

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3574011

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
THATCHER TUBES LLC	01/15/2003
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SILGAN TUBES CORPORATION
<b>Street Address:</b>	14515 N. OUTER FORTY
<b>City:</b>	CHESTERFIELD
<b>State/Country:</b>	MISSOURI
<b>Postal Code:</b>	63017
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	6129880
<b>Patent Number:</b>	6165395
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(212)294-4700
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	2122946635
<b>Email:</b>	dkumar@winston.com
<b>Correspondent Name:</b>	WINSTON & STRAWN LLP - BECKY L. TROUTMAN
<b>Address Line 1:</b>	101 CALIFORNIA STREET
<b>Address Line 4:</b>	SAN FRANCISCO, CALIFORNIA 94111-5840
<b>ATTORNEY DOCKET NUMBER:</b>	86239.35-ASN-THATCHER-STC
<b>NAME OF SUBMITTER:</b>	BECKY L. TROUTMAN
<b>SIGNATURE:</b>	/Becky L. Troutman/
<b>DATE SIGNED:</b>	10/16/2015
<b>Total Attachments: 12</b>	
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## ASSIGNMENT OF PATENTS

**THIS AGREEMENT**, made this 15h day of January, 2003 by and between Thatcher Tubes LLC, a Delaware limited liability company (hereinafter "Assignor") Silgan Tubes Corporation, a Delaware corporation (hereinafter "Assignee").

**WHEREAS**, Assignor and Assignee are parties to that certain Asset Purchase Agreement dated as of the date hereof (the "Purchase Agreement") by and among the Assignor, Assignee and the other signatories thereto;

**WHEREAS**, Assignor, as set forth in the Purchase Agreement, is the owner and in full possession of any and all patents or patent applications that may be or have been granted therefore as fully set forth in the Purchase Agreement and Schedules thereto and are listed on Exhibit "A" attached hereto and made a part hereof (hereinafter collectively called the "Patents");

**WHEREAS**, Assignor has agreed to transfer the entire ownership of the Patents to Assignee pursuant to the Purchase Agreement;

**NOW THEREFORE**, for good and other valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the parties agree as follows:

(1) Assignor does hereby sell, assign and transfers to Assignee, its successors and assigns, free and clear of all liens and encumbrances, the entire right, title and interest in and to the Patents, and the inventions disclosed therein, both in the United States and in all foreign countries, including all continuations, continuations-in-part, divisions, renewals, extensions and reissues of any applications filed and patents granted, the right to claim all benefits and priority rights under any applicable convention, and the right to sue for all past and future infringements and to collect all past and future damages and royalties accruing therefrom;

(2) Assignor, and any legal representative of Assignor will assist the Assignee in the prosecution of any patent applications or patents listed in Exhibit "A", including any pending or anticipated application(s), and vesting in Assignee exclusive title to the same, including executing and delivering to Assignee any papers which may be requested by Assignee to carry out the terms of this Assignment. Assignor further covenants and agrees to assist, and that it will assist Assignee in any interference proceedings involving said Patents, and in any litigation involving said Patents, and will assist Assignee in the ascertainment of facts and the production of evidence relating to said Patents.

(3) In the event it is found that Exhibit "A" contains inadvertent errors of omission or inclusion, Assignor and Assignee agree that Exhibit "A" may be amended by mutual agreement by the addition or deletion of Patents or patent applications.

(4) Assignor does hereby authorize and request the United States Commissioner of Patents and Trademarks to record this Assignment in the United States Patent and Trademark Office and to issue any and all patents that may be granted pursuant to this Assignment to Assignee.

**[Signature Page Follows]**

IN WITNESS WHEREOF, Assignor intends to be legally bound as of the day and year first written above.

ASSIGNOR:

THATCHER TUBES, LLC

By: [Signature]

Name: Roger Sim

Title: VP

STATE OF Illinois )

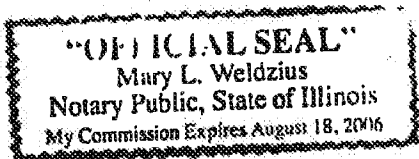
COUNTY OF Cook )

SS:

I, Mary L. Weldzius, a notary public in and for, and residing in the said County in the State aforesaid, DO HEREBY CERTIFY, that Roger Sim, the VP of Manager of Thatcher Tubes, LLC is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person, and acknowledged that he/she signed, sealed and delivered said instrument as the free and voluntary act of Roger Sim, the VP of Manager of Thatcher Tubes, LLC for the uses and purposes therein set forth.

GIVEN under my hand and notarial seal, this 11th day of January, 2003.

