#### 504223511 02/10/2017

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4270188

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ROGER L. KUHLMAN	03/23/2005
TIMOTHY T. WENZEL	03/23/2005

#### **RECEIVING PARTY DATA**

Name:	UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY CORPORATION
Street Address:	39 OLD RIDGEBURY ROAD
City:	DANBURY
State/Country:	CONNECTICUT
Postal Code:	06817-0001

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14278472

#### CORRESPONDENCE DATA

Fax Number: (414)223-5000

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: 4149785559

jere.polmatier@huschblackwell.com Email:

JERE L. POLMATIER **Correspondent Name:** Address Line 1: HUSCH BLACKWELL LLP

Address Line 2: 555 EAST WELLS STREET, SUITE 1900

Address Line 4: MILWAUKEE, WISCONSIN 53202

ATTORNEY DOCKET NUMBER:	DOW-36271-A-US-D
NAME OF SUBMITTER:	JERE L. POLMATIER
SIGNATURE:	/jlp/
DATE SIGNED:	02/10/2017

**Total Attachments: 12** 

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> **PATENT** 504223511

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FORM 110 (R \$97)

Subscribe

Docket Ref. 63558D css

### INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

t/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: CATALYST COMPOSITION COMPRISING SHUTTLING AGENT FOR ETHYLENE MULTI-BLOCK COPOLYMER FORMATION

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we, by virtue of my/our employee agreement(s) and contractual agreement(s) between our employer(s) and Union Carbide Chemicals & Plastics Technology Corporation, hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for Union Carbide Chemicals & Plastics Technology Corporation. As trustee(s), and for good and valuable consideration and/or the remaneration received for my/our work from my/our employer, I/we sell, assign and transfer unto:

UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY CORPORATION

39 Old Ridgebury Ro	ad	
Danbury, Connecticu	t <del>0</del> 6817-0001	
United States of America		
a corporation organized and existing under the laws of the Stat	te of DELAWARE, U.S.A. (hereinafter referred to as the "Assignee"):	
my/our entire right, title and interest throughout the world, in m	ul to the invention and all rights and nowers to make applications	
including provisional applications when permitted by law, for L	ottors Patent in its own name, or in the name of its designed for	
nominee(s)); and all rights and powers to file any corresponding	or equivalent applications in any and all countries, including all	
rights to claim priority under all United States domestic laws, In	ternational Convention(s) and Treaties in the name of Assignee, and	
do hereby authorize Assignee or its designee to insert here the	· · · · · · · · · · · · · · · · · · ·	
Application No. PCT/US05/08917 Filin,	g DateMarch 17, 2005	
in country International		
of the application, on which the claim for priority will be based;	and in and to any Letters Patent that may be issued for the	
invention in any and all countries. I/we do hereby agree to assist	t Assignee in the prosecution of the application(s) and in any	
interference, conflict, opposition or litigation which may arise in	svolving the invention or the patent or patents thereon, and to	
execute for any and all countries any document relating to applic	cations derived from, corresponding to or equivalent to the above	
identified application as Assignee may request; and I/we do here	cby authorize Assignee or its designee (or nominee(s)) to insert here	
any corresponding equivalent		
Application No. Filing	Date	
in country		
to the above Priority application of any country where that country	ntry's patent property must be identified and entered hereinabove	
for recordal of this Assignment. I/we authorize Assignee or its	designes to translate this Assignment into all languages necessary;	
and we request that any such Letters Patent be issued to Assigne	and consent to the recordal of this Assignment, or a Notarial True	
Copy thereof, being under covenant not only that I/we have full t	power to make the same, but also that such assigned rights are not	
encumbered by any grant, license, or other right heretofore given	1.	
and Declared by me/us:	•	
At: Charleston, West Virginia USA	Att Charles Wast Village L. Figs	
this 35 day of March , 2005	At: Charleston, West Virginia USA	
11118-25 day of 11 40.00 , 2005	this Reday of Wace 1,2005	
Effective as of March 17, 2005	Effective as of March 17, 2005	
Signature: Rose L Kellman		
	Signature:	
Full Namo: Roger L. Kuhiman	Full Name: Timothy T. Wenzel	
Residence: 2533 Spring Street	Residence: 888 Poplar Road	
Charleston, West Virginia 25303	Charleston, West Virginia 25302	
Country: United States of America	Country: United States of America	
Citizenship: United States of America	Citizenship: United States of America	
P. O. Address: Same as Residence	P. O. Address: Same as Residence	
Employed By: Union Carbide Corporation		
	Employed By: Union Carbide Corporation	
Of Country: United States of America	Of Country: United States of America	
At:	At:	
this day of .20	this day of . 20	
Signature:	0:	
	Signature:	
Full Name:	Full Name:	
Residence:	Residence:	
1		
Country:	Country:	
Citizenship;	Citizenship:	
P. O. Address:	P. O. Address:	
Employed By:	Employed By:	
Of Country:	Of Country:	
Ca Country.	i Or Country:	

