

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Dawid Dewit-Smith</td> <td>08/26/2013</td> </tr> <tr> <td>D. Wayne Leidy</td> <td>08/23/2013</td> </tr> <tr> <td>Carl L Fayerweather</td> <td>08/22/2013</td> </tr> <tr> <td>Terrence J Clark</td> <td>08/22/2013</td> </tr> <tr> <td>Daniel R Swiler</td> <td>08/22/2013</td> </tr> </tbody> </table>		Name	Execution Date	Dawid Dewit-Smith	08/26/2013	D. Wayne Leidy	08/23/2013	Carl L Fayerweather	08/22/2013	Terrence J Clark	08/22/2013	Daniel R Swiler	08/22/2013
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Owens-Brockway Glass Container Inc.</td> </tr> <tr> <td>Street Address:</td> <td>One Michael Owens Way</td> </tr> <tr> <td>City:</td> <td>Perrysburg</td> </tr> <tr> <td>State/Country:</td> <td>OHIO</td> </tr> <tr> <td>Postal Code:</td> <td>43551</td> </tr> </table>		Name:	Owens-Brockway Glass Container Inc.	Street Address:	One Michael Owens Way	City:	Perrysburg	State/Country:	OHIO	Postal Code:	43551		
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CORRESPONDENCE DATA													
<p>Fax Number:</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 567-336-8550</p> <p>Email: amy.bell@o-i.com</p> <p>Correspondent Name: Susan L. Smith</p> <p>Address Line 1: One Michael Owens Way</p> <p>Address Line 4: Perrysburg, OHIO 43551</p>													
ATTORNEY DOCKET NUMBER:	19143												
NAME OF SUBMITTER:	Susan L. Smith												
Signature:	/susanlsmith/												

CH \$40.00 13832829

Date:	08/26/2013
Total Attachments: 5 source=19143Assignment#page1.tif source=19143Assignment#page2.tif source=19143Assignment#page3.tif source=19143Assignment#page4.tif source=19143Assignment#page5.tif	

ASSIGNMENT

WHEREAS, I, David Dewet-Smith of 131 Slow Mill Drive, Goose Creek, South Carolina 29445, hereinafter referred to as ASSIGNOR, together with D. Wayne Laidy, Carl L. Feyerweather, Daniel R. Swiler and Terence J. Clark, have invented certain improvements in an invention entitled "APPARATUS FOR MELTING AND REFINING SILICA-BASED GLASS", for which an application for a United States Patent was filed in the United States Patent & Trademark Office (USPTO) on March 16, 2013 and thereafter received a USPTO Serial Number of 13/632,829;

AND WHEREAS, Owens-Brockway Glass Container Inc., hereinafter referred to as ASSIGNEE, a corporation organized and existing under the laws of the state of Delaware and having a place of business located at One Michael Owens Way, Perrysburg, Ohio 43561-2900, U.S.A., is desirous of acquiring the entire right, title and interest in and to said invention as described in said application including all patentable subject matter disclosed in said application.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as ASSIGNOR, do hereby sell, assign, transfer and convey unto ASSIGNEE, my entire right, title and interest, including all priority rights in the United States of America and all countries foreign thereto and under any or all international Conventions associated with each of said foreign countries, in and to: (A) said invention as described in said application, (B) said application and any continuation or continuation-in-part application(s) of said application including all patentable subject matter disclosed therein, (C) any United States Patent(s) including any reissue, re-examination, extension or renewal of said United States Patent(s) that may be granted in pursuance of said application(s), (D) any foreign patent application(s) that may be filed on said invention, or based on said application(s), in organizations or countries foreign to the United States of America, and (E) any foreign patent(s) granted on said foreign patent application(s).

I, as ASSIGNOR, hereby agree, without any additional consideration, to cooperate with and to assist ASSIGNEE in the filing and prosecution of said application(s) and to perform any other acts as ASSIGNEE or its successors, assigns, designees or legal representatives may deem necessary to secure to ASSIGNEE the rights and interest herein assigned and to acquire, hold, enforce, convey and uphold validity of any of said patent(s), and upon request, to execute all papers including those required for said applications(s) or said patents(s). I, as ASSIGNOR, hereby represent and warrant that I have not granted any right, title or interest that would be inconsistent with the right, title and interest granted herein.