[Signature]  
Notary Public



Revised  
December 23, 2002

THATCHER TUBES LLC

HOLOUBEK, ANTHONY, HARMS  
"Container with Twist-off Tamper Evident Feature"  
(Tote)

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
84183	U.S.	4,666,063	8/23/85	5/19/87	8/23/05

HOLOUBEK  
"Unit Dose Dispensing Collapsible Tube Adapted to  
Dispense a Viscous Liquid Therefrom"  
(Unit Dose)

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
87172	U.S.	4,776,494	9/14/87	10/11/88	9/14/07

ERICKSON  
"Balanced Flow Extrusion Crosshead and Die Assembly"  
(Balanced Flow)

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
86128	U.S.	4,723,902	8/21/86	2/09/88	8/21/06

HOLOUBEK, RHOADES  
 "Tamper Evident Container Assembly"  
 (Lip Balm)

<u>File</u>	<u>Country</u>	Pat. No. or <u>*Ser. No.*</u>	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
87176	U.S.	4,844,250	11/16/87	7/04/89	11/16/07

LAY  
 "Two-Part Closure Assembly"  
 (Liquid Detergent Dispenser)

<u>File</u>	<u>Country</u>	Pat. No. or <u>*Ser. No.*</u>	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
88044	U.S.	4,844,302	7/11/88	7/04/89	7/11/08

HOLOUBEK, RHOADES  
 "Method of Forming a Headed Thermoplastic Tube"  
 (Henry Patent)

<u>File</u>	<u>Country</u>	Pat. No. or <u>*Ser. No.*</u>	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
90139	U.S.	5,069,856	9/12/90	12/03/91	9/12/10
91357	Japan	2,922,029	9/12/91	4/30/99	9/12/11
91358	EPO <sup>(2)</sup>	0475126	8/19/91	4/16/97	8/19/11
91359	Brazil	9103919-3	9/09/91	10/03/00	9/09/11
91360	S. Africa	91/6244	8/07/91	5/27/92	8/07/11
91361	Norway	309313	9/11/91	1/15/01	9/11/11

HOLOUBEK & RHOADES  
 "Headed Thermoplastic Tube"  
 (Div. of 5,069,856)

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
91370	U.S.	5,203,379	8/13/91	4/20/93	8/13/11

HOLOUBEK & RHOADES  
 "Thermoplastic Composite Layered Squeeze Tube"  
 (Clear View Stripe)

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
92149	U.S.	5,238,148	8/10/92	8/24/93	8/10/12
93088	India	182228	7/30/93	1/05/00	7/30/07
93091	Mexico	183,710	8/09/93	1/08/97	8/09/13
95009	Canada	2,142,094	8/04/93	4/04/00	8/04/13
95011	EPO <sup>(3)</sup>	652,839	8/04/93	7/16/97	8/04/13

HOLOUBEK & RHOADES  
 "Method of Making a Thermoplastic Composite Layered Squeeze Tube"  
 (Div. of US 5,238,148)

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
93014	U.S.	5,322,658	2/17/93	6/21/94	2/17/13

RONALD E. KIERAS  
 "Method of Decorating Multi-Layered Plastic Tubes"  
 (Multi Layer Decoration)

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
96045	U.S.	(Abandoned)			
97046	EPO <sup>(5)</sup>	0829340	7/29/97	9/13/00	7/29/17
97047	Japan	3034488	8/25/97	2/18/00	8/25/17
97051	Canada	2,210,317	7/14/97	11/27/01	7/14/17

RONALD E. KIERAS  
 "Rotatable Spout Dispensing Tube"

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
96012	U.S.	5,746,356	12/02/96	5/05/98	12/02/16

RONALD E. KIERAS  
 "Twist Cap Dispensing Flexible Tube"

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
96013	U.S.	5,797,518	12/18/96	8/25/98	12/18/16

KIERAS & EKSTROM  
 "Thermoplastic Squeeze Tube With Self-Sealing  
 Dispensing Orifice"

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
97013	U.S.	5,918,783	6/26/97	07/06/99	06/26/17
98075	EPC <sup>(4)</sup>	*98111734.4*	6/25/98		
98076	Canada	*2241735*	6/25/98		

RONALD E. KIERAS  
 "Rigid Thermoplastic Squeeze Container Having  
 Self-Sealing Dispensing Valve"

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
97034	U.S.	5,911,344	11/21/97	6/15/99	11/21/17
99038	Canada	*2,277,948*	7/14/99		

KIERAS & RHOADES  
 "MACHINE FOR MANUFACTURING THERMOPLASTIC TUBES"

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
98067	U.S.	6,334,767	11/25/98	01/01/02	11/25/18

DEBORAH L. LOEB & JAMES A. NASS  
 "Applicator Tube"