( ) Additional names and signatures are attached.

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This Assignment 223 is in the ENGLISH language and has the same meaning in other imageneously the same 222 studeer.

FORM 222

Docket Ref. 63558D css pg 1

NOTARIAL CERTIFICATE (INDIVIDUAL)	
UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) SS County/Parish of Midland )	
On this A day of Warch personally appeared before me,	
Daniel J. Arriola known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.	
Notary Public of 3 and Sounty, Michigan My Commission Express February 6, 2007	žY
NOTARIAL CERTIFICATE (INDIVIDUAL)	
UNITED STATES OF AMERICA ) STATE OF TEXAS ) SS County/Parish of Brazoria )	
On this 17 day of March 2005, personally appeared before me,	
Edmund M. Carnahan known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.	
SEAL Notary Public  Notary Public	
NOTARIAL CERTIFICATE (INDIVIDUAL)	
UNITED STATES OF AMERICA ) STATE OF TEXAS ) SS County/Parish of Brazoria )	
On this 18th day of 2005, personally appeared before me,  Yunwa Wilson Cheung	
known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed	
SEAL Notary Public	

**FORM 222** 

Docket Ref. 63558D css pg 2

NOTARIAL CERTIFICATE	E (INDIVIDUAL)
UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) SS	
County/Parish of Midland ) On this A day of Much	, 20 05, personally appeared
before me,  David D. Dev	rore
known or identified to me to be the individual descr foregoing document and acknowledged the same as purposes therein expressed.	ibed in and who executed the a free act and deed for uses and
1	Idlerose Lide Van het
SEAL	Notary Public Melissa Leigh Vanmeter Notary Public Midland Courts Mid-
	Notary Public, Midland County, Michigan My Commission Expires February 6, 2007
NOTARIAL CERTIFICATE	(INDIVIDUAL)
UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) SS County/Parish of Midland )	
On this <u>24</u> day of <u>Monch</u> before me,	, 20105, personally appeared
David D. Greknown or identified to me to be the individual descriforegoing document and acknowledged the same as a purposes therein expressed.	bed in and who executed the
	arla Slamul
SEAL	otary Public
	Carla S. Samuel  Notary Public, Bay County, Michigan Acting in Midland County, Michigan My Commission Expires Octobre 3, 2005
NOTARIAL CERTIFICATE	(INDIVIDUAL)
UNITED STATES OF AMERICA ) STATE OF TEXAS ) SS County/Parish of Brazoria )	
On this 17 day of March before me,	, 2005, personally appeared
Phillip D. Husti known or identified to me to be the individual describ	ad
foregoing document and acknowledged the same as a purposes the expressed.	free act and deed for uses and
Not of texts of the state of th	Dammy Typis ary Public
O-2006	