I, as ASSIGNOR, hereby authorize ASSIGNEE and its legal representatives to apply for foreign patents based on said invention or on said application(s), in ASSIGNEE'S own name or through its successors, assigns, designees, legal representatives, subsidiaries or related companies, under an International Convention or otherwise, and to enter into the appropriate spaces above in this ASSIGNMENT document, the filing date and USPTO Serial Number of said application for United States Patent, when known.

I, as ASSIGNOR, hereby authorize and request the Commissioner of Patents of the USPTO to issue any of said United States Patents to ASSIGNEE of the entire right, title and interest in and to any of said applications or United States Patents for the sole use and behoof of ASSIGNEE to the full ends of the respective terms for which said patent is granted.

I, as ASSIGNOR, hereby authorize and request the Commissioner of Patents (or the equivalent) in any organizations or countries foreign to the United States of America to issue any said foreign patent(s) to ASSIGNEE of the entire right, title and interest in and to any of said foreign patent application(s) or foreign patent(s) for the sole use and behoof of ASSIGNEE to the full ends of the respective terms for which said patent is granted.

This ASSIGNMENT is governed by and is to be construed in accordance with the laws of the State of Ohio, U.S.A. No representations, warranties, collateral assignments or conditions affecting this ASSIGNMENT are valid other than those expressed in this ASSIGNMENT. ASSIGNOR agrees that the provisions of this ASSIGNMENT are fully binding on ASSIGNOR and that ASSIGNOR'S respective heirs, executors, assigns and administrators have no right, title or interest in any of said applications, inventions or patents whatsoever.

IN WITNESS WHEREOF, the undersigned ASSIGNOR has caused his name to be subscribed hereto this 26th day of August, 2013.

ASSIGNOR SIGNATURE: David Dewet-Smith

ASSIGNOR NAME: David Dewet-Smith

STATE OF South Carolina
COUNTY OF Berkeley

On this 26th day of August, 2013, before me, the undersigned Notary Public in and for Berkeley County, State of South Carolina, U.S.A., personally appeared David Dewet-Smith who is known to me to be the same person whose name is subscribed above to this instrument, and who acknowledged that he has signed, sealed and delivered this instrument as his free and voluntary act for the purposes herein set forth.

Haley Roderhouse
Notary Public
County, State of
Berkeley County
South Carolina

ASSIGNMENT

WHEREAS, I, D. Wayne Leidy of 268 Delmar Street, Philadelphia, Pennsylvania 19128, hereinafter referred to as ASSIGNOR, together with Dawid Dewet-Smith, Carl L. Faywerweather, Daniel R. Swiler and Terence J. Clark, have invented certain improvements in an invention entitled "APPARATUS FOR MELTING AND REFINING SILICA-BASED GLASS", for which an application for a United States Patent was filed in the United States Patent & Trademark Office (USPTO) on March 15, 2013 and thereafter received a USPTO Serial Number of 13/832,829;

AND WHEREAS, Owens-Brockway Glass Container Inc., hereinafter referred to as ASSIGNEE, a corporation organized and existing under the laws of the state of Delaware and having a place of business located at One Michael Owens Way, Perrysburg, Ohio 43551-2999, U.S.A., is desirous of acquiring the entire right, title and interest in and to said invention as described in said application including all patentable subject matter disclosed in said application.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as ASSIGNOR, do hereby sell, assign, transfer and convey unto ASSIGNEE, my entire right, title and interest, including all priority rights in the United States of America and all countries foreign thereto and under any or all International Conventions associated with each of said foreign countries, in and to: (A) said invention as described in said application, (B) said application and any continuation or continuation-in-part application(s) of said application including all patentable subject matter disclosed therein, (C) any United States Patent(s) including any reissue, re-examination, extension or renewal of said United States Patent(s) that may be granted in pursuance of said application(s), (D) any foreign patent application(s) that may be filed on said invention, or based on said application(s), in organizations or countries foreign to the United States of America, and (E) any foreign patent(s) granted on said foreign patent application(s).

