

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM453071

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the Receiving Party's Address previously recorded on Reel 006181 Frame 0395. Assignor(s) hereby confirms the the correct address for the Royal Bank of Canada is 1 Place Ville Maire, 6th Floor, Montreal, Quebec H3B 1Z5 Canada.

## CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
TCP Reliable, Inc.		07/24/2017	Corporation:
TCP Reliable Manufacturing, Inc.		07/24/2017	Corporation:
Cryopak Industries (2007) ULC		07/24/2017	Unlimited Liability Corporation:
Cryopak Verification Technologies, Inc.		07/24/2017	Corporation:
DDL, Inc.		07/24/2017	Corporation:
Nexkemia Petrochemicals Inc.		07/24/2017	Corporation:

## RECEIVING PARTY DATA

<b>Name:</b>	Royal Bank of Canada
<b>Street Address:</b>	1 Place Ville Marie
<b>Internal Address:</b>	6th Floor
<b>City:</b>	Montreal, Quebec
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	H3B 1Z5
<b>Entity Type:</b>	Corporation: CANADA

## PROPERTY NUMBERS Total: 16

Property Type	Number	Word Mark
<b>Registration Number:</b>	1576371	CRYOPAK
<b>Registration Number:</b>	2610776	FLEXIBLE ICE
<b>Registration Number:</b>	2100314	FREEZIT
<b>Registration Number:</b>	2507834	K
<b>Registration Number:</b>	2441453	PERMA-GEL
<b>Registration Number:</b>	2618099	SIMPLY COZY
<b>Registration Number:</b>	1746852	ESCORT
<b>Registration Number:</b>	3371131	ILOG
<b>Registration Number:</b>	4774132	K1

OP \$415.00 1576371

Property Type	Number	Word Mark
Registration Number:	3113556	DDL
Registration Number:	4178914	DDL
Registration Number:	3155308	PACKREVIEW
Registration Number:	4182541	RESPONSIBLE PACKAGING DEVELOPMENT GROUP
Registration Number:	4270814	RPDG
Registration Number:	4178919	TESTED AND PROVEN
Registration Number:	5061257	SLIDE TOP COOLER

**CORRESPONDENCE DATA**

**Fax Number:** 9735302225

*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.*

**Phone:** 9735302025

**Email:** pnussbaum@csglaw.com

**Correspondent Name:** Peter Nussbaum

**Address Line 1:** One Boland Drive

**Address Line 4:** West Orange, NEW JERSEY 07052

**NAME OF SUBMITTER:** Peter Nussbaum

**SIGNATURE:** /Peter Nussbaum/

**DATE SIGNED:** 12/04/2017

**Total Attachments: 20**

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<b>TRADEMARK ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
TCP Reliable, Inc.		07/24/2017	Corporation:
TCP Reliable Manufacturing, Inc.		07/24/2017	Corporation:
Cryopak Industries (2007) ULC		07/24/2017	Unlimited Liability Corporation:
Cryopak Verification Technologies, Inc.		07/24/2017	Corporation:
DDL, Inc.		07/24/2017	Corporation:
Nexkemia Petrochemicals Inc.		07/24/2017	Corporation:
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	Royal Bank of Canada		
<b>Street Address:</b>	200 Bay Street, P.O. Box 1, Royal Bank Plaza		
<b>Internal Address:</b>	4th Floor, North Tower		
<b>City:</b>	Toronto, Ontario		
<b>State/Country:</b>	CANADA		
<b>Postal Code:</b>	M5J 2J5		
<b>Entity Type:</b>	Chartered Bank: CANADA		
<b>PROPERTY NUMBERS Total: 16</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	1576371	CRYOPAK	
<b>Registration Number:</b>	2610776	FLEXIBLE ICE	
<b>Registration Number:</b>	2100314	FREEZIT	
<b>Registration Number:</b>	2507834	K	
<b>Registration Number:</b>	2441453	PERMA-GEL	
<b>Registration Number:</b>	2618099	SIMPLY COZY	
<b>Registration Number:</b>	1746852	ESCORT	