FORM 222

Docket Ref. 63558D css pg 3

NOTARIAL CERTIFICA	ATE (INDIVIDUAL)	
UNITED STATES OF AMERICA ) STATE OF TEXAS ) SS County/Parish of Brazoria )		
On this 18th day of Masch before me,		
known or identified to me to be the individual of foregoing document and acknowledged the sampurposes therein expressed.  AUREY L. 380WN Holary Fublic State of Towns My ammission Express January 30, 2008	lescribed in and who executed the	
NOTARIAL CERTIFICA	ATE (INDIVIDUAL)	
UNITED STATES OF AMERICA ) STATE OF TEXAS ) SS County/Parish of Brazoria )		
On this 18th day of March before me,	, 20 Of, personally appeared	
Renjamin known or identified to me to be the individual decision of the individual decision.	escribed in and who executed the	
foregoing document and acknowledged the sam purposes therein expressed.	e as a free act and deed for uses and	
SEAL.	Motary Public & Brown	
NOTARIAL CERTIFICATE (INDIVIDUAL)		
UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) SS County/Parish of Midland )		
On this 34 day of 1) arch before me,	, 20 O5, personally appeared	
Gordon R known or identified to me to be the individual de foregoing document and acknowledged the same purposes therein expressed.	scribed in and who executed the	
	Carla S Samuel	
SEAL	Notary Public	
	Carla S. Samuel Notary Public, Bay County, Michigan Acting in Middand Jounty, Michigan Wy Composition of a security page 10, 2006	

FORM 222

Docket Ref. 63558D css pg 4

NOTARIAL CERTIFIC	CATE (INDIVIDUAL)
UNITED STATES OF AMERICA ) STATE OF TEXAS ) SS County/Parish of Brazoria )	
On this 17 day of March before me,	, 20 <u>05</u> personally appeared
James C	. Stevens
known or identified to me to be the individual foregoing document and acknowledged the sa	gescribed in and who executed the
purposes therein expressed.	me as a free act and deed for uses and
MAN A LA L	Danny Jupis Notary Public
UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) SS	ATE (INDIVIDUAL)
The state of the s	MIE (MDIVIDUML)
UNITED STATES OF AMERICA )	
STATE OF MICHIGAN ) SS	
County/Parish of Midland )	
On this <u>24</u> day of <u>Warrh</u> before me,	, 20 05, personally appeared
Pamela	J. Stirn
known or identified to me to be the individual	described in and who executed the
foregoing document and acknowledged the sar purposes therein expressed.	ne as a free act and deed for uses and
purposes morem expresses.	140 - 0
	Helioa deigh Van heter
SEAL .	Notary Publication v
	Notary Public, Midland County, Michigan My Commission Expires February 8, 2007
NOTARIAL CERTIFICA	ATE (INDIVIDUAL)
UNITED STATES OF AMERICA )	
STATE OF WEST VIRGINIA ) SS County/Parish of Kanawha )	
	-
On this 23cd day of Mach before me,	, 2005, personally appeared
Roger L. K	uhlman
known or identified to me to be the individual d foregoing document and acknowledged the sam	escribed in and who executed the
purposes therein expressed.	e as a free act and need for uses and
***************************************	ant In In
OFFICIAL BIAL MOTARY PUBLIC	- Man Imal
STATE OF WELL VINCEN	Notary Public
NITA J. DUNGAP	( )
W. MARIE, W. MITT	

**FORM 220** 

Docket Ref. 63558D css pg 5

### NOTARIAL CERTIFICATE (INDIVIDUAL)

UNITED STATES OF AMERICA STATE OF WEST VIRGINIA County/Parish of Kanawha

before me,

≥, personally appeared

Timothy T. Wenzel

known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.

**■660 ● 660** 

This Assignce Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number. FORM 660

## ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE:

UNION CARBIDE CHEMICALS & PLASTICS

TECHNOLOGY CORPORATION

39 Old Ridgebury Road

Danbury, Connecticut 06817-0001 UNITED STATES OF AMERICA

hereby accept the ASSIGNMENT attached hereto which is dated: March 23, 2005

From, the ASSIGNOR: Roger L. Kuhlman, 2533 Spring Street, Charleston, West Virginia 25303, United States of America; and Timothy T. Wenzel, 888 Poplar Road, Charleston, West Virginia 25302, United States of America

of the invention entitled:

#### CATALYST COMPOSITION COMPRISING SHUTTLING AGENT FOR ETHYLENE MULTI-BLOCK COPOLYMER FORMATION

without any restrictions and with all rights and ablique

confirmation of acceptance shall be deemed a part of the sa	leriving therefrom and declare that this id ASSIGNMENT.
Signed at Midland, Michigan 48674, II S A	
this It day of agril	2005
CORP. SEAL By: La le	F Moure #
Secretary NOTARIAL CERTIFICA	ΓΕ (Corporation)
UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) SS County/Parish of Midland ) On this	nd purposes therein expressed by authority tate of Delaware, United States of
an authorization Policy of the said Corporation,	, 13 31334 31.
which I have seen, appointing the said individual Attorney-iforegoing document on behalf of the said corporation and the granted are within the scope of the objects or activities of said	t the purposes for which said document is
SEAL July Sug Notary	Public P
My Commission	Street County, Rosest Street County Rosest Street County Rosest Street County Rosest Street County C

