504640459 11/14/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4687179

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JINCHENG XIONG	06/29/2017
MARTIN C. GREEN	06/14/2017
WILLIAM R. WILLIAMS	06/20/2017
DMITRY FOMITCHEV	11/02/2017
GERALD D. ADLER	07/12/2017
DUANE G. MCDONALD	07/12/2017
RON GROSZ	06/20/2017

RECEIVING PARTY DATA

Name:	CABOT CORPORATION
Street Address:	TWO SEAPORT LANE
Internal Address:	SUITE 1300
City:	BOSTON
State/Country:	MASSACHUSETTS
Postal Code:	02210

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15600076

CORRESPONDENCE DATA

Fax Number: (978)670-8027

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: 978-670-6191

Email: iplaw@cabotcorp.com
Correspondent Name: MARIA T. BAUTISTA
Address Line 1: CABOT CORPORATION
Address Line 2: 157 CONCORD ROAD

Address Line 4: BILLERICA, MASSACHUSETTS 01821

ATTORNEY DOCKET NUMBER: 2010919

NAME OF SUBMITTER: MARIA T. BAUTISTA

SIGNATURE: /Maria T. Bautista/

504640459 REEL: 044114 FRAME: 0541

DATE SIGNED:	11/14/2017
Total Attachments: 18	
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ASSIGNMENT

WHEREAS, we, Jincheng Xiong of Boxborough, Massachusetts, USA; Martin C. Green of Boxborough, Massachusetts, USA; William R. Williams of Charlotte, North Carolina, USA; Dmitry Fomitchev of Lexington, Massachusetts, USA; Gerald D. Adler of Charlestown, Massachusetts, USA; Duane G. McDonald of Cambridge, Massachusetts, USA; and Ron Grosz of Andover, Massachusetts, USA, having invented the subject matter described in the U.S. Patent Application entitled "METHODS OF MAKING AN ELASTOMER COMPOSITE REINFORCED WITH SILICA AND PRODUCTS CONTAINING SAME," the specification of which was filed on May 19, 2017, as United States Patent Application Serial No. 15/600,076, and

WHEREAS, Cabot Corporation, a corporation organized and existing under and by virtue of the laws of the State of Delaware, doing business at Two Seaport Lane, Suite 1300, Boston, Massachusetts 02210, is desirous of acquiring the entire right, title and interest in and to said application and the invention therein described and claimed and any Letters Patent that may be issued upon said application or for the improvements therein contained.

NOW THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) lawful money of the United States and other valuable considerations, in hand paid to us, the receipt and sufficiency whereof is hereby acknowledged, we, Jincheng Xiong, Martin C. Green, William R. Williams, Dmitry Fomitchev, Gerald D. Adler, Duane G. McDonald, and Ron Grosz, have sold, assigned and transferred and do hereby sell, assign and transfer unto Cabot Corporation, its successors and assigns, the entire right, title and interest in and to said application and the invention therein contained, including the right to apply for any Letters Patent in the United States of America and in any and all foreign countries on said invention, and any and all other applications for Letters Patent on said invention, in whatsoever countries, including all provisional, divisional, renewal, substitution, continuation, continuation-in-part, reissue, reexamination and Convention applications based upon said invention or upon said application, to the full end of the term or terms for which said Letters Patent may be issued, and every priority right that is or may be predicated upon or arise from said invention, said application and said Letters Patent, the same to be held and enjoyed by Cabot Corporation, its successors and assigns, the same as it would have been held and enjoyed by us if this assignment and sale had not been made.

Assignment - Page 1 of 6

And we hereby authorize Cabot Corporation, to file patent applications in any or all

countries on any or all of said invention in our name or in the name of Cabot Corporation, or

otherwise as Cabot Corporation, may deem advisable, under any International Convention or

otherwise.

And we hereby authorize the Commissioner of Patents of the United States and the

empowered officials of all other governments to issue or transfer all said Letters Patent to Cabot

Corporation, as assignee of the entire right, title and interest therein or otherwise as Cabot

Corporation, may direct, in accordance with this instrument of assignment.

