



01-07-2003

D \$

Form PTO-1593
(Rev. 10/02)
OMB No. 0651-0027 (exp. 6/30/2005)
Tab settings $\Rightarrow \Rightarrow \Rightarrow$



102329490

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): 12-30-02
The Bank of New York, as Collateral Agent,
successor-in-interest to Harris Trust
Company of New York, as Collateral Agent

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☒ Other Release of Security Interest in Patents

Execution Date: 12/16/02

2. Name and address of receiving party(ies)

Name: Sterling Canada, Inc.Internal Address: Suite 1900Street Address: 1200 Smith StreetCity: Houston State: TX Zip: 77002Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) _____

B. Patent No.(s) See attached Appendix AAdditional numbers attached? ☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John W. McCarverInternal Address: Suite 4200Street Address: 600 Travis StreetCity: Houston State: TX Zip: 770026. Total number of applications and patents involved: 337. Total fee (37 CFR 3.41).....\$ 1,320.00☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number:

DO NOT USE THIS SPACE

9. Signature.

John W. McCarver

Name of Person Signing

John W. McCarver
Signature12/27/02

Date

Total number of pages including cover sheet, attachments, and documents: 24

01/07/2003 LHMUELLER 00000054 4325934

01 FC:8021

1320.00 DP

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 013616 FRAME: 0734

ISSUED PATENTS

OWNER	COUNTRY	PATENT NO.	ISSUE DATE	INVENTOR(S)	TITLE
Sterling Canada, Inc.	United States	4325934	4/20/82	Swindells R Fredette MC	Chlorine dioxide process
Sterling Canada, Inc.	United States	4251503	4/12/81	Cowley G Swindells R	Control system for chlorine dioxide plants
Sterling Canada, Inc.	United States	4251224	2/17/81	Cowley G Swindells R	Control system for chlorine dioxide plants
Sterling Canada, Inc.	United States	4250159	2/10/81	Cowley G	Small scale chlorine dioxide plant
Sterling Canada, Inc.	United States	4336120	12/28/82	Cowley G	Small scale chlorine dioxide plant
Sterling Canada, Inc.	United States	4393035	7/12/83	Fredette MC	Method of producing hydrochloric and sulfuric acid from chlorine, sulfur dioxide and water
Sterling Canada, Inc.	United States	4393036	7/12/83	Fredette MC	Method of making mixed acid for R7 process
Sterling Canada, Inc.	United States	4729817	3/8/88	Reeve D Francis RC	Hydrogen peroxide delignification
Sterling Canada, Inc.	United States	4465658	8/14/84	Fredette MC	Chlorine dioxide process
Sterling Canada, Inc.	United States	4473540	9/25/84	Fredette MC	Chlorine dioxide process
Sterling Canada, Inc.	United States	4678655	7/7/87	Twardowski Z	Effluent acid recovery from Mathieson plants
Sterling Canada, Inc.	United States	4627969	12/9/86	Fredette MC Yang CS	Production of chlorine dioxide
Sterling Canada, Inc.	United States	4931268	6/5/90	Fredette MC Yang CS	Production of chlorine dioxide
Sterling Canada, Inc.	United States	4683039	7/28/87	Twardowski Z McGilvery JD	Preparation of chlorine dioxide
Sterling Canada, Inc.	United States	4780304	10/25/88	Bechberger EJ McGregor CR	Acid injection nozzle
Sterling Canada, Inc.	United States	5066477	11/19/91	Zell MS Fredette MC	Production of chlorine dioxide
Sterling Canada, Inc.	United States	4731169	3/15/88	Lipsztajn M	Selective removal of chlorine from solutions of chlorine dioxide and chlorine