Registration Number:	3371131	ILOG
Registration Number:	4774132	K1
Registration Number:	3113556	DDL
Registration Number:	4178914	DDL
Registration Number:	3155308	PACKREVIEW
Registration Number:	4182541	RESPONSIBLE PACKAGING DEVELOPMENT GROUP
Registration Number:	4270814	RPDG
Registration Number:	4178919	TESTED AND PROVEN
Registration Number:	5061257	SLIDE TOP COOLER

## CORRESPONDENCE DATA

Fax Number: 9735302225  
 Phone: 973-530-2025  
 Email: pnussbaum@csglaw.com  
*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.*  
 Correspondent Name: Peter Nussbaum  
 Address Line 1: Chiesa Shuhinian & Giantomasi PC  
 Address Line 2: One Boland Drive  
 Address Line 4: West Orange, NEW JERSEY 07052

## DOMESTIC REPRESENTATIVE

Name:  
 Address Line 1:  
 Address Line 2:  
 Address Line 3:  
 Address Line 4:

NAME OF SUBMITTER: Peter Nussbaum

Signature: /Peter Nussbaum/

Date: 10/12/2017

## Total Attachments: 17

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RECEIPT INFORMATION

ETAS ID:	TM447051
Receipt Date:	10/12/2017
Fee Amount:	\$415

## INTELLECTUAL PROPERTY SECURITY AGREEMENT

**THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT** (the **Agreement**), dated as of July 24, 2017, is made by and between TCP Reliable, Inc. TCP Reliable Manufacturing, Inc., Cryopak Industries (2007) ULC, Cryopak Verification Technologies, Inc., DDL, Inc. and Nexkemia Petrochemicals Inc. (collectively, the **Grantors** and each a **Grantor**) and Royal Bank of Canada, as lender (the **Lender**).

**WHEREAS**, pursuant to a credit agreement dated as of the date hereof by and among, amongst others, NexKemia Petrochemicals Inc. and Cryopak Industries (2007) ULC, as Canadian Borrowers, TCP Reliable, Inc., TCP Reliable Manufacturing, Inc., Cryopak Verification Technologies, Inc., DDL, Inc. and others, as U.S. Borrowers, the Guarantors from time to time party thereto, and the Lender (as the same may be amended, supplemented, revised, restated or replaced from time to time, the Credit Agreement), the Lender has agreed to make extensions of credit subject to the terms and provisions of the Credit Agreement;

**AND WHEREAS**, in connection with the Credit Agreement, the Grantors have each executed and delivered one or more security agreements and/or deeds of hypothec, each dated on or about the date hereof (together with all amendments, supplements, reinstatement and other modifications, if any, from time to time made thereto, collectively, the **Security Agreements**);

**NOW THEREFORE**, for good and valuable consideration, the receipt of which is hereby acknowledged, each Grantor agrees as follows:

**SECTION 1. Definitions.** Unless otherwise defined herein or the context otherwise requires, capitalized terms used in this Agreement, including its preamble and recitals, have the meanings provided in the Credit Agreement.

**SECTION 2. Grant of Security Interest.** For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, to secure the payment and performance of all of the Obligations of the Grantors, the Grantors do hereby mortgage, pledge and hypothecate to the Lender and grant to the Lender a security interest in all of the following property (the **IP Collateral**), now owned and existing:

(a) all right, title and interest in and to all of each Grantor's trademarks, patents, copyrights and industrial designs, now existing anywhere in the world whether currently in use or not, all registrations and recordings thereof and all applications in connection therewith, whether pending or in preparation for filing, including registrations, recordings and applications with the Canadian Intellectual Property Office or in any office or agent of the United States of America or any foreign country, including those referred to in Schedule "A" hereto and all reissues, extensions or renewals thereof;

(b) all licenses and other agreements providing each Grantor with the right to use any of the items described in clause (a), including each license referred to in Schedule "A" hereto;

(c) all of the goodwill of the business connected with the use of, and symbolized by the items described in, clause (a);

(d) the right to sue third parties for past, present and future infringements of any IP Collateral described in clause (a) and to the extent applicable, clause (b); and

(e) all proceeds of, and rights associated with, the foregoing, including any claim by the Grantor against third parties for past, present or future infringement of any IP Collateral referred to in Schedule "A" hereto, or for any injury to the goodwill associated with the use of any such IP Collateral or for breach or enforcement of any license and all rights corresponding thereto throughout the world.