We hereby represent and warrant that there are no rights or interests inconsistent with

the rights and interests granted herein and that we will not execute any instrument or grant or

transfer any rights or interests inconsistent with the rights and interest granted herein, and that

we, Jincheng Xiong, Martin C. Green, William R. Williams, Dmitry Fomitchev, Gerald D.

Adler, Duane G. McDonald, and Ron Grosz, have sold, assigned and transferred and do hereby

sell, assign and transfer unto Cabot Corporation, its successors and assigns, any further

documents or instruments and do any and all further acts that may reasonably be deemed

necessary by Cabot Corporation to enable Cabot Corporation, its successors or assigns, to file

applications for the invention in any country where it may elect to file such applications, and

that may be necessary to vest in Cabot Corporation, its successors and assigns, the title herein

conveyed or intended so to be, and to enable such title to be recorded in the United States and

foreign countries where such application or applications may be filed.

And we further covenant and agree, in consideration of the premises, that we, our

executors and administrators, will at any time, upon request, communicate to Cabot

Corporation, its successors and assigns, any facts relating to the invention and the improvements

contained therein and the history thereof, known to us or our executors and administrators, and

that we will testify as to the same in any interference or other litigation when requested so to do

by Cabot Corporation, its successors and assigns.

Assignment - Page 2 of 6

IN TESTIMONY WHEREOF, I, Jincheng M	Gong, have hereunto set my hand and
seal this <u>29</u> day of <u>June</u> , <u>2017</u>	matilitiitiiniinink hiirit ha k
	Jincheng Xiong
COMMONWEALTH OF MASSACHUSETTS)
) ss.
COUNTY OF MIDDLESEX)
On this day of	NOTARY PUBLIC My Commission Expires: 8 /5 72 /9
COMMONWEALTH OF MASSACHUSETTS COUNTY OF MIDDLESEX)) ss.)
On this day of	

this day of, <u>2</u>	
· · · · · · · · · · · · · · · · · · ·	
	William R. Williams
STATE OF NORTH CAROLINA)
COUNTY OF MECKLENBURG) ss.)
On this day of, 2, R. Williams, before me known and known to me to be executed the foregoing instrument, and s/he duly acks same for the purpose therein set forth.	the individual described herein and who
	NOTARY PUBLIC My Commission Expires:
IN TESTIMONY WHEREOF, I, Dmitry Fo seal this day of, 2017.	mitchev, have hereunto set my hand and
COMMONWEALTH OF MASSACHUSETTS)) ss.
COUNTY OF MIDDLESEX) 55.
On this day of 2017, Fomitchev, before me known and known to me to be executed the foregoing instrument, and s/he duly acknown for the purpose therein set forth.	the individual described herein and who
DEBORAH L. CELESTES NORTH PRICE COMMONITATION MASSAUPIDETTS	NOTARY PUBLIC My Commission Expires: 8-/5-20
B NOW MY Comm. Express August 16, 2019 Supplication of the Community of th	

Assignment - Page 4 of 6

IN TESTIMONY WHEREOF, I, Gerald D. Adler,	have hereunto set my hand and seal this
/2 day of 563 . 24/7.	Acade Mandal
	Gerald D. Adler
COMMONWEALTH OF MASSACHUSETTS	}
) ss.
COUNTY OF MIDDLESEX)
On this 01/1/day of 1/4, 20/7.	before me personally appeared Gerald
D. Adler, before me known and known to me to be t	he individual described herein and who
executed the foregoing instrument, and s/he duly ackr	
same for the purpose therein set forth. DEBORAH L. CELESTE NOTARY PLBUE COMMONWEALTH OF MASSACHUSETTS	NOTARY PUBLIC
Sky Coren Expires August 15, 2019	My Commission Expires: 8 25 えん
IN TESTIMONY WHEREOF, I, Duane G.	McDonald, have hereunto set my hand
and seal this day of, 2	·
	Duane G. McDonald
COMMONWEALTH OF MASSACHUSETTS)
) ss.
COUNTY OF MIDDLESEX)
On this day of, 2, I G. McDonald, before me known and known to me to who executed the foregoing instrument, and s/he duly the same for the purpose therein set forth.	be the individual described herein and
	NOTARY PUBLIC My Commission Expires:

IN TESTIMONY WHEREOF, I, Ron Grosz, have	e hereunto set my hand and seal this 204
day of <u>JVa/6</u> , <u>2017</u>	Ron Grosz
COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF MIDDLESEX) ss.)
On this 20 day of 10ne, 2017. It Grosz, before me known and known to me to be the executed the foregoing instrument, and s/he duly acknown for the purpose therein set forth.	individual described herein and who
HEATHER TANASHIAN NOTARY Public COMMONWEATH OF MASSACHUSETTS My Commission Expires On June 19, 2020	NOTARY PUBLIC My Commission Expires:

Assignmen

ASSIGNMENT

WHEREAS, we, Jincheng Xiong of Boxborough, Massachusetts, USA; Martin C. Green of Boxborough, Massachusetts, USA; William R. Williams of Charlotte, North Carolina, USA; Dmitry Fomitchev of Lexington, Massachusetts, USA; Gerald D. Adler of Charlestown, Massachusetts, USA; Duane G. McDonald of Cambridge, Massachusetts, USA; and Ron Grosz. of Andover, Massachusetts, USA, having invented the subject matter described in the U.S. Patent Application entitled "METHODS OF MAKING AN ELASTOMER COMPOSITE REINFORCED WITH SILICA AND PRODUCTS CONTAINING SAME," the specification of which was filed on May 19, 2017, as United States Patent Application Serial No. 15/600,076, and

WHEREAS, Cabot Corporation, a corporation organized and existing under and by virtue of the laws of the State of Delaware, doing business at Two Seaport Lane, Suite 1300, Boston, Massachusetts 02210, is desirous of acquiring the entire right, title and interest in and to said application and the invention therein described and claimed and any Letters Patent that may be issued upon said application or for the improvements therein contained.

NOW THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) lawful money of the United States and other valuable considerations, in hand paid to us, the receipt and sufficiency whereof is hereby acknowledged, we, Jincheng Xiong, Martin C. Green, William R. Williams, Dmitry Fomitchev, Gerald D. Adler, Duane G. McDonald, and Ron Grosz, have sold, assigned and transferred and do hereby sell, assign and transfer unto Cabot Corporation, its successors and assigns, the entire right, title and interest in and to said application and the invention therein contained, including the right to apply for any Letters Patent in the United States of America and in any and all foreign countries on said invention, and any and all other applications for Letters Patent on said invention, in whatsoever countries, including all provisional, divisional, renewal, substitution, continuation, continuation-in-part, reissue, reexamination and Convention applications based upon said invention or upon said application, to the full end of the term or terms for which said Letters Patent may be issued, and every priority right that is or may be predicated upon or arise from said invention, said application and said Letters Patent, the same to be held and enjoyed by Cabot Corporation, its successors and assigns, the same as it would have been held and enjoyed by us if this assignment and sale had not been made.

Assignment - Page 1 of 6

And we hereby authorize Cabot Corporation, to file patent applications in any or all

countries on any or all of said invention in our name or in the name of Cabot Corporation, or

otherwise as Cabot Corporation, may deem advisable, under any International Convention or

otherwise.

And we hereby authorize the Commissioner of Patents of the United States and the

empowered officials of all other governments to issue or transfer all said Letters Patent to Cabot

Corporation, as assignee of the entire right, title and interest therein or otherwise as Cabot

Corporation, may direct, in accordance with this instrument of assignment.

We hereby represent and warrant that there are no rights or interests inconsistent with

the rights and interests granted herein and that we will not execute any instrument or grant or

transfer any rights or interests inconsistent with the rights and interest granted herein, and that

we, Jincheng Xiong, Martin C. Green, William R. Williams, Dmitry Fomitchev, Gerald D.