PATENT

REEL: 010452 FRAME: 0884

PATENT

REEL: 013616 FRAME: 0735

ISSUED PATENTS

OWNER	COUNTRY	PATENT NO.	ISSUE DATE	INVENTOR(S)	TITLE
Sterling Canada, Inc.	United States	4853096	8/1/89	Lipsztajn M McGilvery JD Twardowski Z	Production of chlorine dioxide in an electrolytic cell
Sterling Canada, Inc.	United States	4767510	8/30/88	Lipsztajn M	Electrolytic production of chlorine dioxide
Sterling Canada, Inc.	United States	4802959	2/7/89	Lipsztajn M	Electrosynthesis of persulfate
Sterling Canada, Inc.	United States	4806215	2/21/89	Twardowski Z	Combined process for the production of chlorine dioxide and sodium hydroxide
Sterling Canada, Inc.	United States	5174868	12/29/92	Lipsztajn M Twardowski Z Fredette MC	Chlorine dioxide generation from chloric acid
Sterling Canada, Inc.	United States	5284553	2/8/94	Lipsztajn M Twardowski Z MC Bechberger EJ	Chlorine dioxide generation from chloric acid
Sterling Canada, Inc.	United States	5116595	5/26/92	Scribner HC Fredette MC Bechberger EJ	Metathesis of acidic by-product of chlorine dioxide generating apparatus
Sterling Canada, Inc.	United States	5593653	1/14/97	Scribner HC Fredette MC Bechberger EJ Pu C	Metathesis of acidic by-product of chlorine dioxide generating apparatus
Sterling Canada, Inc.	United States	5205995	4/27/93	Scribner HC Fredette MC Bechberger EJ	Metathesis of acidic by-product of chlorine dioxide generating apparatus

21164933

PATENT
REEL: 010452 FRAME: 0885

PATENT
REEL: 013616 FRAME: 0736

ISSUED PATENTS

OWNER	COUNTRY	PATENT NO.	ISSUE DATE	INVENTOR(S)	TITLE
Sterling Canada, Inc.	United States	5399332	3/21/95	Pu C	Dynamic leaching procedure for metathesis
Sterling Canada, Inc.	United States	5676920	10/14/97	Lipsztajn M	Low acidity chlorine dioxide generation process
Sterling Canada, Inc.	United States	5277768	1/11/94	Twardowski Z	Membrane cell washing
Sterling Canada, Inc.	United States	5256261	10/26/93	Lipsztajn M Rizzi J	Membrane cell operation
Sterling Canada, Inc.	United States	5851374	12/22/98	Cowley G Lipsztajn M	Process for Production of Chlorine Dioxide
Sterling Canada, Inc.	United States	5366714	11/22/94	Bigauskas TD	Hydrogen peroxide based chlorine dioxide process
Sterling Canada, Inc.	United States	4915927	4/10/90	Lipsztajn M Twardowski Z Cowley G	Electrosynthesis of chloric acid

24364813

PATENT
REEL: 010452 FRAME: 0886

PATENT
REEL: 013616 FRAME: 0737

RELEASE OF SECURITY INTEREST IN PATENTS

Reference is made to that certain Patent Security Agreement dated as of July 23, 1999 (the "Security Agreement"; capitalized terms used and not otherwise defined herein have the meanings specified in the Security Agreement), attached hereto as Exhibit A, by and among Sterling Chemicals, Inc., Sterling Canada, Inc., Sterling Pulp Chemicals US, Inc., Sterling Pulp Chemicals, Inc., Sterling Chemicals Energy, Inc., Sterling Chemicals International, Inc., and The Bank of New York, as Collateral Agent, successor-in-interest to Harris Trust Company of New York, as Collateral Agent (in such capacity, the "Collateral Agent").

In consideration of the full and final payment of the indebtedness secured thereby, the Collateral Agent hereby terminates the Security Agreement and releases its lien on and security interest in the Patent Collateral arising under the Security Agreement. The Agent hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States to record this release of the security interest in the Patent Collateral and each part thereof.

Dated effective as of the 16th day of December, 2002.

THE BANK OF NEW YORK, as Collateral Agent,
successor-in-interest to Harris Trust Company of
New York, as Collateral Agent

By: [Signature]
Name: Loretta A. Lundberg
Title: Vice President

THE STATE OF New York
COUNTY OF New York

The foregoing instrument was acknowledged before me on December 16, 2002, by
Loretta A. Lundberg, Vice President of THE
BANK OF NEW YORK.

[Signature]
Notary Public in and for the Aforesaid State
My Commission expires: 4/25/06

IRENE SIEGEL
Notary Public, State of New York
No. 24-4927894
Qualified in Kings County
~~Certificate Filed in New York County~~ 2006
Commission Expires April 25, 2006

EXHIBIT A TO SECURITY AGREEMENT

STERLING CHEMICALS, INC.; STERLING CANADA, INC.; STERLING PULP CHEMICALS, INC.;
STERLING PULP CHEMICALS, US, INC.; PATENT SECURITY AGREEMENT
STERLING CHEMICALS ENERGY, INC.; and STERLING CHEMICALS
INTERNATIONAL, INC.

