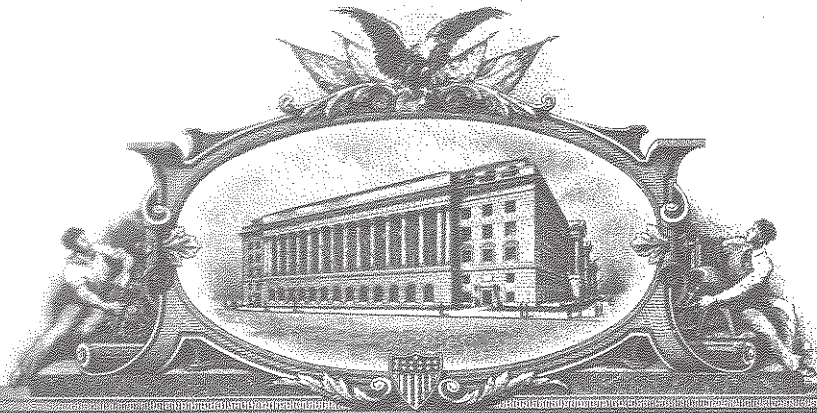




THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

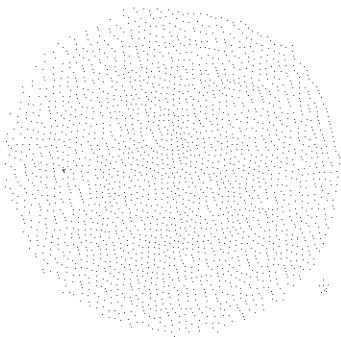
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

August 09, 2017

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
RECORDS OF THIS OFFICE OF A DOCUMENT RECORDED ON
JUNE 01, 2015.

By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office

M. TARVER
Certifying Officer



PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Worksheet Version v1.2

EPAS ID: PAT3375611

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TILAK GULLINKALA	04/20/2015
SCOTT WEIL	04/16/2015
SCOTT P COOPER	04/16/2015
SUTAPA BHADURI	04/16/2015
MICHAEL P REMINGTON	05/26/2015

RECEIVING PARTY DATA

Name:	OWENS-BROCKWAY GLASS CONTAINER INC.
Street Address:	ONE MICHAEL OWENS WAY
City:	PERRYSBURG
State/Country:	OHIO
Postal Code:	43551

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14676372

CORRESPONDENCE DATA

Fax Number:

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: 567-336-8699

Email: amy.bell@o-i.com

Correspondent Name: OWENS-ILLINOIS, INC.

Address Line 1: ONE MICHAEL OWENS WAY, THREE O-I PLAZA

Address Line 4: PERRYSBURG, OHIO 43551-2999

NAME OF SUBMITTER: SUSAN L. SMITH

SIGNATURE: /susanlsmith/

DATE SIGNED: 06/01/2015

Attachments: 5

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PATENT
REEL: 035751 FRAME: 0607

ASSIGNMENT

WHEREAS, I, **Tilak Gullinkala** of **13319 Roachton Road, Apt. 7, Perrysburg, Ohio 43551, US** hereinafter referred to as **ASSIGNOR**, together with **Scott P. Cooper, Scott Weil, Sutapa Bhaduri** and **Michael P. Remington** have invented certain improvements in an invention entitled "**Glass Precursor Gel**" for which an application for a United States Patent was filed in the United States Patent & Trademark Office (USPTO) on April 1, 2015 and thereafter received a USPTO Serial Number **14/676,372**.

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.

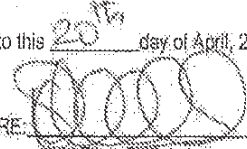
I, as **ASSIGNOR**, hereby authorize **ASSIGNEE** and its legal representatives to apply for foreign patents based on said invention or on said application(s), in **ASSIGNEE'S** own name or through its successors, assigns, designees, legal representatives, subsidiaries or related companies, under an 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 agreements 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 20th day of April, 2015.

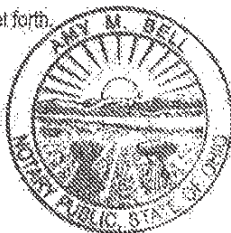
ASSIGNOR SIGNATURE: 

ASSIGNOR NAME: Tilak Gullinkala

STATE OF OHIO)
COUNTY OF WOOD)

On this 20th day of April 2015, before me, the undersigned Notary Public in and for WOOD County, State of OHIO, U.S.A., personally appeared **Tilak Gullinkala** 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.

Notary Public



AMY M. BELL

**NOTARY PUBLIC
STATE OF OHIO**

My Commission Expires
May 12, 20 2016

**PATENT
REEL: 035751 FRAME: 0608**

ASSIGNMENT

WHEREAS, I, **Scott Well** of 6436 Brixton Road, Apt. 7, Maumee, Ohio 43537, US hereinafter referred to as ASSIGNOR, together with Scott P. Cooper, Sutapa Bhaduri, Michael P. Remington and Tilak Gullinkala have invented certain improvements in an invention entitled "Glass Precursor Gel" for which an application for a United States Patent was filed in the United States Patent & Trademark Office (USPTO) on April 1, 2015 and thereafter received a USPTO Serial Number 14/676,372

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.