Adler, Duane G. McDonald, and Ron Grosz, have sold, assigned and transferred and do hereby

sell, assign and transfer unto Cabot Corporation, its successors and assigns, any further

documents or instruments and do any and all further acts that may reasonably be deemed

necessary by Cabot Corporation to enable Cabot Corporation, its successors or assigns, to file

applications for the invention in any country where it may elect to file such applications, and

that may be necessary to vest in Cabot Corporation, its successors and assigns, the title herein

conveyed or intended so to be, and to enable such title to be recorded in the United States and

foreign countries where such application or applications may be filed.

And we further covenant and agree, in consideration of the premises, that we, our

executors and administrators, will at any time, upon request, communicate to Cabot

Corporation, its successors and assigns, any facts relating to the invention and the improvements

contained therein and the history thereof, known to us or our executors and administrators, and

that we will testify as to the same in any interference or other litigation when requested so to do

by Cabot Corporation, its successors and assigns.

Assignment - Page 2 of 6

	Jincheng Xiong
COMMONWEALTH OF MASSACHUSETTS	}
) ss.
COUNTY OF MIDDLESEX)
On this day of, 2, begin to me to be the executed the foregoing instrument, and s/he duly acknown to me to be the executed the foregoing instrument, and s/he duly acknown to me to be the executed the foregoing instrument, and s/he duly acknown to me to be the executed the foregoing instrument, and s/he duly acknown to me to be the executed the foregoing instrument.	e individual described herein and wh
same for the purpose therein set forth.	to maged to me side sine exceeded in
	NOTARY PUBLIC
	My Commission Expires:
IN TESTIMONY WHEREOF, I, Martin C. seal this day of, 2	
seal this day of, 2	Green, have hereunto set my hand and
seal this day of, 2 COMMONWEALTH OF MASSACHUSETTS	Green, have hereunto set my hand and
seal this day of, 2	Green, have hereunto set my hand an Martin C. Green)) ss.) before me personally appeared Martin he individual described herein and who

IN TESTIMONY WHEREOF, I, William R. William	ms, have hereunto set my hand and seal
this <u>20</u> day of <u>JUNE</u> , <u>2019</u>	AJAL.
	William R. Williams
STATE OF NORTH CAROLINA)
COUNTY OF MECKLENBURG) ss.)
On this 20 day of 3400 , 2017 R. Williams, before me known and known to me to be executed the foregoing instrument, and s/he duly ackreame for the purpose therein set forth. IN TESTIMONY WHEREOF, I, Dmitry For seal this day of, 2	the individual described herein and who nowledged to me that s/he executed the NOTARY PUBLIC My Commission Expires: October 2, 2018
	Dmitry Fomitchev
COMMONWEALTH OF MASSACHUSETTS)
CONTRACTOR OF THE PROPERTY OF) ss.
COUNTY OF MIDDLESEX)
On thisday of, 2, I Fomitchev, before me known and known to me to be to executed the foregoing instrument, and s/he duly acknown same for the purpose therein set forth.	the individual described herein and who
	NOTARY PUBLIC My Commission Expires:

day of, 2	
	Gerald D. Adler
COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF MIDDLESEX) ss.
COOKIE OF HIRDINGS	,
On this day of, 2, b D. Adler , before me known and known to me to be the executed the foregoing instrument, and s/he duly acknown same for the purpose therein set forth.	ne individual described herein and wherein
	NOTARY PUBLIC My Commission Expires:
IN TESTIMONY WHEREOF, I, Duane G. 1	McDonald, have hereunto set my har
	McDonald, have hereunto set my had
and seal this day of, 2	
and seal thisday of, 2 COMMONWEALTH OF MASSACHUSETTS	
commonwealth of massachusetts	Duane G. McDonald
IN TESTIMONY WHEREOF, I, Duane G. 1 and seal this	Duane G. McDonald)) ss.) before me personally appeared Duane be the individual described herein as

