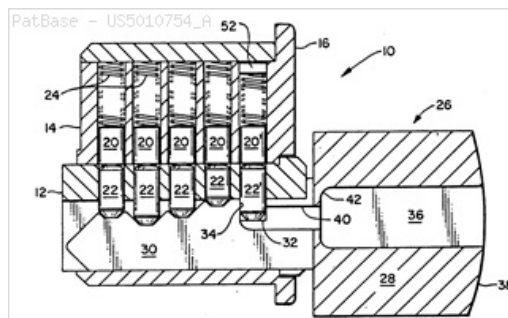
E05B27/00 (Core/Non-invention)

International (IPC 1-7): E05B11/00 E05B13/00 E05B13/10 E05B17/20 E05B19/00 E05B3/00

CPC: Y10T70/7768 Y10T70/7802 E05B11/00 E05B27/00

European: E05B11/00 P05B27/00

US: 70/389 70/395 703/890



Family:

Publication number	Publication date	Application number	Application date
AU199180123 A1	19920109	AU19910080123	19910702
CA2043734 AA	19920107	CA19912043734	19910603
GB2246391 A1	19920129	GB19910014368	19910703
GB9114368 A0	19910821	GB19910014368	19910703
US5010754 A	19910430	US19900549280	19900706

Priority:

US19900549280 19900706 CA19912043734 19910603

Probable Assignee: LORI CORP

Assignee(s): (std): LORI CORP

Assignee(s): THERIAULT KENNETH T ; LORI A CORP OF CT CORP ; UBS ZURICH AG ; UBS AG ; KABA ILCO CORP ; KABA MAS CORP ; DE ANGELO NELSON J ; ILCO UNICAN PROPERTIES INC ; INT SECURITY PRODUCTS INC ; INT SECURITY PRODUCTS INC A CORP OF CT ; KABA BENZING AMERICA INC ; KABA CORP ; KABA HIGH SECURITY LOCKS CORP

Inventor(s): (std): ANGELO NELSON J DE ; DE ANGELO NELSON J ; THERIAULT KENNETH ; THERIAULT KENNETH T

Inventor(s): KENNETH T THERIAULT ; KENNETH THERIAULT ; NELSON J DE ANGELO

Agent(s): SWABEY OGILVY RENAULT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199180123 A1	19920109	LSPB	+	published / reissued	
CA2043734 AA	19920107	LSPB	+	published / reissued	
CA2043734 AA	19911205	LSES	+EEER	EXAMINATION REQUEST	
CA2043734 AA	19931203	LSLE	-FZDE	DEAD	
GB2246391 A1	19920129	LSPB	+	published / reissued	
GB2246391 A1	19921125	LSWD	-WAP	APPLICATION WITHDRAWN, TAKEN TO BE WITHDRAWN OR REFUSED ** AFTER PUBLICATION UNDER SECTION 16(1)	
US5010754 A	19910430	LSGT	+	granted / extensions (spc, cpc, pte)	
US5010754 A	19900706	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LORI CORPORATION, A CORP. OF CT, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:DE ANGELO, NELSON J.; THERIAULT, KENNETH T.; REEL/FRAME:005376/0982 EFFECTIVE DATE : 19900706
US5010754 A	19910227	LSGT	PAT1	Patented Case	
US5010754 A	19910812	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : INTERNATIONAL SECURITY PRODUCTS, INC., A CORP. OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LORI CORPORATION; REEL/FRAME:005797/0642 EFFECTIVE DATE : 19910801
US5010754 A	19940718	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5010754 A	19981023	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5010754 A	20020122	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UBS, AG ZURICH, SWITZERLAND OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:KABA CORPORATION; KABA ILCO CORPORATION; KABA HIGH SECURITY LOCKS CORPORATION; AND OTHERS; REEL/FRAME:012495/0716 EFFECTIVE DATE : 20011001
US5010754 A	20021003	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5010754 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA HIGH SECURITY LOCKS CORPORATION, NORTH CAROLI OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5010754 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA ILCO CORPORATION, NORTH CAROLINA OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5010754 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ILCO UNICAN PROPERTIES, INC., NORTH CAROLINA OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5010754 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA CORPORATION, CONNECTICUT OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5010754 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA BENZING AMERICA, INC., FLORIDA OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5010754 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA MAS CORPORATION, KENTUCKY OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5010754 A	20100706	PEXP		Calculated Patent Term Expiry	

Abstract: A **lock** with changeable warding positions wherein a rotationally indexable warding member selectively enables one of a multiple of keys for operation of the **lock**.

International (IPC 8-9): E05B27/00 (Advanced/Invention);

E05B19/00 (Advanced/Non-invention);

E05B27/00 (Core/Invention);

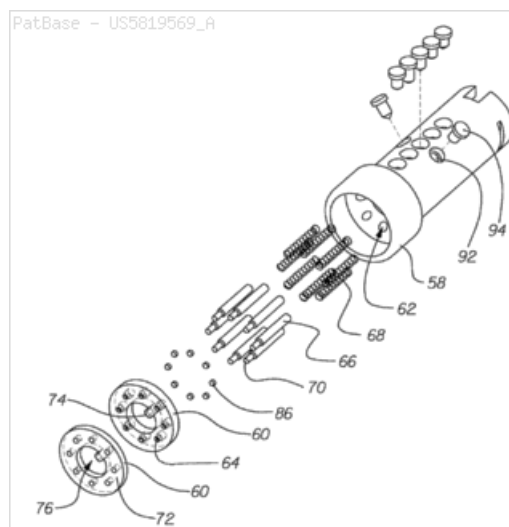
E05B19/00 (Core/Non-invention)

International (IPC 1-7): E05B15/06

CPC: E05B27/005 E05B19/00 Y10T70/7734 Y10T70/7938 Y10T70/7977

European: E05B27/00K P05B19/00

US: 70/383 70/420 70/427



Publication number	Publication date	Application number	Application date
US5819569 A	19981013	US19960697735	19960829

US19960697735 19960829

Probable Assignee: HERDMAN RODRICK A

Assignee(s): HERDMAN RODRICK A

Inventor(s): (std): HERDMAN RODRICK A

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Patent	Date recorded	Event group	Code	Event	Details
US5819569 A	19981013	LSGT	+	granted / extensions (spc, cpc, pte)	
US5819569 A	20021015	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5819569 A	20021113	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5819569 A	20021210	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20021013
US5819569 A	20160829	PEXP		Calculated Patent Term Expiry	

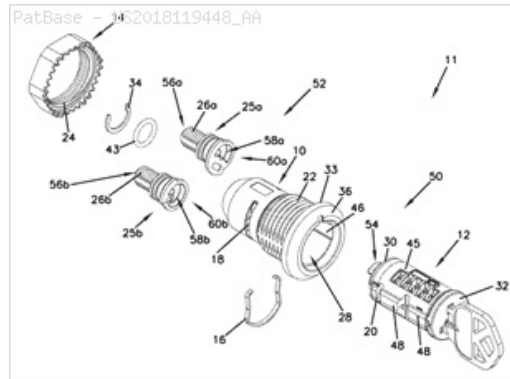
Title: HOUSING FOR REMOVABLE **LOCK** CORE

Abstract: A housing configured to accept a **rekeyable lock** core for use in **lockable** enclosures. The housing is configured to use a **lock** core that is designed for deadbolt and door lever/knob operation. The housing allows a **rekeyable lock cylinder** to be used in one's home as well as other enclosure enclosures. A common key may therefore be used for all devices as the **lock** core is of a **rekeyable** design.

Classifications:

International (IPC 8-9): E05B17/04 E05B27/00 E05B29/00 E05B63/00 E05B65/46 E05B9/08 (Advanced/Invention)

CPC: E05B9/084 E05B29/004 E05B27/005 E05B9/086 E05B17/041 E05B63/0056



Family:

Publication number	Publication date	Application number	Application date
TW201823571 A	20180701	TW20170137343	20171030
US2018119448 AA	20180503	US20170797856	20171030
WO18081714 A1	20180503	WO2017US59050	20171030

Priority:

US20160414271P 20161028 US20170797856 20171030

Probable Assignee: SPECTRUM BRANDS INC

Assignee(s): (std): FARAG HANNA O ; LIN JAMES ; SPECTRUM BRANDS INC

Inventor(s): (std): FARAG HANNA ; FARAG HANNA O ; LIN JAMES

Agent(s): BRUESS STEVEN C

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 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
TW201823571 A	20180701	LSPB	+	published / reissued	
US2018119448 AA	20180503	LSPB	+	published / reissued	
US2018119448 AA	20180731	LSES	-NFA2	Non Final Action Counted, Not Yet Mailed	
US2018119448 AA	20180801	LSES	NFA1	Non Final Action Mailed	
WO18081714 A1	20180503	LSPB	+	published / reissued	

Title: CYLINDER LOCK AND COMBINATION OF SUCH A LOCK AND KEY

Abstract: A cylinder lock includes a housing; a cylinder rotatably provided therein and having first and second ends, the cylinder extending in a longitudinal direction between the first and second ends and including an internal keyway for placing a key corresponding to the lock in the cylinder; a locking mechanism that prevents rotation of the cylinder with respect to the housing when the key is not present in the keyway; a blocking element positioned between the first and second end, and configurable to take a first position wherein the keyway is blocked such that the key cannot be placed in the keyway and a second position wherein the keyway is unblocked such that the key can be placed therein; a configuration device to configure the blocking element in the first or second position, and controllable by wireless communication between the lock and a remote control unit.

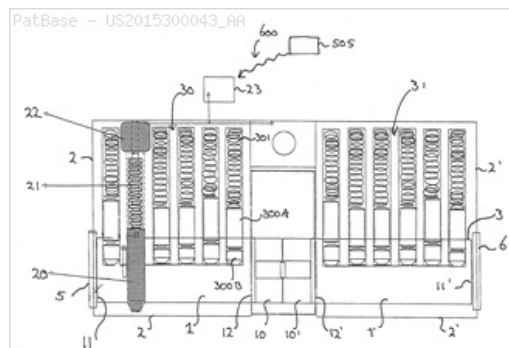
Classifications:

International (IPC 8-9): E05B19/00 E05B27/00 E05B27/08 E05B47/06 G07C9/00 (Advanced/Invention)

CPC: E05B27/08 E05B27/0003 E05B19/00 G07C9/00309 E05B15/08

E05B27/0042 E05B47/063 E05B47/0634 E05B17/147

US: 70/344 70/393



Family:

Publication number	Publication date	Application number	Application date
■ CN105121761 A	20151202	CN201380066976	20131223
■ EP2935731 A2	20151028	EP20130821109	20131223
■ US2015300043 AA	20151022	US20130649324	20131223
■ US10066419 BB	20180904	US20130649324	20131223
■ WO14096442 A2	20140626	WO2013EP77876	20131223
■ WO14096442 A3	20140828	WO2013EP77876	20131223

Priority:

EP20120199314 20121223 EP20130821109 20131223 WO2013EP77876 20131223

Probable Assignee: ALMOTEC BV

Assignee(s): (std): CERTAFLEX BV ; VAN BUYNDER BENNY OMER ROSA ; ALMOTEC BV ; BENNY OMER ROSA VAN BUYNDER ; MULDER TONNY EVERT LEONARD ; T E L MULDER ; MULDER T E L

Assignee(s): BVALMOTEC ; TEL MULDER ; MULDER TEL

Inventor(s): (std): BENNY OMER ROSA VAN BUYNDER ; VAN BUYNDER BENNY OMER ROSA

Agent(s): JANSSEN PAULUS J P; GOLDBERG RICHARD M; JANSSEN PAULUS JP

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 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 JP KE KG KM KN KP KR 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN105121761 A	20151202	LSPB	+	published / reissued	
CN105121761 A	20151202	LSPB	+C06	PUBLICATION	
EP2935731 A2	20151028	LSPB	+	published / reissued	
EP2935731 A2	20151028	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20150619
EP2935731 A2	20170308	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20170202
US10066419 BB	20180904	LSGT	+	granted / extensions (spc, cpc, pte)	
US10066419 BB	20180820	LSGT	PAT1	Patented Case	
US10066419 BB	20331223	PEXP		Calculated Patent Term Expiry	
US2015300043 AA	20151022	LSPB	+	published / reissued	
US2015300043 AA	20150603	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MULDER, T.E.L., NETHERLANDS OLDPARTY : ASSIGNMENT OF

					ASSIGNORS INTEREST; ASSIGNOR: CERTAFLEX BV; REEL/FRAME: 035776/0767 EFFECTIVE DATE : 20150121
US2015300043 AA	20150603	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALMOTEC B.V., NETHERLANDS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: CERTAFLEX BV; REEL/FRAME: 035776/0767 EFFECTIVE DATE : 20150121
US2015300043 AA	20170619	LSES	ADV1	Advisory Action Mailed	
US2015300043 AA	20170822	LSES	NFA1	Non Final Action Mailed	
US2015300043 AA	20180315	LSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2015300043 AA	20180517	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
US2015300043 AA	20180802	LSFE	+AWA3	Awaiting TC Resp, Issue Fee Payment Verified	
US2015300043 AA	20180807	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
WO14096442 A2	20140626	LSPB	+	published / reissued	
WO14096442 A3	20150603	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14649324 COUNTRY OF REF DOCUMENT : US
WO14096442 A3	20150604	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2013821109 COUNTRY OF REF DOCUMENT : EP

Title: HIDDEN SHACKLE **LOCK** WITH AN INTERCHANGEABLE CORE

Abstract: A hidden shackle style **lock** is disclosed. The **lock** includes a substantially cylindrical housing having a top surface, a bottom surface, and a curved side surface. The **lock** also includes a first cavity on the bottom surface of the housing extending part way along a thickness of the housing, and a second cavity on the side surface intersecting with the first cavity. A hollow sleeve is slidably attached within the second cavity. The sleeve includes a first end face, a second end face, and a third cavity. The third cavity extends from the first end face to the second face and is substantially coaxial with the second cavity. A shackle having a first end and a second end is fixedly coupled to the first end face of the sleeve. The **lock** also includes an interchangeable core having a first **locking mechanism** and a second **locking mechanism lockingly** disposed within the third cavity, and coupled to the straight shackle. The interchangeable core is configured to operate the first **locking mechanism** to rotate the shackle, and operate the second **locking mechanism** to unlock the interchangeable core from the third cavity.

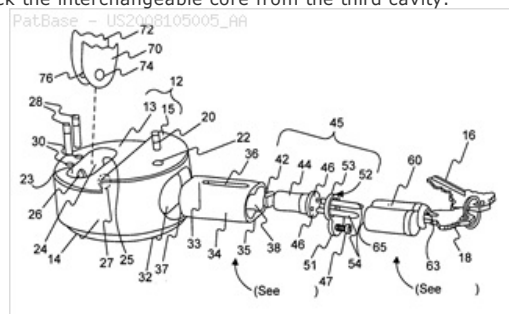
Classifications:

International (IPC 8-9): E05B67/36 (Advanced/Invention);
E05B67/00 (Core/Invention)

CPC: E05B67/36 E05B9/086 Y10T70/40 Y10T70/439 Y10T70/443
Y10T70/7661

European: E05B67/36 P05B9/08C2

US: 70/14 70/32 70/34 70/371



Family:

Publication number	Publication date	Application number	Application date
US2008105005 AA	20080508	US20070907150	20071010
US2014298869 AA	20141009	US20140292977	20140602
US8776557 BB	20140715	US20070907150	20071010

Priority:

US20060857190P 20061107 US20070907150 20071010 US20140292977 20140602

Probable Assignee: PACIFIC LOCK CO

Assignee(s): (std): PACIFIC LOCK CO ; WANG WEI KAI

Inventor(s): (std): WANG WEI KAI ; WANG WEI KAL

Agent(s): FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP; PETER; PATENT LAW AGENCY LLC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2008105005 AA	20080508	LSPB	+	published / reissued	
US2014298869 AA	20141009	LSPB	+	published / reissued	
US2014298869 AA	20140602	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PACIFIC LOCK COMPANY, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:WANG, WEI KAL; REEL/FRAME:033004/0424 EFFECTIVE DATE : 20070925
US2014298869 AA	20150211	LSWD	-ABD5	Abandoned -- Incomplete Application (Pre-examination)	
US8776557 BB	20140715	LSGT	+	granted / extensions (spc, cpc, pte)	
US8776557 BB	20071010	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PACIFIC LOCK COMPANY, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:WANG, WEI KAI; REEL/FRAME:019996/0750 EFFECTIVE DATE : 20070925
US8776557 BB	20140625	LSGT	PAT1	Patented Case	
US8776557 BB	20180226	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE:

REM.)					
US8776557 BB	20180404	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : ENTITY STATUS SET TO UNDISCOUNTED (ORIGINAL EVENT CODE: BIG.)
US8776557 BB	20180518	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : SURCHARGE FOR LATE PAYMENT, LARGE ENTITY (ORIGINAL EVENT CODE: M1554)
US8776557 BB	20180518	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8776557 BB	20320423	PEXP		Calculated Patent Term Expiry (PTA 1657 days)	

Title: RE-KEYABLE **LOCK** AND METHOD

Abstract: A re-keyable **lock** and method. The **lock** has **locked** and unlocked positions and includes a housing and a **cylinder** rotatably supported in the housing. The **lock** includes a plurality of wafer tumblers resiliently supported in corresponding channels formed in the **cylinder**. Each wafer tumbler includes a rider element selectively engaged with a base element in first and second engagement positions, wherein the first engagement position corresponds to a first key and the second engagement position corresponds to a second key. The **lock** also includes a re-keying **mechanism** such as a re-keying tool which is inserted in a re-keying slot when the **lock** is in the unlocked position to disengage the rider element from the corresponding base element in the first engagement position and to re-engage the rider element to the base element in the second engagement position.

Classifications:

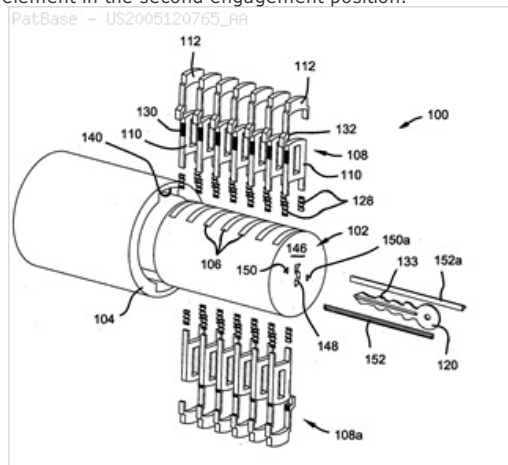
International (IPC 8-9): E05B15/00 E05B27/00 E05B29/00 E05B29/02 E05B29/04 E05B35/08 (Advanced/Invention);
E05B15/00 E05B27/00 E05B29/00 E05B35/00 (Core/Invention)

International (IPC 1-7): E05B15/00 E05B27/00 E05B29/00 E05B29/02 E05B29/04 E05B35/08

CPC: Y10T70/7599 Y10T70/7616 Y10T70/7695 Y10T70/774 Y10T70/7932 E05B29/004

European: E05B29/00K

US: 70/377 70/384 70/419 70/492 70/495 704/920



Family:

Publication number	Publication date	Application number	Application date
BR122014031367 B1	20151201	BR20141231367	20041203
BRPI0405384 A	20050823	BR2004PI05384	20041203
BRPI0405384 B1	20150519	BR2004PI05384	20041203
CA2489225 AA	20050605	CA20042489225	20041203
CA2489225 C	20090203	CA20042489225	20041203
CN1624281 A	20050608	CN200410091614	20041124
CN1624281 B	20110105	CN200410091614	20041124
EP1538285 A2	20050608	EP20040027698	20041122
EP1538285 A3	20091202	EP20040027698	20041122
EP1538285 B1	20170405	EP20040027698	20041122
JP2005171753 A2	20050630	JP20040344198	20041129
MXPA04011495 A1	20050609	MX2004PA11495	20041119
US2005120765 AA	20050609	US20030729555	20031205
US6973813 BB	20051213	US20030729555	20031205

Priority:

US20030729555 20031205 BR2004PI05384 20041203 CA20042489225 20041203
CA20042489225 20041203

Probable Assignee: SPECTRUM BRANDS INC

Assignee(s): (std): ERDELY EDWARD ; KWIKSET CORP ; NEWFREY LLC

Assignee(s): LIQUID HOLDING CO INC ; NATIONAL MFG CO ; PRICE PFISTER INC ; ROV HOLDING INC A CORP OF DELAWARE ; ROVCAL INC ; ROVCAL INC A CORP OF CALIFORNIA ; RUSSELL HOBBS INC A CORP OF DELAWARE ; SALIX ANIMAL HEALTH LLC ; SEED RESOURCES LLC ; RUSSELL HOBBS INC ; ROYAL BANK OF CANADA ; SPECTRUM BRANDS INC ; WELLS FARGO BANK NATIONAL ASSOCIATION ; SPECTRUM BRANDS INC A CORP OF DELAWARE ; SPECTRUM BRANDS INC SUCCESSOR IN INTEREST TO ROVCAL INC AS ; TELL MFG INC ; TETRA HOLDING US INC A CORP OF DELAWARE ; TETRA HOLDINGS US INC ; UNITED IND CORP ; UNITED IND SUCCESSOR IN INTEREST TO LIQUID HOLDING CO INC AS CORP ; UNITED PET GROUP INC ; UNITED PET GROUP INC A CORP OF DELAWARE ; TETRA HOLDING US INC ; TOASTMASTER INC ; APPLICA CONSUMER PRODUCTS INC ; APPLICA CONSUMER PRODUCTS INC A CORP OF FLORIDA ; BANK OF AMERICA NA AGENT AS ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS

Inventor(s): (std): EDWARD ERDELY ; EDWARD ERDERLY ; ERDELY EDWARD

Agent(s): RIDOUT AND MAYBEE LLP; DUXBURY STEPHEN; DAVIES CHRISTOPHER ROBERT; OHATA YASUSHI; YAMAZAKI HIROSHI; HARNESS DICKEY AND PIERCE PLC

Designated states: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

Legal status (INPADOC)

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Patent Date recorded Event group Code Event Details

BR122014031367 B1	20150915	LSGT	B09A	DECISION: INTENTION TO
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GRANT					
BR122014031367 B1	20151201	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	TEXT : PRAZO DE VALIDADE: 10 (DEZ) ANOS CONTADOS A PARTIR DE 01/12/2015, OBSERVADAS AS CONDICOES LEGAIS.
BR122014031367 B1	20251201	PEXP		Calculated Patent Term Expiry	
BRPI0405384 A	20050823	LSPB	+	published / reissued	
BRPI0405384 A	20140930	LSAS	B25A	REQUESTED TRANSFER OF RIGHTS APPROVED	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. (US)
BRPI0405384 A	20141014	LSAS	B25A	REQUESTED TRANSFER OF RIGHTS APPROVED	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION (US)
BRPI0405384 A	20150203	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI0405384 B1	20150519	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	TEXT : PRAZO DE VALIDADE: 10 (DEZ) ANOS CONTADOS A PARTIR DE 19/05/2015, OBSERVADAS AS CONDICOES LEGAIS.
BRPI0405384 B1	20250519	PEXP		Calculated Patent Term Expiry	
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CN1624281 A	20050608	LSPB	+	published / reissued	
CN1624281 A	20050608	LSPB	+C06	PUBLICATION	
CN1624281 B	20110105	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1624281 B	20110105	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1624281 B	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : KWIKSET CORP. OLDPARTY : FORMER OWNER: SPECTRUM BRAND CO., LTD. EFFECTIVE DATE : 20131112
CN1624281 B	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : SPECTRUM BRAND CO., LTD. OLDPARTY : FORMER OWNER: NEWFREY LLC EFFECTIVE DATE : 20131112
CN1624281 B	20131204	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN1624281 B	20241124	PEXP		Calculated Patent Term Expiry	
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EP1538285 A3	20100526	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20100406
EP1538285 A3	20100811	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE

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EP1538285 A3	20140910	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20140812
EP1538285 A3	20161109	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20161011
EP1538285 B1	20170405	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP1538285 B1	20170413	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
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EP1538285 B1	20170915	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 881997 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20170405
EP1538285 B1	20170929	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170405
EP1538285 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170405

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EP1538285 B1	20171031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170405
EP1538285 B1	20171127	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 14
EP1538285 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170705
EP1538285 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170805
EP1538285 B1	20171130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170405
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EP1538285 B1	20180531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170405
EP1538285 B1	20180629	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MC NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170405
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EP1538285 B1	20180905	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
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EP1538285 B1	20241122	PEXP		Calculated Patent Term Expiry	
JP2005171753 A2	20050630	LSPB	+	published / reissued	
JP2005171753 A2	20071024	LSER	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20071023
JP2005171753 A2	20100616	LSER	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20100615
JP2005171753 A2	20101106	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20101105
JP2005171753 A2	20101215	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20101214
JP2005171753 A2	20110427	LSWD	-A045	WRITTEN MEASURE OF DISMISSAL OF APPLICATION	TEXT : JAPANESE INTERMEDIATE CODE: A045 EFFECTIVE DATE : 20110426
MXPA04011495 A1	20050609	LSPB	+	published / reissued	
MXPA04011495 A1	20090613	LSGT	+FG	GRANT OR REGISTRATION	
MXPA04011495 A1	20140205	LSAS	GB	TRANSFER OR ASSIGNMENT	
US2005120765 AA	20050609	LSPB	+	published / reissued	
US6973813 BB	20051213	LSGT	+	granted / extensions (spc, cpc, pte)	
US6973813 BB	20031205	LSAS	AS	ASSIGNMENT	PARTY TYPE : OWNER OWNER : NEWFREY LLC, DELAWARE

					OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ERDELY, EDWARD; REEL/FRAME:014786/0980 EFFECTIVE DATE : 20031120
US6973813 BB	20051122	LSGT	PAT1	Patented Case	
US6973813 BB	20070109	LSRE	CC	CERTIFICATE OF CORRECTION	
US6973813 BB	20090615	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6973813 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US6973813 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWISET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US6973813 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWISET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US6973813 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWISET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US6973813 BB	20130314	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623

US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
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US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6973813 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID

					OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS

					COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623

US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6973813 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US6973813 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US6973813 BB	20170613	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6973813 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US6973813 BB	20231205	PEXP		Calculated Patent Term Expiry	

Title: ACCESSORY FOR EXISTING **LOCKS** TO PREVENT BUMP **LOCK** PICKING

Abstract: A modified pin to be used in an existing tumbler and pin **lock** to prevent the **lock** from unauthorized operation by a **lock**-picking technique known as "bumping." A modified replacement pin is provided for an existing pin and tumbler **lock**. This modified replacement pin fits within the rotatable plug in the pin and tumbler **lock**. It replaces one of the longer pins of an existing pin set. The existing pin is cylindrical in shape. To modify the pin, a symmetrical notch is cut in proximity to one end of the pin. This notch causes the modified pin to catch on the plug during an attempted unauthorized opening by bumping the **lock**. Because the notch catches on the plug, it prevents the plug from turning. This effect is momentary but is enough to allow remaining pins in the pin and tumbler **lock** to fall into place to prevent the plug from turning and unauthorized operation of the **lock**.