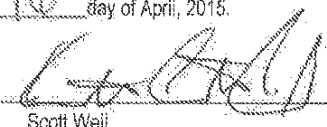
I, as ASSIGNOR, hereby authorize ASSIGNEE and its legal representatives to apply for foreign patents based on said invention or on said application(s), in ASSIGNEE'S own name or through its successors, assigns, designees, legal representatives, subsidiaries or related companies, under an International 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.

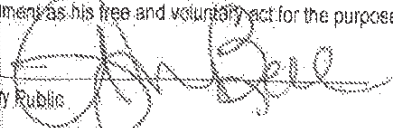
IN WITNESS WHEREOF, the undersigned ASSIGNOR has caused his name to be subscribed hereto this 16th day of April, 2015.

ASSIGNOR SIGNATURE: 

ASSIGNOR NAME: Scott Well

STATE OF OHIO)
COUNTY OF WOOD)

This 16th day of April 2015, before me, the undersigned Notary Public in and for WOOD County, State of OHIO, U.S.A., personally appeared **Scott Well** 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.


Notary Public



AMY M. BELL

NOTARY PUBLIC
STATE OF OHIOMy Commission Expires
May 12, 2020

PATENT

REEL: 035751 FRAME: 0609

ASSIGNMENT

WHEREAS, I, **Scott P. Cooper** of **7036 Sandy Springs Road, Maumee, Ohio 43537, US** hereinafter referred to as ASSIGNOR, together with **Scott Weil, Sutapa Bhaduri, Michael P. Remington and Tiia Gullinkala** have invented certain improvements in an invention entitled "**Glass Precursor Gel**" for which an application for a United States Patent was filed in the United States Patent & Trademark Office (USPTO) on April 1, 2015 and thereafter received a USPTO Serial Number 14/676372.

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 16 day of April, 2015.

ASSIGNOR SIGNATURE:

ASSIGNOR NAME:

Scott P. Cooper

STATE OF OHIO)
COUNTY OF WOOD)

On this 16 day of April 2015, before me, the undersigned Notary Public in and for WOOD County, State of OHIO, U.S.A., personally appeared **Scott P. Cooper** 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.

Notary Public



AMY M. BELL

NOTARY PUBLIC
STATE OF OHIOMy Commission Expires
May 12, 2020

PATENT

REEL: 035751 FRAME: 0610

ASSIGNMENT

WHEREAS, I, **Sutapa Bhaduri** of 9102 Rolling Hill Road, Holland, Ohio 43528, US hereinafter referred to as ASSIGNOR, together with Scott P. Cooper, Scott Weil, Michael P. Remington and Tilak Gullinkala have invented certain improvements in an invention entitled "Glass Precursor Gel" for which an application for a United States Patent was filed in the United States Patent & Trademark Office (USPTO) on April 1, 2015 and thereafter received a USPTO Serial Number 14/676,372.

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 16th day of April, 2015.

ASSIGNOR SIGNATURE: S. Bhaduri

ASSIGNOR NAME:

Sutapa Bhaduri

(STATE OF OHIO)
(COUNTY OF WOOD)

In this 16th day of April 2015, before me, the undersigned Notary Public in and for WOOD County, State of OHIO, U.S.A., personally appeared **Sutapa Bhaduri** 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



AMY M. BELL

NOTARY PUBLIC
STATE OF OHIOMy Commission Expires
May 12, 2020

PATENT
REEL: 035751 FRAME: 0611

ASSIGNMENT

WHEREAS, I, Michael P. Remington of 1936 Dority Road, Toledo, Ohio 43515, US hereinafter referred to as ASSIGNOR, together with Scott P. Cooper, Scott Weil, Gulapa Bhadani and Tiaak Gullinkari have invented certain improvements in an invention entitled "Glass Precursor Gel" for which an application for a United States Patent was filed in the United States Patent & Trademark Office (USPTO) on April 2015 and thereafter received a USPTO Serial Number 14/676,372

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 43551-2899, 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 application(s) or said patent(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.

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IN WITNESS WHEREOF, the undersigned ASSIGNOR has caused his name to be subscribed hereto this 26 day of May, 2015.

ASSIGNOR SIGNATURE: [Signature]
ASSIGNOR NAME: Michael P. Remington

STATE OF
COUNTY OF

On this 26 day of May, 2015, before me, the undersigned Notary Public in and for Washtenaw County, State of Michigan, U.S.A., personally appeared Michael P. Remington 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

JENNIFER BRANSTETTER
Notary Public, State of Michigan
County of Washtenaw
My Commission Expires 03-28-2021
Acting in the County of Washtenaw