I, as ASSIGNOR, hereby agree, without any additional consideration, to cooperate with and to assist ASSIGNEE in the filing and prosecution of said application(s) and to perform any other acts as ASSIGNEE or its successors, assigns, designees or legal representatives may deem necessary to secure to ASSIGNEE the rights and interest herein assigned and to acquire, hold, enforce, convey and uphold validity of any of said patent(s), and upon request, to execute all papers including those required for said applications(s) or said patents(s). I, as ASSIGNOR, hereby represent and warrant that I have not granted any right, title or interest that would be inconsistent with the right, title and interest granted herein.

I, as ASSIGNOR, hereby authorize ASSIGNEE and its legal representatives to apply for foreign patents based on said invention or on said application(s), in ASSIGNEE'S own name or through its successors, assigns, designees, legal representatives, subsidiaries or related companies, under an International Convention or otherwise, and to enter into the appropriate spaces above in this ASSIGNMENT document, the filing date and USPTO Serial Number of said application for United States Patent, when known.

I, as ASSIGNOR, hereby authorize and request the Commissioner of Patents of the USPTO to issue any of said United States Patents to ASSIGNEE of the entire right, title and interest in and to any of said applications or United States Patents for the sole use and behoof of ASSIGNEE to the full ends of the respective terms for which said patent is granted.

I, as ASSIGNOR, hereby authorize and request the Commissioner of Patents (or the equivalent) in any organizations or countries foreign to the United States of America to issue any said foreign patent(s) to ASSIGNEE of the entire right, title and interest in and to any of said foreign patent application(s) or foreign patent(s) for the sole use and behoof of ASSIGNEE to the full ends of the respective terms for which said patent is granted.

This ASSIGNMENT is governed by and is to be construed in accordance with the laws of the State of Ohio, U.S.A. No representations, warranties, collateral assignments or conditions affecting this ASSIGNMENT are valid other than those expressed in this ASSIGNMENT. ASSIGNOR agrees that the provisions of this ASSIGNMENT are fully binding on ASSIGNOR and that ASSIGNOR'S respective heirs, executors, assigns and administrators have no right, title or interest in any of said applications, inventions or patents whatsoever.

IN WITNESS WHEREOF, the undersigned ASSIGNOR has caused his name to be subscribed hereto this 23 day of August, 2013.

ASSIGNOR SIGNATURE

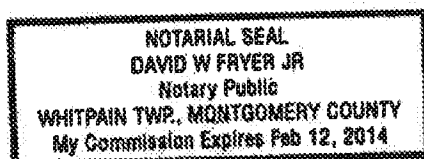
ASSIGNOR NAME:

D. Wayne Leidy

STATE OF)
COUNTY OF)

On this 23 day of August, 2013, before me, the undersigned Notary Public in and for Montgomery County, State of Pennsylvania, U.S.A., personally appeared D. Wayne Leidy who is known to me to be the same person whose name is subscribed above to this instrument, and who acknowledged that he has signed, sealed and delivered this instrument as his free and voluntary act for the purposes herein set forth.

David W. Fryer Jr.
Notary Public, _____
County, State of _____



ASSIGNMENT

WHEREAS, I, **Carl L. Fayerweather** of **6408 Char Court, Maumee, Ohio 43537**, hereinafter referred to as ASSIGNOR, together with **Dawid Dewet-Smith, D. Wayne Leidy, Daniel R. Swiler and Terence J. Clark**, have invented certain improvements in an invention entitled "**APPARATUS FOR MELTING AND REFINING SILICA-BASED GLASS**", for which an application for a United States Patent was filed in the United States Patent & Trademark Office (USPTO) on March 15, 2013 and thereafter received a USPTO Serial Number of **13/832,829**;

AND WHEREAS, **Owens-Brockway Glass Container Inc.**, hereinafter referred to as ASSIGNEE, a corporation organized and existing under the laws of the state of Delaware and having a place of business located at **One Michael Owens Way, Perrysburg, Ohio 43551-2999, U.S.A.**, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application including all patentable subject matter disclosed in said application.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as ASSIGNOR, do hereby sell, assign, transfer and convey unto ASSIGNEE, my entire right, title and interest, including all priority rights in the United States of America and all countries foreign thereto and under any or all International Conventions associated with each of said foreign countries, in and to: (A) said invention as described in said application, (B) said application and any continuation or continuation-in-part application(s) of said application including all patentable subject matter disclosed therein, (C) any United States Patent(s) including any reissue, re-examination, extension or renewal of said United States Patent(s) that may be granted in pursuance of said application(s), (D) any foreign patent application(s) that may be filed on said invention, or based on said application(s), in organizations or countries foreign to the United States of America, and (E) any foreign patent(s) granted on said foreign patent application(s).