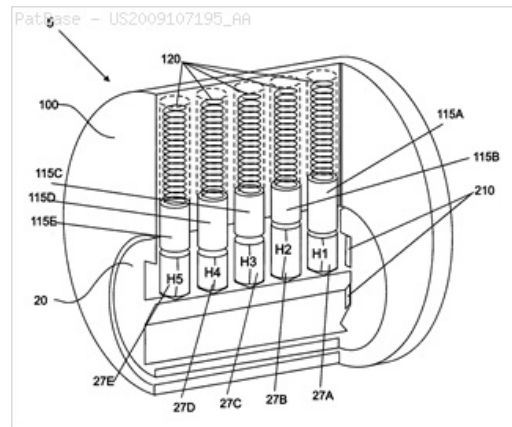
Classifications:

International (IPC 8-9): E05B27/04 (Advanced/Invention);
E05B27/00 (Core/Invention)

CPC: E05B27/0017 E05B27/0057 Y10T70/7605

European: E05B27/00A3 P05B27/00P

US: 70/493



Family:

Publication number	Publication date	Application number	Application date
US2009107195 AA	20090430	US20070981074	20071030

Priority:

US20070981074 20071030

Probable Assignee:

GALLIAN STEVEN W

Assignee(s): (std):

GALLIAN STEVEN W

Inventor(s): (std):

GALLIAN STEVEN W

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US2009107195 AA	20090430	LSPB	+	published / reissued	
US2009107195 AA	20091214	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	

Title: DEVICES, METHODS, AND SYSTEMS FOR **REKEYING** A **LOCK** ASSEMBLY

Abstract: Certain exemplary embodiments of the present invention provide a **rekeying** system comprising: a **rekeyable lock cylinder** comprising: a **cylinder** body; a plug assembly disposed in said **cylinder** body and comprising a plurality of pins and a one-to-one corresponding plurality of racks for relocating said plurality of pins; and a **rekeying** tool receiving aperture defined by said **rekeyable lock cylinder**; and a **rekeying** tool comprising: a base plate; and a plurality of spaced elongated prongs, each prong from said plurality of prongs comprising a first longitudinal end adapted to engage a corresponding one of said plurality of racks, each prong from said plurality of prongs dimensioned lengthwise to relocate to a first predetermined position said corresponding one of said plurality of racks, said first predetermined position common to each of said plurality of racks, each prong from said plurality of prongs comprising a second longitudinal end connected to said base plate. It is emphasized that this abstract is provided to comply with the rules requiring an abstract that will allow a searcher or other reader to quickly ascertain the subject matter of the technical disclosure. This abstract is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims. 37 CFR 1.72(b).

Classifications:

International (IPC 8-9): E05B73/00 A47B73/00 B21D53/42 B25B13/00 E05B E05B15/00 E05B17/00 E05B17/04 E05B19/00 E05B19/18 E05B25/00 E05B25/08 E05B27/00 E05B27/02 E05B27/04 E05B27/06 E05B27/08 E05B27/10 E05B29/00 E05B29/02 E05B29/04 E05B29/10 E05B35/00 E05B35/08 E05B35/10 E05B63/00 E05B63/08 E05B65/06 E05B9/00 E05B9/04 E05B9/10 (Advanced/Invention); E05B25/00 E05B27/00 E05B27/04 E05B29/02 E05B29/04 E05B9/10 (Advanced/Non-invention); A47B73/00 E05B15/00 E05B25/00 E05B27/00 E05B27/04 E05B29/00 E05B29/04 E05B35/00 E05B35/10 E05B9/00 (Core/Invention); E05B63/00 (Core/Non-invention); E05B (Subclass/Invention)

International (IPC 1-7): A47B73/00 E05B13/10 E05B25/00 E05B27/00 E05B27/04 E05B27/06 E05B29/00 E05B29/04 E05B35/00 E05B35/10 E05B63/00 E05B9/04 E05B9/10

CPC: E05B9/042 E05B9/086 E05B29/0066 E05B9/04 E05B27/005 E05B27/0082 E05B29/004 E05B63/0034 Y10T70/7452 Y10T70/7599 Y10T70/7605 Y10T70/7616 Y10T70/7734 Y10T70/774 Y10T70/7463 Y10T70/7469 Y10T70/7559 Y10T70/7588 Y10T70/7593 Y10T70/7638 Y10T70/7678 Y10T70/7565 Y10T70/7672 Y10T70/7706 Y10T70/7712

European: E05B27/00K E05B27/00S E05B29/00K E05B63/00F E05B9/04
US: 70/338 70/340 70/340P 70/341 70/357 70/357S 70/358 70/358P 70/367 70/367S 70/373 70/374 70/374S 70/379R 70/380 70/383 70/383P 70/383S 70/384 70/384S 70/490 70/490P 70/490S 70/491 70/491S 70/492 70/492P 70/493 70/493P 70/493S 70/495 70/DIG.6 70/DIG.60

PatBase - US2004060331_AA

Patent Application Publication Apr. 1, 2004 Sheet 1 of 31 US 2004/060331 A1

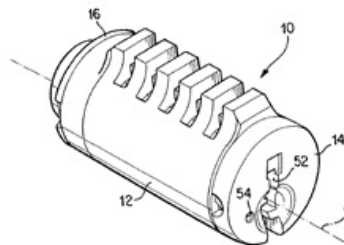


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
AR045297 AA	20051026	AR2003P103174	20030902
AR053988 AA	20070530	AR2005P105111	20051207
AR072093 AA	20100804	AR2009P102096	20090610
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AU2004219671 BB	20100218	AU20040219671	20040305
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BRPI0314701 B1	20150407	BR2003PI14701	20030922
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Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR045297 AA	20051026	LSPB	+	published / reissued	
AR045297 AA	20090827	LSGT	+FG	GRANT, REGISTRATION	
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AR072093 AA	20100804	LSPB	+	published / reissued	
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AR072289 AB	20100818	LSGT	+	granted / extensions (spc, cpc, pte)	
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				ASSIGNMENT OF PATENT RIGHT	OWNER : SPECTRUM BRAND CO., LTD. OLDPARTY : FORMER OWNER: NEWFRE INC. EFFECTIVE DATE : 20131119
CN101010474 B	20131211	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN101010474 B	20250708	PEXP		Calculated Patent Term Expiry	
CN101076641 A	20071121	LSPB	+	published / reissued	
CN101076641 A	20071121	LSPB	+C06	PUBLICATION	
CN101076641 B	20110223	LSGT	+	granted / extensions (spc, cpc, pte)	
CN101076641 B	20110223	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101076641 B	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : KWIKSET CORP. OLDPARTY : FORMER OWNER: SPECTRUM BRAND CO., LTD. EFFECTIVE DATE : 20131112
CN101076641 B	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : SPECTRUM BRAND CO., LTD. OLDPARTY : FORMER OWNER: NEWFRE INC. EFFECTIVE DATE : 20131112
CN101076641 B	20131204	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN101076641 B	20251208	PEXP		Calculated Patent Term Expiry	
CN101550776 A	20091007	LSPB	+	published / reissued	
CN101550776 A	20091007	LSPB	+C06	PUBLICATION	
CN101550776 B	20110727	LSGT	+	granted / extensions (spc, cpc, pte)	
CN101550776 B	20110727	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101550776 B	20120525	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1134692 COUNTRY OF REF DOCUMENT : HK
CN101550776 B	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : SPECTRUM BRAND CO., LTD. OLDPARTY : FORMER OWNER: NEWFRE INC. EFFECTIVE DATE : 20131112
CN101550776 B	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : KWIKSET CORP. OLDPARTY : FORMER OWNER: SPECTRUM BRAND CO., LTD. EFFECTIVE DATE : 20131112
CN101550776 B	20131204	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN101550776 B	20240305	PEXP		Calculated Patent Term Expiry	
CN101705761 A	20100512	LSPB	+	published / reissued	
CN101705761 A	20100512	LSPB	+C06	PUBLICATION	
CN101705761 A	20131204	LSAS	ASS	SUCCESSION OR	PARTYTYPE : OWNER

				ASSIGNMENT OF PATENT RIGHT	OWNER : KWIKSET CORP. OLDPARTY : FORMER OWNER: SPECTRUM BRAND CO., LTD. EFFECTIVE DATE : 20131113
CN101705761 A	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : SPECTRUM BRAND CO., LTD. OLDPARTY : FORMER OWNER: NEWFRE INC. EFFECTIVE DATE : 20131113
CN101705761 A	20131204	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN101705761 B	20160907	LSGT	+	granted / extensions (spc, cpc, pte)	
CN101705761 B	20160907	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101705761 B	20230922	PEXP		Calculated Patent Term Expiry	
CN101806171 A	20100818	LSPB	+	published / reissued	
CN101806171 A	20100818	LSPB	+C06	PUBLICATION	
CN101806171 B	20121010	LSGT	+	granted / extensions (spc, cpc, pte)	
CN101806171 B	20121010	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN101806171 B	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : SPECTRUM BRAND CO., LTD. OLDPARTY : FORMER OWNER: NEWFRE INC. EFFECTIVE DATE : 20131118
CN101806171 B	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : KWIKSET CORP. OLDPARTY : FORMER OWNER: SPECTRUM BRAND CO., LTD. EFFECTIVE DATE : 20131118
CN101806171 B	20131204	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN101806171 B	20230922	PEXP		Calculated Patent Term Expiry	
CN102119254 A	20110706	LSPB	+	published / reissued	
CN102119254 A	20110706	LSPB	+C06	PUBLICATION	
CN102119254 A	20131211	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : KWIKSET CORP. OLDPARTY : FORMER OWNER: SPECTRUM BRAND CO., LTD. EFFECTIVE DATE : 20131119
CN102119254 A	20131211	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : SPECTRUM BRAND CO., LTD. OLDPARTY : FORMER OWNER: NEWFRE INC. EFFECTIVE DATE : 20131119
CN102119254 A	20131211	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN102119254 B	20140618	LSGT	+	granted / extensions (spc, cpc, pte)	
CN102119254 B	20140618	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	

CN102119254 B	20150508	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1154640 COUNTRY OF REF DOCUMENT : HK
CN102119254 B	20280722	PEXP		Calculated Patent Term Expiry	
CN1685124 A	20051019	LSPB	+	published / reissued	
CN1685124 A	20051019	LSPB	+C06	PUBLICATION	
CN1685124 B	20100908	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1685124 B	20100908	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1685124 B	20110429	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1084995 COUNTRY OF REF DOCUMENT : HK
CN1685124 B	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : KWIKSET CORP. OLDPARTY : FORMER OWNER: SPECTRUM BRAND CO., LTD. EFFECTIVE DATE : 20131113
CN1685124 B	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : SPECTRUM BRAND CO., LTD. OLDPARTY : FORMER OWNER: NEWFRE INC. EFFECTIVE DATE : 20131113
CN1685124 B	20131204	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN1685124 B	20230922	PEXP		Calculated Patent Term Expiry	
CN1756885 A	20060405	LSPB	+	published / reissued	
CN1756885 A	20060405	LSPB	+C06	PUBLICATION	
CN1756885 B	20101110	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1756885 B	20101110	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1756885 B	20110610	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1087164 COUNTRY OF REF DOCUMENT : HK
CN1756885 B	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : SPECTRUM BRAND CO., LTD. OLDPARTY : FORMER OWNER: NEWFRE INC. EFFECTIVE DATE : 20131114
CN1756885 B	20131204	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : KWIKSET CORP. OLDPARTY : FORMER OWNER: SPECTRUM BRAND CO., LTD. EFFECTIVE DATE : 20131114
CN1756885 B	20131204	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN1756885 B	20240305	PEXP		Calculated Patent Term Expiry	
CO5721026 A2	20070131	LSPB	+	published / reissued	
CO5721026 A2	20101122	LSGT	+FG	APPLICATION GRANTED	
CO6341661 A2	20111121	LSPB	+	published /	

CO6341661 A2	20130918	LSGT	+FG	reissued APPLICATION GRANTED	
CR20110017 A	20110705	LSPB	+	published / reissued	
DOP2010000367 A	20101215	LSPB	+	published / reissued	
ECSP055620 A	20070530	LSPB	+	published / reissued	
ECSP056004 A	20060127	LSPB	+	published / reissued	
EP1781876 A2	20070509	LSPB	+	published / reissued	
EP1781876 A2	20070509	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20070126
EP1781876 A2	20070822	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 29/04 20060101ALI20070713BHEP
EP1781876 A2	20070822	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 27/04 20060101AFI20070713BHEP
EP1781876 A2	20130508	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION
EP1781876 A4	20140528	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20140430
EP1781876 A4	20140528	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 29/04 20060101AFI20140424BHEP
EP1781876 A4	20170315	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 29/04 20060101AFI20170209BHEP
EP1781876 A4	20170329	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20170302
EP1781876 B1	20170906	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1781876 B1	20170906	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1781876 B1	20170907	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : DE OWNER : SPECTRUM BRANDS, INC. (N.D.GES.D.STAATES DELAW, US REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 602005052677 COUNTRY OF REF DOCUMENT : DE OLDPARTY : FORMER OWNER: NEWFREY LLC, NEWARK, DEL., US
EP1781876 B1	20170915	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 926104 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20170915
EP1781876 B1	20170915	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1781876 B1	20171004	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1781876 B1	20171019	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602005052677 COUNTRY OF REF DOCUMENT : DE

EP1781876 B1	20180117	LSAS	RAP2	RIGHTS OF A PATENT TRANSFERRED	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC.
EP1781876 B1	20180117	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : DE OWNER : SPECTRUM BRANDS, INC. (N.D.GES.D.STAATES DELAW, US REF LEGAL EVENT CODE : R081 REF DOCUMENT NUMBER : 602005052677 COUNTRY OF REF DOCUMENT : DE OLDPARTY : FORMER OWNER: KWIKSET CORP., LAKE FOREST, CALIF., US
EP1781876 B1	20180125	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP1781876 B1	20180131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170906
EP1781876 B1	20180131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170906
EP1781876 B1	20180215	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 926104 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20170906
EP1781876 B1	20180228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20171207
EP1781876 B1	20180228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20171206
EP1781876 B1	20180228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170906
EP1781876 B1	20180228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170906
EP1781876 B1	20180430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170906
EP1781876 B1	20180430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170906

EP1781876 B1	20180430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170906
EP1781876 B1	20180531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180106
EP1781876 B1	20180531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170906
EP1781876 B1	20180531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170906
EP1781876 B1	20180531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170906
EP1781876 B1	20180607	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602005052677 COUNTRY OF REF DOCUMENT : DE
EP1781876 B1	20180731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170906
EP1781876 B1	20180815	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20180607
EP1781876 B1	20180831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170906
EP1781876 B1	20190228	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1781876 B1	20250708	PEXP		Calculated Patent Term Expiry	
EP2310597 A1	20110420	LSPB	+	published / reissued	
EP2310597 A1	20110420	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20110111
EP2310597 A1	20130508	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION
EP2310597 A4	20140820	LSSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20140723
EP2310597 A4	20140820	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 29/00 20060101ALI20140717BHEP
EP2310597 A4	20140820	LSRE	RIC1	INFORMATION	CLASSIFICATIONSCHEME : IPC

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EP2310597 A4	20140820	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 9/04 20060101ALI20140717BHEP
EP2310597 A4	20140820	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 27/00 20060101ALI20140717BHEP
EP2310597 A4	20171206	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 27/00 20060101ALN20171030BHEP
EP2310597 A4	20171206	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 9/04 20060101ALI20171030BHEP
EP2310597 A4	20171206	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 9/10 20060101AFI20171030BHEP
EP2310597 A4	20171227	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20171129
EP2310597 A4	20180509	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC.
EP2310597 A4	20180530	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20180425
EP2310597 A4	20180530	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 9/04 20060101ALI20180423BHEP
EP2310597 A4	20180530	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 9/10 20060101AFI20180423BHEP
EP2310597 A4	20180530	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 27/00 20060101ALN20180423BHEP
EP2310597 B1	20180606	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2310597 B1	20180606	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2310597 B1	20180615	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 1006266 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20180615
EP2310597 B1	20180615	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2310597 B1	20180627	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2310597 B1	20180705	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602008055546 COUNTRY OF REF DOCUMENT : DE
EP2310597 B1	20181025	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2310597 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180906

EP2310597 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180906
EP2310597 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180907
EP2310597 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20181215	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 1006266 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20180606
EP2310597 B1	20181231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A

				[ANNOUNCED FROM NATIONAL OFFICE TO EPO]	TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20181006
EP2310597 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20190228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180606
EP2310597 B1	20190228	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP2310597 B1	20280722	PEXP		Calculated Patent Term Expiry	
FR2845108 A1	20040402	LSPB	+	published / reissued	
FR2845108 A1	20140425	LSAS	TP	TRANSMISSION OF PROPERTY	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, US EFFECTIVE DATE : 20140326
FR2845108 A1	20160926	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 14
FR2845108 A1	20170925	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 15
FR2845108 B1	20091120	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2845108 B1	20230923	PEXP		Calculated Patent Term Expiry	
FR2879230 A1	20060616	LSPB	+	published / reissued	

FR2879230 B1	20090403	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2879230 B1	20140425	LSAS	TP	TRANSMISSION OF PROPERTY	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, US EFFECTIVE DATE : 20140326
FR2879230 B1	20160930	LSLE	-ST	NOTIFICATION OF LAPSE	EFFECTIVE DATE : 20160831
FR2879230 B1	20251212	PEXP		Calculated Patent Term Expiry	
FR2949245 A1	20110225	LSPB	+	published / reissued	
FR2949245 B1	20140314	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2949245 B1	20140425	LSAS	TP	TRANSMISSION OF PROPERTY	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, US EFFECTIVE DATE : 20140326
FR2949245 B1	20160926	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 14
FR2949245 B1	20170925	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 15
FR2949245 B1	20180813	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 16
FR2949245 B1	20290819	PEXP		Calculated Patent Term Expiry	
GT200300211 A	20060417	LSPB	+	published / reissued	
GT200500024 U	20070214	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1084995 A1	20060811	LSPB	+	published / reissued	
HK1084995 A1	20110429	LSPB	+	published / reissued	
HK1084995 A1	20260317	PEXP		Calculated Patent Term Expiry	
HK1084995 A1	20260317	PEXP		Calculated Patent Term Expiry	
HK1084995 A3	20060811	LSPB	+	published / reissued	
HK1084995 B	20110429	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1084995 B	20260317	PEXP		Calculated Patent Term Expiry	
HK1087164 A1	20061006	LSPB	+	published / reissued	
HK1087164 A1	20110610	LSPB	+	published / reissued	
HK1087164 A1	20160930	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE FAILURE TO PAY THE RENEWAL FEE)	EFFECTIVE DATE : 20160305
HK1087164 A1	20160930	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE FAILURE TO PAY THE RENEWAL FEE)	EFFECTIVE DATE : 20160305
HK1087164 A1	20260621	PEXP		Calculated Patent Term Expiry	
HK1087164 A1	20260621	PEXP		Calculated Patent Term Expiry	
HK1087164 A3	20061006	LSPB	+	published / reissued	
HK1087164 B	20110610	LSGT	+	granted / extensions (spc, cpc, pte)	

HK1087164 B	20260621	PEXP		Calculated Patent Term Expiry	
HK1134692 A1	20100507	LSPB	+	published / reissued	
HK1134692 A1	20120525	LSPB	+	published / reissued	
HK1134692 A1	20160930	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE FAILURE TO PAY THE RENEWAL FEE)	EFFECTIVE DATE : 20160305
HK1134692 A1	20160930	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE FAILURE TO PAY THE RENEWAL FEE)	EFFECTIVE DATE : 20160305
HK1134692 A1	20260621	PEXP		Calculated Patent Term Expiry	
HK1134692 A1	20260621	PEXP		Calculated Patent Term Expiry	
HK1134692 B	20120525	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1134692 B	20260621	PEXP		Calculated Patent Term Expiry	
HK1154640 A1	20120427	LSPB	+	published / reissued	
HK1154640 A1	20150508	LSPB	+	published / reissued	
HK1154640 A1	20190201	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE FAILURE TO PAY THE RENEWAL FEE)	EFFECTIVE DATE : 20180722
HK1154640 A1	20190201	LSLE	-PC	PATENT CEASED (I.E. PATENT HAS LAPSED DUE TO THE FAILURE TO PAY THE RENEWAL FEE)	EFFECTIVE DATE : 20180722
HK1154640 A1	20310822	PEXP		Calculated Patent Term Expiry	
HK1154640 A1	20310822	PEXP		Calculated Patent Term Expiry	
HK1154640 B	20150508	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1154640 B	20310822	PEXP		Calculated Patent Term Expiry	
HN2003000264 A	20040417	LSPB	+	published / reissued	
IN00266DN2007 A	20070803	LSPB	+	published / reissued	
IN00628DN2005 A	20081212	LSPB	+	published / reissued	
IN00711DN2007 A	20070803	LSPB	+	published / reissued	
IN03758DN2005 A	20070810	LSPB	+	published / reissued	
IN03886DN2007 A	20070831	LSPB	+	published / reissued	
IN10555DN2014 A	20150821	LSPB	+	published / reissued	
IN10556DN2014 A	20150821	LSPB	+	published / reissued	
IN10557DN2014 A	20150821	LSPB	+	published / reissued	
IN228042 B	20090213	LSGT	+	granted / extensions (spc, cpc, pte)	
IN228042 B	20250824	PEXP		Calculated Patent	

IN243697 B	20101105	LSGT	+	Term Expiry granted / extensions (spc, cpc, pte)	
IN243697 B	20250217	PEXP		Calculated Patent Term Expiry	
IN264488 B	20150102	LSGT	+	granted / extensions (spc, cpc, pte)	
IN264488 B	20270125	PEXP		Calculated Patent Term Expiry	
IN281146 B	20170310	LSGT	+	granted / extensions (spc, cpc, pte)	
IN281146 B	20270110	PEXP		Calculated Patent Term Expiry	
JP2006500495 T2	20060105	LSPB	+	published / reissued	
JP2006500495 T2	20060721	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20060720
JP2006500495 T2	20090901	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20090831
JP2006500495 T2	20091201	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20091130
JP2006500495 T2	20100203	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2006500495 T2	20100209	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20100208
JP2006500495 T2	20100212	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01
JP2006500495 T2	20100304	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20100223
JP2006500495 T2	20100305	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2006500495 T2	20100308	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP2006519949 T2	20060831	LSPB	+	published / reissued	
JP2006519949 T2	20061227	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20061226
JP2006519949 T2	20061227	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20061226
JP2006519949 T2	20100216	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20100215
JP2006519949 T2	20100608	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20100607
JP2006519949 T2	20100706	LSGT	+TRDD	DECISION OF GRANT OR REJECTION	