This PATENT SECURITY AGREEMENT (this "Agreement"), dated as of July 23
1999, is made between (individually and collectively, the "Assignor")
and HARRIS TRUST COMPANY OF NEW YORK, as Collateral Agent (together with any
successor(s) thereto in such capacity, the "Collateral Agent") for each of the Collateral Agent
and the Holders of the Senior Secured Notes.

WITNESSETH:

WHEREAS, Sterling Chemicals, Inc., Sterling Canada, Inc., Sterling Pulp Chemicals,
Inc., Sterling Pulp Chemicals, US, Inc., Sterling Fibers, Inc., Sterling Chemicals Energy, Inc.,
and Sterling Chemicals International, Inc., and the Collateral Agent, as trustee, have entered into
that certain indenture dated as of July 23, 1999 (as amended, amended and restated,
supplemented or otherwise modified from time to time, the "Indenture"), pursuant to which
Sterling Chemicals, Inc. issued \$295 million in the aggregate principal amount of 12³/₄% Senior
Secured Notes due 2006 (together with any notes issued in replacement thereof or in exchange or
substitution therefor, the "Senior Secured Notes"); and

WHEREAS, the terms of the Indenture require that the Assignor (i) pledge to the
Collateral Agent for the ratable benefit of the Holders (as defined in the Indenture) of the Senior
Secured Notes, and grant to the Collateral Agent for the ratable benefit of the Holders of the
Senior Secured Notes a second priority security interest in the Collateral (as defined herein) and
(ii) execute and deliver this Agreement in order to secure the payment and performance by the
Assignor of all of its obligations under the Indenture and the Senior Secured Notes (the
"Obligations");

NOW, THEREFORE, in consideration of the premises, the Assignor hereby agrees with
the Collateral Agent for its benefit and the ratable benefit of the Holders of the Senior Secured
Notes as follows:

SECTION 1. Definitions. Unless otherwise defined herein or the context otherwise
requires, terms used in this Agreement, including its preamble and recitals, have the meanings
provided (or incorporated by reference) in the Security Agreement dated July 23, 1999 by and
among Sterling Chemicals, Inc., Sterling Canada, Inc., Sterling Pulp Chemicals, Inc., Sterling
Pulp Chemicals, US, Inc., Sterling Fibers, Inc., Sterling Chemicals Energy, Inc., Sterling
Chemicals International, Inc. and Harris Trust Company of New York as indenture trustee and
collateral agent for the benefit of the Holders of the Senior Secured Notes.

SECTION 2. Grant of Security Interest. For good and valuable consideration, the
receipt and sufficiency of which are hereby acknowledged, to secure all of the Obligations, the
Assignor does hereby pledge and hypothecate to the Collateral Agent, and grant to the Collateral
Agent a security interest in, for its benefit and the benefit of each Holder, all of the following
property (the "Patent Collateral"), whether now owned or hereafter acquired or existing by it:

Exhibit A

-1-

NY_DOCS369857.7 [W97]

07/23/99 04:34

PATENT
REEL: 010452 FRAME: 0887

PATENT
REEL: 013616 FRAME: 0739

ISSUED PATENTS

OWNER	COUNTRY	PATENT NO.	ISSUE DATE	INVENTOR(S)	TITLE
Sterling Chemicals International, Inc.	United States	4,421,707	12/20/83	Kourtz & Daflary	Acrylic Wet Spinning Process
Sterling Chemicals International, Inc.	United States	4,459,332	7/10/84	Giglia	Flocked Fabric Laminate for Protection Against Chemical Agents
Sterling Chemicals International, Inc.	United States	4,495,030	1/22/85	Giglia	Filter Paper
Sterling Chemicals International, Inc.	United States	4,565,727	1/21/86	Giglia & Battistelli	Non-woven Activated Carbon Fabric
Sterling Chemicals International, Inc.	United States	4,597,843	7/1/86	Goupil & Musolino	Enhanced Bulk Porosity of Polymer Structures Via Plasma Technology
Sterling Chemicals International, Inc.	United States	4,866,107	9/12/89	Doxsee, Evans, O'Toole	Acrylic Containing Friction Materials
Sterling Chemicals International, Inc.	United States	4,904,343	2/27/90	Giglia & Battistelli	Non-woven Activated Carbon Fabric
Sterling Chemicals International, Inc.	United States	4,929,502	5/29/90	Giglia	Fibrillated Fibers and Articles Made Therefrom
Sterling Chemicals International, Inc.	United States	5,155,174	10/13/92	Chang, Anderson & Ley	Surface-Modified Polyacrylonitrile Fibrous Substrates
Sterling Chemicals International, Inc.	United States	5,180,630	1/19/93	Giglia	Fibrillated Fibers and Articles Made Therefrom