Attach this Assignee Acceptance 660 to an ASSIGNMENT in the English language

nent 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and E/Date

FORM 110 (R 5/97)

Docket Ref. 63558 css

### INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled:

CATALYST COMPOSITION COMPRISING SHUTTLING AGENT FOR ETHYLENE COPOLYMER FORMATION which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we, by virtue of my/our employee agreement(s) and contractual agreement(s) between our employer(s) and Union Carbide Chemicals & Plastics Technology Corporation, hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for Union Carbide Chemicals & Plastics Technology Corporation. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work from my/our employer, I/we sell, assign and transfer unto:

> UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY CORPORATION 39 Old Ridgebury Road Danbury, Connecticut 06817-0001 United States of America

a corporation organized and existing under the laws of the State of DELAWARE, U.S.A. (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications,

including provisional applications when permitted by law, for Le nominee(s)); and all rights and powers to file any corresponding	or equivalent applications in any and all countries, including all
rights to claim priority under all United States domestic laws, Int do hereby authorize Assignee or its designee to insert here the	ternational Convention(s) and Treaties in the name of Assignee, and
Application No. 60/553,906 Filing	Date March 17, 2004
in country the United States of America	
of the application, on which the claim for priority will be based;	and in and to any Letters Patent that may be issued for the
invention in any and all countries. I/we do hereby agree to assist interference, conflict, opposition or litigation which may arise in	Assignee in the prosecution of the application(s) and in any
execute for any and all countries any document relating to applic	arions derived from corresponding to or equivalent to the above
identified application as Assignee may request; and I/we do herel	by authorize Assignee or its designee (or nominee(s)) to insert here
any corresponding equivalent	
Application No. Filing L	Date
in country	
to the above Priority application of any country where that coun	ury's patent property must be identified and entered hereinabove
for recordal of this Assignment. If we authorize Assignee of its d	lesignee to translate this Assignment into all languages necessary; e; and consent to the recordal of this Assignment, or a Notarial True
Converted being under coverant not only that I/we have full n	ower to make the same, but also that such assigned rights are not
encumbered by any grant, license, or other right heretofore given	
Subscribed and Declared by me/us:	
·	
At: Charleston, West Virginia USA	Atcharleston, West Virginia USA
this 13 day of 1001 , 209	this day of May
Effective as of March 17, 2004	Effective as of March 17, 2004
Signature: Roger Kills	
Signature: 10007 Miles	Signature: / wood/
Full Name: Roger L. Kuhlman	Full Name: Timothy T. Wenzel
Residence: 2533 Spring Street	Residence: 888 Poplar Road
Charleston, West Virginia 25303	Charleston, West Virginia 25302 Country: United States of America
Country: United States of America	Country: United States of America Citizenship: United States of America
Citizenship: United States of America P. O. Address: Same as Residence	P. O. Address: Same as Residence
Employed By: Union Carbide Corporation	Employed By: Union Carbide Corporation
Of Country: United States of America	Of Country: United States of America
Of Country: United States of America	Of Country. Cinted States of America
At:this day of .20	At:
this day of	uns
Signature:	Signature:
Full Name:	Full Name:
Residence:	Residence:
* ************************************	
Country:	Country:
Citizenship:	Citizenship:
P. O. Address:	P. O. Address:
Employed By:	Employed By:
Of Country:	Of Country:

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### 1222 0 222

on 222 is in the ENGLISH language and has the some meaning in other languages with the same 222 worders and R/Dute Docket Ref. 63558 css **FORM 222** NOTARIAL CERTIFICATE (INDIVIDUAL) UNITED STATES OF AMERICA STATE OF MICHIGAN SS County/Parish of Midland On this 217 day of Man , personally appeared before me, Daniel J. Arriola known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed. SEAL NOTARIAL CERTIFICATE (INDIVIDUAL) UNITED STATES OF AMERICA STATE OF MICHIGAN SS County/Parish of Midland On this 34 personally appeared before me, Marilyn Bokota known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed. SEAL Notary Public Carla S. Samuel
Notary Public, Bey County, Michigan
Acting In Midland County, Michigan
My Commission Expires Outober 10, 2005 NOTARIAL CERTIFICATE (INDIVIDUAL) UNITED STATES OF AMERICA STATE OF TEXAS SS County/Parish of Brazoria On this 15th day of April \_\_\_\_\_, 20<u>04</u>, personally appeared before me, Edmund M. Carnahan known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.