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JP2006519949 T2	20100713	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20100712
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JP2006519949 T2	20100729	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20100722
JP2006519949 T2	20100730	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2006519949 T2	20100802	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP2008506053 T2	20080228	LSPB	+	published / reissued	
JP2008506053 T2	20080705	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20080704
JP2008506053 T2	20110215	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20110214
JP2008506053 T2	20110517	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20110516
JP2008506053 T2	20120523	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2008506053 T2	20120529	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20120528
JP2008506053 T2	20120531	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01
JP2008506053 T2	20120614	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20120608
JP2008506053 T2	20120615	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP2008506053 T2	20120615	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2008523281 T2	20080703	LSPB	+	published / reissued	
JP2010048082 A2	20100304	LSPB	+	published / reissued	
JP2010048082 A2	20111025	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20111024
JP2010048082 A2	20120424	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20120423
JP2010048082 A2	20120925	LSES	-A131	NOTIFICATION OF	TEXT : JAPANESE INTERMEDIATE

				REASONS FOR REFUSAL	CODE: A131 EFFECTIVE DATE : 20120924
JP2010048082 A2	20121025	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20121024
JP2010048082 A2	20130521	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20130520
JP2010048082 A2	20130620	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	TEXT : JAPANESE INTERMEDIATE CODE: A711 EFFECTIVE DATE : 20130619
JP2010048082 A2	20130627	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20130619
JP2010048082 A2	20130907	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20130906
JP2010048082 A2	20131011	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP2011522984 T2	20110804	LSPB	+	published / reissued	
JP2011522984 T2	20110616	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20110615
JP2011522984 T2	20130308	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20130307
JP2011522984 T2	20130808	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20130807
JP2011522984 T2	20130821	LSWD	-A761	WRITTEN WITHDRAWAL OF APPLICATION	TEXT : JAPANESE INTERMEDIATE CODE: A761 EFFECTIVE DATE : 20130820
JP2013189854 A2	20130926	LSPB	+	published / reissued	
JP2013189854 A2	20140418	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2013189854 A2	20140424	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20140423
JP2013189854 A2	20140529	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20140522
JP2013189854 A2	20140530	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 5551812 COUNTRY OF REF DOCUMENT : JP
JP2013189855 A2	20130926	LSPB	+	published / reissued	
JP2013189855 A2	20140418	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2013189855 A2	20140424	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20140423
JP2013189855 A2	20140529	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: A61

JP2013189855 A2	20140530	LSGT	+R150	(DURING GRANT PROCEDURE) CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	EFFECTIVE DATE : 20140522 TEXT : JAPANESE INTERMEDIATE CODE: R150 REF DOCUMENT NUMBER : 5551813 COUNTRY OF REF DOCUMENT : JP
JP4467433 B2	20100526	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4467433 B2	20100302	LSFE	R100	特許料納付書 Patent fee payment form	
JP4467433 B2	20130228	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP4467433 B2	20130305	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP4467433 B2	20130912	LSAS	S111	REQUEST FOR CHANGE OF OWNERSHIP OR PART OF OWNERSHIP	TEXT : JAPANESE INTERMEDIATE CODE: R313113
JP4467433 B2	20131009	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP4467433 B2	20140227	LSFE	R20	特許料納付書 Patent fee payment form	
JP4467433 B2	20140304	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4467433 B2	20150226	LSFE	R20	特許料納付書 Patent fee payment form	
JP4467433 B2	20150303	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4467433 B2	20160225	LSFE	R20	特許料納付書 Patent fee payment form	
JP4467433 B2	20160301	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4467433 B2	20170302	LSFE	R20	特許料納付書 Patent fee payment form	
JP4467433 B2	20170307	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4467433 B2	20180301	LSFE	R20	特許料納付書 Patent fee payment form	
JP4467433 B2	20180306	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4467433 B2	20190228	LSFE	R20	特許料納付書 Patent fee payment form	
JP4467433 B2	20230922	PEXP		Calculated Patent Term Expiry	
JP4559414 B2	20101006	LSGT	+	granted / extensions (spc, cpc, pte)	
JP4559414 B2	20100727	LSFE	R100	特許料納付書 Patent fee payment form	
JP4559414 B2	20130711	LSFE	R20	特許料納付書 Patent fee payment form	
JP4559414 B2	20130716	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4559414 B2	20130912	LSAS	S111	REQUEST FOR CHANGE OF OWNERSHIP OR PART OF OWNERSHIP	TEXT : JAPANESE INTERMEDIATE CODE: R313113
JP4559414 B2	20131009	LSAS	R350	WRITTEN NOTIFICATION OF	TEXT : JAPANESE INTERMEDIATE CODE: R350

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JP4559414 B2	20140715	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4559414 B2	20150730	LSFE	R20	特許料納付書 Patent fee payment form	
JP4559414 B2	20150804	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4559414 B2	20160714	LSFE	R20	特許料納付書 Patent fee payment form	
JP4559414 B2	20160719	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4559414 B2	20170713	LSFE	R20	特許料納付書 Patent fee payment form	
JP4559414 B2	20170718	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4559414 B2	20180628	LSFE	R20	特許料納付書 Patent fee payment form	
JP4559414 B2	20180703	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP4559414 B2	20240305	PEXP		Calculated Patent Term Expiry	
JP5016485 B2	20120905	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5016485 B2	20120612	LSFE	R100	特許料納付書 Patent fee payment form	
JP5016485 B2	20130912	LSAS	S111	REQUEST FOR CHANGE OF OWNERSHIP OR PART OF OWNERSHIP	TEXT : JAPANESE INTERMEDIATE CODE: R313113
JP5016485 B2	20131009	LSAS	R350	WRITTEN NOTIFICATION OF REGISTRATION OF TRANSFER	TEXT : JAPANESE INTERMEDIATE CODE: R350
JP5016485 B2	20150528	LSFE	R20	特許料納付書 Patent fee payment form	
JP5016485 B2	20150602	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5016485 B2	20160602	LSFE	R20	特許料納付書 Patent fee payment form	
JP5016485 B2	20160607	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5016485 B2	20170601	LSFE	R20	特許料納付書 Patent fee payment form	
JP5016485 B2	20170606	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5016485 B2	20180531	LSFE	R20	特許料納付書 Patent fee payment form	
JP5016485 B2	20180605	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5016485 B2	20250708	PEXP		Calculated Patent Term Expiry	
JP5380636 B2	20140108	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5380636 B2	20091202	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20091201
JP5380636 B2	20130523	LSGT	+A01	特許査定書 Decision of patent grant	

JP5380636 B2	20130625	LSFE	R100	特許料納付書 Patent fee payment form	
JP5380636 B2	20131011	LSGT	+R150	特許証 Patent certificate	
JP5380636 B2	20161013	LSFE	R20	特許料納付書 Patent fee payment form	
JP5380636 B2	20161018	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5380636 B2	20170928	LSFE	R20	特許料納付書 Patent fee payment form	
JP5380636 B2	20171003	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5380636 B2	20180927	LSFE	R20	特許料納付書 Patent fee payment form	
JP5380636 B2	20181002	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5380636 B2	20291130	PEXP		Calculated Patent Term Expiry	
JP5551812 B2	20140716	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5551812 B2	20130907	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	TEXT : JAPANESE INTERMEDIATE CODE: A711 EFFECTIVE DATE : 20130906
JP5551812 B2	20140501	LSGT	+A01	特許査定書 Decision of patent grant	
JP5551812 B2	20140527	LSFE	R100	特許料納付書 Patent fee payment form	
JP5551812 B2	20140530	LSGT	+R150	特許証 Patent certificate	
JP5551812 B2	20170511	LSFE	R20	特許料納付書 Patent fee payment form	
JP5551812 B2	20170516	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5551812 B2	20180426	LSFE	R20	特許料納付書 Patent fee payment form	
JP5551812 B2	20180508	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5551812 B2	20330607	PEXP		Calculated Patent Term Expiry	
JP5551813 B2	20140716	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5551813 B2	20130907	LSAS	A711	NOTIFICATION OF CHANGE IN APPLICANT	TEXT : JAPANESE INTERMEDIATE CODE: A711 EFFECTIVE DATE : 20130906
JP5551813 B2	20140501	LSGT	+A01	特許査定書 Decision of patent grant	
JP5551813 B2	20140527	LSFE	R100	特許料納付書 Patent fee payment form	
JP5551813 B2	20140530	LSGT	+R150	特許証 Patent certificate	
JP5551813 B2	20170511	LSFE	R20	特許料納付書 Patent fee payment form	
JP5551813 B2	20170516	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5551813 B2	20180426	LSFE	R20	特許料納付書 Patent fee payment form	
JP5551813 B2	20180508	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5551813 B2	20330607	PEXP		Calculated Patent Term Expiry	
KR101039500 B1	20110608	LSGT	+	granted /	

				extensions (spc, cpc, pte)	
KR101039500 B1	20140513	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20140514 YEAR OF FEE PAYMENT : 4
KR101039500 B1	20150511	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20150512 YEAR OF FEE PAYMENT : 5
KR101039500 B1	20160512	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20160513 YEAR OF FEE PAYMENT : 6
KR101039500 B1	20180427	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20180427 YEAR OF FEE PAYMENT : 8
KR101039500 B1	20230922	PEXP		Calculated Patent Term Expiry	
KR101124134 B1	20120321	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101124134 B1	20090114	LSES	A201	REQUEST FOR EXAMINATION	
KR101124134 B1	20110215	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101124134 B1	20111129	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101124134 B1	20120228	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101124134 B1	20160229	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
KR101124134 B1	20240305	PEXP		Calculated Patent Term Expiry	
KR101525281 B1	20150602	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101525281 B1	20180427	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20180427 YEAR OF FEE PAYMENT : 4
KR101525281 B1	20280722	PEXP		Calculated Patent Term Expiry	
KR20050053692 A	20050608	LSPB	+	published / reissued	
KR20050053692 A	20080919	LSES	A201	REQUEST FOR EXAMINATION	
KR20050053692 A	20100914	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20050053692 A	20110427	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20050053692 A	20110531	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR20050106086 A	20051108	LSPB	+	published / reissued	
KR20110022046 A	20110304	LSPB	+	published / reissued	
KR20110022046 A	20130718	LSES	A201	REQUEST FOR EXAMINATION	
KR20110022046 A	20140314	LSAS	N231	NOTIFICATION OF CHANGE OF APPLICANT	
KR20110022046 A	20141218	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20110022046 A	20150303	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20110022046 A	20150527	LSGT	+GRNT	WRITTEN	

MX2007000381 A1	20070307	LSPB	+	DECISION TO GRANT published / reissued	
MX2007000381 A1	20090618	LSGT	+FG	GRANT OR REGISTRATION	
MX2007000381 A1	20140205	LSAS	GB	TRANSFER OR ASSIGNMENT	
MX2007007014 A1	20070704	LSPB	+	published / reissued	
MX2007007014 A1	20100730	LSGT	+FG	GRANT OR REGISTRATION	
MX2007007014 A1	20140205	LSAS	GB	TRANSFER OR ASSIGNMENT	
MX2010013734 A1	20110121	LSPB	+	published / reissued	
MX2010013734 A1	20140121	LSGT	+FG	GRANT OR REGISTRATION	
MX2010013734 A1	20140205	LSAS	GB	TRANSFER OR ASSIGNMENT	
MX2010013734 A1	20140205	LSAS	PD	CHANGE OF PROPRIETORSHIP	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION
MXPA05003186 A1	20050608	LSPB	+	published / reissued	
MXPA05003186 A1	20080408	LSGT	+FG	GRANT OR REGISTRATION	
MXPA05003186 A1	20140205	LSAS	GB	TRANSFER OR ASSIGNMENT	
MXPA05009570 A1	20051019	LSPB	+	published / reissued	
MXPA05009570 A1	20080804	LSGT	+FG	GRANT OR REGISTRATION	
MXPA05009570 A1	20140205	LSAS	GB	TRANSFER OR ASSIGNMENT	
MY139433 A	20090930	LSGT	+	granted / extensions (spc, cpc, pte)	
MY139433 A	20251129	PEXP		Calculated Patent Term Expiry	
NZ538957 A	20061130	LSPB	+	published / reissued	
NZ538957 A	20070330	LSGT	+PSEA	PATENT SEALED	
NZ538957 A	20070928	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ538957 A	20101029	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ538957 A	20130927	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 22 SEP 2016 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20130926
NZ538957 A	20131129	LSAS	ASS	CHANGE OF OWNERSHIP	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, US EFFECTIVE DATE : 20131031
NZ538957 A	20160930	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 22 SEP 2017 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20160831
NZ538957 A	20170929	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 22 SEP 2018 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20170831
NZ542038 A	20070928	LSPB	+	published / reissued	
NZ542038 A	20080131	LSGT	+PSEA	PATENT SEALED	
NZ542038 A	20080328	LSFE	+RENEW	RENEWAL	

NZ542038 A	20110429	LSFE	+RENEW	(RENEWAL FEES ACCEPTED) RENEWAL (RENEWAL FEES ACCEPTED)	
NZ542038 A	20131129	LSAS	ASS	CHANGE OF OWNERSHIP	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, US EFFECTIVE DATE : 20131031
NZ542038 A	20140328	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 05 MAR 2017 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20140328
NZ542038 A	20170331	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 05 MAR 2018 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20170302
NZ542038 A	20180223	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 05 MAR 2019 BY CPA GLOBAL EFFECTIVE DATE : 20180208
NZ589468 A	20130726	LSPB	+	published / reissued	
NZ589468 A	20131129	LSAS	ASS	CHANGE OF OWNERSHIP	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, US EFFECTIVE DATE : 20131031
NZ589468 A	20131129	LSGT	+PSEA	PATENT SEALED	
NZ589468 A	20131220	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 22 JUL 2015 BY CPA GLOBAL EFFECTIVE DATE : 20131205
NZ589468 A	20150731	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 22 JUL 2016 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20150718
NZ589468 A	20160729	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 22 JUL 2017 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20160701
NZ589468 A	20170728	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 22 JUL 2018 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20170701
NZ613046 A	20150130	LSPB	+	published / reissued	
NZ613046 A	20150529	LSGT	+PSEA	PATENT SEALED	
NZ613046 A	20150925	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 4 YEARS UNTIL 22 JUL 2016 BY BALDWIN'S INTELLECTUAL PROPERTY EFFECTIVE DATE : 20150903
NZ613046 A	20160729	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 22 JUL 2017 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20160701
NZ613046 A	20170728	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 22 JUL 2018 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20170701
PA8583901 A1	20040423	LSPB	+	published / reissued	
PA8656201 A1	20060703	LSPB	+	published / reissued	
PE03292004 A1	20040611	LSPB	+	published / reissued	
PE03292004 A1	20070228	LSGT	+FG	GRANT, REGISTRATION	
PE03292004 A1	20180328	LSWD	-FD	APPLICATION	

PE04792010 A1	20100711	LSPB	+	DECLARED VOID OR LAPSED published / reissued	
PE04792010 A1	20140127	LSWD	-FD	APPLICATION DECLARED VOID OR LAPSED	
PE07042006 A1	20060721	LSPB	+	published / reissued	
PE07042006 A1	20100623	LSGT	+FG	GRANT, REGISTRATION	
PE07042006 A1	20140627	LSWD	-FD	APPLICATION DECLARED VOID OR LAPSED	
PE07572010 A1	20101107	LSPB	+	published / reissued	
PE07572010 A1	20140625	LSWD	-FA	ABANDONMENT OR WITHDRAWAL	
SV2010003757 A	20110331	LSPB	+	published / reissued	
TH40677 B	20140702	LSGT	+	granted / extensions (spc, cpc, pte)	
TH40677 B	20251128	PEXP		Calculated Patent Term Expiry	
TH80839 A	20061031	LSPB	+	published / reissued	
TR201718882 T4	20171221	LSGT	+	granted / extensions (spc, cpc, pte)	
TR201718882 T4	20250708	PEXP		Calculated Patent Term Expiry	
TW200641226 A	20061201	LSPB	+	published / reissued	
TW201002926 A	20100116	LSPB	+	published / reissued	
TWI502123 B	20151001	LSGT	+	granted / extensions (spc, cpc, pte)	
TWI502123 B	20290602	PEXP		Calculated Patent Term Expiry	
US2004060331 AA	20040401	LSPB	+	published / reissued	
US2004060331 AA	20050309	LSGT	PAT1	Patented Case	
US2004060333 AA	20040401	LSPB	+	published / reissued	
US2004060333 AA	20050209	LSGT	PAT1	Patented Case	
US2004163433 AA	20040826	LSPB	+	published / reissued	
US2004163433 AA	20050216	LSGT	PAT1	Patented Case	
US2005011242 AA	20050120	LSPB	+	published / reissued	
US2005016234 AA	20050127	LSPB	+	published / reissued	
US2005016234 AA	20050202	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NEWFREY LLC, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:STRADER, WALTER; ARMSTRONG, STEVEN; CHONG, GERALD B.; REEL/FRAME:015679/0665 EFFECTIVE DATE : 20040625
US2005039506 AA	20050224	LSPB	+	published / reissued	
US2005039507 AA	20050224	LSPB	+	published / reissued	
US2005103073 AA	20050519	LSPB	+	published / reissued	
US2005155399 AA	20050721	LSPB	+	published / reissued	

US2006277956 AA	20061214	LSPB	+	published / reissued	
US2008092611 AA	20080424	LSPB	+	published / reissued	
US2008236224 AA	20081002	LSPB	+	published / reissued	
US2008236224 AA	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US2008236224 AA	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US2008236224 AA	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US2008271505 AA	20081106	LSPB	+	published / reissued	
US2008271505 AA	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US2008271505 AA	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US2008271505 AA	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US2008271505 AA	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US2009031774 AA	20090205	LSPB	+	published / reissued	
US2010236307 AA	20100923	LSPB	+	published / reissued	
US6860131 BB	20050301	LSGT	+	granted / extensions (spc, cpc, pte)	
US6860131 BB	20020926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : EMHART LLC, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST;

					ASSIGNORS:ARMSTRONG, STEVEN; CHONG, GERALD B.; REEL/FRAME:013341/0304 EFFECTIVE DATE : 20020924
US6860131 BB	20030121	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NEWFREY LLC, DELAWARE OLDPARTY : CHANGE OF NAME; ASSIGNOR:EMHART LLC; REEL/FRAME:013678/0528 EFFECTIVE DATE : 20021030
US6860131 BB	20080902	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6860131 BB	20090303	LSRE	CC	CERTIFICATE OF CORRECTION	
US6860131 BB	20120904	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6860131 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US6860131 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US6860131 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US6860131 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF

					AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6860131 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845

					EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAAME:036102/0001 EFFECTIVE DATE : 20150623

US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC.,

					A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6860131 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US6860131 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US6860131 BB	20160901	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6860131 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US6860131 BB	20220926	PEXP		Calculated Patent Term Expiry	
US6862909 BB	20050308	LSGT	+	granted / extensions (spc, cpc, pte)	
US6862909 BB	20030307	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NEWFREY, LLC, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ARMSTRONG, STEVE; CHONG, GERALD B.; REEL/FRAME:013860/0408 EFFECTIVE DATE : 20030226
US6862909 BB	20080908	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6862909 BB	20120910	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6862909 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN

					OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US6862909 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US6862909 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US6862909 BB	20130208	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029778/0728 EFFECTIVE DATE : 20121217
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN

					OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES

					CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED

					PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAI, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001

					EFFECTIVE DATE : 20150623
US6862909 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6862909 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US6862909 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US6862909 BB	20160908	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6862909 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US6862909 BB	20230307	PEXP		Calculated Patent Term Expiry	
US6871520 BB	20050329	LSGT	+	granted / extensions (sp, cpc, pte)	
US6871520 BB	20030307	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NEWFREY, LLC, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ARMSTRONG, STEVE; CHONG, GERALD B.; REEL/FRAME:014463/0901 EFFECTIVE DATE : 20030226
US6871520 BB	20080929	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6871520 BB	20121001	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6871520 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US6871520 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US6871520 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217

US6871520 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623

US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE;

REEL/FRAME:036102/0001
EFFECTIVE DATE : 20150623

US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623

US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6871520 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US6871520 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC.,

						WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US6871520 BB	20160929	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12	
US6871520 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601	
US6871520 BB	20230307	PEXP	Calculated Patent Term Expiry			
US6959569 BB	20051101	LSGT	+	granted / extensions (spc, cpc, pte)		
US6959569 BB	20051012	LSGT	PAT1	Patented Case		
US6959569 BB	20090430	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US6959569 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217	
US6959569 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217	
US6959569 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217	
US6959569 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217	
US6959569 BB	20130314	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623	
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623	
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER	

					OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED

					PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6959569 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001

EFFECTIVE DATE : 20150623

US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623

US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US6959569 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US6959569 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US6959569 BB	20170501	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6959569 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US6959569 BB	20240709	PEXP		Calculated Patent Term Expiry	
US7114357 BB	20061003	LSGT	+	granted / extensions (spc, cpc, pte)	
US7114357 BB	20041213	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NEWFREY, LLC, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:CHONG, GERALD B.; ARMSTRONG, STEVEN;

US7114357 BB	20060913	LSGT	PAT1	Patented Case	
US7114357 BB	20100405	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7114357 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US7114357 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US7114357 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US7114357 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US7114357 BB	20140403	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845

EFFECTIVE DATE : 20150623

US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001

EFFECTIVE DATE : 20150623

US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING,

					INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7114357 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US7114357 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US7114357 BB	20180323	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7114357 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US7114357 BB	20250411	PEXP		Calculated Patent Term Expiry (PTA 119 days)	
US7117701 BB	20061010	LSGT	+	granted / extensions (spc, cpc, pte)	
US7117701 BB	20060920	LSGT	PAT1	Patented Case	
US7117701 BB	20100412	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7117701 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US7117701 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US7117701 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

US7117701 BB	20130131	LSAS	AS	ASSIGNMENT	OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US7117701 BB	20140410	LSFE	+FPAY	FEE PAYMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	YEAR OF FEE PAYMENT : 8
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623

US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001

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US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623

US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7117701 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW

					YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US7117701 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US7117701 BB	20180403	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7117701 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US7117701 BB	20241004	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US7213429 BB	20070508	LSGT	+	granted / extensions (spc, cpc, pte)	
US7213429 BB	20070418	LSGT	PAT1	Patented Case	
US7213429 BB	20101108	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7213429 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US7213429 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US7213429 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US7213429 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US7213429 BB	20141110	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623

US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION,

					CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623

US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7213429 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US7213429 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US7213429 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US7213429 BB	20181025	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7213429 BB	20240220	PEXP		Calculated Patent	

					Term Expiry (a terminal disclaimer has been filed)
US7234331 BB	20070626	LSGT	+	granted / extensions (spc, cpc, pte)	
US7234331 BB	20050330	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NEWFREY LLC, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ARMSTRONG, STEVEN; CHONG, GERALD B.; VELTMAN, RICHARD J.; REEL/FRAME:015969/0086; SIGNING DATES FROM 20050309 TO 20050318
US7234331 BB	20070606	LSGT	PAT1	Patented Case	
US7234331 BB	20101227	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7234331 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US7234331 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US7234331 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US7234331 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US7234331 BB	20141226	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7234331 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED

PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT;
REEL/FRAME:036052/0845
EFFECTIVE DATE : 20150623

US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS

					COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623

US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7234331 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US7234331 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US7234331 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US7234331 BB	20181213	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7234331 BB	20250521	PEXP		Calculated Patent Term Expiry (PTA 100 days and a terminal disclaimer has been filed)	
US7308811 BB	20071218	LSGT	+	granted / extensions (spc, cpc, pte)	
US7308811 BB	20071128	LSGT	PAT1	Patented Case	
US7308811 BB	20110620	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7308811 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST;

US7308811 BB	20121228	LSAS	AS	ASSIGNMENT	ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US7308811 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US7308811 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US7308811 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US7308811 BB	20150618	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC.,

					WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF

FLORID
OLDPARTY : RELEASE BY SECURED
PARTY; ASSIGNOR:WELLS FARGO
BANK, NATIONAL ASSOCIATION, AS
COLLATERAL TRUSTEE;
REEL/FRAME:036102/0001
EFFECTIVE DATE : 20150623

US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED

					PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE;

US7308811 BB	20150714	LSAS	AS	ASSIGNMENT	REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7308811 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US7308811 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US7308811 BB	20241004	PEXP		Calculated Patent Term Expiry	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US7322219 BB	20080129	LSGT	+	granted / extensions (spc, cpc, pte)	
US7322219 BB	20080109	LSGT	PAT1	Patented Case	
US7322219 BB	20110729	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7322219 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US7322219 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US7322219 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US7322219 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED

					PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCA, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCA, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623

US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER

					PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7322219 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US7322219 BB	20150729	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7322219 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US7322219 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR

					AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US7322219 BB	20260821	PEXP		Calculated Patent Term Expiry	
US7434431 BB	20081014	LSGT	+	granted / extensions (spc, cpc, pte)	
US7434431 BB	20080924	LSGT	PAT1	Patented Case	
US7434431 BB	20120416	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7434431 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US7434431 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US7434431 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US7434431 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623

US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7434431 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623