2436813

1 of 6

PATENT
REEL: 010452 FRAME: 0891

PATENT
REEL: 013616 FRAME: 0740

ISSUED PATENTS

OWNER	COUNTRY	PATENT NO.	ISSUE DATE	INVENTOR(S)	TITLE
Sterling Chemicals International, Inc.	United States	5,192,604	3/9/93	Giglia	Fibrillated Fibers and Articles Made Therefrom
Sterling Chemicals International, Inc.	United States	5,270,384	12/14/93	Chang, Anderson & Ley	Surface-Modified Polyacrylonitrile Fibrous Substrates
Sterling Chemicals International, Inc.	United States	5,272,198	12/21/93	Kaminski & Evans	Asbestos-Free Microdenier Acrylic Fiber Reinforced Material for Gaskets and the Like
Sterling Chemicals International, Inc.	United States	5,284,910	2/8/94	Chang, Anderson & Ley	Surface-Modified Polyacrylonitrile Fibrous Substrates
Sterling Chemicals International, Inc.	United States	5,306,782	4/26/94	Chang, Anderson & Ley	Surface-Modified Polyacrylonitrile Fibrous Substrates
Sterling Chemicals International, Inc.	United States	5,362,562	11/8/94	Evans, Maranci & Kaminski	Crimped Acrylic Fibers Having Improved Thixotropic Performance
Sterling Chemicals International, Inc.	United States	5,372,632	12/13/94	Avotins & Evans	Process for Producing Fiber Bonded Agglomerated Ore Materials
Sterling Chemicals International, Inc.	United States	5,385,978	1/31/95	Evans, Maranci & Kaminski	Crimped Acrylic Fibers Having Improved Thixotropic Performance
Sterling Chemicals International, Inc.	United States	5,464,465	11/7/95	Avotins & Evans	Fiber Bonded Agglomerated Ore Materials

2065833

2 of 6

PATENT
REEL: 010452 FRAME: 0892

PATENT
REEL: 013616 FRAME: 0741

ISSUED PATENTS

OWNER	COUNTRY	PATENT NO.	ISSUE DATE	INVENTOR(S)	TITLE
Sterling Chemicals International, Inc.	United States	5,472,995	12/5/95	Kaminski & Evans	Asbestos-Free Gaskets and the Like Containing Blends of Organic Fibrous and Particulate Components
Sterling Chemicals International, Inc.	United States	5,520,866	5/28/96	Kaminski & Evans	Process for the Preparation of Friction Materials Containing Blends of Organic Fibrous and Particulate Components
Sterling Chemicals International, Inc.	United States	5,889,080	3/30/99	Kaminski & Evans	Friction Materials Containing Blends of Organic Fibrous and Particulate Components
Sterling Chemicals International, Inc.	United States	5,889,082	3/30/99	Kaminski & Evans	Method for Manufacturing Friction Materials Containing Blends of Organic Fibrous and Particulate Components
Sterling Canada, Inc.	United States	4325934	4/20/82	Swindells R Fredette MC	Chlorine dioxide process
Sterling Canada, Inc.	United States	4251503	4/12/81	Cowley G Swindells R	Control system for chlorine dioxide plants
Sterling Canada, Inc.	United States	4251224	2/17/81	Cowley G Swindells R	Control system for chlorine dioxide plants
Sterling Canada, Inc.	United States	4250159	2/10/81	Cowley G	Small scale chlorine dioxide plant
Sterling Canada, Inc.	United States	4336120	12/28/82	Cowley G	Small scale chlorine dioxide plant