SECTION 3. Security Agreements. This Agreement has been executed and delivered by each Grantor for the purpose of recording the security interest of the Lender in the IP Collateral relating to intellectual property referred to in Schedule "A" with the Canadian Intellectual Property Office and the United States Patent and Trade Marks Office, as applicable. The security interest granted hereby has been granted as a supplement to, and not in limitation of, the security interest granted to the Lender under the Security Agreements. The Security Agreements (and all rights and remedies of the Lender) shall remain in full force and effect in accordance with its terms.

SECTION 4. Acknowledgment. Each Grantor does hereby further acknowledge and affirm that the rights and remedies of the Lender with respect to the security interest in the IP Collateral granted hereby are more fully set forth in the Security Agreements.

SECTION 5. Credit Agreement, etc. Notwithstanding any other term or provision hereof, in the event that any provisions hereof contradict and are incapable of being construed in conjunction with the provisions of the Credit Agreement, the provisions of the Credit Agreement shall take precedence over those contained herein.

SECTION 6. Counterparts. This Agreement may be executed by the parties hereto in several counterparts by telecopy or other electronic transmission, each of which shall be deemed to be an original and all of which shall constitute together but one and the same agreement.

SECTION 7. Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of New York.

*[Remainder of page intentionally left blank.]*

*[Signature page follows]*

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed and delivered by their respective officers thereunto duly authorized as of the day and first year above written.

**TCP RELIABLE, INC.**

Per: \_\_\_\_\_  
Name: Anthony Spina  
Title: Chief Financial Officer

**TCP RELIABLE MANUFACTURING, INC.**

Per: \_\_\_\_\_  
Name: Anthony Spina  
Title: Chief Financial Officer

**CRYOPAK INDUSTRIES (2007) ULC**

Per: \_\_\_\_\_  
Name: Maurice Barakat  
Title: President

**ROYAL BANK OF CANADA**

Per: \_\_\_\_\_  
Name:  
Title:

Per: \_\_\_\_\_  
Name:  
Title:



IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed and delivered by their respective officers thereunto duly authorized as of the day and first year above written.

TCP RELIABLE, INC.

Per: \_\_\_\_\_  
Name: Anthony Spina  
Title: Chief Financial Officer

TCP RELIABLE MANUFACTURING, INC.

Per: \_\_\_\_\_  
Name: Anthony Spina  
Title: Chief Financial Officer

CRYOPAK INDUSTRIES (2007) ULC

Per: \_\_\_\_\_  
Name: Maurice Barakat  
Title: President

ROYAL BANK OF CANADA

Per: \_\_\_\_\_  
Name:  
Title:

Per: \_\_\_\_\_  
Name:  
Title:

**CRYOPAK VERIFICATION TECHNOLOGIES, INC.**

Per: \_\_\_\_\_

Name: Anthony Spina

Title: Chief Financial Officer

**DDL, INC.**

Per: \_\_\_\_\_

Name: Anthony Spina

Title: Chief Financial Officer

**NEXKEMIA PETROCHEMICALS INC.**

Per: \_\_\_\_\_

Name: Maurice Barakat

Title: President

CRYOPAK VERIFICATION TECHNOLOGIES, INC.

Per: \_\_\_\_\_

Name: Anthony Spina

Title: Chief Financial Officer

DDL, INC.

Per: \_\_\_\_\_

Name: Anthony Spina

Title: Chief Financial Officer

NEXKEMIA PETROCHEMICALS INC.