US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO

					OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED

					PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7434431 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US7434431 BB	20160414	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7434431 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US7434431 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US7434431 BB	20271024	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US7878036 BB	20110201	LSGT	+	granted / extensions (spc, cpc, pte)	
US7878036 BB	20110112	LSGT	PAT1	Patented Case	
US7878036 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US7878036 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL

					MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US7878036 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US7878036 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US7878036 BB	20140801	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED

					PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF

FLORID
OLDPARTY : RELEASE BY SECURED
PARTY; ASSIGNOR:WELLS FARGO
BANK, NATIONAL ASSOCIATION, AS
COLLATERAL TRUSTEE;
REEL/FRAME:036102/0001
EFFECTIVE DATE : 20150623

US7878036 BB 20150714 LSAS AS ASSIGNMENT

PARTYTYPE : OWNER
OWNER : PRICE PFISTER, INC.,
CALIFORNIA
OLDPARTY : RELEASE BY SECURED
PARTY; ASSIGNOR:WELLS FARGO
BANK, NATIONAL ASSOCIATION, AS
COLLATERAL TRUSTEE;
REEL/FRAME:036102/0001
EFFECTIVE DATE : 20150623

US7878036 BB 20150714 LSAS AS ASSIGNMENT

PARTYTYPE : OWNER
OWNER : UNITED PET GROUP, INC.,
WISCONSIN
OLDPARTY : RELEASE BY SECURED
PARTY; ASSIGNOR:WELLS FARGO
BANK, NATIONAL ASSOCIATION, AS
COLLATERAL TRUSTEE;
REEL/FRAME:036102/0001
EFFECTIVE DATE : 20150623

US7878036 BB 20150714 LSAS AS ASSIGNMENT

PARTYTYPE : OWNER
OWNER : TELL MANUFACTURING,
INC., PENNSYLVANIA
OLDPARTY : RELEASE BY SECURED
PARTY; ASSIGNOR:WELLS FARGO
BANK, NATIONAL ASSOCIATION, AS
COLLATERAL TRUSTEE;
REEL/FRAME:036102/0001
EFFECTIVE DATE : 20150623

US7878036 BB 20150714 LSAS AS ASSIGNMENT

PARTYTYPE : OWNER
OWNER : UNITED PET GROUP, INC., A
CORP. OF DELAWARE, WISCO
OLDPARTY : RELEASE BY SECURED
PARTY; ASSIGNOR:WELLS FARGO
BANK, NATIONAL ASSOCIATION, AS
COLLATERAL TRUSTEE;
REEL/FRAME:036102/0001
EFFECTIVE DATE : 20150623

US7878036 BB 20150714 LSAS AS ASSIGNMENT

PARTYTYPE : OWNER
OWNER : UNITED INDUSTRIES
CORPORATION AS SUCCESSOR IN
INTE
OLDPARTY : RELEASE BY SECURED
PARTY; ASSIGNOR:WELLS FARGO
BANK, NATIONAL ASSOCIATION, AS
COLLATERAL TRUSTEE;
REEL/FRAME:036102/0001
EFFECTIVE DATE : 20150623

US7878036 BB 20150714 LSAS AS ASSIGNMENT

PARTYTYPE : OWNER
OWNER : SEED RESOURCES, L.L.C.,
MICHIGAN
OLDPARTY : RELEASE BY SECURED
PARTY; ASSIGNOR:WELLS FARGO
BANK, NATIONAL ASSOCIATION, AS
COLLATERAL TRUSTEE;
REEL/FRAME:036102/0001
EFFECTIVE DATE : 20150623

US7878036 BB 20150714 LSAS AS ASSIGNMENT

PARTYTYPE : OWNER
OWNER : UNITED INDUSTRIES
CORPORATION, MISSOURI
OLDPARTY : RELEASE BY SECURED
PARTY; ASSIGNOR:WELLS FARGO
BANK, NATIONAL ASSOCIATION, AS
COLLATERAL TRUSTEE;
REEL/FRAME:036102/0001
EFFECTIVE DATE : 20150623

US7878036 BB 20150714 LSAS AS ASSIGNMENT

PARTYTYPE : OWNER
OWNER : TETRA HOLDING (US), INC.,
A CORP. OF DELAWARE, VIR
OLDPARTY : RELEASE BY SECURED
PARTY; ASSIGNOR:WELLS FARGO
BANK, NATIONAL ASSOCIATION, AS
COLLATERAL TRUSTEE;
REEL/FRAME:036102/0001
EFFECTIVE DATE : 20150623

US7878036 BB 20150714 LSAS AS ASSIGNMENT

PARTYTYPE : OWNER
OWNER : ROV HOLDING, INC., A
CORP. OF DELAWARE, DELAWARE
OLDPARTY : RELEASE BY SECURED

					PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US7878036 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE;

US7878036 BB	20150720	LSAS	AS	ASSIGNMENT	REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623 PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US7878036 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US7878036 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US7878036 BB	20180719	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7878036 BB	20300603	PEXP		Calculated Patent Term Expiry	
US8033150 BB	20111011	LSGT	+	granted / extensions (spc, cpc, pte)	
US8033150 BB	20110921	LSGT	PAT1	Patented Case	
US8033150 BB	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US8033150 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US8033150 BB	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US8033150 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US8033150 BB	20150413	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623

US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS

					COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623

US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8033150 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US8033150 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US8033150 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US8033150 BB	20290414	PEXP		Calculated Patent	

				Term Expiry (PTA 193 days and a terminal disclaimer has been filed)	
US8347678 BB	20130108	LSGT	+	granted / extensions (spc, cpc, pte)	
US8347678 BB	20080611	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NEWFREY, LLC, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CHONG, GERALD B; REEL/FRAME:021081/0990 EFFECTIVE DATE : 20080605
US8347678 BB	20121218	LSGT	PAT1	Patented Case	
US8347678 BB	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623

US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN

					OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO

US8347678 BB	20150720	LSAS	AS	ASSIGNMENT	BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8347678 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US8347678 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US8347678 BB	20160708	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8347678 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US8347678 BB	20301223	PEXP		Calculated Patent Term Expiry (PTA 925 days and a terminal disclaimer has been filed)	
US8656747 BB	20140225	LSGT	+	granted / extensions (spc, cpc, pte)	
US8656747 BB	20140205	LSGT	PAT1	Patented Case	
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCA, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

					OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC.,

					WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
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US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED

					PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS

US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8656747 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US8656747 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US8656747 BB	20170825	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8656747 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US8656747 BB	20310821	PEXP		Calculated Patent Term Expiry (PTA 1131 days and a terminal disclaimer has been filed)	
UY29255 A1	20060731	LSPB	+	published / reissued	
UY3978 U	20040430	LSPB	+	published / reissued	
UY4285 U	20100129	LSPB	+	published / reissued	
WO04029389 A2	20040408	LSPB	+	published / reissued	
WO04029389 A3	20050211	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2495269 COUNTRY OF REF DOCUMENT : CA
WO04029389 A3	20050217	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 628/DELNP/2005 COUNTRY OF REF DOCUMENT : IN
WO04029389 A3	20050218	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003272612 COUNTRY OF REF DOCUMENT : AU
WO04029389 A3	20050321	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1-2005- 500578 COUNTRY OF REF DOCUMENT : PH
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WO04029389 A3	20050323	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 05026534 COUNTRY OF REF DOCUMENT : CO
WO04029389 A3	20050325	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004540145 COUNTRY OF REF DOCUMENT : JP
WO04029389 A3	20050325	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020057005137 COUNTRY OF REF DOCUMENT : KR
WO04029389 A3	20050407	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 385.05 COUNTRY OF REF DOCUMENT : BZ
WO04029389 A3	20050608	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020057005137 COUNTRY OF REF DOCUMENT : KR
WO04029389 A3	20051102	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO04029389 A3	20060308	LSRV	-WWR	WIPO INFORMATION: REFUSED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 385.05 COUNTRY OF REF DOCUMENT : BZ
WO04081322 A2	20040923	LSPB	+	published / reissued	
WO04081322 A3	20050509	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1-2005- 501605 COUNTRY OF REF DOCUMENT : PH
WO04081322 A3	20050819	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2517012 COUNTRY OF REF DOCUMENT : CA
WO04081322 A3	20050824	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 3758/DELNP/2005 COUNTRY OF REF DOCUMENT : IN
WO04081322 A3	20050826	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 542038 COUNTRY OF REF DOCUMENT : NZ
WO04081322 A3	20050829	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004219671 COUNTRY OF REF DOCUMENT : AU
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WO04081322 A3	20050906	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020057016569 COUNTRY OF REF DOCUMENT : KR
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				IN:	COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20040305 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
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WO04081322 A3	20051020	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 398.05 COUNTRY OF REF DOCUMENT : BZ
WO04081322 A3	20051108	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1020057016569 COUNTRY OF REF DOCUMENT : KR
WO04081322 A3	20060301	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0408134 COUNTRY OF REF DOCUMENT : BR
WO04081322 A3	20060503	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO06010080 A2	20060126	LSPB	+	published / reissued	
WO06010080 A2	20060224	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007520573 COUNTRY OF REF DOCUMENT : JP
WO06010080 A3	20061220	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2571543 COUNTRY OF REF DOCUMENT : CA
WO06010080 A3	20070102	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200700058 COUNTRY OF REF DOCUMENT : ZA
WO06010080 A3	20070102	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007/00058 COUNTRY OF REF DOCUMENT : ZA
WO06010080 A3	20070105	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12007500060 COUNTRY OF REF DOCUMENT : PH
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WO06010080 A3	20070110	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 266/DELNP/2007 COUNTRY OF REF DOCUMENT : IN
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WO06010080 A3	20070126	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005780187 COUNTRY OF REF DOCUMENT : EP
WO06010080 A3	20070305	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200580029733.7 COUNTRY OF REF DOCUMENT : CN
WO06010080 A3	20070509	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005780187 COUNTRY OF REF DOCUMENT : EP
WO06010080 A3	20080429	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0513166 COUNTRY OF REF DOCUMENT : BR
WO06065609 A2	20060622	LSPB	+	published /	

WO06065609 A3	20070515	LSNP	+WWE	reissued WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2587772 COUNTRY OF REF DOCUMENT : CA
WO06065609 A3	20070524	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 3886/DELNP/2007 COUNTRY OF REF DOCUMENT : IN
WO06065609 A3	20070606	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007545610 COUNTRY OF REF DOCUMENT : JP
WO06065609 A3	20070612	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : MX/A/2007/007014 COUNTRY OF REF DOCUMENT : MX
WO06065609 A3	20070612	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200580042655.4 COUNTRY OF REF DOCUMENT : CN
WO06065609 A3	20070614	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO06065609 A3	20080213	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 05848881 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :
WO06065609 A3	20081216	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0518983 COUNTRY OF REF DOCUMENT : BR
WO09151464 A1	20091217	LSPB	+	published / reissued	
WO09151464 A1	20080722	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200880130674.6 COUNTRY OF REF DOCUMENT : CN
WO09151464 A1	20101122	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008357666 COUNTRY OF REF DOCUMENT : AU
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WO09151464 A1	20101201	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 8515/DELNP/2010 COUNTRY OF REF DOCUMENT : IN
WO09151464 A1	20101209	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12010502777 COUNTRY OF REF DOCUMENT : PH
WO09151464 A1	20101210	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2011513471 COUNTRY OF REF DOCUMENT : JP
WO09151464 A1	20101213	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : MX/A/2010/013734 COUNTRY OF REF DOCUMENT : MX
WO09151464 A1	20101214	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO09151464 A1	20101216	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2008357666 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20080722 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO09151464 A1	20110106	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13131740 COUNTRY OF REF DOCUMENT : CO
WO09151464 A1	20110106	LSNP	+WWE	WIPO	REF DOCUMENT NUMBER : 11001174

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WO09151464 A1	20110110	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20117000575 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO09151464 A1	20110110	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : CR2011- 000017 COUNTRY OF REF DOCUMENT : CR
WO09151464 A1	20110111	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008796429 COUNTRY OF REF DOCUMENT : EP
WO09151464 A1	20150630	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0822877 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20101210
ZA200700058 A	20080528	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA200700058 A	20270101	PEXP		Calculated Patent Term Expiry	

Title: RESTRICTED KEY SYSTEM

Abstract: A restricted key system providing keys/key slots with an angled or chevron shaped cross sectional profile. Each key blade of the restricted key system includes an upper planar portion which is bitted or cut to position the standard pin tumblers, an intermediate portion which forms a horizontal ledge, and a lower planar portion which extends from the intermediate portion at an angle in the range of 5 DEG -85 DEG relative to the upper planar portion. The horizontal ledge of the key blade may be provided with at least two additional biting surfaces for wards, tumblers and/or other key differing elements.

Classifications:

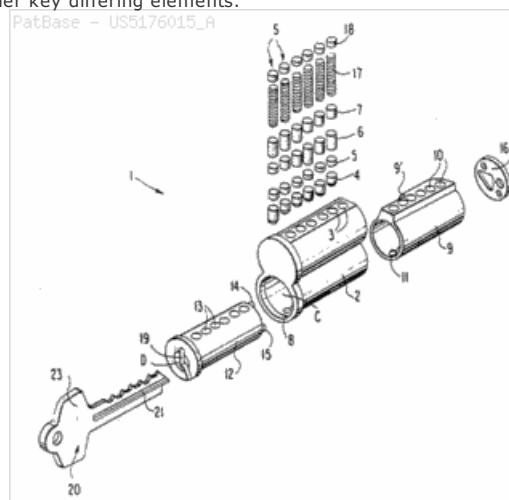
International (IPC 8-9): E05B27/00 E05B27/04 (Advanced/Invention)

International (IPC 1-7): E05B9/04

CPC: Y10T70/7463 Y10T70/765 Y10T70/787 Y10T70/7881 Y10T70/7944
E05B27/0053 E05B27/0042

European: E05B27/00M P05B27/00F

US: 70/340 70/369 70/407 70/409 70/421



Family:

Publication number	Publication date	Application number	Application date
US5176015 A	19930105	US19910683151	19910410
USRE35518 E	19970527	US19950368639	19950104

Priority:

US19910683151 19910410 US19950368639 19950104

Probable Assignee: MEDECO SECURITY LOCKS INC

Assignee(s): (std): MEDECO SECURITY LOCKS ; SUSSINA STAN J

Assignee(s): MEDECO SECURITY LOCKS INC

Inventor(s): (std): SUSSINA STAN J

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US5176015 A	19930105	LSGT	+	granted / extensions (spc, cpc, pte)	
US5176015 A	19921223	LSGT	PAT1	Patented Case	
US5176015 A	19940418	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MEDECO SECURITY LOCKS, INC., VIRGINIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SUSSINA, S. J.; REEL/FRAME:006952/0152 EFFECTIVE DATE : 19940318
US5176015 A	19960703	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5176015 A	20110410	PEXP		Calculated Patent Term Expiry	
USRE35518 E	19970514	LSGT	PAT1	Patented Case	
USRE35518 E	20000426	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
USRE35518 E	20040304	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

Title: **REKEYABLE** MASTER AND USER **LOCK** SYSTEM WITH HIGH SECURITY FEATURES

Abstract: Methods and apparatus are disclosed for multiple level user and master key **lock rekeying** changes externally by the use of appropriately bidded level change keys. Several variations of methods and apparatus for removing user level change wafers to **rekey** user levels independent of master levels and to **rekey** master levels independent of user levels are disclosed. Some of the apparatus are suitable for **locks** wherein the **cylinder** is rotatable at 180 DEG, and other embodiments are disclosed for **locks** wherein **cylinder** rotation is limited to less than 180 DEG. Further, apparatus for enhancing the security of such **rekeyable locks** are disclosed.

Classifications:

International (IPC 8-9): E05B27/00 E05B27/04

E05B35/08 (Advanced/Invention);

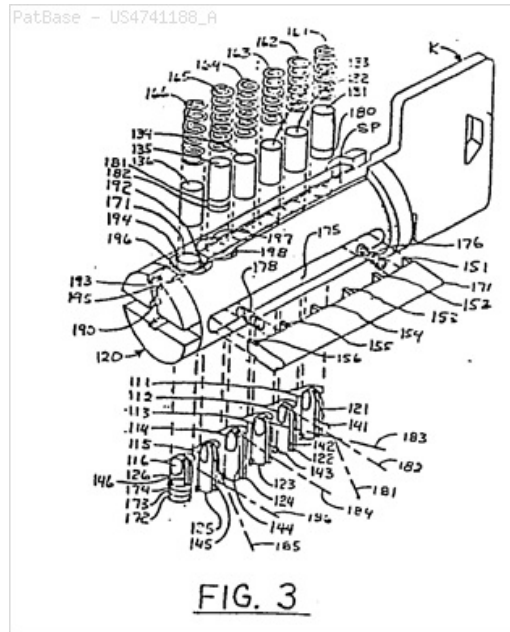
E05B27/00 E05B35/00 (Core/Invention)

International (IPC 1-7): E05B25/00 E05B27/00 E05B35/08

CPC: Y10T70/7734 Y10T70/774 E05B27/0053 E05B27/0082

European: E05B27/00M P05B27/00S

US: 70/383 70/384



Family:

Publication number	Publication date	Application number	Application date
AT58409 E	19901115	AT19860305416T	19860715
CA1290582 A1	19911015	CA19860513776	19860715
DE3675598 D1	19901220	DE19863675598	19860715
EP0210037 A2	19870128	EP19860305416	19860715
EP0210037 A3	19870805	EP19860305416	19860715
EP0210037 B1	19901114	EP19860305416	19860715
US4741188 A	19880503	US19850755471	19850716

Priority:

US19850755471 19850716 CA19860513776 19860715 EP19860305416 19860715
EP19860305416 19860715

Probable Assignee: SHIELD SECURITY SYSTEMS LLC

Assignee(s): (std): SMITH JERRY R

Assignee(s): SMITH JERRY R ENGLEWOOD COL US ; INTEL CORP ; SHIELD ACQUISITION LLC ; SHIELD SECURITY SYSTEMS INC ; SHIELD SECURITY SYSTEMS LLC

Inventor(s): (std): SMITH JERRY R

Agent(s): SMART AND BIGGAR

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT58409 E	19901115	LSGT	+	granted / extensions	(spc, cpc, pte)
AT58409 E	19910515	LSLE	-RER	CEASED AS TO	PARAGRAPH 5 LIT. 3
				LAW INTRODUCING	PATENT TREATIES
AT58409 E	20060715	PEXP		Calculated Patent Term	Expiry
CA1290582 A1	19911015	LSGT	+	granted / extensions	(spc, cpc, pte)
CA1290582 A1	20081015	LSLE	-MKEX	EXPIRY	

CA1290582 A1	20081015	PEXP		Calculated Patent Term Expiry	
DE3675598 D1	19911212	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE3675598 D1	19940721	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : SHIELD SECURITY SYSTEMS, INC., ENGLEWOOD, COL., US
DE3675598 D1	20001005	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : SHIELD SECURITY SYSTEMS,LLC, ENGLEWOOD, COL., US
EP0210037 A2	19870128	LSPB	+	published / reissued	
EP0210037 A3	19880406	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19880202
EP0210037 A3	19881207	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19881021
EP0210037 B1	19901114	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0210037 B1	19901114	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH LAPSED DATE : 19901114
EP0210037 B1	19901114	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI LAPSED DATE : 19901114
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EP0210037 B1	19901114	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL LAPSED DATE : 19901114
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EP0210037 B1	19910228	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0210037 B1	19910416	LSLE	-NLV1	NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT	REF COUNTRY CODE : EP
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EP0210037 B1	19990903	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : TP
EP0210037 B1	20040727	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20040727 YEAR OF FEE PAYMENT : 19
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EP0210037 B1	20050729	LSFE	+PGFP	EPO] ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20050729 YEAR OF FEE PAYMENT : 20
EP0210037 B1	20050731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20050731
EP0210037 B1	20060331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20060331
EP0210037 B1	20060512	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20060331
EP0210037 B1	20060714	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20060714
EP0210037 B1	20060809	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : PE20
EP0210037 B1	20071231	LSLE	-BERE	BE: LAPSED	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : *SHIELD SECURITY SYSTEMS LLC EFFECTIVE DATE : 20050731
EP0210037 B1	20060715	PEXP		Calculated Patent Term Expiry	
US4741188 A	19880503	LSGT	+	granted / extensions (spc, cpc, pte)	
US4741188 A	19880304	LSGT	PAT1	Patented Case	
US4741188 A	19911031	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4741188 A	19930419	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INTEL CORPORATION, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:WELLS, STEVEN E.; KYNETT, VIRGIL NILES; KENDALL, TERRY L.; AND OTHERS; REEL/FRAME:006504/0172; SIGNING DATES FROM 19930405 TO 19930413
US4741188 A	19930419	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SHIELD SECURITY SYSTEMS, INC., COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:SMITH, JERRY R.; REEL/FRAME:006504/0163 EFFECTIVE DATE : 19930312
US4741188 A	19951003	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4741188 A	19980728	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SHIELD ACQUISITION, L.L.C., COLORADO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SHIELD SECURITY SYSTEMS, INC.; REEL/FRAME:009350/0043 EFFECTIVE DATE : 19980615
US4741188 A	19990104	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SHIELD SECURITY SYSTEMS, L.L.C., COLORADO OLDPARTY : CHANGE OF NAME; ASSIGNOR:SHIELD ACQUISITION, L.L.C.; REEL/FRAME:009670/0669 EFFECTIVE DATE : 19980616

Title: ANTI-VANDAL DOOR **LOCK** APPARATUS

Abstract: An anti-vandal door **lock** apparatus in which a **cylinder lock** such as a mortise **lock cylinder** is employed for unlatching a cylindrical **lock** assembly. In a preferred embodiment, the mortise **lock cylinder** is mounted to the outside of a door trim such as a pull plate, with the cylindrical **lock** mounted to the inside of the trim, and the pull plate is mounted to the door, in such manner as to effect an anti-vandal door **lock** assembly. Preferred embodiments may include a hold-back feature, as well as a feature for facilitating secured removal of the mortise **lock cylinder** as for re-keying.

Classifications:

International (IPC 8-9): E05B55/00 (Advanced/Invention);

E05B17/20 E05B9/08 (Advanced/Non-invention);

E05B55/00 (Core/Invention);

E05B17/00 E05B9/00 (Core/Non-invention)

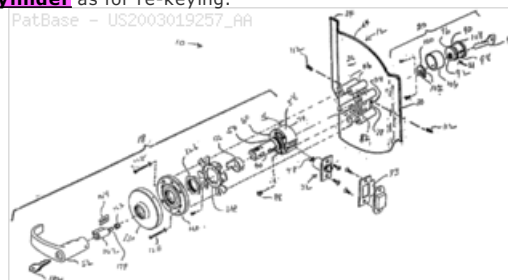
International (IPC 1-7): E05B13/10 E05B9/08 G05G5/00

CPC: Y10S70/06 Y10S70/59 Y10S70/60 E05B55/005 E05B9/084

E05B17/2088 Y10T70/5792 Y10T70/5832 Y10T70/7655 Y10T70/8027
Y10T70/8568

European: E05B55/00C P05B17/20G2 P05B9/08C

US: 70/215 70/224 70/370 70/432 70/452 70/DIG.59 70/DIG.6
70/DIG.60 702/150



Family:

Publication number	Publication date	Application number	Application date
US2003019257 AA	20030130	US20010917019	20010725
US2004168491 AA	20040902	US20040793310	20040303
US2004187531 AA	20040930	US20040821316	20040408
US6868704 BB	20050322	US20010917019	20010725
US6886379 BB	20050503	US20040793310	20040303

Priority:

US20010917019 20010725 US20040793310 20040303 US20040821316 20040408

Probable Assignee: TRIANGLE BRASS MFG CO INC

Assignee(s): (std): TRIANGLE BRASS MFG CO INC ; TRIANGLE BRASS MFG COMPANY INC

Assignee(s): JIN TAY IND CO LTD ; TRIANGLE BRASS MANU CTURING FA ; TRIANGLE BRASS MANUFACTURING COMPANY INC ; TRIANGLE BRASS MFG

Inventor(s): (std): SIMON IRA J ; SIMON MARTIN S

Agent(s): DAVID; WEISS DAVID

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2003019257 AA	20030130	LSPB	+	published / reissued	
US2003019257 AA	20050302	LSGT	PAT1	Patented Case	
US2004168491 AA	20040902	LSPB	+	published / reissued	
US2004187531 AA	20040930	LSPB	+	published / reissued	
US2004187531 AA	20050408	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US6868704 BB	20050322	LSGT	+	granted / extensions (spc, cpc, pte)	
US6868704 BB	20010725	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TRIANGLE BRASS MANUFACTURING COMPANY, INC., CALIFO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SIMON, IRA J.; SIMON, MARTIN S.; REEL/FRAME:012032/0068 EFFECTIVE DATE : 20010723
US6868704 BB	20050524	LSRE	CC	CERTIFICATE OF CORRECTION	
US6868704 BB	20080530	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6868704 BB	20120904	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8

US6868704 BB	20170315	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6868704 BB	20220123	PEXP		Calculated Patent Term Expiry (PTA 182 days)	
US6886379 BB	20050503	LSGT	+	granted / extensions (spc, cpc, pte)	
US6886379 BB	20050413	LSGT	PAT1	Patented Case	
US6886379 BB	20080529	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6886379 BB	20120920	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6886379 BB	20161017	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6886379 BB	20240303	PEXP		Calculated Patent Term Expiry	

Title: RESET FIXTURE FOR **REKEYABLE LOCK** ASSEMBLY

Abstract: A reset fixture for a **rekeyable lock cylinder** includes a housing with a central recess for receiving a **cylinder** body. A first opening communicating with the central recess is defined in the housing for receiving a reset tool. A second opening communicating with the central recess is defined in the housing for receiving a bracing bar.