**FORM 222** Docket Ref. 63558 css NOTARIAL CERTIFICATE (INDIVIDUAL) UNITED STATES OF AMERICA STATE OF MICHIGAN SS County/Parish of Midland 20 94, personally appeared On this day of before me. David D. Devore known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed. SEAI Notary Public Carla S. Samuel Notary Public, Bay County, Michigan Acting in Midland County, Michigan NOTARIAL CERTIFICATE (INDIVIDUAL) UNITED STATES OF AMERICA STATE OF TEXAS SS County/Parish of Brazoria On this 7th day of April . 20 / Le personally appeared before me. Phillip D. Hustad known or identified to me to be the individual deseribed in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed. NOTARIAL CERTIFICATE (INDIVIDUAL) UNITED STATES OF AMERICA STATE OF WEST VIRGINIA SS County/Parish of Language On this 260 , personally appeared before me, Roger L. Kuhlman known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed. OFFICE SA **HOTARY FUBLIC** SEAL totary Public

STATE OF WEST WORK

**FORM 221** Docket Ref. 63558 css

NOTARIAL CERTIFICATE (INDIVIDUAL)	
UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) SS County/Parish of Midland )	
On this 21 day of 2004, personally appeared before me,	
Pamela J. Stirn	
known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.	
SEAL Notary Public Carla S. Samuel	
Notary Public, Bay County, Michigan Acting in Midland County, Michigan My Commission Expires October 10, 2005	
NOTARIAL CERTIFICATE (INDIVIDUAL)	
UNITED STATES OF AMERICA ) STATE OF WEST VIRGINIA ) SS County/Parish of Young	
On this The day of May 2014, personally appeared before me,	
Timothy T. Wenzel	
known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.	

SEAL

This Assignce Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number. FORM 660

## ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE:

UNION CARBIDE CHEMICALS & PLASTICS

TECHNOLOGY CORPORATION

39 Old Ridgebury Road

Danbury, Connecticut 06817-0001 UNITED STATES OF AMERICA

hereby accept the ASSIGNMENT attached hereto which is dated: May 7, 2004 and May 13, 2004

From, the ASSIGNOR: Roger L. Kuhlman, 2533 Spring Street, Charleston, West Virginia 25303, United States of America; and Timothy T. Wenzel, 888 Poplar Road, Charleston, West Virginia 25302, United States of America

of the invention entitled:

# CATALYST COMPOSITION COMPRISING SHUTTLING AGENT FOR ETHYLENE COPOLYMER FORMATION

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Midland	, Michigan 48674, U.S.A.
this day of	CAUNE , 2004
CORP. SEAL	UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY CORPORATION  By: Main Main By CHARLES J. MAURER III Secretary
NOTAR	IAL CERTIFICATE (Corporation)
UNITED STATES OF	,
STATE OF MICHIGA	N ) SS
County/Parish of Midla	and)
On this day or before me. CHARLES J.	f, 20 <u>, personally appeared</u> . MAUKER III, Secretary,
known or identified to me to and acknowledged the same	be the individual described in and who executed the foregoing document as a free act and deed for uses and purposes therein expressed by authority proporated under the laws of the State of Delaware, United States of
I further certify that said aut	hority, dated September 17, 2001, is based on
an authorization Policy of	the said Corporation,
foregoing document on beha	ng the said individual Attorney-in-fact with full power to sign the alf of the said corporation and that the purposes for which said document is of the objects or activities of said corporation.
	_ Una Heiteer
SEAL	Notary Public
	Ame Hautton
	Ann Heritier  Notary Public, Bay County, Michigan
	Acting in Midland County
	France in terrorial and a second

My Commission Expires December 03, 2006

RECORDED: 11/17/2010

RECORDED: 02/10/2017