Case No.: 60442US010				
RECO	ORDATION FORI			
To: The Director of the U.S. Patent and Tra	ademark Office:			
Please record the attached document(s) or	the new address(es)	below.		
Name of conveying party(ies)	Execution Date(s):	2	. Name and address of receivi	ng party(ies):
KSHIRSAGAR, Tushar A. CELEBI, Azim A. SLANIA, Sarah J. DANIELSON, Michael E. RICE, Michael J.	June 13, 2007 June 20, 2007 June 12, 2007 June 13, 2007 June 11, 2007 June 18, 2007 June 20, 2007		3M Innovative Properties Cor P.O. Box 33427 St. Paul, Minnesota 55133-34 dditional name(s) of receiving party(☐ Yes ☑ No	127
Additional name(s) of conveying party(les) atta ☐ Yes ☑ No	ached?			
3. Nature of conveyance: Assignment				
4. Application or patent number(s)	☐ This docu	ument is	being filed together with a new a	pplication.
A. Patent Application No(s).	'	B. Pate	ent No(s).	
11/813039				
Addit	tional Numbers Attache	ed? 🗌	Yes 🖾 No	
5. Name and address to whom correspond concerning document should be mailed	J.		mber of applications ents involved: 1	
Name: Dean A. Ersfeld Office of Intellectual Property Counsel 3M Innovative Properties Company Phone Number: 651-733-7830 Fax Number: 651-736-3833 32692 Customer Number Cus			count	
9. Signature: Printed Name of Attorney/Agent: Dean A. Ersfeld Registration No.: 46,689	Ven d- Enfo	1	28 Jume 2018	
Pages: Total number of pages including CO\		ents, and	documents	10

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

ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	CHIRAL FUSED [1,2]IMIDAZO [4,5-c] RING COMPOUNDS
\boxtimes	for which an application for a United States Patent is being filed electronically via EFS-Web herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No.; was filed on;
\boxtimes	which application is identified as PCT International Patent Application No. PCT/US2005/047258; filed
	December 29, 2005:

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me/us had this assignment and transfer not been made:

I/We do further agree for myself/ourselves and for my/our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I/we lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle [if any]): George W.	Family Name or Surname: GRIESGRABER	
Inventor's Signature:	Date: June 13,	7007
Residence: Eagan, Minnesota	Country: USA	Citizenship: United States of America
WENDY J. Thompson	Und a special witness	

Assignment

Page 1 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

PATENT REEL: 019503 FRAME: 0362

Invertor's Signature: Witness Date: Woodbury, Minnesota Date: Witness Country: USA Date: Witness Citzenship: Granily Name or Sumame: CELEBI Invertor's Signature: Dete: Paid Alto, California Citzenship: USA Citzenship: United States of America Witness Witness Witness Witness Witness Witness Citzenship: United States of America Date: U13/07 Residence: Eagan, Minnesota Country: USA Citzenship: UsA Citzenship: UsA Citzenship: United States of America Date: U13/07 Country: USA Citzenship: Citzensh	Tushar A.	KSHIRSAGAR	
Residence: Woodbury, Minnesota Country: USA Witness Witness Cliven Name (first and middle [if any]): Azim A. CellEBI Invertor's Signature: Date: Country: USA Citizenship: UsA Citizenship: UsA Citizenship: UsA Citizenship: UsA Citizenship: United States of America Witness Witness Witness Witness Country: UsA Citizenship: United States of America Country: UsA Citizenship: United States of America Country: UsA Citizenship: United States of America Country: UsA Citizenship: United States of America Country: United States of America Country: United States of America Citizenship: United States of America	Inventor's Signature:	Date:	· · · · ·
Witness Witness Witness Civen Name (first and middle [if arvj]): Residence: Palo Alto, California Witness Witness Witness Witness Country: USA Citizenship: United States of America Date: L/13/07 Residence: Residence: Residence: Residence: Country: USA Citizenship: United States of America Witness Country: USA Citizenship: U/13/07 Country: USA Citizenship: United States of America Witness Country: USA Citizenship: United States of America Country: USA Citizenship: United States of America Country: United States of America Country: United States of America Country: United States of America Civen Name (first and middle [if any]): Michael E. Date: Country: USA Citizenship: United States of America Citizenship: United States of America Citizenship: United States of America Country: USA Citizenship: United States of America	Chalun		
Witness Witness Witness Family Name or Surname: CELEBI Inventor's Signature: Date: Residence: Palo Alto, California Witness Witness Witness Witness Witness Witness Country: USA United States of America Date: Liventor's Signature: Liventor's Signature: Residence: Eagan, Minnesota Witness Citizenship: USA Critzenship: USA Critzenship: USA Critzenship: United States of America Country: USA Critzenship: United States of America Date: United States of America Country: USA Critzenship: United States of America Cheen Name (first and middle [if any]): Michael E. Cheen Name (first and middle [if any]): Michael E. Cheen Name (first and middle [if any]): Michael E. Country: USA Citizenship: United States of America Citizenship: USA Citizenship: USA Citizenship: USA Citizenship: USA Citizenship: USA Citizenship: USA Citizenship: United States of America			India U.S. A - 6-22-07
Azim A. CELEBI Inventor's Signature: Date: Residence: Palo Aito, California Witness Witness Witness Witness Given Name (first and middle [if any]): Sarah J. Inventor's Signature: Country: USA Citizenship: U/13/07 Residence: Eagan, Minnesota Country: USA Citizenship: USA Citizenship: United States of America Witness Country: USA Citizenship: United States of America Date: Witness Country: United States of America Country: USA Citizenship: United States of America		Hull M Winess	<u> </u>
Azim A. CELEBI Inventor's Signature: Date: Residence: Palo Aito, California Witness Witness Witness Witness Given Name (first and middle [if any]): Sarah J. Inventor's Signature: Country: USA Citizenship: U/13/07 Residence: Eagan, Minnesota Country: USA Citizenship: USA Citizenship: United States of America Witness Country: USA Citizenship: United States of America Date: Witness Country: United States of America Country: USA Citizenship: United States of America			
Residence: Palo Alto, California Country: USA Citizenship: United States of America Witness Witness Witness Family Name or Surname: SLANIA Inventor's Signature: USA Citizenship: USA Citizenship: USA Citizenship: USA Citizenship: United States of America Witness Citizenship: United States of America Family Name or Surname: Citizenship: United States of America Citizenship: United States of America DANIELSON Inventor's Signature: Citizenship: United States of America Citizenship: UNITED SIGNATURE Citizenship: UNITED States of America			
Palo Alto, California Witness Witness Witness Witness Witness Witness Family Name or Surname: SLANIA Date:	Inventor's Signature:	Date:	
Palo Alto, California Witness Witness Witness Witness Witness Witness Family Name or Surname: SLANIA Date:	Residence:	Country:	Cîtizenship:
Given Name (first and middle [if any]): Sarah J. Inventor's Signature: Residence: Eagan, Minnesota Country: USA Citizenship: United States of America Witness Given Name (first and middle [if any]): Michael E. Residence: DANIELSON Residence: Signature: Country: Date: Country: DANIELSON Citizenship: United States of America Citizenship: United States of America Citizenship: United States of America			United States of America
Sarah J. Inventor's Signature: Eagan, Minnesota Country: USA Citizenship: United States of America Citizenship: DANIELSON Inventor's Signature: Country: USA Citizenship: USA Citizenship: USA Citizenship: USA Citizenship: United States of America	Witness	Witness	
Residence: Eagan, Minnesota Country: USA Citizenship: United States of America Country: United States of America Civen Name (first and middle [if any]): Michael E. Country: Date: Citizenship: Citizenship: Citizenship: Citizenship: Citizenship: USA Citizenship: USA Citizenship: USA Citizenship: USA Citizenship: USA			
Eagan, Minnesota USA United States of America	\sim \sim		
Witness Given Name (first and middle [if any]): Michael E. Inventor's Signature: Residence: St. Paul, Minnesota Family Name or Surname: DANIELSON Family Name or Surname: Country: Date: Citizenship: USA Citizenship: USA United States of America			
Michael E. DANIELSON Inventor's Signature: Date: Residence: Country: Clitizenship: USA United States of America	WEndy L. Thompson		
Michael E. DANIELSON Inventor's Signature: Date: Residence: Country: Clitizenship: USA United States of America			
Residence: St. Paul, Minnesota Country: USA Citizenship: United States of America			
St. Paul, Minnesota USA United States of America	Inventor's Signature:	Date:	
Witness Witness		Country: USA	Citizenship: United States of America
Witness Witness			
	Witness	VVitness	