Classifications:

International (IPC 8-9): E05B15/00 E05B17/00 E05B25/00 E05B27/04

E05B29/00 E05B29/04 (Advanced/Invention);

E05B25/00 (Advanced/Non-invention);

E05B15/00 E05B17/00 E05B25/00 E05B27/00 E05B29/00

E05B29/04 (Core/Invention)

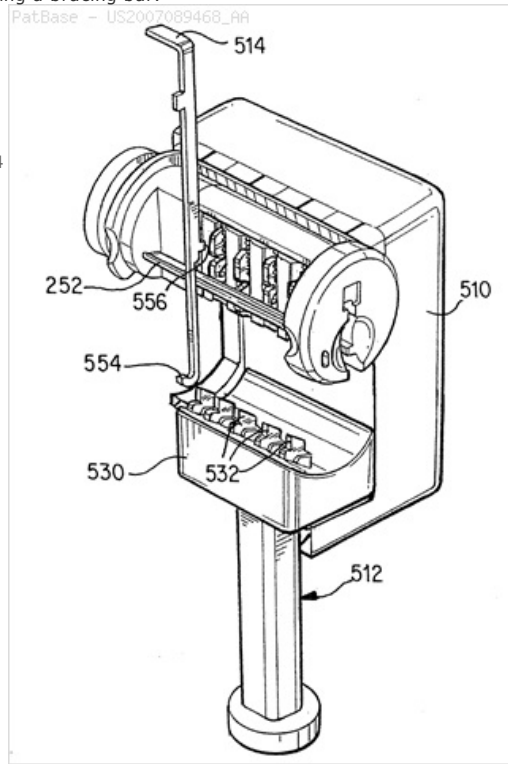
International (IPC 1-7): E05B29/04

CPC: E05B29/004 Y10T29/53457 Y10T70/7605 Y10T70/7616 Y10T70/7684

Y10T70/7734 Y10T70/7751 E05B29/0066 E05B17/0004

European: E05B29/00K

US: 29/804 70/375 70/383 70/386 70/493 70/495



Family:

Publication number	Publication date	Application number	Application date
AU2006306527 AA	20070503	AU20060306527	20061020
BRPI0617435 A2	20110726	BR2006PI17435	20061020
CA2624642 AA	20080402	CA20062624642	20061020
CA2624642 C	20140128	CA20062624642	20061020
CN101313117 A	20081126	CN200680043219	20061020
IN03243DN2008 A	20080815	IN2008DN03243	20080421
IN299884 B	20180817	IN2008DN03243	20080421
JP2009512797 T2	20090326	JP20080536789T	20061020
KR20080068878 A	20080724	KR20087012057	20061020
TH53404 B	20170119	TH20061004975	20061009
TH87691 A	20071120	TH20061004975	20061009
US2007089468 AA	20070426	US20050255616	20051021
US2008011033 AA	20080117	US20070779662	20070718
US8881567 BB	20141111	US20050255616	20051021
WO07050411 A2	20070503	WO2006US40816	20061020
WO07050411 A3	20070712	WO2006US40816	20061020

Priority:

US20050255616 20051021 WO2006US40816 20061020 US20070779662 20070718

Probable Assignee: SPECTRUM BRANDS INC

Assignee(s): (std): NEWFREY LLC ; KWIKSET CORP ; CHONG GERALD B ; ARMSTRONG STEVEN

Assignee(s): BANK OF AMERICA NA AGENT AS ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; APPLICA CONSUMER PRODUCTS INC ; APPLICA CONSUMER PRODUCTS INC A CORP OF FLORIDA ; LIQUID HOLDING CO INC ; NATIONAL MFG CO ; PRICE PFISTER INC ; ROV HOLDING INC A CORP OF DELAWARE ; ROVICAL INC ; ROVICAL INC A CORP OF CALIFORNIA ; SPECTRUM BRANDS INC ; RUSSELL HOBBS INC A CORP OF DELAWARE ; SALIX ANIMAL HEALTH LLC ; SEED RESOURCES LLC ; SPECTRUM BRANDS INC A CORP OF DELAWARE ; SPECTRUM BRANDS INC SUCCESSOR IN INTEREST TO ROVICAL INC AS ; TELL MFG INC ; TETRA HOLDING US INC A CORP OF DELAWARE ; TETRA HOLDINGS US INC ; UNITED IND CORP ; UNITED IND SUCCESSOR IN INTEREST TO LIQUID HOLDING CO INC AS CORP ; UNITED PET GROUP INC ; RUSSELL HOBBS INC ; TETRA HOLDING US INC ; TOASTMASTER INC ; ROYAL BANK OF CANADA ; WELLS FARGO BANK NATIONAL ASSOCIATION ; UNITED PET GROUP INC A CORP OF DELAWARE

Inventor(s): (std): ARMSTRONG STEVEN ; CHONG GERALD B ; STEVEN ARMSTRONG

Inventor(s): GERALD B CHONG ; CHONG GERALD

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BLAKE CASSELS AND GRAYDON LLP; RIDOUT AND MAYBEE LLP; OHTSUKA FUMIAKI; SUDA HIROYUKI; KUMAKURA YOSHIO; NISHIJIMA TAKAKI; BLACK AND DECKER CORP; RICHARD J VELTMAN ESQ BLACK AND DECKER CORP; BARNES AND THORNBURG 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 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 MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2006306527 AA	20070503	LSPB	+	published / reissued	
AU2006306527 AA	20120517	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
BRPI0617435 A2	20140930	LSAS	B25A	REQUESTED TRANSFER OF RIGHTS APPROVED	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. (US)
BRPI0617435 A2	20141014	LSAS	B25A	REQUESTED TRANSFER OF RIGHTS APPROVED	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION (US)
BRPI0617435 A2	20170124	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI0617435 A2	20170613	LSRV	B09B	DECISION: REFUSAL	
BRPI0617435 A2	20171128	LSRV	B09B	DECISION: REFUSAL	
CA2624642 AA	20080402	LSPB	+	published / reissued	
CA2624642 AA	20111013	LSES	+EEER	EXAMINATION REQUEST	
CA2624642 C	20140128	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2624642 C	20171202	LSLE	-MKLA	LAPSED	EFFECTIVE DATE : 20171020
CA2624642 C	20261020	PEXP		Calculated Patent Term Expiry	
CN101313117 A	20081126	LSPB	+	published / reissued	
CN101313117 A	20081126	LSPB	+C06	PUBLICATION	
CN101313117 A	20090722	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
IN03243DN2008 A	20080815	LSPB	+	published / reissued	
IN299884 B	20180817	LSGT	+	granted / extensions (spc, cpc, pte)	
IN299884 B	20280421	PEXP		Calculated Patent Term Expiry	
JP2009512797 T2	20090326	LSPB	+	published / reissued	
KR20080068878 A	20080724	LSPB	+	published / reissued	
KR20080068878 A	20111121	LSDW	-WITN	WITHDRAWAL DUE TO NO REQUEST FOR	

EXAMINATION					
TH53404 B	20170119	LSGT	+	granted / extensions (spc, cpc, pte)	
TH53404 B	20261009	PEXP		Calculated Patent Term Expiry	
TH87691 A	20071120	LSPB	+	published / reissued	
US2007089468 AA	20070426	LSPB	+	published / reissued	
US2007089468 AA	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US2007089468 AA	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US2007089468 AA	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US2007089468 AA	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US2008011033 AA	20080117	LSPB	+	published / reissued	
US2008011033 AA	20090316	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US8881567 BB	20141111	LSGT	+	granted / extensions (spc, cpc, pte)	
US8881567 BB	20051107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NEWFREY LLC, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:CHONG, GERALD B.; ARMSTRONG, STEVEN; REEL/FRAME:016984/0450 EFFECTIVE DATE : 20051031
US8881567 BB	20141022	LSGT	PAT1	Patented Case	
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623

US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION,

					CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001

					EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCON OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623

US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US8881567 BB	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US8881567 BB	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US8881567 BB	20180427	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8881567 BB	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US8881567 BB	20251021	PEXP		Calculated Patent Term Expiry	
WO07050411 A2	20070503	LSPB	+	published / reissued	
WO07050411 A2	20061020	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL	REF DOCUMENT NUMBER : 200680043219.3 COUNTRY OF REF DOCUMENT : CN

				PHASE	
WO07050411 A3	20080402	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2624642 COUNTRY OF REF DOCUMENT : CA
WO07050411 A3	20080410	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006306527 COUNTRY OF REF DOCUMENT : AU
WO07050411 A3	20080410	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12008500858 COUNTRY OF REF DOCUMENT : PH
WO07050411 A3	20080418	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2008536789 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO07050411 A3	20080421	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 3243/DELNP/2008 COUNTRY OF REF DOCUMENT : IN
WO07050411 A3	20080421	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : MX/A/2008/005232 COUNTRY OF REF DOCUMENT : MX
WO07050411 A3	20080422	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO07050411 A3	20080520	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1020087012057 COUNTRY OF REF DOCUMENT : KR
WO07050411 A3	20081119	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 06817146 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :
WO07050411 A3	20110726	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : PI0617435 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20080416

Title: TOOL-LESS REKEYABLE LOCK CYLINDER

Abstract: A rekeyable lock cylinder includes a plug assembly and a lock cylinder. The plug assembly includes a plug body, a plurality of key followers, a plurality of racks, and a rack carrier that carries the plurality of racks. The rack carrier is moveable relative to the plug body between a proximal end and a distal end. A cam follower extends outwardly from the rack carrier. The lock cylinder body includes a cylinder wall with the plug assembly rotatably disposed therein, and has a cam track configured on the cylinder wall at an interior surface to guide the cam follower of the plug assembly. The cam track has a ramp portion configured to longitudinally displace the cam follower and the rack carrier as the plug assembly is rotated relative to the lock cylinder body to facilitate selective disengagement of the plurality of racks from the plurality of key followers.

Classifications:**International (IPC 8-9):** E05B E05B27/04 E05B29/04

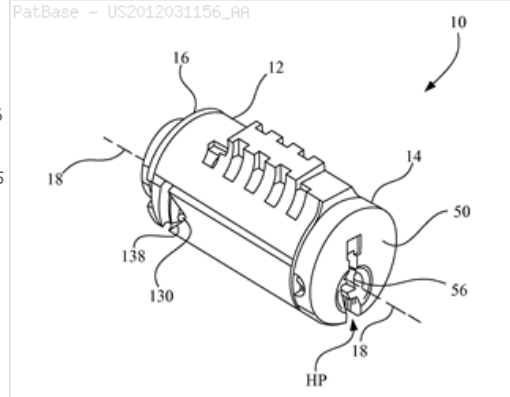
E05B9/04 (Advanced/Invention);

E05B27/04 E05B29/04 (Core/Invention);

E05B (Subclass/Invention)

CPC: Y10T70/7463 Y10T70/7469 Y10T70/7599 Y10T70/7605 Y10T70/7616 Y10T70/7734 Y10T70/774 Y10T70/8486 E05B27/005**European:** E05B27/00K**US:** 70/340 70/341 70/383 70/384 70/449 70/449P 70/492 70/493 70/495

PatBase - US2012031156_AA

**Family:**

Publication number	Publication date	Application number	Application date
AR082589 AA	20121219	AR2011P102868	20110805
AU2011289709 AA	20120216	AU20110289709	20110805
AU2011289709 BB	20150625	AU20110289709	20110805
CN103210163 A	20130717	CN201180046582	20110805
CN103210163 B	20160427	CN201180046582	20110805
DE602011046978 D1	20180426	DE201160046978T	20110805
EP2603653 A1	20130619	EP20110816848	20110805
EP2603653 A4	20160817	EP20110816848	20110805
EP2603653 B1	20180328	EP20110816848	20110805
HK1187662 A1	20170630	HK20140100483	20140116
HK1187662 A1	20140411	HK20140100483	20140116
HK1187662 B	20170630	HK20140100483	20140116
IN01202DN2013 A	20140912	IN2013DN01202	20130207
KR101386771 B1	20140421	KR20137004543	20110805
KR20130041258 A	20130424	KR20137004543	20110805
MX2013001499 A1	20130605	MX20130001499	20110805
TH131362 A	20140227	TH20131000674	20110805
TH56617 B	20170810	TH20131000674	20110805
US2012031156 AA	20120209	US20100852716	20100809
US8099988 BA	20120124	US20100852716	20100809
WO12021384 A1	20120216	WO2011US46681	20110805

Priority:

US20100852716 20100809 EP20110816848 20110805 WO2011US46681 20110805

Probable Assignee: NEWFREY LLC**Assignee(s):** (std): NEWFREY LLC ; SPECTRUM BRANDS INC ; WHEATLAND GRAHAM J ; KWIKSET CORP

Assignee(s): LIQUID HOLDING CO INC ; APPLICA CONSUMER PRODUCTS INC ; APPLICA CONSUMER PRODUCTS INC A CORP OF FLORIDA ; BANK OF AMERICA NA AGENT AS ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; WELLS FARGO BANK NATIONAL ASSOCIATION ; SPECTRUM BRANDS INC A CORP OF DELAWARE ; SPECTRUM BRANDS INC SUCCESSOR IN INTEREST TO ROVCAL INC AS ; TELL MFG INC ; TETRA HOLDING US INC A CORP OF DELAWARE ; TETRA HOLDINGS US INC ; UNITED IND CORP ; UNITED IND SUCCESSOR IN INTEREST TO LIQUID HOLDING CO INC AS CORP ; UNITED PET GROUP INC ; UNITED PET GROUP INC A CORP OF DELAWARE ; TETRA HOLDING US INC ; TOASTMASTER INC ; SPECTRUM BRANDS INC MIDDLETON ; NATIONAL MFG CO ; PRICE PFISTER INC ; ROV HOLDING INC A CORP OF DELAWARE ; ROVCAL INC ; ROVCAL INC A CORP OF CALIFORNIA ; RUSSELL HOBBS INC A CORP OF DELAWARE ; SALIX ANIMAL HEALTH LLC ; SEED RESOURCES LLC ; RUSSELL HOBBS INC ; ROYAL BANK OF CANADA

Inventor(s): (std): WHEATLAND GRAHAM J ; WHEATLAND GRAHAM J GJ**Inventor(s):** WHEATLAND GRAHAM J VAIL ; GRAHAM J WHEATLAND

Agent(s): ALLENS PATENT AND TRADE MARK ATTORNEYS; STIPL PATENTANWALTE; DAVIES CHRISTOPHER ROBERT; NTD PATENT AND TRADE MARK AGENCY LTD; AUST IP LAW; RICHARD J; RONALD K; VELTMAN RICHARD

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 LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)
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Patent	Date recorded	Event group	Code	Event	Details
AR082589 AA	20121219	LSPB	+	published / reissued	
AR082589 AA	20150223	LSGT	+FG	GRANT, REGISTRATION	
AU2011289709 AA	20120216	LSPB	+	published / reissued	
AU2011289709 AA	20130502	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION OLDPARTY : FORMER APPLICANT(S): NEWFREY LLC
AU2011289709 BB	20150625	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2011289709 BB	20151022	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2011289709 BB	20180301	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2011289709 BB	20310805	PEXP		Calculated Patent Term Expiry	
CN103210163 A	20130717	LSPB	+	published / reissued	
CN103210163 A	20130717	LSPB	+C06	PUBLICATION	
CN103210163 A	20160427	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN103210163 A	20170630	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : HK REF LEGAL EVENT CODE : GR REF DOCUMENT NUMBER : 1187662 COUNTRY OF REF DOCUMENT : HK
CN103210163 B	20160427	LSGT	+	granted / extensions (spc, cpc, pte)	
CN103210163 B	20310805	PEXP		Calculated Patent Term Expiry	
EP2603653 A1	20130619	LSPB	+	published / reissued	
EP2603653 A1	20130619	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20130308
EP2603653 A4	20160817	LSSES	+RA4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED (CORRECTED)	EFFECTIVE DATE : 20160714
EP2603653 A4	20160817	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 29/04 20060101ALI20160708BHEP
EP2603653 A4	20160817	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 27/04 20060101AFI20160708BHEP
EP2603653 A4	20170823	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20170725
EP2603653 A4	20180110	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC.
EP2603653 A4	20180221	LSGT	+INTG	INTENTION TO	EFFECTIVE DATE : 20180117

EP2603653 B1	20180328	LSGT	+	GRANT ANNOUNCED granted / extensions (spc, cpc, pte)	
EP2603653 B1	20180328	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2603653 B1	20180329	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2603653 B1	20180415	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 983595 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20180415
EP2603653 B1	20180418	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2603653 B1	20180426	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602011046978 COUNTRY OF REF DOCUMENT : DE
EP2603653 B1	20180731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20180328
EP2603653 B1	20180731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20180328
EP2603653 B1	20180731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20180628
EP2603653 B1	20180731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20180328
EP2603653 B1	20180810	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2603653 B1	20180831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20180328
EP2603653 B1	20180831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20180328
EP2603653 B1	20180831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20180629

EP2603653 B1	20180831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180328
EP2603653 B1	20180831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180628
EP2603653 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AL NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180328
EP2603653 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180328
EP2603653 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180328
EP2603653 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180328
EP2603653 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180328
EP2603653 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180328
EP2603653 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180328
EP2603653 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SM NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180328
EP2603653 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20180328
EP2603653 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONNOFLAPSE : LAPSE BECAUSE

				STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20180328
EP2603653 B1	20181215	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 983595 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20180328
EP2603653 B1	20181231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20180730
EP2603653 B1	20190103	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602011046978 COUNTRY OF REF DOCUMENT : DE
EP2603653 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20180328
EP2603653 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20180328
EP2603653 B1	20190306	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20190103
EP2603653 B1	20310805	PEXP		Calculated Patent Term Expiry	
HK1187662 A1	20140411	LSPB	+	published / reissued	
HK1187662 A1	20170630	LSPB	+	published / reissued	
HK1187662 A1	20340116	PEXP		Calculated Patent Term Expiry	
HK1187662 A1	20340116	PEXP		Calculated Patent Term Expiry	
HK1187662 B	20170630	LSGT	+	granted / extensions (spc, cpc, pte)	
HK1187662 B	20340116	PEXP		Calculated Patent Term Expiry	
IN01202DN2013 A	20140912	LSPB	+	published / reissued	
KR101386771 B1	20140421	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101386771 B1	20130222	LSSES	A201	REQUEST FOR EXAMINATION	
KR101386771 B1	20130403	LSAS	N231	NOTIFICATION OF CHANGE OF APPLICANT	
KR101386771 B1	20170330	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20170331 YEAR OF FEE PAYMENT : 4
KR101386771 B1	20180412	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
KR101386771 B1	20310805	PEXP		Calculated	

					Patent Term Expiry
KR20130041258 A	20130424	LSPB	+		published / reissued
KR20130041258 A	20140128	LSGT	+E701		DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT
KR20130041258 A	20140411	LSGT	+GRNT		WRITTEN DECISION TO GRANT
MX2013001499 A1	20130605	LSPB	+		published / reissued
MX2013001499 A1	20150511	LSGT	+FG		GRANT OR REGISTRATION
TH131362 A	20140227	LSPB	+		published / reissued
TH56617 B	20170810	LSGT	+		granted / extensions (spc, cpc, pte)
TH56617 B	20310805	PEXP			Calculated Patent Term Expiry
US2012031156 AA	20120209	LSPB	+		published / reissued
US2012031156 AA	20121220	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NEWFREY LLC; REEL/FRAME:029510/0820 EFFECTIVE DATE : 20121217
US2012031156 AA	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : PATENT SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029538/0186 EFFECTIVE DATE : 20121217
US2012031156 AA	20121228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : PATENT ASSIGNMENT AGREEMENT; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:029537/0001 EFFECTIVE DATE : 20121217
US2012031156 AA	20130131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., AS AGENT, CONNECTICUT OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:PRICE PFISTER, INC.; KWIKSET CORPORATION; NATIONAL MANUFACTURING CO.; REEL/FRAME:029731/0589 EFFECTIVE DATE : 20121217
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA,

					N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOASTMASTER INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623

US2012031156 AA	20150702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:BANK OF AMERICA, N.A., AS AGENT; REEL/FRAME:036052/0845 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC. AS SUCCESSOR IN INTEREST TO OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LIQUID HOLDING COMPANY, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRICE PFISTER, INC., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDING (US), INC., A CORP. OF DELAWARE, VIR OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TELL MANUFACTURING, INC., PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RUSSELL HOBBS, INC., A CORP. OF DELAWARE, ILLINOIS OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION AS SUCCESSOR IN INTE

					OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., A CORP. OF CALIFORNIA, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TETRA HOLDINGS (US), INC., VIRGINIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SALIX ANIMAL HEALTH, LLC, FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., A CORP. OF DELAWARE, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., FLORIDA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SEED RESOURCES, L.L.C., MICHIGAN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED PET GROUP, INC., A CORP. OF DELAWARE, WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KWIKSET CORPORATION, CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROV HOLDING, INC., A CORP. OF DELAWARE, DELAWARE OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK,

					NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROVCAL, INC., WISCONSIN OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLICA CONSUMER PRODUCTS, INC., A CORP. OF FLORID OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UNITED INDUSTRIES CORPORATION, MISSOURI OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL MANUFACTURING CO., CALIFORNIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE; REEL/FRAME:036102/0001 EFFECTIVE DATE : 20150623
US2012031156 AA	20150720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AG OLDPARTY : SECURITY INTEREST; ASSIGNOR:SPECTRUM BRANDS, INC.; REEL/FRAME:036131/0272 EFFECTIVE DATE : 20150623
US2012031156 AA	20150724	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US2012031156 AA	20160622	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SPECTRUM BRANDS, INC., WISCONSIN OLDPARTY : MERGER; ASSIGNOR:KWIKSET CORPORATION; REEL/FRAME:039116/0293 EFFECTIVE DATE : 20141104
US2012031156 AA	20180605	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ROYAL BANK OF CANADA, ONTARIO OLDPARTY : NOTICE OF SUCCESSOR AGENT AND ASSIGNMENT OF SECURITY INTEREST (INTELLECTUAL PROPERTY) REEL/FRAME 036131/0272; ASSIGNOR:DEUTSCHE BANK AG NEW YORK BRANCH; REEL/FRAME:046301/0425 EFFECTIVE DATE : 20180601
US8099988 BA	20120124	LSGT	+	granted / extensions (spc, cpc, pte)	
US8099988 BA	20100923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NEWFREY, LLC, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:WHEATLAND, GRAHAM J.; REEL/FRAME:025069/0270 EFFECTIVE DATE : 20100807
US8099988 BA	20120104	LSGT	PAT1	Patented Case	
US8099988 BA	20300916	PEXP		Calculated Patent Term Expiry (PTA 38 days)	

WO12021384 A1	20120216	LSPB	+	published / reissued	
WO12021384 A1	20110805	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 201180046582.1 COUNTRY OF REF DOCUMENT : CN
WO12021384 A1	20130206	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : MX/A/2013/001499 COUNTRY OF REF DOCUMENT : MX
WO12021384 A1	20130206	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12013500248 COUNTRY OF REF DOCUMENT : PH
WO12021384 A1	20130211	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO12021384 A1	20130222	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 20137004543 COUNTRY OF REF DOCUMENT : KR KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO12021384 A1	20130228	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2011289709 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20110805 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO12021384 A1	20130308	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2011816848 COUNTRY OF REF DOCUMENT : EP

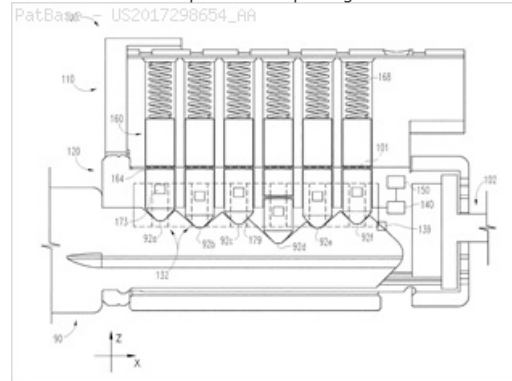
Title: **LOCK CYLINDER** WITH ELECTRONIC KEY RECOGNITION

Abstract: A **lock cylinder** including a plug, a plurality of key followers, a sensor assembly structured to sense positions of the key followers, and a controller in communication with the sensor assembly. The plug includes a keyway and a plurality of plug tumbler shafts. Each of the key followers is movably seated in a corresponding one of the plug tumbler shafts and includes a sensor interface. The sensor assembly includes a plurality of sensors, each of which includes at least one sensing region. Each of the key followers is associated with one of the sensors via an associative link formed between the sensor interface and the corresponding sensing region. The sensors are structured to generate an output signal indicative of the transverse position of the associated key follower, and the controller is structured to select and perform actions based upon the output signals.