24165033

3 of 6

PATENT

1 REEL: 010452 FRAME: 0893

PATENT

REEL: 013616 FRAME: 0742

ISSUED PATENTS

OWNER	COUNTRY	PATENT NO.	ISSUE DATE	INVENTOR(S)	TITLE
Sterling Canada, Inc.	United States	4393035	7/12/83	Fredette MC	Method of producing hydrochloric and sulfuric acid from chlorine, sulfur dioxide and water
Sterling Canada, Inc.	United States	4393036	7/12/83	Fredette MC	Method of making mixed acid for R7 process
Sterling Canada, Inc.	United States	4729817	3/8/88	Reeve D Francis RC	Hydrogen peroxide delignification
Sterling Canada, Inc.	United States	4465658	8/14/84	Fredette MC	Chlorine dioxide process
Sterling Canada, Inc.	United States	4473540	9/25/84	Fredette MC	Chlorine dioxide process
Sterling Canada, Inc.	United States	4678655	7/7/87	Twardowski Z	Effluent acid recovery from Mathieson plants
Sterling Canada, Inc.	United States	4627969	12/9/86	Fredette MC Yang CS	Production of chlorine dioxide
Sterling Canada, Inc.	United States	4931268	6/5/90	Fredette MC Yang CS	Production of chlorine dioxide
Sterling Canada, Inc.	United States	4683039	7/28/87	Twardowski Z McGilvery JD	Prevaporation of chlorine dioxide
Sterling Canada, Inc.	United States	4780304	10/25/88	Bechberger EJ McGregor CR	Acid injection nozzle
Sterling Canada, Inc.	United States	5066477	11/19/91	Zell MS Fredette MC	Production of chlorine dioxide
Sterling Canada, Inc.	United States	4731169	3/15/88	Lipsztajn M	Selective removal of chlorine from solutions of chlorine dioxide and chlorine

2065833

4 of 6

PATENT

REEL: 010452 FRAME: 0894

PATENT

REEL: 013616 FRAME: 0743

ISSUED PATENTS

OWNER	COUNTRY	PATENT NO.	ISSUE DATE	INVENTOR(S)	TITLE
Sterling Canada, Inc.	United States	4853096	8/1/89	Lipsztajn M McGilvery JD Twardowski Z	Production of chlorine dioxide in an electrolytic cell
Sterling Canada, Inc.	United States	4767510	8/30/88	Lipsztajn M	Electrolytic production of chlorine dioxide
Sterling Canada, Inc.	United States	4802959	2/7/89	Lipsztajn M	Electrosynthesis of persulfate
Sterling Canada, Inc.	United States	4806215	2/21/89	Twardowski Z	Combined process for the production of chlorine dioxide and sodium hydroxide
Sterling Canada, Inc.	United States	5174868	12/29/92	Lipsztajn M Twardowski Z Fredette MC	Chlorine dioxide generation from chloric acid
Sterling Canada, Inc.	United States	5284553	2/8/94	Lipsztajn M Twardowski Z Fredette MC Bechberger EJ	Chlorine dioxide generation from chloric acid
Sterling Canada, Inc.	United States	5116595	5/26/92	Scribner HC Fredette MC Bechberger EJ	Metathesis of acidic by-product of chlorine dioxide generating apparatus
Sterling Canada, Inc.	United States	5593653	1/14/97	Scribner HC Fredette MC Bechberger EJ Pu C	Metathesis of acidic by-product of chlorine dioxide generating apparatus
Sterling Canada, Inc.	United States	5205995	4/27/93	Scribner HC Fredette MC Bechberger EJ	Metathesis of acidic by-product of chlorine dioxide generating apparatus

21364931

5 of 6

PATENT

REEL: 010452 FRAME: 0895

PATENT

REEL: 013616 FRAME: 0744

SCHEDULE I
to Patent Security Agreement

NY_DOCS0369857.8 [W97]

PATENT
REEL: 010452 FRAME: 0883

PATENT
REEL: 013616 FRAME: 0745

ISSUED PATENTS

OWNER	COUNTRY	PATENT NO.	ISSUE DATE	INVENTOR(S)	TITLE
Sterling Canada, Inc.	United States	5399332	3/21/95	Pu C	Dynamic leaching procedure for metathesis
Sterling Canada, Inc.	United States	5676920	10/14/97	Lipsztajn M	Low acidity chlorine dioxide generation process
Sterling Canada, Inc.	United States	527768	1/11/94	Twardowski Z	Membrane cell washing
Sterling Canada, Inc.	United States	5256261	10/26/93	Lipsztajn M Rizzi J	Membrane cell operation
Sterling Canada, Inc.	United States	5851374	12/22/98	Cowley G Lipsztajn M	Process for Production of Chlorine Dioxide
Sterling Canada, Inc.	United States	5366714	11/22/94	Bigauskas TD	Hydrogen peroxide based chlorine dioxide process
Sterling Canada, Inc.	United States	4915927	4/10/90	Lipsztajn M Twardowski Z Cowley G	Electrosynthesis of chloric acid

6 of 6

PATENT

REEL: 010452 FRAME: 0896

PATENT

REEL: 013616 FRAME: 0746

RECORDED: 12/30/2002