Per: \_\_\_\_\_

Name: Maurice Barakat

Title: President

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**TCP RELIABLE, INC.**

Per: \_\_\_\_\_

Name: Anthony Spina

Title: Chief Financial Officer

**TCP RELIABLE MANUFACTURING, INC.**

Per: \_\_\_\_\_

Name: Anthony Spina

Title: Chief Financial Officer

**CRYOPAK INDUSTRIES (2007) ULC**

Per: \_\_\_\_\_

Name: Maurice Barakat

Title: President

**ROYAL BANK OF CANADA**

Per: \_\_\_\_\_

Name: Alexandre Charron

Title: Vice President

National Client Group - Finance

Per: \_\_\_\_\_

RBC Royal Bank

Name:

Title:

## SCHEDULE "A"

### 1. CANADIAN TRADEMARK REGISTRATIONS

Owner	Name	Registration No.	Registration Date/Filing Date
Cryopak Industries (2007) ULC	ICE-PAK/HOT PAK	TMA603105	2004-02-24
Cryopak Industries (2007) ULC	SIMPLY COZY	TMA497517	1998-07-21
Cryopak Industries (2007) ULC	GLACIER PAK	TMA398114	1992-05-08
Cryopak Industries (2007) ULC	FREEZIT	TMA471451	1997-02-21
Cryopak Industries (2007) ULC	6 PAK	TMA613460	2004-06-22
Cryopak Industries (2007) ULC	ICE-PAK	TMA431444	1994-08-05
Cryopak Industries (2007) ULC	ENVIRO ICE	TMA575069	2003-02-05
Cryopak Industries (2007) ULC	LUNCH PAK	TMA391319	1991-12-06
Cryopak Industries Inc.	GEL-E-ICE	TMA737747	2009-04-08
Cryopak Industries Inc.	KOOL KIDZ	TMA737968	2009-04-14
Cryopak Industries Inc.	K Design	TMA602904	2004-02-20

### 2. CANADIAN PATENT APPLICATIONS AND REGISTRATIONS

Owner	Name	Registration No.	Registration Date/Filing Date
TCP Reliable, Inc.	RAPID COOLING TO AND MAINTAINING OF WHOLE BLOOD AT 20 TO 24C FOR PROCESSING	2770657	2014-09-16

3. U.S. TRADEMARK REGISTRATIONS

Owner	Name	Registration No.	Registration Date/Filing Date
Cryopak Industries (2007) ULC	CRYOPAK (and Design)	1576371	1990-01-09
Cryopak Industries (2007) ULC	FLEXIBLE ICE	2610776	2002-08-20
Cryopak Industries (2007) ULC	FREEZIT	2100314	1997-09-23
Cryopak Industries (2007) ULC	K (and Design)	2507834	2001-11-31
Cryopak Industries (2007) ULC	PERMA-GEL	2441453	2001-04-03
Cryopak Industries (2007) ULC	SIMPLY COZY	2618099	2002-09-10
Cryopak Verification Technologies, Inc.	ESCORT	1746852	1993-01-19
Cryopak Verification Technologies, Inc.	ILOG (Stylized)	3371131	2008-01-22
Cryopak Verification Technologies, Inc.	K1	4774132	2015-07-14
DDL, Inc.	DDL	3113556	2006-07-11
DDL, Inc.	DDL and Design	4178914	2012-07-24
DDL, Inc.	PACKREVIEW	3155308	2006-10-10
DDL, Inc.	RESPONSIBLE PACKAGING DEVELOPMENT	4182541	2012-07-31

Owner	Name	Registration No.	Registration Date/Filing Date
	GROUP		
DDL, Inc.	RPDG	4270814	2013-01-08
DDL, Inc.	TESTED AND PROVEN	4178919	2012-07-21
TCP Reliable, Inc.	SLIDE TOP COOLER	5061257	2016-10-11