Classifications:

International (IPC 8-9): E05B27/00 E05B47/06 (Advanced/Invention)

CPC: E05B27/0042 E05B27/0082 E05B27/0071 E05B47/063 E05B2047/0067 E05B27/0017



Family:

Publication number	Publication date	Application number	Application date
US2017298654 AA	20171019	US20160081609	20160414

Priority:

US20160081609 20160414

Probable Assignee: SCHLAGE LOCK CO LLC

Assignee(s): (std): SCHLAGE LOCK CO LLC

Inventor(s): (std): DUTT ANOOP N M ; HOLMES DOUGLAS A ; MCKIBBEN AARON P ; VASUDEVAN SUNDAR R D

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US2017298654 AA	20171019	LSPB	+	published / reissued	
US2017298654 AA	20170215	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SCHLAGE LOCK COMPANY LLC, INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HOLMES, DOUGLAS A; MCKIBBEN, AARON P; VASUDEVAN, SUNDAR RAJ DORE; AND OTHERS; SIGNING DATES FROM 20160325 TO 20160628; REEL/FRAME:041258/0408
US2017298654 AA	20180619	LSES	NFA1	Non Final Action Mailed	

Title: DOOR TRACKING SYSTEM AND METHOD

Abstract: A **locking** device that can be mounted into a rotating or swinging door is disclosed. The **locking** device can have a deadbolt. The **locking** device can detect the position of the deadbolt and/or whether the door is closed. The **locking** device can have a camera, microphone and speaker. The **locking** device can send images detected by the camera and audio detected by the microphones to a remote computer.

Classifications:

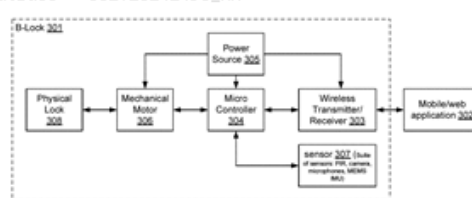
International (IPC 8-9): E05B37/00 E05B47/00 E05B49/00 E05B63/04 G01B11/00 G01B11/02 G07C9/00 G08B13/196 H04L12/22

H04M11/04 (Advanced/Invention);

G07C9/00 (Advanced/Non-invention)

CPC: E05B2047/0058 E05B2047/0068 E05B2047/0069 E05B2047/0084 G07C2009/00769 G07C9/00174 G07C9/00563 G07C9/00571 G07C2209/08 E05B47/026 E05B63/04 E05B47/0001 E05B49/002 E05B37/0044 E05B37/0048 E05B37/0041 G07C9/00182 E05B2047/0048 E05B37/0062 E05B37/0034 E05B47/0012

PatBase - US2018142498_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2018142498 AA	20180524	US20170458839	20170314
US9822553 BA	20171121	US20160360758	20161123

Priority:

US20160360758 20161123 US20170458839 20170314

Probable Assignee: GATE LABS INC

Assignee(s): (std): GATE LABS INC

Inventor(s): (std): EHYAIE DANIAL ; HO HARVEY ; SAEEDI EHSAN

Agent(s): LEVINE BAGADE HAN LLP

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US2018142498 AA	20180524	LSPB	+	published / reissued	
US2018142498 AA	20170314	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GATE LABS INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HO, HARVEY; SAEEDI, EHSAN; EHYAIE, DANIAL; REEL/FRAME:041573/0815 EFFECTIVE DATE : 20161124
US2018142498 AA	20180612	LSSES	NFA1	Non Final Action Mailed	
US2018142498 AA	20190118	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US9822553 BA	20171121	LSGT	+	granted / extensions (spc, cpc, pte)	
US9822553 BA	20170206	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GATE LABS INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:HO, HARVEY; SAEEDI, EHSAN; EHYAIE, DANIAL; REEL/FRAME:041186/0406 EFFECTIVE DATE : 20161124
US9822553 BA	20171101	LSGT	PAT1	Patented Case	
US9822553 BA	20361123	PEXP		Calculated Patent Term Expiry	

Title: REMOVABLE PLUG **LOCK**

Abstract: PCT No. PCT/AU97/00178 Sec. 371 Date Sep. 24, 1998 Sec. 102(e) Date Sep. 24, 1998 PCT Filed Mar. 20, 1997 PCT Pub. No. WO97/36072 PCT Pub. Date Oct. 2, 1997A **lock** with a plug (2) removable from a housing (16) is disclosed. The plug (2) includes a restraining member (46) and a protrusion (40) which engages a concentric groove (52) formed onto a plug housing. Intersecting the concentric groove is a longitudinal groove (50). Upon inserting an operation key the restraining member is forced into engagement with the concentric groove thereby preventing plug removal even upon alignment of the protrusion with the longitudinal groove (50). Upon inserting a removal key (42) the restraining member (46) is disengaged from the concentric groove so that the plug may be withdrawn upon rotationally aligning the protrusion (40) with the longitudinal groove (50). In this manner a simple and compact removable plug is provided to aid rapid **lock** re-keying.

Classifications:

International (IPC 8-9): E05B27/00 E05B27/04 E05B27/06

E05B9/08 (Advanced/Invention);

E05B27/00 E05B9/00 (Core/Invention)

International (IPC 1-7): E05B E05B27/00 E05B27/04 E05B27/06

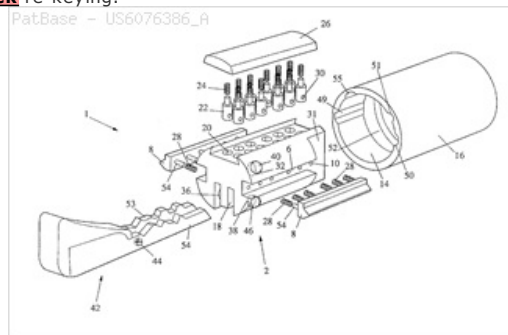
E05B9/08

CPC: Y10T70/7565 Y10T70/7616 Y10T70/765 E05B9/086 E05B27/0042

E05B27/0082

European: E05B27/00S E05B9/08C2 P05B27/00F

US: 70/358 70/369 70/495 703/690



Family:

Publication number	Publication date	Application number	Application date
AT218664 E	20020615	AT19970913975T	19970320
AU199721428 A1	19971017	AU19970021428	19970320
AU707974 B2	19990722	AU19970021428	19970320
AU890196 A0	19960418	AU1996PN08901	19960325
CA2249988 AA	19980924	CA19972249988	19970320
CA2249988 C	20040316	CA19972249988	19970320
DE69713087 D1	20020711	DE19976013087	19970320
DE69713087 T2	20021212	DE19976013087T	19970320
EP0892879 A1	19990127	EP19970913975	19970320
EP0892879 A4	19990210	EP19970913975	19970320
EP0892879 B1	20020605	EP19970913975	19970320
ID16307 A	19970918	ID19970000963	19970325
JP2000507321 T2	20000613	JP19970533866T	19970320
JP3529795 B2	20040524	JP19970533866T	19970320
MY119994 A	20050830	MY19970001200	19970321
NZ332149 A	19981223	NZ19970332149	19970320
TW333580 B	19980611	TW19970103504	19970320
US6076386 A	20000620	US19980155290	19980924
WO9736072 A1	19971002	WO1997AU00178	19970320
ZA9702558 A	19971120	ZA19970002558	19970325

Priority:

AU1996PN08901 19960325 AU19970021428 19970320 WO1997AU00178 19970320

Probable Assignee: AUSTRALIAN LOCK CO PTY LTD

Assignee(s): (std): AUSTRALIAN LOCK CO ; AUSTRALIAN LOCK CO PTY LTD ; ETCHELLS GARRY MICHAEL ; PREDDEY BRIAN FRANCIS

Assignee(s): AUSTRALIAN LOCK COMPANY (PTY) LTD ; AUSTRALIA LOCKS LTD ; AUSTRALIAN LOCK CO PTY LTD FAIRY MEADOW ; AUSTRALIAN LOCK COMPANY PTY LTD

Inventor(s): (std): FREDDEY BRIAN FRANCIS ; PREDDEY BRIAN FRANCIS ; GARRY MICHAEL ETCHELLS ; ETCHELLS GARRY MICHAEL ; BRIAN FRANCIS PREDDEY

Inventor(s): BRIAN FRANCIS FREDDEY

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; FRANKE HYLAND; OGILVY RENAULT LLP SENCRL SRL

Designated states: AL AM AT AU AZ BA BB BE BF BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN YU

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AT218664 E	20020615	LSGT	+	granted / extensions (spc, cpc, pte)	
AT218664 E	20021115	LSPB	+UEP	PUBLICATION OF	

				TRANSLATION OF EUROPEAN PATENT SPECIFICATION	
AT218664 E	20170320	PEXP		Calculated Patent Term Expiry	
AU199721428 A1	19971017	LSPB	+	published / reissued	
AU707974 B2	19990722	LSGT	+	granted / extensions (spc, cpc, pte)	
AU707974 B2	20170320	PEXP		Calculated Patent Term Expiry	
CA2249988 AA	19980924	LSPB	+	published / reissued	
CA2249988 AA	20000606	LSES	+EEER	EXAMINATION REQUEST	
CA2249988 C	20040316	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2249988 C	20150502	LSLE	-MKLA	LAPSED	EFFECTIVE DATE : 20150320
CA2249988 C	20170320	PEXP		Calculated Patent Term Expiry	
DE69713087 D1	20080327	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69713087 T2	20021212	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69713087 T2	20170320	PEXP		Calculated Patent Term Expiry	
EP0892879 A1	19990127	LSPB	+	published / reissued	
EP0892879 A1	19990127	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19980921
EP0892879 A4	19990210	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 19981228
EP0892879 A4	20000119	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19991206
EP0892879 B1	20020605	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0892879 B1	20020605	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20020605
EP0892879 B1	20020605	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20020605
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				FROM NATIONAL OFFICE TO EPO]	TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20020605
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EP0892879 B1	20020710	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
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EP0892879 B1	20030320	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20030320
EP0892879 B1	20030331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20030331
EP0892879 B1	20030528	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20030306
EP0892879 B1	20120131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20111001
EP0892879 B1	20130430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20130408 YEAR OF FEE PAYMENT : 17
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EP0892879 B1	20141231	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP0892879 B1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140331

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EP0892879 B1	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20160225 YEAR OF FEE PAYMENT : 20
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EP0892879 B1	20170412	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : PE20 EXPIRY DATE : 20170319
EP0892879 B1	20170502	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
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EP0892879 B1	20170320	PEXP		Calculated Patent Term Expiry	
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JP2000507321 T2	20000613	LSPB	+	published / reissued	
JP2000507321 T2	20031204	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20031111
JP2000507321 T2	20040107	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	

JP2000507321 T2	20040120	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20040120
JP2000507321 T2	20040304	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20040226
JP2000507321 T2	20040305	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP3529795 B2	20040524	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3529795 B2	20070306	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
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				DUE TO NON-PAYMENT OF FEES	
TW333580 B	20170320	PEXP		Calculated Patent Term Expiry	
US6076386 A	20000620	LSGT	+	granted / extensions (spc, cpc, pte)	
US6076386 A	19980924	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AUSTRALIAN LOCK COMPANY PTY LTD., AUSTRALIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ETCHELLS, GARRY MICHAEL; PREDDEY, BRAIN FRANCIS; REEL/FRAME:009885/0263 EFFECTIVE DATE : 19980831
US6076386 A	20000605	LSGT	PAT1	Patented Case	
US6076386 A	20031219	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6076386 A	20071120	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6076386 A	20111122	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6076386 A	20180924	PEXP		Calculated Patent Term Expiry	
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WO9736072 A1	19980921	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1997913975 COUNTRY OF REF DOCUMENT : EP
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WO9736072 A1	19981005	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 332149 COUNTRY OF REF DOCUMENT : NZ
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ZA9702558 A	19971120	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA9702558 A	20170324	PEXP		Calculated Patent Term Expiry	

Title: LEVERSET CONVERSION APPARATUS

Abstract: A kit for converting a key-in-knob lockset to a lever handle operated **lock** employs the existing cylindrical **lock** and its associated latch bolt. The conversion apparatus employs a lever handle having a non-circular shank portion which is received in, and thus drives, a resiliently biased coupling device which is interpositioned between the handle and a rose housing affixed to the door. The existing cylindrical **lock** is supported within the lever handle shank portion by a dummy bible member in such a manner as to prevent forces resulting from operation of the lever handle from damaging the cylindrical **lock**.

Classifications:

International (IPC 8-9): E05B55/00 (Advanced/Invention);

E05B63/00 (Advanced/Non-invention);

E05B55/00 (Core/Invention);

E05B63/00 (Core/Non-invention)

International (IPC 1-7): B60P25/02

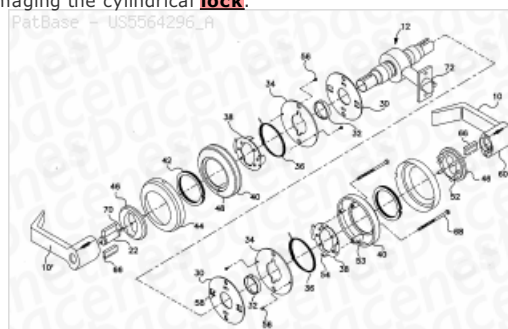
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Y10T70/8865 Y10T70/8973 Y10T292/57 Y10T292/85 Y10T292/91

European: E05B55/00C P05B63/00S

US: 292/336.3 292/348 292/357 292/DIG.53 70/224 70/451 70/462

70/466 702/240



Family:

Publication number	Publication date	Application number	Application date
US5564296 A	19961015	US19940274635	19940713

Priority:

US19940274635 19940713

Probable Assignee: INT SECURITY PRODUCTS INC

Assignee(s): (std): INT SECURITY PROD INC

Assignee(s): INT SECURITY PRODUCTS INC ; INTERNATIONAL SECURITY PRODUCTS INC ; KABA BENZING AMERICA INC ; KABA CORP ; KABA HIGH SECURITY LOCKS CORP ; UBS AG ; KABA ILCO CORP ; KABA MAS CORP ; UBS ZURICH AG ; ILCO UNICAN PROPERTIES INC

Inventor(s): (std): HENNESSY THOMAS ; ROCHETTE WILLIAM J ; THERIAULT KENNETH

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5564296 A	19961015	LSGT	+	granted / extensions (spc, cpc, pte)	
US5564296 A	19940713	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INTERNATIONAL SECURITY PRODUCTS, INC., CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ROCHETTE, WILLIAM J.; HENNESSY, THOMAS; THERIAULT, KENNETH; REEL/FRAME:007079/0541 EFFECTIVE DATE : 19940712
US5564296 A	20000316	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5564296 A	20020122	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UBS, AG ZURICH, SWITZERLAND OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:KABA CORPORATION; KABA ILCO CORPORATION; KABA HIGH SECURITY LOCKS CORPORATION; AND OTHERS; REEL/FRAME:012495/0716 EFFECTIVE DATE : 20011001
US5564296 A	20040323	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5564296 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA ILCO CORPORATION, NORTH CAROLINA OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5564296 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA MAS CORPORATION, KENTUCKY OLDPARTY : RELEASE AND TERMINATION;

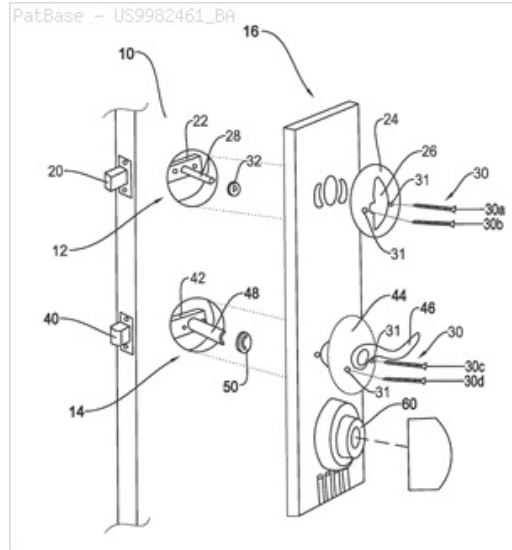
					ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5564296 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA CORPORATION, CONNECTICUT OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5564296 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA BENZING AMERICA, INC., FLORIDA OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5564296 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ILCO UNICAN PROPERTIES, INC., NORTH CAROLINA OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5564296 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA HIGH SECURITY LOCKS CORPORATION, NORTH CAROLI OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5564296 A	20081015	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5564296 A	20081110	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5564296 A	20081202	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20081015
US5564296 A	20140713	PEXP		Calculated Patent Term Expiry	

Title: DEADBOLT AND PASSAGE **LOCK** ADAPTER

Abstract: A system that includes a **lock** adapter assembly configured to be installed on a door. The **lock** adapter includes a motor assembly comprising a motor configured to provide a rotational force, one or more cords configured to convert the rotation force from the motor into a linear force, a deadbolt **lock** actuator configured to match to an existing **torque** blade of a deadbolt **lock** mounted in the door, a passage **lock** actuator configured to match to an existing **torque** blade of a passage **lock** mounted in the door, and one or more latch spool configured to transfer the linear force from the one or more cords to the deadbolt **lock** actuator, the passage **lock** actuator, or combination thereof.

Classifications:

International (IPC 8-9): E05B47/00 E05B53/00 E05B59/00 E05B63/14
E05B65/06 E05B9/00 E05C1/12 E05F1/10 (Advanced/Invention)
CPC: E05B47/0012 E05B53/003 E05B53/008 E05F1/1016 E05B2047/0022
E05B2047/0058 E05B2047/0091 E05B2047/0094 E05Y2900/132
E05B15/02 E05B17/0037



Family:

Publication number	Publication date	Application number	Application date
US9982461 BA	20180529	US20160150185	20160509

Priority:

US20150158218P 20150507 US20160150185 20160509

Probable Assignee: KILBOURNE MARK W

Assignee(s): (std): KILBOURNE MARK W

Inventor(s): (std): KILBOURNE MARK W

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US9982461 BA	20180529	LSGT	+	granted / extensions (spc, cpc, pte)	
US9982461 BA	20180509	LSGT	PAT1	Patented Case	
US9982461 BA	20360509	PEXP		Calculated Patent Term Expiry	

Title: ELECTRONIC **LOCKING** SYSTEM AND KEY THEREFOR

Abstract: An electronic **locking** system including a **lock cylinder** having an electronically actuatable release assembly which is selectively enabled to disengage a pin from a **cylinder** plug, to permit the rotation of the plug by an inserted key. The **lock cylinder** and key each contain non-volatile, electronically alterable memory devices, such as EEPROM integrated circuits, which house keying system codes. The key EEPROM is preferably housed within the key blade, in a key design which closely resembles a traditional mechanical key. The release **mechanism** incorporates a **locking** pin which is moveable between plug-engaging and non-engaging positions, along a radius of the **lock cylinder**. The release **mechanism** may include a primary actuator which directly moves the **locking** pin, or may act indirectly upon the **locking** pin via a latching member.

Classifications:

International (IPC 8-9): E05B47/06 E05B49/00

G07C9/00 (Advanced/Invention);

E05B47/06 E05B49/00 G07C9/00 (Core/Invention)

International (IPC 1-7): E05B47/06 E05B49/00 G06K19/06 H04Q1/00

CPC: Y10T70/7079 E05B47/063 E05B47/0004 E05B47/0006

E05B2047/0008 E05B2047/0092 G07C9/00103 G07C9/00571

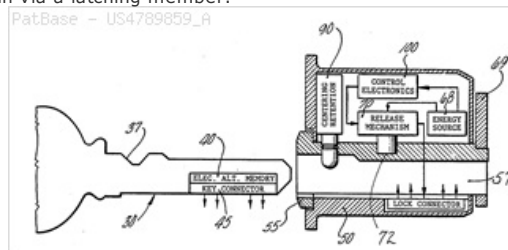
G07C9/00904 G07C2009/00761

European: E05B47/06C E05B47/06C4R1 G07C9/00B8 G07C9/00E20B

G07C9/00E7 P05B47/00A1B1 P05B47/00A1C P05B47/00A1D1

P05B47/00N S07C9/00E14B

US: 235/382 340/5.25 340/5.65 340/825.3 340/825.31 361/172 70/278 70/278.3



Family:

Publication number	Publication date	Application number	Application date
EP0238361 A2	19870923	EP19870302464	19870323
EP0238361 A3	19880224	EP19870302464	19870323
JP63000575 A2	19880105	JP19870067692	19870320
KR19870009095 A	19871023	KR19870002521	19870320
US4789859 A	19881206	US19860842681	19860321

Priority:

US19860842681 19860321 US19870013106 19870210

Probable Assignee: CORBIN RUSSWIN INC

Assignee(s): (std): EMHART IND

Assignee(s): EMHART INDUSTRIES INC ; EMHART IND INC ; EMHART IND INC A CORP OF CONNECTICUT ; CORBIN RUSSWIN INC ; EMHART INC ; EMHART INC A DELAWARE CORP

Inventor(s): (std): BURUUSU EI KURAAKUSON ; CLARKSON BRUCE A ; FRERE RONALD J ; FRERE RONALD JOSEPH ; LOUGHLIN THOMAS G ; MONGEAU PETER ; RONARUDO JIYOSU FURIA ; TAYLOR JR WILLIAM W

Designated states: DE FR GB IT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP0238361 A2	19870923	LSPB	+	published / reissued	
EP0238361 A3	19880921	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19880721
EP0238361 A3	19900307	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : EMHART INDUSTRIES, INC.
EP0238361 A3	19901010	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19900828
EP0238361 A3	19910123	LSWD	-18W	APPLICATION WITHDRAWN	DATE APPLICATION WITHDRAWN : 19901130
JP63000575 A2	19880105	LSPB	+	published / reissued	
KR19870009095 A	19871023	LSPB	+	published / reissued	
US4789859 A	19881206	LSGT	+	granted / extensions (spc, cpc, pte)	
US4789859 A	19860321	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : EMHART INDUSTRIES, INC., FARMINGTON, CONNECTICUT, OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:CLARKSON, BRUCE A.; FRERE, RONALD J.; LOUGHLIN, THOMAS

					G.; AND OTHERS; REEL/FRAME:004531/0317; SIGNING DATES FROM 19860214 TO 19860320
US4789859 A	19880930	LSGT	PAT1	Patented Case	
US4789859 A	19910429	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : EMHART INC., A DELAWARE CORPORATION, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:EMHART INDUSTRIES, INC., A CONNECTICUT CORPORATION; REEL/FRAME:005691/0289 EFFECTIVE DATE : 19910425
US4789859 A	19920323	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4789859 A	19940509	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CORBIN RUSSWIN, INC., CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:EMHART INC.; REEL/FRAME:006970/0759 EFFECTIVE DATE : 19940228
US4789859 A	19961208	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4789859 A	19970218	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19961211
US4789859 A	20180130	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	

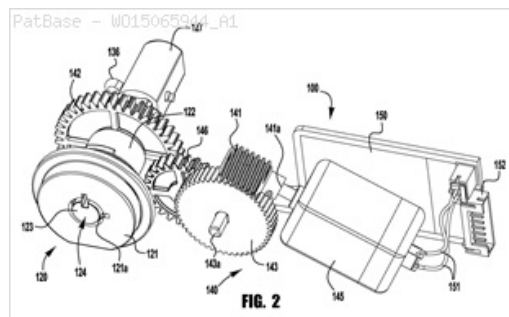
Title: ELECTROMECHANICAL **LOCK CYLINDER**

Abstract: A **lock** assembly includes a key **cylinder lock** and an electrically operable **locking mechanism**. The key **cylinder lock** includes a shell and a plug rotationally coupled with the shell in a **locked** condition and rotatable within the shell between first and second rotational positions in an unlocked condition upon insertion of an authorized key into a keyway in the plug. The electrically operable **locking mechanism** includes a power transfer member rotationally coupled with the shell, and an electrical driver connected with the power transfer member and electrically operable to rotate the power transfer member in response to receipt of an electrical authorizing signal, for rotation of the shell and plug between the first and second rotational positions when the key **cylinder lock** is in the **locked** condition.