	Ron Grosz
COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF MIDDLESEX) ss.)
Our shile desired to	hefore me nerconally anneared Dan
On this day of, 2 Grosz, before me known and known to me to be executed the foregoing instrument, and s/he duly acl same for the purpose therein set forth.	the individual described herein and who

Азмунтина

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Assignment - Page 1 of 6

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Adler, Duane G. McDonald, and Ron Grosz, have sold, assigned and transferred and do hereby

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documents or instruments and do any and all further acts that may reasonably be deemed

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executors and administrators, will at any time, upon request, communicate to Cabot

Corporation, its successors and assigns, any facts relating to the invention and the improvements

contained therein and the history thereof, known to us or our executors and administrators, and

that we will testify as to the same in any interference or other litigation when requested so to do

by Cabot Corporation, its successors and assigns.

Assignment - Page 2 of 6

	Jincheng Xiong
COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF MIDDLESEX) ss.)
On this day of, 2, begin to me to be the executed the foregoing instrument, and s/he duly acknown for the purpose therein set forth.	e individual described herein and wh
	NOTARY PUBLIC My Commission Expires:
IN TESTIMONY WHEREOF, I, Martin C.	Green, have hereunto set my hand and
IN TESTIMONY WHEREOF, I, Martin C. seal this day of, 2	
seal this day of, 2	Green, have hereunto set my hand and Martin C. Green
seal this day of, 2	Martin C. Green
IN TESTIMONY WHEREOF, I, Martin C. seal this day of, 2 COMMONWEALTH OF MASSACHUSETTS COUNTY OF MIDDLESEX	
seal this day of, 2 COMMONWEALTH OF MASSACHUSETTS	Martin C. Green)) ss.) perfore me personally appeared Martin the individual described herein and who

	William R. Williams
STATE OF NORTH CAROLINA)
COUNTY OF MECKLENBURG) ss.)
On this day of, 2, R. Williams, before me known and known to me to be executed the foregoing instrument, and s/he duly ackreame for the purpose therein set forth.	the individual described herein and who
	NOTARY PUBLIC My Commission Expires:
IN THOUSANDING WITHOUT I IN	mitchev, have hereunto set my hand and
	Dmitry Fomitchev
seal this day of, 2 COMMONWEALTH OF MASSACHUSETTS	
seal thisday of COMMONWEALTH OF MASSACHUSETTS COUNTY OF MIDDLESEX On this day of, 2, 1 Fomitchev, before me known and known to me to be executed the foregoing instrument, and s/he duly ackreame for the purpose therein set forth.	Dmitry Fomitchev)) ss.) before me personally appeared Dmitry the individual described herein and who

IN TESTIMONY WHEREOF, I, Gerald D. Adler, h	nave hereunto set my hand and seal this
day of, 2	
	Gerald D. Adler
COMMONWEALTH OF MASSACHUSETTS)) ss.
COUNTY OF MIDDLESEX)
On this day of, 2, b D. Adler , before me known and known to me to be the executed the foregoing instrument, and s/he duly acknown same for the purpose therein set forth.	ne individual described herein and who
	NOTARY PUBLIC My Commission Expires:
IN TESTIMONY WHEREOF, I, Duane G. I and seal this 12 day of Sub., 2017.	McDonald have hereunto set my hand Drane G. McDonald
COMMONWEALTH OF MASSACHUSETTS)) ss.
On this	
MONA M. NOTARY Commonwealth o My Commiss November	PUBLIC of Massachusetts ion Ferices

Assignment - Page 5 of 6

	Ron Grosz
COMMONWEALTH OF MASSACHUSETTS)
) ss.
COUNTY OF MIDDLESEX	1
On this day of, 2,	
	he individual described herein and who
On this day of, 2, Grosz, before me known and known to me to be t executed the foregoing instrument, and s/he duly ack	he individual described herein and who

Assignment - Page 6 of 6

PATENT REEL: 044114 FRAME: 0560

RECORDED: 11/14/2017