#### 4. U.S. PATENT APPLICATIONS AND REGISTRATIONS

Owner	Name	Registration No.	Registration Date/ Filing Date
TCP Reliable, Inc.	Shaping of Expanded Polystyrene Made Using D-Limonene as a Plasticizer	9644079	4/15/2014
TCP Reliable, Inc.	Network of Participants in a Shipment Cold-Chain	9,373,099	10/9/2014
TCP Reliable, Inc.	Monitoring temperature-sensitive cargo with automated generation of regulatory qualification	9,400,966	1/6/2015
TCP Reliable, Inc.	Expanded Polystyrene Made Using D-Limonene as a Plasticizer	8,772,362	12/11/13
TCP Reliable, Inc.	Monitoring Temperature-Sensitive Cargo with Automated Generation of Regulatory Qualification	8,881,540	1/27/2014
TCP Reliable, Inc.	Monitoring temperature-sensitive cargo with automated generation of regulatory qualification	8,935,934	12/4/2013
TCP Reliable, Inc.	Monitoring Shipment of Biological Products to Determine Remaining Refrigerant Quantity	8,696,151	3/12/2013

Owner	Name	Registration No.	Registration Date/ Filing Date
TCP Reliable, Inc.	Fabricating a Phase Change Blood Cooling System	8,802,364	12/7/2012
TCP Reliable, Inc.	Thermal Packaging System For Blood And Organs	9,060,509	12/6/2012
TCP Reliable, Inc.	Thermal Packaging System	8,505,314	11/9/2012
TCP Reliable, Inc.	Fabricating a Flexible Rapid Blood Cooling System	8,349,552	03/27/2012
TCP Reliable, Inc.	Thermal Packaging System	8,316,662	02/21/2012
TCP Reliable, Inc.	Rapid Cooling To And Maintaining Of Whole Blood At 20 To 24c For Processing	8,192,924	10/17/2011
TCP Reliable, Inc.	Selecting Packaging and Coolant Systems for Shipment of Biological Products	8,375,730	01/26/2012
TCP Reliable, Inc.	Thermal Packaging System	7,919,163	8/24/2007
TCP Reliable, Inc.	Sealing Foam Panels With a Compression-Generating Joint	7,905,005	02/2/2007
TCP Reliable, Inc.	Temperature Controlled Shipping Using One or More Smaller Insulated Containers Inside a Larger Insulated Container	7,849,708	02/20/2007
TCP Reliable, Inc.	Thermal Packaging System	7,294,374	8/7/2003
TCP Reliable, Inc.	Temperature-controlled container with heating means	6,028,293	4/20/1998
TCP Reliable, Inc.	Collapsible and reusable shipping container	5,669,233	3/11/1996
TCP Reliable, Inc.	Insulated Storage/Shipping Container for Maintaining a Constant Temperature	6,044,650	8/13/1997
TCP Reliable, Inc.	Temperature-controlled	6,020,575	4/20/1998



Owner	Name	Registration No.	Registration Date/ Filing Date
	Container with Heating Means and Eutectic Pack		
TCP Reliable, Inc.	Temperature Controlled Container	5,934,099	7/28/1997
TCP Reliable, Inc.	Thermal Packaging Assembly	4,931,333	9/9/1988
TCP Reliable, Inc.	Expanded Polystyrene Cooler with Slide-Locking Lid	App No. 14991052	N/A
TCP Reliable Manufacturing, Inc.	Monitoring Temperature-Sensitive Cargo with Automated Generation of Regulatory Qualification	8,881,540	1/27/2014
TCP Reliable Manufacturing, Inc.	Monitoring temperature-sensitive cargo with automated generation of regulatory qualification	8,935,934	12/4/2013
TCP Reliable Manufacturing, Inc.	Monitoring Shipment of Biological Products to Determine Remaining Refrigerant Quantity	8,696,151	3/12/2013
TCP Reliable Manufacturing, Inc.	Fabricating a Phase Change Blood Cooling System	8,802,364	12/7/2012
TCP Reliable Manufacturing, Inc.	Thermal Packaging System	8,505,314	11/9/2012
TCP Reliable Manufacturing, Inc.	Fabricating a Flexible Rapid Blood Cooling System	8,349,552	03/27/2012
TCP Reliable Manufacturing, Inc.	Thermal Packaging System	8,316,662	02/21/2012
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TCP Reliable Manufacturing, Inc.	Selecting Packaging and Coolant Systems for Shipment of Biological Products	8,375,730	01/26/2012

