	Docket No. 2010602		
PROOF INTO	PODM COVED SUPPE		
RECORDATION FORM COVER SHEET			
}	ENTS ONLY		
	lease record the attached documents or the new addresses(es) below.		
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):		
AGATHAGELOS KYRLIDIS			
ALEXANDER I. SHAKHNOVICH	Cabot Corporation		
QINGLING ZHANG			
JOSEPH B. CARROLL	Internal Address:		
Additional name(s) of conveying party(ies) attached? No	Street Address: Two Scaport Lane		
2 7 4 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Suite 1300		
3. Nature of Conveyance/Execution Date(s):			
□ Assignment □ Merger	City: Boston State: MA Zip: 02210		
Security Agreement Change of Name	ONT. NOWALL COMM. AND WART OF THE PARTY OF T		
Other			
Execution Date(s): October 24, October 28, 2011,	Additional name(s) & address(es) attached? Yes No		
November 11, 2011 and November 14, 2011	Additional hathers) & address(es) anached: [105 [25 110		
The second secon			
4. Application number(s) or patent number(s):			
If this document is being filed together with a new application	on, the execution date of the application is:		
A. Patent Application No.(s)	B. Patent No.(s)		
13/271,452 FILED OCTOBER 12, 2011			
Additional numbers attached? Yes No	Additional numbers attached? Yes No		
5. Name and address of party to whom correspondence	6. Total Number of applications and patents involved:		
concerning document should be mailed:			
Name: Gregory M. Hill			
Internal Address: Law Department	7. Total fee (37 CFR 1.21(h) & 3.41): \$ 40.00		
Street Address: Cabot Corporation	Authorized to be charged to deposit account		
157 Concord Road	Enclosed		
City: Billerica			
State: Massachusetts Zip: 01821	8. Payment Information		
Tel. No.: (978) 670-6972	Deposit Account Number: 03-0060		
Fax No.: (978) 670-8027	Authorized User Name: Gregory M. Hill		
Email Address: iplaw@cabot-corp.com			
9. Statement and signature:			
To the best of my broaded as with the distance of the	mention is the same and appropriate and arm, the last of the		
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.			
Gregory M. Hill	12-19-2011		
Name of Person Signing	Signature Date		
Reg. No. 31,369	Total number of pages including cover		
	sheet, attachments and documents: 9		

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

2010602 | AsstRecordationCover.doc

PATENT REEL: 027496 FRAME: 0964

700477374

CABOT CORPORATION Fax: 978-670-8027

Dec 23 2011 10:49am P002/009

Docket No. 2010602

ASSIGNMENT

WHEREAS, we, Agathagelos Kyrlidis of 20 Second Street, Unit 521, Cambridge, Massachusetts 02141, a citizen of Greece, Alexander I. Shakhnovich of 43 Bradley Road, Arlington, Massachusetts 02474, a citizen of the United States of America, Qingling Zhang of 21 Kenmar Drive, Apt. 15, Billerica, Massachusetts 01821, a citizen of the People's Republic of China, and Joseph B. Carroll of 4920 Saddleridge Court, Glen Allen, Virginia 23059, a citizen of the United States of America, having invented the subject matter described in the U.S. Patent Application entitled "SURFACE MODIFIED ORGANIC BLACK PIGMENTS, SURFACE MODIFIED CARBON BLACKS, PIGMENT MIXTURES USING THEM AND LOW DIELECTRIC BLACK DISPERSIONS, COATINGS, FILMS, BLACK MATRICES, AND DEVICES CONTAINING SAME," the specification of which was filed on October 12, 2011, as United States Patent Application Serial No.13/271,452; 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, Agathagelos Kyrlidis, Alexander I. Shakhnovich, Qingling Zhang and Joseph B. Carroll, 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, re-examination 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 4

PATENT REEL: 027496 FRAME: 0965 CABOT CORPORATION Fax:978-670-8027 Dec 23 2011 10:50am P003/009

Docket No. 2010602

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, Agathagelos Kyrlidis, Alexander I. Shakhnovich, Qingling Zhang and Joseph B. Carroll,

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 4

PATENT 027496 FRAME: 09 CABOT CORPORATION

Fax:978-670-8027

Dec 23 2011 10:50am P004/009

Docket No. 2010602

IN TESTIMONY WHEREOF, I, Agathagelo	s Kyrlidis, have hereunto set my ha
nd seal this day of, 2	
	Agathagelos Kyrlidis
COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF MIDDLESEX) ss.)
On this day of, 2, gathagelos Kyrlidis, before me known and known to nd who executed the foregoing instrument, and s/h xecuted the same for the purpose therein set forth.	before me personally appea me to be the individual described her e duly acknowledged to me that s
	NOTARY PUBLIC My Commission Expires:
IN TESTIMONY WHEREOF, I, Alexander and and seal this day of	Alexander I. Shakhnovich
COMMONWEALTH OF MASSACHUSETTS)) ss.
	<i>)</i> 55.
COUNTY OF MIDDLESEX)
On this day of, 2, Alexander I. Shakhnovich, before me known and known and who executed the foregoing instrument, and executed the same for the purpose therein set forth.	before me personally appearon to me to be the individual descri