Classifications:

International (IPC 8-9): E05B65/46 (Advanced/Invention)

CPC: E05B65/462 E05B27/083 E05B47/0012 E05B47/0611 E05B2047/002



Family:

Publication number	Publication date	Application number	Application date
WO15065944 A1	20150507	WO2014US62528	20141028

Priority:

US20130896212P 20131028

Probable Assignee: WATERLOO IND INC

Assignee(s): (std): WATERLOO IND INC

Inventor(s): (std): JOHNSON JIJU

Agent(s): GROVER DAVID J 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 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 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 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
WO15065944 A1	20150507	LSPB	+	published / reissued	
WO15065944 A1	20160428	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO15065944 A1	20161123	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 14859170 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: **LOCK** ADJUSTABLE TO OPERATE WITH DIFFERENT KEYS

Abstract: A **lock** which is **rekeyable** or programmable to operate with a different key from the exterior thereof without disassembling it or removing it from a **lock** assembly in which it is assembled is disclosed. The **lock** is **rekeyed** by a change key through the keyway so that the **lock** appears from the exterior thereof to be a conventional **lock**. The change key which can not operate the **lock** adjusts a movable shear line formed by what is in effect an externally adjustable tumbler. The **lock** includes a plurality of pin tumbler sets and a plurality of **cylinders** disposed one in the other in the **lock** casing. The pin tumbler sets and the **cylinders** cooperate to form a plurality of common pin tumbler shear lines, i.e., shear lines formed by a number of individual shear lines of individual pin tumbler sets. In a given position of the adjustable shear line, only one of the keys will position the pin tumblers to form the proper common pin tumbler shear which is aligned with the adjustable shear line to operate the **lock**. The **rekeying** structure of the **lock** is passive and its presence is not noticed when operating the **lock**. The **lock** also includes structure which indicates that the adjustable shear line is in one of the position with which a common tumbler shear line may be aligned. The **lock** further includes structure which **locks** the adjustable shear line in a given position.

Classifications:

International (IPC 8-9): E05B25/00 E05B27/00

E05B27/04 (Advanced/Invention);

E05B25/00 E05B27/00 (Core/Invention)

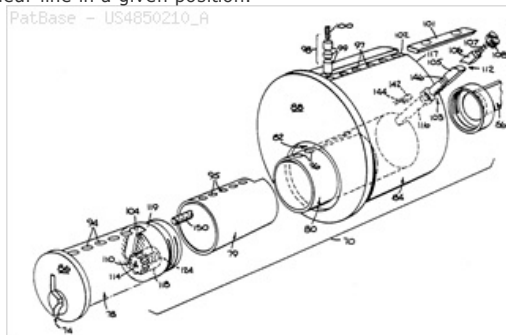
International (IPC 1-7): E05B25/00

CPC: Y10T70/7672 Y10T70/7684 Y10T70/7734 E05B27/005 E05B9/086

European: E05B27/00K

US: 70/373 70/375 70/383

PatBase - US4850210_A



Family:

Publication number	Publication date	Application number	Application date
AU198940497 A1	19910222	AU19890040497	19890724
CA1330399 A1	19940628	CA19890606464	19890724
US4850210 A	19890725	US19870099099	19870921
US5325690 A	19940705	US19920809554	19920224
WO9101425 A1	19910207	WO1989US03196	19890724

Priority:

US19870099099 19870921 AU19890040497 19890724 CA19890606464 19890724
WO1989US03196 19890724 US19920809554 19920224

Probable Assignee: ADLER RICHARD S

Assignee(s): (std): ADLER RICHARD STEVEN ; ADLER RICHARD S ; RICHARD STEVEN ADLER

Assignee(s): ADLER RICHARD S APT ; KIRK KARL DALLAS ; MILICH JOHN ; MORRIS PAUL FREDERICK ; PERICHON JERRY

Inventor(s): (std): MORRIS PAUL FREDERICK ; KIRK KARL DALLAS ; MORRIS PAUL F ; MILICH JOHN ; PERICHON JERRY ; PERICHON GERARD M ; ADLER RICHARD S ; ADLER RICHARD STEVEN ; KIRK KARL D

Inventor(s): JERRY PERICHON ; JOHN MILICH ; KARL DALLAS KIRK ; RICHARD STEVEN ADLER ; PAUL FREDERICK MORRIS

Agent(s): MARKS AND CLERK

Designated states: AT AU BB BE BF BG BJ BR CF CG CH CM DE DK FI FR GA GB HU IT JP KP KR LK LU MC MG ML MR MW NL NO RO SD SE SN SU TD TG US

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU198940497 A1	19910222	LSPB	+	published / reissued	
CA1330399 A1	19940628	LSGT	+	granted / extensions (spc, cpc, pte)	
CA1330399 A1	20050628	LSLE	-MKLA	LAPSED	
CA1330399 A1	20110628	PEXP		Calculated Patent Term Expiry	
US4850210 A	19890725	LSGT	+	granted / extensions (spc, cpc, pte)	
US4850210 A	19870921	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ADLER, RICHARD S., 526 EAST 11TH ST., NEW YORK, NY OLDPARTY : ASSIGNMENT OF ASSIGNNORS

					INTEREST.; ASSIGNOR:MORRIS, PAUL F.; REEL/FRAME:004779/0783 EFFECTIVE DATE : 19870921
US4850210 A	19870921	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ADLER, RICHARD S.,NEW YORK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MORRIS, PAUL F.; REEL/FRAME:004779/0783 EFFECTIVE DATE : 19870921
US4850210 A	19890607	LSGT	PAT1	Patented Case	
US4850210 A	19930630	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4850210 A	19970210	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4850210 A	20010723	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5325690 A	19940705	LSGT	+	granted / extensions (spc, cpc, pte)	
US5325690 A	19921106	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ADLER, RICHARD S., NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:MILICH, JOHN; REEL/FRAME:006299/0316 EFFECTIVE DATE : 19921028
US5325690 A	19921106	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ADLER, RICHARD STEVEN, NEW JERSEY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:MORRIS, PAUL FREDERICK; KIRK, KARL DALLAS; PERICHON, GERARD M. AKA JERY PERICHON; REEL/FRAME:006290/0597; SIGNING DATES FROM 19920317 TO 19920322
US5325690 A	19980915	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19980708
US5325690 A	20001130	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5325690 A	20020226	LSRE	+PRDP	PATENT REINSTATED DUE TO THE ACCEPTANCE OF A LATE MAINTENANCE FEE	EFFECTIVE DATE : 20020121
US5325690 A	20020705	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5325690 A	20020806	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5325690 A	20020903	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20020705
US5325690 A	20120224	PEXP		Calculated Patent Term Expiry	
WO9101425 A1	19910207	LSPB	+	published / reissued	

Title: DUAL CONTROL MODE **LOCK**

Abstract: A security system requires the bringing together, at the **locking mechanism** to be operated from a **locked** to an unlocked state, of a properly bitted mechanical key and the generator of a digitally coded electrical command signal. The electrical command signal is transmitted through the **lock** to an actuator so that the **lock**, when enabled by insertion of the mechanical key, may be operated. The key may define a portion of the signal transmission path between the command signal generator and the actuator.

Classifications:

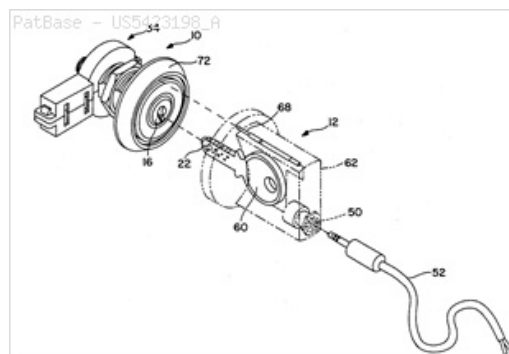
International (IPC 8-9): E05B39/00 G07C9/00 (Advanced/Invention); E05B39/00 G07C9/00 (Core/Invention)

International (IPC 1-7): E05B39/00 E05B49/00 E05B49/02

CPC: Y10T70/7079 Y10T70/713 E05B47/063 E05B47/0004 G07C2009/00761 Y10T70/7062

European: E05B47/06C4R1 P05B47/00A1B1 S07C9/00E14B

US: 340/5.67 340/825.31 70/277 70/278 70/278.3 70/283



Family:

Publication number	Publication date	Application number	Application date
CA2178427 AA	19961208	CA19962178427	19960606
US5423198 A	19950613	US19930152220	19931112
US5771722 A	19980630	US19950483277	19950607

Priority:

US19930152220 19931112 US19950483277 19950607 CA19962178427 19960606

Probable Assignee: KABA HIGH SECURITY LOCKS INC

Assignee(s): (std): DIVITO THOMAS J ; HUMPHREY EDWARD F ; KABA HIGH SECURITY LOCKS CORP ; KABA HIGH SECURITY LOCKS INC

Assignee(s): UBS AG ; KABA ILCO CORP ; KABA MAS CORP ; UBS ZURICH AG ; ILCO UNICAN PROPERTIES INC ; KABA BENZING AMERICA INC ; KABA CORP

Inventor(s): (std): DIVITO THOMAS J ; HUMPHREY EDWARD F

Agent(s): OGILVY RENAULT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2178427 AA	19961208	LSPB	+	published / reissued	
CA2178427 AA	20040607	LSLE	-FZDE	DEAD	
US5423198 A	19950613	LSGT	+	granted / extensions (spc, cpc, pte)	
US5423198 A	19931112	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA HIGH SECURITY LOCKS, INC., CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DIVITO, THOMAS J.; HUMPHREY, EDWARD F.; REEL/FRAME:006774/0151 EFFECTIVE DATE : 19931104
US5423198 A	19950601	LSGT	PAT1	Patented Case	
US5423198 A	19980618	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5423198 A	20020122	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UBS, AG ZURICH, SWITZERLAND OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:KABA CORPORATION; KABA ILCO CORPORATION; KABA HIGH SECURITY LOCKS CORPORATION; AND OTHERS; REEL/FRAME:012495/0716 EFFECTIVE DATE : 20011001
US5423198 A	20021115	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5423198 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER

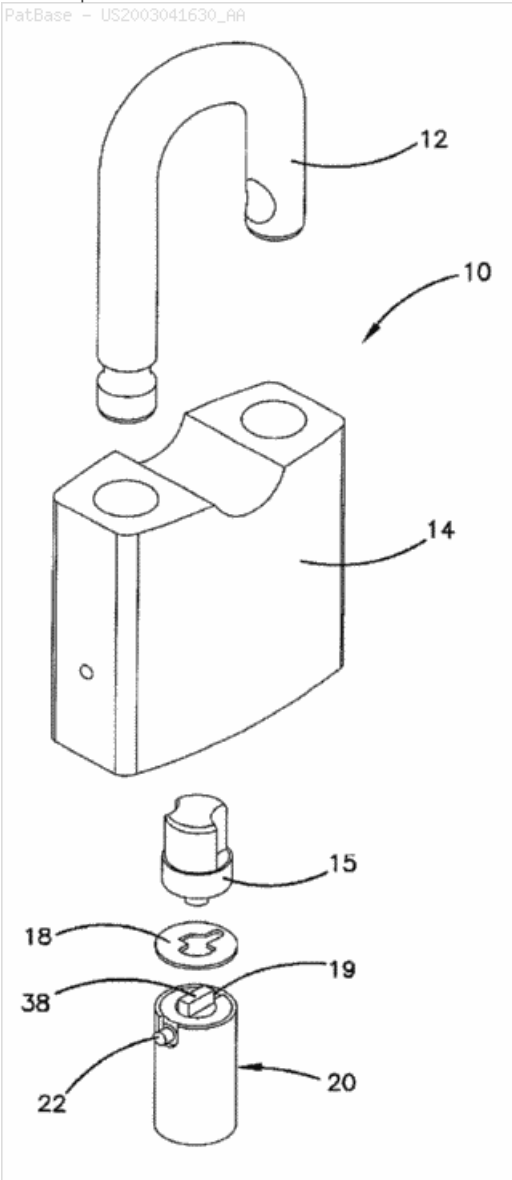
					OWNER : KABA MAS CORPORATION, KENTUCKY OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5423198 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA CORPORATION, CONNECTICUT OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5423198 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA BENZING AMERICA, INC., FLORIDA OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5423198 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA HIGH SECURITY LOCKS CORPORATION, NORTH CAROLI OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5423198 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ILCO UNICAN PROPERTIES, INC., NORTH CAROLINA OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5423198 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA ILCO CORPORATION, NORTH CAROLINA OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5423198 A	20061211	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5423198 A	20131112	PEXP		Calculated Patent Term Expiry	
US5771722 A	19980630	LSGT	+	granted / extensions (spc, cpc, pte)	
US5771722 A	19950607	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA HIGH SECURITY LOCKS, INC., CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DIVITO, THOMAS J.; HUMPHREY, EDWARD F.; REEL/FRAME:007529/0545 EFFECTIVE DATE : 19950606
US5771722 A	20011115	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5771722 A	20020122	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : UBS, AG ZURICH, SWITZERLAND OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:KABA CORPORATION; KABA ILCO CORPORATION; KABA HIGH SECURITY LOCKS CORPORATION; AND OTHERS; REEL/FRAME:012495/0716 EFFECTIVE DATE : 20011001
US5771722 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ILCO UNICAN PROPERTIES, INC., NORTH CAROLINA OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5771722 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA BENZING AMERICA, INC., FLORIDA OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102

US5771722 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA MAS CORPORATION, KENTUCKY OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5771722 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA CORPORATION, CONNECTICUT OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5771722 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA ILCO CORPORATION, NORTH CAROLINA OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5771722 A	20041117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : KABA HIGH SECURITY LOCKS CORPORATION, NORTH CAROLI OLDPARTY : RELEASE AND TERMINATION; ASSIGNOR:UBS AG, ZURICH; REEL/FRAME:015980/0516 EFFECTIVE DATE : 20041102
US5771722 A	20060630	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5771722 A	20060802	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5771722 A	20060829	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20060630
US5771722 A	20150630	PEXP		Calculated Patent Term Expiry	

Title: **REKEYABLE LOCK** WITH CIRCUMFERENTIAL PIN CONFIGURATION

Abstract: This disclosure relates to a **rekeyable** tubular **lock cylinder** with a core. The core includes a first core piece having **locking** pin openings and a second core piece having replaceable pin openings. An outer sleeve is mounted over the first and second core pieces. The outer sleeve includes a sleeve end face defining a circular opening coaxially aligned with a hub portion of the second core piece. The sleeve end face and the hub portion cooperate to define an annular keyway. The second core piece is rotatable between a first position where the key receiving notch of the hub portion aligns with a first outer notch of the outer sleeve, and a second position where the key receiving notch of the hub portion aligns with the second outer notch. The replaceable pin openings of the second core piece are aligned with the **locking** pin openings of the first core piece when the hub portion of the second core piece is in the first position, and the replaceable pin openings of the second core piece are not aligned with the **locking** pin openings of the first core piece when the hub is in the second position.

Classifications:
International (IPC 8-9): E05B27/00 E05B27/08
E05B67/24 (Advanced/Invention);
E05B9/08 (Advanced/Non-invention);
E05B27/00 E05B67/00 (Core/Invention);
E05B9/00 (Core/Non-invention)
International (IPC 1-7): E05B67/24
CPC: E05B27/083 E05B9/084 E05B27/005 E05B67/24 Y10T70/459
European: E05B27/00K E05B27/08B E05B67/24 P05B9/08C
US: 70/38 70/38A



Family:

Publication number	Publication date	Application number	Application date
US2003041630 AA	20030306	US20010945382	20010831

Priority:

US20010945382 20010831

Probable Assignee: ABUS USA

Assignee(s): (std): LAITALA DANIEL A ; LAITALA GRANT T ; LAITALA THOMAS R

Assignee(s): ABUS USA

Inventor(s): (std): LAITALA DANIEL A ; LAITALA GRANT T ; LAITALA THOMAS R

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2003041630 AA	20030306	LSPB	+	published / reissued	
US2003041630 AA	20020227	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ABUS USA, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:LAITALA, DANIEL A.; LAITALA, GRANT T.; LAITALA, THOMAS R.; REEL/FRAME:012646/0088; SIGNING DATES FROM 20020108 TO 20020109
US2003041630 AA	20030416	LSWD	-ABD3	Abandoned - - Failure to Respond to an Office Action	

Title: PIN-TUMBLER-TYPE **LOCK** HAVING ANTIPICK SECURITY ACTION

Abstract: In a removable core-type **lock**, the internal tumbler pin **mechanism** is modified to incorporate an antipick jamming action that is actuated whenever an attempt is made to pick the tumbler pins. The jamming action comprises a pair of security tumbler pin assemblies that cooperate with the **lock**'s cylindrical plug which incorporates the **lock**'s keyway and serves as the primary **locking** element, and with a modified control sleeve structure which forms part of the jamming action and serves as a control means for releasably retaining the core in the **lock**'s casing. In reaction to tampering of the **lock** by an attempt to pick the tumbler pins, one of the security pins is forced to a position that **locks** the control sleeve structure and plug together in a manner that prevents the opening of the **lock** or the removal of the core from the **lock** casing by means other than the use of a properly notched primary or control key.

Classifications:

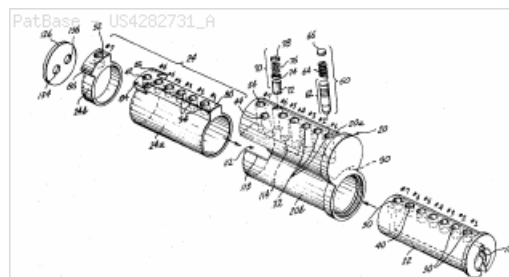
International (IPC 8-9): E05B27/00 E05B27/04 (Advanced/Invention);
E05B27/00 (Core/Invention)

International (IPC 1-7): E05B27/04 E05B63/00

CPC: E05B27/0064 Y10T70/7605 Y10T70/7932

European: E05B27/00P1A

US: 70/364A 70/419 70/493



Family:

Publication number	Publication date	Application number	Application date
US4282731 A	19810811	US19790045238	19790604

Priority:

US19790045238 19790604

Probable Assignee: TAKSONY JOSEPH G

Assignee(s): (std): TAKSONY JOSEPH G

Inventor(s): (std): TAKSONY JOSEPH G

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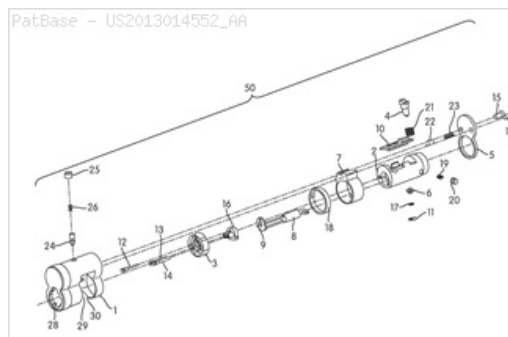
Patent	Date recorded	Event group	Code	Event	Details
US4282731 A	19810811	LSGT	+	granted / extensions (spc, cpc, pte)	
US4282731 A	19810602	LSGT	PAT1	Patented Case	

Title: ELECTRONICALLY-CONTROLLED REMOVABLE CORE **LOCK**

Abstract: An electronic small format interchangeable core (SFIC) **lock** is configured so that core **locking** features are electronically controlled, and keys can be electronically programmed to operate either as a normal user key able to open the **lock** or as a control key able to open the **lock** and to remove the SFIC cores. The same key will operate as a normal access key or as a control key, depending on how the key is programmed.

Classifications:

International (IPC 8-9): E05B19/00 E05B35/00 E05B35/10 E05B47/00
E05B47/06 E05B49/00 E05B9/08 (Advanced/Invention);
E05B35/08 E05B47/00 (Advanced/Non-invention)
CPC: E05B9/086 E05B35/08 E05B47/0012 E05B47/0673 E05B2047/0017
Y10T70/7062 Y10T70/7068 Y10T70/7079 Y10T70/7102 Y10T70/7644
Y10T70/7661 Y10T70/7684 Y10T70/7791 E05B47/0626
US: 70/277 70/278.1 70/278.3 70/278.7 70/368 70/371 70/375 70/393



Family:

Publication number	Publication date	Application number	Application date
CA2783072 AA	20130115	CA20122783072	20120713
US2013014552 AA	20130117	US20120548383	20120713
US8973417 BB	20150310	US20120548383	20120713

Priority:

US20110508248P 20110715 CA20122783072 20120713 US20120548383 20120713

Probable Assignee: ASSA ABLOY HIGH SECURITY GROUP INC

Assignee(s): (std): BENCH JAMES ; MEDECO SECURITY LOCKS ; SMITH DAVID ; TRENT DOUG ; SCHOELL LANCE

Assignee(s): MEDECO SECURITY LOCKS INC ; ASSA ABLOY HIGH SECURITY GROUP INC

Inventor(s): (std): TRENT DOUG ; SMITH DAVID ; SCHOELL LANCE ; BENCH JAMES

Agent(s): OSLER HOSKIN AND HARCOURT LLP; ROTHWELL FIGG ERNST AND MANBECK PC

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Patent	Date recorded	Event group	Code	Event	Details
CA2783072 AA	20130115	LSPB	+	published / reissued	
CA2783072 AA	20170705	LSSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20170627
US2013014552 AA	20130117	LSPB	+	published / reissued	
US8973417 BB	20150310	LSGT	+	granted / extensions (spc, cpc, pte)	
US8973417 BB	20120713	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MEDECO SECURITY LOCKS, INC, VIRGINIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BENCH, JAMES; SCHOELL, LANCE; TRENT, DOUG; AND OTHERS; REEL/FRAME:028543/0579 EFFECTIVE DATE : 20120712
US8973417 BB	20150218	LSGT	PAT1	Patented Case	
US8973417 BB	20160609	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ASSA ABLOY HIGH SECURITY GROUP INC., VIRGINIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:MEDECO SECURITY LOCKS, INCORPORATED; REEL/FRAME:038934/0595 EFFECTIVE DATE : 20151231
US8973417 BB	20180822	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8973417 BB	20330322	PEXP		Calculated Patent Term Expiry (PTA)	

Title: **LOCK** PICKING METHOD AND APPARATUS

Abstract: Method and apparatus for non-destructively picking **locks** which normally are operated by keys, such **locks** capable of having twisting tumbler pins and sidebars. The method requires that: the pins be raised high in the keyway; the plug be axially bored by a thin drill which enters through a low portion of the keyway, the rear end of the drilled bore opening to the bolt cam operator; the drill bit be removed from the bore; and then the bolt cam operator be directly turned to shift open the bolt. This method does not decode the tumblers nor release any sidebar. The preferred apparatus comprises a pin raiser tool, which is self-retaining due to bias on the pins, which is transmitted to the handle of this tool; and a torquing tool, which is passed through the bore and has a blade which seats in the cam operator for turning the operator to shift open the **lock** bolt. A unique safety shield can be installed on the tailpiece to prevent picking by the method of this invention.

Classifications:

International (IPC 8-9): E05B19/20 (Advanced/Invention); E05B19/00 (Core/Invention)

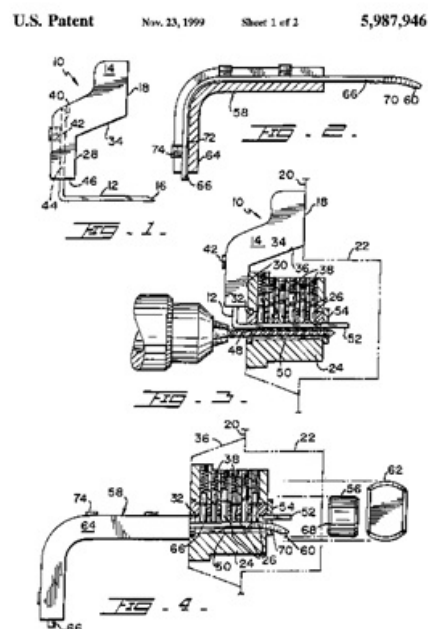
International (IPC 1-7): B32B35/00 E05B19/20

CPC: Y10T29/49815 Y10T29/49821 Y10T408/03 E05B19/20 Y10T70/7706 Y10T70/7712 Y10T70/7797 Y10T70/7921 Y10T70/8946

European: E05B19/20

US: 29/426.1 29/426.4 408/1R 70/379R 70/380 70/394 70/417 70/465

PatBase - US5987946_A



Family:

Publication number	Publication date	Application number	Application date
CA2301080 AA	20000214	CA19982301080	19980811
US5987946 A	19991123	US19970911647	19970815
WO9908871 A1	19990225	WO1998US16602	19980811

Priority:

US19970911647 19970815 WO1998US16602 19980811

Probable Assignee: COLONIAL RESEARCH SYSTEMS INC

Assignee(s): (std): WATTS JAMES A

Assignee(s): COLONIAL RESEARCH SYSTEMS INC

Inventor(s): (std): WATTS JAMES A

Agent(s): FETHERSTONHAUGH AND CO

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2301080 AA	20000214	LSPB	+	published / reissued	
CA2301080 AA	20000804	LSSES	+EEER	EXAMINATION REQUEST	
CA2301080 AA	20050811	LSLE	-FZDE	DEAD	
US5987946 A	19991123	LSGT	+	granted / extensions (spc, cpc, pte)	
US5987946 A	20030319	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : COLONIAL RESEARCH SYSTEMS, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST;

US5987946 A	20030519	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5987946 A	20070725	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5987946 A	20111123	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5987946 A	20111219	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5987946 A	20120110	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20111123
US5987946 A	20170815	PEXP		Calculated Patent Term Expiry	
WO9908871 A1	19990225	LSPB	+	published / reissued	
WO9908871 A1	20000214	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2301080 COUNTRY OF REF DOCUMENT : CA KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO9908871 A1	20000214	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2301080 COUNTRY OF REF DOCUMENT : CA
WO9908871 A1	20001220	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: ELECTRONIC **LOCKING** SYSTEM AND KEY THEREFOR

Abstract: An electronic **locking** system including a **lock cylinder** having an electronically actuatable release assembly which is selectively enabled to disengage a pin from a **cylinder** plug, to permit the rotation of the plug by an inserted key. The **lock cylinder** and key each contain non-volatile, electronically alterable memory devices, such as EEPROM integrated circuits, which house keying system codes. The key EEPROM is preferably housed within the key blade, in a key design which closely resembles a traditional mechanical key without the usual bitting. The release **mechanism** incorporates a **locking** pin which is moveable between plug-engaging and non-engaging positions, along a radius of the **lock cylinder**. The release **mechanism** may include a primary actuator which directly moves the **locking** pin, or may act indirectly upon the **locking** pin via a latching member.