Owner	Name	Registration No.	Registration Date/ Filing Date
TCP Reliable Manufacturing, Inc.	Thermal Packaging System	7,919,163	8/24/2007
TCP Reliable Manufacturing, Inc.	Sealing Foam Panels With a Compression-Generating Joint	7,905,005	02/2/2007
TCP Reliable Manufacturing, Inc.	Temperature Controlled Shipping Using One or More Smaller Insulated Containers Inside a Larger Insulated Container	7,849,708	02/20/2007
TCP Reliable Manufacturing, Inc.	Thermal Packaging System	7,294,374	8/7/2003
TCP Reliable Manufacturing, Inc.	Temperature-controlled container with heating means	6,028,293	4/20/1998
TCP Reliable Manufacturing, Inc.	Collapsible and reusable shipping container	5,669,233	3/11/1996
Cryopak Industries (2007) ULC	Shaping of Expanded Polystyrene Made Using D-Limonene as a Plasticizer	9644079	4/15/2014
Cryopak Industries (2007) ULC	Network of Participants in a Shipment Cold-Chain	9,373,099	10/9/2014
Cryopak Industries (2007) ULC	Monitoring temperature-sensitive cargo with automated generation of regulatory qualification	9,400,966	1/6/2015
Cryopak Industries (2007) ULC	Expanded Polystyrene Made Using D-Limonene as a Plasticizer	8,772,362	12/11/2013
Cryopak Industries (2007) ULC	Monitoring Temperature-Sensitive Cargo with Automated Generation of Regulatory Qualification	8,881,540	1/27/2014
Cryopak Industries (2007) ULC	Monitoring temperature-sensitive cargo with automated generation of	8,935,934	12/4/2013

Owner	Name	Registration No.	Registration Date/ Filing Date
	regulatory qualification		
Cryopak Industries (2007) ULC	Monitoring Shipment of Biological Products to Determine Remaining Refrigerant Quantity	8,696,151	3/12/2013
Cryopak Industries (2007) ULC	Fabricating a Phase Change Blood Cooling System	8,802,364	12/7/2012
Cryopak Industries (2007) ULC	Thermal Packaging System For Blood And Organs	9,060,509	12/6/2012
Cryopak Industries (2007) ULC	Thermal Packaging System	8,505,314	11/9/2012
Cryopak Industries (2007) ULC	Fabricating a Flexible Rapid Blood Cooling System	8,349,552	03/27/2012
Cryopak Industries (2007) ULC	Thermal Packaging System	8,316,662	02/21/2012
Cryopak Industries (2007) ULC	Rapid Cooling To And Maintaining Of Whole Blood At 20 To 24c For Processing	8,192,924	10/17/2011
Cryopak Industries (2007) ULC	Selecting Packaging and Coolant Systems for Shipment of Biological Products	8,375,730	01/26/2012
Cryopak Industries (2007) ULC	Thermal Packaging System	7,919,163	8/24/2007
Cryopak Industries (2007) ULC	Sealing Foam Panels With a Compression-Generating Joint	7,905,005	02/2/2007
Cryopak Industries (2007) ULC	Temperature Controlled Shipping Using One or More Smaller Insulated Containers Inside a Larger Insulated Container	7,849,708	02/20/2007
Cryopak Industries (2007) ULC	Thermal Packaging System	7,294,374	8/7/2003
Cryopak Industries	Temperature-controlled container with heating	6,028,293	4/20/1998