I, as ASSIGNOR, hereby agree, without any additional consideration, to cooperate with and to assist ASSIGNEE in the filing and prosecution of said application(s) and to perform any other acts as ASSIGNEE or its successors, assigns, designees or legal representatives may deem necessary to secure to ASSIGNEE the rights and interest herein assigned and to acquire, hold, enforce, convey and uphold validity of any of said patent(s), and upon request, to execute all papers including those required for said applications(s) or said patents(s). I, as ASSIGNOR, hereby represent and warrant that I have not granted any right, title or interest that would be inconsistent with the right, title and interest granted herein.

I, as ASSIGNOR, hereby authorize ASSIGNEE and its legal representatives to apply for foreign patents based on said invention or on said application(s), in ASSIGNEE'S own name or through its successors, assigns, designees, legal representatives, subsidiaries or related companies, under an International Convention or otherwise, and to enter into the appropriate spaces above in this ASSIGNMENT document, the filing date and USPTO Serial Number of said application for United States Patent, when known.

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IN WITNESS WHEREOF, the undersigned ASSIGNOR has caused his name to be subscribed hereto this 22 day of August, 2013.

ASSIGNOR SIGNATURE: Carl L. Fayerweather

ASSIGNOR NAME: Carl L. Fayerweather

STATE OF OHIO)
COUNTY OF WOOD)

On this 22 day of August, 2013, before me, the undersigned Notary Public in and for Wood County, State of Ohio, U.S.A., personally appeared Carl L. Fayerweather who is known to me to be the same person whose name is subscribed above to this instrument, and who acknowledged that he has signed, sealed and delivered this instrument as his free and voluntary act for the purposes herein set forth.

Robin Radde
Notary Public, Wood County, State of Ohio
Robin Radde



ROBIN RADDE
NOTARY PUBLIC

STATE OF OHIO

My Comm. Expires April 1, 2018

PATENT

REEL: 031083 FRAME: 0190

ASSIGNMENT

WHEREAS, I, Terence J. Clark of 3655 N. Sunset Way, Sanford, Michigan 48657, hereinafter referred to as ASSIGNOR, together with Dawid Dewet-Smith, D. Wayne Leidy, Carl L. Fayerweather, and Daniel R. Swiler, have invented certain improvements in an invention entitled "APPARATUS FOR MELTING AND REFINING SILICA-BASED GLASS", for which an application for a United States Patent was filed in the United States Patent & Trademark Office (USPTO) on March 15, 2013 and thereafter received a USPTO Serial Number of 13/832,829;

AND WHEREAS, Owens-Brockway Glass Container Inc., hereinafter referred to as ASSIGNEE, a corporation organized and existing under the laws of the state of Delaware and having a place of business located at One Michael Owens Way, Perrysburg, Ohio 43551-2999, U.S.A., is desirous of acquiring the entire right, title and interest in and to said invention as described in said application including all patentable subject matter disclosed in said application.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as ASSIGNOR, do hereby sell, assign, transfer and convey unto ASSIGNEE, my entire right, title and interest, including all priority rights in the United States of America and all countries foreign thereto and under any or all International Conventions associated with each of said foreign countries, in and to: (A) said invention as described in said application, (B) said application and any continuation or continuation-in-part application(s) of said application including all patentable subject matter disclosed therein, (C) any United States Patent(s) including any reissue, re-examination, extension or renewal of said United States Patent(s) that may be granted in pursuance of said application(s), (D) any foreign patent application(s) that may be filed on said invention, or based on said application(s), in organizations or countries foreign to the United States of America, and (E) any foreign patent(s) granted on said foreign patent application(s).

I, as ASSIGNOR, hereby agree, without any additional consideration, to cooperate with and to assist ASSIGNEE in the filing and prosecution of said application(s) and to perform any other acts as ASSIGNEE or its successors, assigns, designees or legal representatives may deem necessary to secure to ASSIGNEE the rights and interest herein assigned and to acquire, hold, enforce, convey and uphold validity of any of said patent(s), and upon request, to execute all papers including those required for said applications(s) or said patents(s). I, as ASSIGNOR, hereby represent and warrant that I have not granted any right, title or interest that would be inconsistent with the right, title and interest granted herein.