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
98016	U.S.	Des 414,688	3/19/98	10/05/99	10/05/13

RONALD E. KIERAS & JOHN J. RHOADES  
 "Method For Manufacturing Thermoplastic Tubes"  
 (Besok Method)

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
98048	U.S.	6,221,189	11/25/98	4/24/01	11/15/18

JOHN J. RHOADES  
 "Method Of Forming A Headed Thermoplastic Tube"  
 (Improved Henry)

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
98049	U.S.	6,136,247	11/25/98	10/24/00	11/25/18

RONALD E. KIERAS and JOHN J. RHOADES  
 "Method Of Forming A Headed Thermoplastic Tube  
 With A Reusable Closure"  
 (Mold In Cap)

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
98070	U.S.	6,129,880	11/25/98	10/10/00	11/25/18
99083	EPO <sup>(4)</sup>	*99123441.0*	11/24/99		
99084	Poland	*P-336-750*	11/25/99		
99085	Canada	*2,290,313*	11/24/99		
99086	Mexico	*9910857*	11/24/99		
99087	Japan	*333483/1999*	11/24/99		

RONALD E. KIERAS and JOHN J. RHOADES  
 "Plant For Manufacturing And Packing  
 Thermoplastic Tubes"  
 (Besok Plant)

<u>File</u>	<u>Country</u>	Pat. No. or * <u>Ser. No.</u> *	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
98072	U.S.	6,047,525	11/25/98	04/11/00	11/25/18

RONALD E. KIERAS and JOHN J. RHOADES  
 "Machine For Manufacturing Thermoplastic Tubes"  
 (Besok Apparatus)

<u>File</u>	<u>Country</u>	Pat. No. 6,334,767 or * <u>Ser. No.</u> *	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
98067	U.S.	6,334,767	11/25/98	01/01/02	11/25/18

KIERAS, RHOADES & FRAZIER  
 "Process Control Method For A Machine For Manufacturing  
 Thermoplastic Tubes"  
 (Besok Control)

<u>File</u>	<u>Country</u>	Pat. No. or * <u>Ser. No.</u> *	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
98068	U.S.	6,165,395	11/25/98	12/26/00	11/25/18

DEBORAH I. LOEB & JAMES A. NASS  
"Applicator Tube Head"

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
98105	U.S.	Des 423,355	9/08/98	4/25/00	4/25/14

RONALD E. KIERAS, JOHN J. RHOADES  
"Machine & Method For Manufacturing Thermoplastic Tubes"  
(98048 and 98067 combined)

<u>File</u>	<u>Country</u>	Pat. No. or *Ser. No.*	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
98119	EPC <sup>(4)</sup>	*99101341.8*	01/25/99		
98120	China	*99100442.6*	01/29/99		
98121	Indonesia	*P990065*	01/29/99		
98122	India	*170/Del/99*	01/29/99		
98123	Poland	*P-331,120*	01/29/99		
98124	Canada	*2,260,461*	01/27/99		
98125	Brazil	*9900309-0*	01/29/99		
98126	Mexico	*991009*	01/27/99		
98127	Argentina	*990100390*	01/29/99		
98128	Venezuela	*132-99*	01/29/99		
98129	Japan	3234581	01/29/99	9/21/01	1/29/19
98129A	Japan	*48981/2001*	02/23/01		

RONALD E. KIERAS  
 "Method Of Forming Plastic Tubes With Oriented Labeling"

<u>File</u>	<u>Country</u>	Pat. No. or * <u>Ser. No.*</u>	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
00081	U.S.	*771,190*	01/26/01		

RONALD E. KIERAS  
 "Squeezable Dispensing Tube and Cap" (Design)

<u>File</u>	<u>Country</u>	Pat. No. or * <u>Ser. No.*</u>	<u>Fil. Date</u>	<u>Pat. Date</u>	<u>Expiration</u>
00088	U.S.	D449,524	02/09/01	10/23/01	10/23/15

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- (1) Designated Countries are: France, Germany, Great Britain, Italy, Sweden and Switzerland.
  - (2) Designated Countries are: Austria, Belgium, Switzerland, Germany, Denmark, Spain, France, Great Britain, Greece, Italy, Liechtenstein, Luxembourg, Netherlands, Sweden
  - (3) Designated countries are: Austria, Switzerland, Germany, Spain, France, Great Britain and Italy
  - (4) Designated countries are: Austria, Denmark, Sweden, Belgium, Spain, France, Switzerland and Liechtenstein, Italy, Netherlands, Germany, Great Britain and Luxembourg.
  - (5) Designated countries are: France, Germany, Great Britain and Switzerland.