Owner	Name	Registration No.	Registration Date/ Filing Date
(2007) ULC	means		
Cryopak Industries (2007) ULC	Collapsible and reusable shipping container	5,669,233	3/11/1996
Cryopak Industries (2007) ULC	Temperature-controlled Container with Heating Means and Eutectic Pack	6,020,575	4/20/1998
Cryopak Industries (2007) ULC	Temperature Controlled Container	5,934,099	7/28/1997
Cryopak Industries (2007) ULC	Thermal Packaging Assembly	4,931,333	9/9/1988
Cryopak Industries (2007) ULC	Insulated Storage/Shipping Container for Maintaining a Constant Temperature	6,044,650	8/13/1997
NexKemia Petrochemicals Inc.	Shaping of Expanded Polystyrene Made Using D- Limonene as a Plasticizer	9644079	4/15/2014
NexKemia Petrochemicals Inc.	Network of Participants in a Shipment Cold-Chain	9,373,099	10/9/2014
NexKemia Petrochemicals Inc.	Monitoring temperature- sensitive cargo with automated generation of regulatory qualification	9,400,966	1/6/2015
NexKemia Petrochemicals Inc.	Expanded Polystyrene Made Using D-Limonene as a Plasticizer	8,772,362	12/11/13
NexKemia Petrochemicals Inc.	Monitoring Temperature- Sensitive Cargo with Automated Generation of Regulatory Qualification	8,881,540	1/27/2014
NexKemia Petrochemicals Inc.	Monitoring temperature- sensitive cargo with automated generation of regulatory qualification	8,935,934	12/4/2013
NexKemia Petrochemicals Inc.	Monitoring Shipment of Biological Products to Determine Remaining	8,696,151	3/12/2013

Owner	Name	Registration No.	Registration Date/ Filing Date
	Refrigerant Quantity		
NexKemia Petrochemicals Inc.	Fabricating a Phase Change Blood Cooling System	8,802,364	12/7/2012
NexKemia Petrochemicals Inc.	Thermal Packaging System For Blood And Organs	9,060,509	12/6/2012
NexKemia Petrochemicals Inc.	Thermal Packaging System	8,505,314	11/9/2012
NexKemia Petrochemicals Inc.	Fabricating a Flexible Rapid Blood Cooling System	8,349,552	03/27/2012
NexKemia Petrochemicals Inc.	Thermal Packaging System	8,316,662	02/21/2012
NexKemia Petrochemicals Inc.	Rapid Cooling To And Maintaining Of Whole Blood At 20 To 24c For Processing	8,192,924	10/17/2011
NexKemia Petrochemicals Inc.	Selecting Packaging and Coolant Systems for Shipment of Biological Products	8,375,730	01/26/2012
NexKemia Petrochemicals Inc.	Thermal Packaging System	7,919,163	8/24/2007
NexKemia Petrochemicals Inc.	Sealing Foam Panels With a Compression-Generating Joint	7,905,005	02/2/2007
NexKemia Petrochemicals Inc.	Temperature Controlled Shipping Using One or More Smaller Insulated Containers Inside a Larger Insulated Container	7,849,708	02/20/2007
NexKemia Petrochemicals Inc.	Thermal Packaging System	7,294,374	8/7/2003
NexKemia Petrochemicals Inc.	Temperature-controlled container with heating means	6,028,293	4/20/1998
NexKemia Petrochemicals Inc.	Collapsible and reusable shipping container	5,669,233	3/11/1996

Owner	Name	Registration No.	Registration Date/ Filing Date
NexKemia Petrochemicals Inc.	Insulated Storage/Shipping Container for Maintaining a Constant Temperature	6,044,650	8/13/1997
NexKemia Petrochemicals Inc.	Temperature-controlled Container with Heating Means and Eutectic Pack	6,020,575	4/20/1998
NexKemia Petrochemicals Inc.	Temperature Controlled Container	5,934,099	7/28/1997
NexKemia Petrochemicals Inc.	Thermal Packaging Assembly	4,931,333	9/9/1988
NexKemia Petrochemicals Inc.	Expanded Polystyrene Cooler with Slide-Locking Lid	App No. 14991052	N/A

**5. PATENT APPLICATIONS AND REGISTRATIONS IN OTHER JURISDICTIONS**

Owner	Name	Registration No.	Registration Date/ Filing Date
TCP Reliable, Inc.	Rapid Cooling To and Maintaining of Whole Blood at 20 to 24c for Processing	12165031  (European application)	N/A