I, as ASSIGNOR, hereby authorize ASSIGNEE and its legal representatives to apply for foreign patents based on said invention or on said application(s), in ASSIGNEE'S own name or through its successors, assigns, designees, legal representatives, subsidiaries or related companies, under an International Convention or otherwise, and to enter into the appropriate spaces above in this ASSIGNMENT document, the filing date and USPTO Serial Number of said application for United States Patent, when known.

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IN WITNESS WHEREOF, the undersigned ASSIGNOR has caused his name to be subscribed hereto this 22nd day of August, 2013.

ASSIGNOR SIGNATURE: Terence J. Clark

ASSIGNOR NAME: Terence J. Clark

STATE OF OHIO)
COUNTY OF WOOD)

On this 22nd day of August, 2013, before me, the undersigned Notary Public in and for Wood County, State of Ohio, U.S.A., personally appeared Terence J. Clark, who is known to me to be the same person whose name is subscribed above to this instrument, and who acknowledged that he has signed, sealed and delivered this instrument as his free and voluntary act for the purposes herein set forth.

[Signature]
Notary Public, Wood County, State of Ohio

AMY M. BELL

Notary Public, State of Ohio

My Commission Expires May 12, 2015

PATENT

REEL: 031083 FRAME: 0191

ASSIGNMENT

WHEREAS, I, **Daniel R. Swiler** of **6684 Mill Ridge Road, Maumee, Ohio 43537**, hereinafter referred to as ASSIGNOR, together with **Dawid Dewet-Smith, D. Wayne Leidy, Carl L. Fayerweather and Terence J. Clark**, have invented certain improvements in an invention entitled "**APPARATUS FOR MELTING AND REFINING SILICA-BASED GLASS**", for which an application for a United States Patent was filed in the United States Patent & Trademark Office (USPTO) on March 15, 2013 and thereafter received a USPTO Serial Number of 13/832,829;

AND WHEREAS, **Owens-Brockway Glass Container Inc.**, hereinafter referred to as ASSIGNEE, a corporation organized and existing under the laws of the state of Delaware and having a place of business located at One Michael Owens Way, Perrysburg, Ohio 43551-2999, U.S.A., is desirous of acquiring the entire right, title and interest in and to said invention as described in said application including all patentable subject matter disclosed in said application.

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I, as ASSIGNOR, hereby agree, without any additional consideration, to cooperate with and to assist ASSIGNEE in the filing and prosecution of said application(s) and to perform any other acts as ASSIGNEE or its successors, assigns, designees or legal representatives may deem necessary to secure to ASSIGNEE the rights and interest herein assigned and to acquire, hold, enforce, convey and uphold validity of any of said patent(s), and upon request, to execute all papers including those required for said applications(s) or said patents(s). I, as ASSIGNOR, hereby represent and warrant that I have not granted any right, title or interest that would be inconsistent with the right, title and interest granted herein.

I, as ASSIGNOR, hereby authorize ASSIGNEE and its legal representatives to apply for foreign patents based on said invention or on said application(s), in ASSIGNEE'S own name or through its successors, assigns, designees, legal representatives, subsidiaries or related companies, under an International Convention or otherwise, and to enter into the appropriate spaces above in this ASSIGNMENT document, the filing date and USPTO Serial Number of said application for United States Patent, when known.

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IN WITNESS WHEREOF, the undersigned ASSIGNOR has caused his name to be subscribed hereto this 22 day of August, 2013.

ASSIGNOR SIGNATURE: Daniel R. Swiler

ASSIGNOR NAME: Daniel R. Swiler

STATE OF OHIO)
COUNTY OF WOOD)

On this 22 day of August, 2013, before me, the undersigned Notary Public in and for Wood County, State of Ohio, U.S.A., personally appeared Daniel R. Swiler who is known to me to be the same person whose name is subscribed above to this instrument, and who acknowledged that he has signed, sealed and delivered this instrument as his free and voluntary act for the purposes herein set forth.

Robin Radde
Notary Public, Wood County, State of Ohio
Robin Radde



ROBIN RADDE
NOTARY PUBLIC

STATE OF OHIO

My Comm. Expires April 1, 2018 **PATENT**