Assignment - Page 3 of 4

Fax:978-670-8027

Dec 23 2011 10:50am P005/009

Docket No. <u>2010602</u>

in restimont whereor, i, Quiging	chang, have hereumo ser my hand and
seal	
this day of, 2	
•	
	Qingling Zhang
COMMONWEALTH OF MASSACHUSETTS)
·) ss.
COUNTY OF)
On this day of, 2, 1	before me personally appeared Qingling
Zhang, before me known and known to me to be the	ne individual described herein and who
executed the foregoing instrument, and s/he duly ackr	nowledged to me that s/he executed the
same for the purpose therein set forth.	
	NOTARY PUBLIC
	My Commission Expires:
DI WESTERNOON WITTENESS I I I I I	C N. I
IN TESTIMONY WHEREOF, I, Joseph B.	Carroll, have hereunto set my hand and
seal this 24 day of Octor, 2011.	1/2011
	Jan Comment
	Joseph B. Carroll
•	
COMMONWEALTH OF VIRGINIA)	
COUNTY OF RICHMOND) ss.)
111111111111111111111111111111111111111	,
On this 24th day of October, 2011,	
B. Carroll, before me known and known to me to be	before me personally appeared Joseph the individual described berein and who
executed the foregoing instrument, and s/he duly acki	
same for the purpose therein set forth.	
	Peggy Kind
	NOTARY PUBLIC
	My Commission Expires:
•	Commission No. 116419
	## # # · · · · · · · · · · · · · · · ·

My Commission Expires October 31, 2014

Docket No. 2010602

ASSIGNMENT

WHEREAS, we, Agathagelos Kyrlidis of 20 Second Street, Unit 521, Cambridge, Massachusetts 02141, a citizen of Greece, Alexander I. Shakhnovich of 43 Bradley Road, Arlington, Massachusetts 02474, a citizen of the United States of America, Qingling Zhang of 21 Kenmar Drive, Apt. 15, Billerica, Massachusetts 01821, a citizen of the People's Republic of China, and Joseph B. Carroll of 4920 Saddleridge Court, Glen Allen, Virginia 23059, a citizen of the United States of America, having invented the subject matter described in the U.S. Patent Application entitled "SURFACE MODIFIED ORGANIC BLACK PIGMENTS, SURFACE MODIFIED CARBON BLACKS, PIGMENT MIXTURES USING THEM AND LOW DIELECTRIC BLACK DISPERSIONS, COATINGS, FILMS, BLACK MATRICES, AND DEVICES CONTAINING SAME," the specification of which was filed on October 12, 2011, as United States Patent Application Serial No.13/271,452; 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, Agathagelos Kyrlidis, Alexander I. Shakhnovich, Qingling Zhang and Joseph B. Carroll, 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, re-examination 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 4

PATENT REEL: 027496 FRAME: 0969 CABOT CORPORATION Fax:978-670-8027 Dec 23 2011 10:50am P007/009

Docket No. 2010602

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, Agathagelos Kyrlidis, Alexander I. Shakhnovich, Qingling Zhang and Joseph B. Carroll,

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 4

PATENT 127496 FRAME

Docket No. 2010602

IN TESTIMONY WHEREOF, I, Agathagelo	s Kyrlidis, have hereunto set my hand
and seal this <u>II</u> day of <i>Norember</i> , 2011.	Agathagelos Kyrlidis
COMMONWEALTH OF MASSACHUSETTS	?
COUNTY OF MIDDLESEX) ss.)
On this day of	me to be the individual described herein
IN TESTIMONY WHEREOF, I, Alexander hand and seal this <u>28</u> day of <u>OC+obes</u> , <u>2011</u> .	I. Shakhnovich, have hereunto set my Alexander J. Shaukar; ed Alexander I. Shakhnovich
COMMONWEALTH OF MASSACHUSETTS COUNTY OF MIDDLESEX)) ss.)
On this 28 day of x70BER, 2011. Alexander I. Shakhnovich, before me known and known and who executed the foregoing instrument, and executed the same for the purpose therein set forth. DONNA P. Leblanc Notary Public Commonwealth OF Massachusetts My Commission Expires May 25, 2018	wn to me to be the individual described

CABOT CORPORATION

Fax:978-670-8027

IN TESTIMONY WHEREOF, I, Qingling Zhang, have hereunto set my hand and

Dec 23 2011 10:51am P009/009

Docket No. 2010602

seal	
this 14 day of Nov , $2E/I$.	<u></u>
	Com
	Qingling Zhang
COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF Middle sex) ss.
77.748 75.76	,
On this day of	dividual described herein and who
IN TESTIMONY WHEREOF, I, Joseph B. Carreseal this day of, 2	roll, have hereunto set my hand and
	Joseph B. Carroll
COMMONWEALTH OF VIRGINIA) COUNTY OF) ss.)
On this day of, 2, before B. Carroll , before me known and known to me to be the is executed the foregoing instrument, and s/he duly acknowl same for the purpose therein set forth.	ndividual described herein and who
	NOTARY PUBLIC My Commission Expires:

Assignment - Page 4 of 4

PATENT REEL: 027496 FRAME: 0972

RECORDED: 12/23/2011