Classifications:

International (IPC 8-9): E05B47/06 E05B49/00

G07C9/00 (Advanced/Invention);

E05B47/06 E05B49/00 G07C9/00 (Core/Invention)

International (IPC 1-7): E05B47/06 E05B49/00 G07C9/00

CPC: G07C9/00103 G07C9/00571 G07C9/00904 Y10T70/7057

Y10T70/713 Y10T70/7605 Y10T70/7073 G07C9/00857 E05B47/0004

E05B47/0006 E05B47/0012 E05B47/063 E05B2047/0008 E05B2047/0092

G07C9/00182 G07C2009/00761

European: E05B47/06C E05B47/06C4R1 G07C9/00B8 G07C9/00E18

G07C9/00E2 G07C9/00E20B G07C9/00E7 P05B47/00A1B1

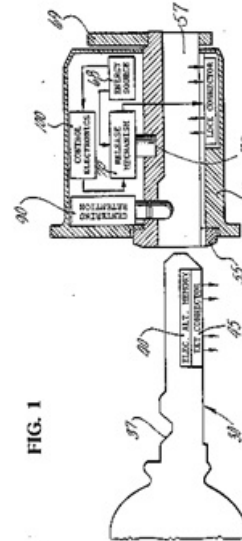
P05B47/00A1C P05B47/00A1D1 P05B47/00A4 P05B47/00N

S07C9/00E14B S07C9/00E18

US: 361/172 70/276 70/278 70/278.2 70/283 70/364A 70/383 70/493

PatBase - US4712398_A

U.S. Patent Dec. 15, 1987 Sheet 1 of 14 4,712,398



Family:

Publication number	Publication date	Application number	Application date
CA1263035 A1	19891121	CA19870541309	19870703
CA1263035 A1	19891121	CA19870530937	19870302
CA1263035 A2	19891121	CA19870541309	19870703
CA1263035 C	19891121	CA19870541309	19870703
EP0238359 A2	19870923	EP19870302462	19870323
EP0238359 A3	19881123	EP19870302462	19870323
EP0238360 A2	19870923	EP19870302463	19870323
EP0238360 A3	19881123	EP19870302463	19870323
EP0239341 A2	19870930	EP19870302461	19870323
EP0239341 A3	19881123	EP19870302461	19870323
EP0239342 A2	19870930	EP19870302465	19870323
EP0239342 A3	19881207	EP19870302465	19870323
EP0388997 A1	19900926	EP19900108631	19870323
JP62236979 A2	19871017	JP19870055108	19870310
JP62276181 A2	19871201	JP19870065535	19870319
JP63125786 A2	19880528	JP19870141287	19870605
JP63201283 A2	19880819	JP19870067693	19870320
KR19870009096 A	19871023	KR19870002522	19870320
KR19870009097 A	19871023	KR19870002524	19870320
KR19880010208 A	19881007	KR19870002523	19870320
KR910001667 B1	19910318	KR19870002523	19870320
US4712398 A	19871215	US19860842684	19860321
US4848115 A	19890718	US19870046004	19870501

Priority:

US19860842684 19860321 US19870013089 19870210 CA19870530937 19870302
US19870046004 19870501 CA19870541309 19870703

Probable Assignee: EMHART IND

Assignee(s): (std): EMHART IND

Assignee(s): EMHART IND INC ; EMHART IND INC A CORP OF CONNECTICUT ; EMHART INDUSTRIES INC ; LOUGHLIN THOMAS G ; EMHART INDINC ; EMHART INC ; EMHART INC A DELAWARE CORP

Inventor(s): (std): BURUUSU EI KURAAKUSON ; FRERE RONALD J ; LOUGHLIN THOMAS G ; PIITAA MONGOO ; RONARUDO JIYOSUFU FURIA ; TAYLOR JR WILLIAM W ; TOOMASU GUREGORII ROORIN ; UIRIAMU UEIBUARII TEIRAA JIYUN ; TAYLOR WILLIAM WAVERLY JR ; MONGEAU PETER ; LOUGHLIN THOMAS GREGORY ; FRERE RONALD JOSEPH ; CLARKSON BRUCE A

Inventor(s): UIRIAMU UEIBUARII TEIRAA JIYUNIA

Agent(s): SWABEY OGILVY RENAULT

Designated states: DE FR GB IT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA1263035 A2	19891121	LSGT	+	granted / extensions (spc, cpc, pte)	
CA1263035 C	19891121	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0238359 A2	19870923	LSPB	+	published / reissued	
EP0238359 A3	19890628	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19890424
EP0238359 A3	19900307	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : EMHART INDUSTRIES, INC.
EP0238359 A3	19910502	LSWD	-18W	APPLICATION WITHDRAWN	DATE APPLICATION WITHDRAWN : 19910305
EP0238360 A2	19870923	LSPB	+	published / reissued	
EP0238360 A2	19881109	LSRE	RHK1	MAIN CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 47/06
EP0238360 A3	19890628	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19890424
EP0238360 A3	19900404	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19900216
EP0238360 A3	19900404	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : EMHART INDUSTRIES, INC.
EP0238360 A3	19901219	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19900627
EP0239341 A2	19870930	LSPB	+	published / reissued	
EP0239341 A2	19881109	LSRE	RHK1	MAIN CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : E05B 47/06
EP0239341 A3	19890628	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19890424
EP0239341 A3	19900321	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19900201
EP0239341 A3	19900328	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : EMHART INDUSTRIES, INC.
EP0239341 A3	19901219	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19900612
EP0239342 A2	19870930	LSPB	+	published / reissued	
EP0239342 A3	19890719	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19890510
EP0239342 A3	19900307	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : EMHART INDUSTRIES, INC.
EP0239342 A3	19900314	LSWD	-18W	APPLICATION	DATE APPLICATION WITHDRAWN :

WITHDRAWN					19900108
EP0388997 A1	19900926	LSPB	+	published / reissued	
EP0388997 A1	19910123	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19901126
EP0388997 A1	19930421	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19930308
EP0388997 A1	19940112	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19930720
JP62236979 A2	19871017	LSPB	+	published / reissued	
JP62276181 A2	19871201	LSPB	+	published / reissued	
JP63125786 A2	19880528	LSPB	+	published / reissued	
JP63201283 A2	19880819	LSPB	+	published / reissued	
KR19870009096 A	19871023	LSPB	+	published / reissued	
KR19870009097 A	19871023	LSPB	+	published / reissued	
KR19880010208 A	19881007	LSPB	+	published / reissued	
KR910001667 B1	19910318	LSGT	+	granted / extensions (spc, cpc, pte)	
KR910001667 B1	19880519	LSES	A201	REQUEST FOR EXAMINATION	
KR910001667 B1	19910213	LSPB	G160	DECISION TO PUBLISH PATENT APPLICATION	
KR910001667 B1	19910601	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR910001667 B1	20020320	PEXP		Calculated Patent Term Expiry	
US4712398 A	19871215	LSGT	+	granted / extensions (spc, cpc, pte)	
US4712398 A	19860321	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : EMHART INDUSTRIES, INC., FARMINGTON, CONNECTICUT, OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:CLARKSON, BRUCE A.; FRERE, RONALD J.; LOUGHLIN, THOMAS G.; AND OTHERS; REEL/FRAME:004531/0392; SIGNING DATES FROM 19860214 TO 19860320
US4712398 A	19871014	LSGT	PAT1	Patented Case	
US4712398 A	19910429	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : EMHART INC., A DELAWARE CORPORATION, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:EMHART INDUSTRIES, INC., A CONNECTICUT CORPORATION; REEL/FRAME:005691/0289 EFFECTIVE DATE : 19910425
US4712398 A	19911215	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4712398 A	19920218	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19911215
US4712398 A	20180130	LSLE	-PEX1	Patent Expired Due to	

				NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4848115 A	19890718	LSGT	+	granted / extensions (spc, cpc, pte)	
US4848115 A	19890526	LSGT	PAT1	Patented Case	
US4848115 A	19910429	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : EMHART INC., A DELAWARE CORPORATION, DELAWARE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:EMHART INDUSTRIES, INC., A CONNECTICUT CORPORATION; REEL/FRAME:005691/0289 EFFECTIVE DATE : 19910425
US4848115 A	19930718	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4848115 A	19931005	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19930718
US4848115 A	20180130	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	

Title: ELECTRONIC **LOCK** IN **CYLINDER** OF STANDARD **LOCK**

Abstract: An electronic security system includes an electronic **lock mechanism** and an electronic key, each of which is provided with a microprocessor controller and a memory storing data including an ID code and encryption key codes. The electronic **lock** security system preferably includes an electronic **lock** including a hollow **cylinder**, an opening into the **cylinder**, a bolt movable through the opening between an extended position and a retracted position, a cam member within the **cylinder**, the cam member contacting the bolt to move the bolt to an unlocked position, a solenoid within the hollow **cylinder**, the solenoid being engageable with the cam member, an electronic **lock** circuit within the hollow **cylinder**, a plug connected to the solenoid for rotating the solenoid, the plug having a keyway for insertion of a key for rotating the plug. In addition, the system also includes an electronic key insertable within the keyway for communicating with the electronic **lock** circuit to operate the **lock**. A **torque** transmitting solenoid is used in the system.

Classifications:

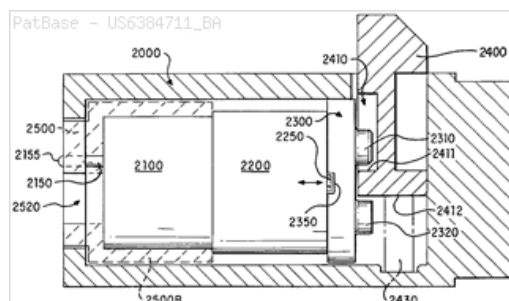
International (IPC 8-9): E05B17/00 E05B17/04 E05B47/06 E05B49/00 G07C9/00 G07D7/00 H04Q1/00 (Advanced/Invention)

International (IPC 1-7): E05B17/00 E05B17/04 E05B47/00 E05B47/06 E05B49/00 G05B19/00

CPC: Y10T70/7062 G07C9/00309 G07C9/00103 G07C9/00119 G07C9/00571 G07C2009/00388 G07C2009/00412 G07C2009/00476 G07C2009/00611 G07C2009/00634 G07C2009/00761 G07C2009/0088 G07C2209/08

European: G07C9/00B12 G07C9/00B8 G07C9/00E4 G07C9/00E7 S07C209/08 S07C9/00E10 S07C9/00E14B S07C9/00E18D S07C9/00E4F S07C9/00E4G S07C9/00E4H4 S07C9/00E8D2

US: 340/5.65 340/565 70/277



Family:

Publication number	Publication date	Application number	Application date
AR016664 AA	20010725	AR1998P105562	19981104
AU199912817 A1	19990524	AU19990012817	19981029
AU750759 B2	20020725	AU19990012817	19981029
CA2276259 AA	19990628	CA19982276259	19981029
CA2276259 C	20020806	CA19982276259	19981029
CL1998002601 A1	19990927	CL19980002601	19981029
CO4810347 A1	19990630	CO19980065227	19981105
EP0958443 A1	19991124	EP19980956248	19981029
NZ336537 A	20010223	NZ19980336537	19981029
PE88599 A1	19990920	PE19980001046	19981104
US6384711 BA	20020507	US19980186098	19981105
WO9923332 A1	19990514	WO1998US22769	19981029
WO9923332 C2	19990812	WO1998US22769	19981029

Priority:

US19970064547P 19971105 WO1998US22769 19981029 US19980186098 19981105

Probable Assignee: MEDECO SECURITY LOCKS INC

Assignee(s): (std): MEDECO SECURITY LOCKS ; MEDECO SECURITY LOCKS INC

Assignee(s): SCHROEDER MATTHEW O ; SCHOELL LANCE G ; CREGGER BARTON B ; KINGMA STANLEY DAVID ; MEDECO SECURITY LOCKS INC

Inventor(s): (std): LANCE G SCHOELL ; MATTHEW O SCHROEDER ; SCHOELL LANCE G ; SCHROEDER MATHEW O ; SCHROEDER MATTHEW O ; STANLEY D KINGMAN ; STANLEY DAVID KINGMA ; KINGMA STANLEY DAVID ; BARTON B CREGGER ; CREGGER BARTON B ; KINGMA STANLEY D

Inventor(s): KINGMAN STANLEY D ; G SCHOELL LANCE

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; DIMOCK STRATTON LLP; SARGENT; ERNESTO CAVELIER

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR016664 AA	20010725	LSPB	+	published / reissued	
AU199912817 A1	19990524	LSPB	+	published / reissued	
AU750759 B2	20020725	LSGT	+	granted / extensions (spc, cpc, pte)	
AU750759 B2	20021121	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED	

(STANDARD PATENT)					
AU750759 B2	20040603	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU750759 B2	20181029	PEXP		Calculated Patent Term Expiry	
CA2276259 AA	19990628	LSPB	+	published / reissued	
CA2276259 AA	19990628	LSES	+EEER	EXAMINATION REQUEST	
CA2276259 C	20020806	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2276259 C	20041029	LSLE	-MKLA	LAPSED	
CA2276259 C	20181029	PEXP		Calculated Patent Term Expiry	
CL1998002601 A1	19990927	LSPB	+	published / reissued	
CO4810347 A1	19990630	LSPB	+	published / reissued	
EP0958443 A1	19991124	LSPB	+	published / reissued	
EP0958443 A1	19991124	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19990714
EP0958443 A1	20011004	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20010821
EP0958443 A1	20030813	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20030205
NZ336537 A	20010223	LSPB	+	published / reissued	
NZ336537 A	20010629	LSGT	+PSEA	PATENT SEALED	
PE88599 A1	19990920	LSPB	+	published / reissued	
PE88599 A1	20020612	LSWD	-FD	APPLICATION DECLARED VOID OR LAPSED	
US6384711 BA	20020507	LSGT	+	granted / extensions (spc, cpc, pte)	
US6384711 BA	19981209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MEDECO SECURITY LOCKS, INC., VIRGINIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:CREGGER, BARTON B.; SCHOELL, LANCE G.; KINGMA, STANLEY D.; AND OTHERS; REEL/FRAME:009649/0424; SIGNING DATES FROM 19981109 TO 19981119
US6384711 BA	20060508	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6384711 BA	20060612	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6384711 BA	20060704	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20060507

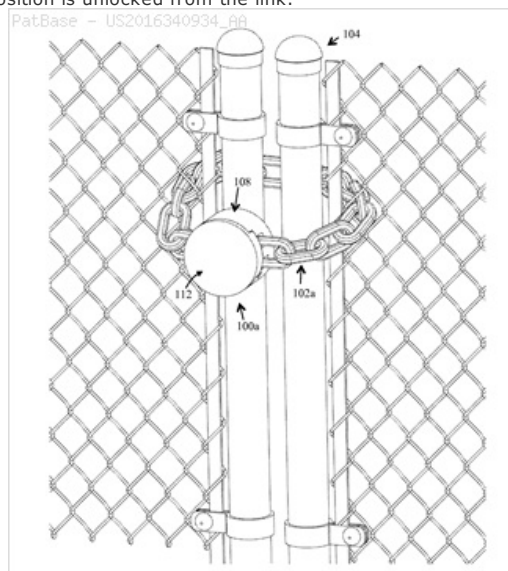
US6384711 BA	20181105	PEXP		Calculated Patent Term Expiry	
WO9923332 A1	19990514	LSPB	+	published / reissued	
WO9923332 A1	19990628	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2276259 COUNTRY OF REF DOCUMENT : CA
WO9923332 A1	19990628	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2276259 COUNTRY OF REF DOCUMENT : CA KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO9923332 A1	19990701	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 336537 COUNTRY OF REF DOCUMENT : NZ
WO9923332 A1	19990702	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/1999/006260 COUNTRY OF REF DOCUMENT : MX
WO9923332 A1	19990714	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1998956248 COUNTRY OF REF DOCUMENT : EP
WO9923332 A1	19990730	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12817/99 COUNTRY OF REF DOCUMENT : AU
WO9923332 C2	19991124	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1998956248 COUNTRY OF REF DOCUMENT : EP
WO9923332 C2	20000309	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO9923332 C2	20021107	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 12817/99 COUNTRY OF REF DOCUMENT : AU
WO9923332 C2	20030205	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1998956248 COUNTRY OF REF DOCUMENT : EP

Abstract: The present invention discloses a **locking** link, composed of a cover moveably engaged with a link. The cover at a first engaged position is **locked** with the link, and at a second engaged position is unlocked from the link.

International (IPC 8-9): E05B67/00 (Advanced/Invention)

CPC: E05B67/003 E05B67/063 E05B67/24 E05B67/365

US: 70/51



Publication number	Publication date	Application number	Application date
US2016340934 AA	20161124	US20150718023	20150520
US10047547 BB	20180814	US20150718023	20150520

US20150718023 20150520

Probable Assignee: PACIFIC LOCK CO
Assignee(s) (std): PACIFIC LOCK CO
Inventor(s) (std): WAUGH GREGORY ; YUEN MATTHEW WATSON
Agent(s): PATENT LAW AGENCY LLC; GANJIAN PETER

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Patent	Date recorded	Event group	Code	Event	Details
US10047547 BB	20180814	LSGT	+	granted / extensions (spc, cpc, pte)	
US10047547 BB	20180725	LSGT	PAT1	Patented Case	
US10047547 BB	20350520	PEXP		Calculated Patent Term Expiry	
US2016340934 AA	20161124	LSPB	+	published / reissued	
US2016340934 AA	20150520	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PACIFIC LOCK COMPANY, CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:WAUGH, GREGORY; YUEN, MATTHEW WATSON; REEL/FRAME:035685/0121 EFFECTIVE DATE : 20150520
US2016340934 AA	20170404	LSES	NFA1	Non Final Action Mailed	
US2016340934 AA	20170907	LSES	NFA1	Non Final Action Mailed	
US2016340934 AA	20180307	LSES	NFA1	Non Final Action Mailed	
US2016340934 AA	20180523	LSES	+NAM1	Notice of Allowance Mailed -- Application	

				Received in Office of Publications
US2016340934 AA	20180711	LSFE	+PPR1	Publications -- Issue Fee Payment Received
US2016340934 AA	20180712	LSFE	+PPV1	Publications -- Issue Fee Payment Verified

Title: Padlock with non-metallic shackle

Abstract: A padlock for use in a hazardous environment comprises a plastic shackle 114 with first leg 116 and a second leg 118, a body 12 with a first aperture for receiving the first leg 116 and a second aperture for receiving the second leg 118, a shackle alignment arrangement 139, and where the shackle 114 can be **locked** by inserting its legs 116, 118 into their respective body apertures and moving the shackle 114 towards the body 12. The shackle alignment arrangement 139 comprises a shaped shackle portion and a body portion with a correspondingly shaped bore adapted to receive the shackle 114 only when the legs of the shackle 114 are correctly aligned with their respective body apertures. This prevents the shackle 114 from moving into the body 12 when the shackle 114 is not correctly aligned.

Classifications:

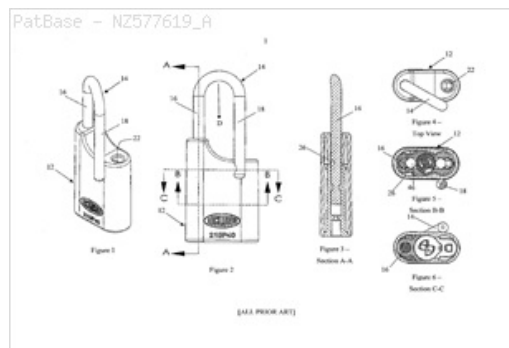
International (IPC 8-9): E05B67/00 E05B67/06

E05B67/22 (Advanced/Invention);

E05B67/00 (Core/Invention)

CPC: E05B15/1635 E05B67/02 E05B67/06 E05B67/24

European: E05B15/16C E05B67/02 E05B67/06 E05B67/24



Family:

Publication number	Publication date	Application number	Application date
AU2009202346 AA	20100107	AU20090202346	20090612
AU2009202346 BB	20140327	AU20090202346	20090612
NZ577619 A	20101224	NZ20090577619	20090612

Priority:

AU20080903002 20080613 AU20090202346 20090612

Probable Assignee: ASSA ABLOY AUSTRALIA PTY LTD

Assignee(s): (std): ASSA ABLOY AUSTRALIA PTY LTD

Assignee(s): ASSA ABLOY AUSTRALIA PTY LIMITED

Inventor(s): (std): HAYTER STEWART JOHN

Inventor(s): STEWART JOHN HAYTER

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; PHILLIPS ORMONDE FITZPATRICK

Legal status (INPADOC)

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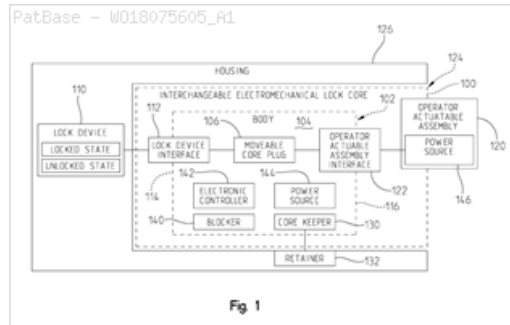
Patent	Date recorded	Event group	Code	Event	Details
AU2009202346 AA	20100107	LSPB	+	published / reissued	
AU2009202346 BB	20140327	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2009202346 BB	20140724	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2009202346 BB	20290612	PEXP		Calculated Patent Term Expiry	
NZ577619 A	20101224	LSPB	+	published / reissued	
NZ577619 A	20110429	LSGT	+PSEA	PATENT SEALED	
NZ577619 A	20130328	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 12 JUN 2016 BY CULLENS EFFECTIVE DATE : 20130314
NZ577619 A	20160527	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 12 JUN 2017 BY CPA GLOBAL EFFECTIVE DATE : 20160513
NZ577619 A	20170526	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 12 JUN 2018 BY CPA GLOBAL EFFECTIVE DATE : 20170512
NZ577619 A	20180525	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 12 JUN 2019 BY

Title: ELECTRO-MECHANICAL **LOCK** CORE

Abstract: An interchangeable electro-mechanical **lock** core for use with a **lock** device having a **locked** state and an unlocked state is disclosed. The interchangeable electromechanical **lock** core may include a moveable plug having a first position relative to a **lock** core body which corresponds to the **lock** device being in the **locked** state and a second position relative to a **lock** core body which corresponds to the **lock** device being in the unlocked state.

Classifications:

International (IPC 8-9): E05B15/00 E05B17/22 E05B27/04 E05B35/14 E05B47/00 E05B49/00 E05B9/08 (Advanced/Invention)
CPC: E05B1/0092 E05B27/0007 E05B47/0009 E05B47/0012 E05B47/0615 E05B47/0642 E05B2009/046 E05B2047/0053 E05B2047/0054 E05B2047/0058 E05B2047/0091 E05B2047/0095 G07C9/00174 G07C2009/00642 G07C2009/00769

**Family:**

Publication number	Publication date	Application number	Application date
TW201827683 A	20180801	TW20170135750	20171018
WO18075605 A1	20180426	WO2017US57123	20171018

Priority:

US20160410186P 20161019

Probable Assignee: BEST ACCESS SOLUTIONS INC**Assignee(s):** (std): BEST ACCESS SOLUTIONS INC

Inventor(s): (std): ALLEN BRENDON ; BARNETT III ; BARNETT III STREET ANTHONY ; BECKE PAUL ; LEMIEUX CHRISTOPHER W ; PELOQUIN RYAN H ; ROMANO ANTHONY ; SEMAN ANDREW E ; SEMAN JR ; HILL GARY ; STANTON MATTHEW ; VELDERMAN MATTHEW J ; WHITE DANIEL J

Inventor(s): A BARNETT III STREET ANTHONY ; W LEMIEUX CHRISTOPHER W ; J VELDERMAN MATTHEW J ; J WHITE DANIEL J ; SEMAN JR ANDREW E ; E SEMAN ANDREW E ; H PELOQUIN RYAN H

Agent(s): MEYERS WILLIAM S

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 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

Legal status (INPADOC)[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
TW201827683 A	20180801	LSPB	+	published / reissued	
WO18075605 A1	20180426	LSPB	+	published / reissued	