Page 2 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

Given Name (first and middle [if any]): Michael J.	Family Name or Surname:	
4		<u> </u>
Inventor's Signature:	Date: (-18-2	
Residence: Oakdale, Minnesota	Country: USA	Citizenship: United States of America
Witness Hamilton	July & July	
Given Name (first and middle [if any]): Joshua R.	Family Name or Surname: WURST	
Inventor's Signature Johns Wasso	Date: ZO June 2	2067
Residence: / North St. Paul, Minnesota	Country: USA	Citizenship: United States of America
Witness	July 7 Cyce	li.

ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	CHIRAL FUSED [1,2]IMIDAZO [4,5-c] RING COMPOUNDS
\boxtimes	for which an application for a United States Patent is being filed electronically via EFS-Web herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No.; was filed on;
\boxtimes	which application is identified as PCT International Patent Application No. PCT/US2005/047258; filed
	December 29, 2005;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me/us had this assignment and transfer not been made:

I/We do further agree for myself/ourselves and for my/our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I/we lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle [if any]): George W.	Family Name or Surr GRIESGRABER	
Inventor's Signature:	Date:	
Residence: Eagan, Minnesota	Country: USA	Citizenship: United States of America
Witness	Witness	

Assignment

Given Name (first and middle [if any]): Tushar A.	Family Name or Surname: KSHIRSAGAR	
		~
Inventor's Signature:	Date:	
Residence;	Country:	Citizenship:
Woodbury, Minnesota	USA	India
Witness	Witness	
Given Name (first and middle [if any]):	Family Name or Surname:	
Azim A.	CELEBI	
Inventor's Signature:	Date:	
- Algebri	06/12/07	
Residènce: Palo Ąlto, California	Country: USA	Citizenship: United States of America
Nurtan Kurt Meellels	Antill Nur.	F Colebi
Witness	Witness	
	-	
○ N N (5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Family Mains on Company	
Given Name (first and middle [if any]): Sarah J.	Family Name or Surname: SLANIA	
Sarah J.	SLANIA	Citizenship:
Sarah J. Inventor's Signature:	SLANIA Date:	Citizenship: United States of America
Sarah J. Inventor's Signature: Residence:	SLANIA Date: Country:	
Sarah J. Inventor's Signature: Residence:	SLANIA Date: Country:	
Sarah J. Inventor's Signature: Residence: Eagan, Minnesota	SLANIA Date: Country: USA	
Sarah J. Inventor's Signature: Residence: Eagan, Minnesota	SLANIA Date: Country: USA	
Sarah J. Inventor's Signature: Residence: Eagan, Minnesota Witness Given Name (first and middle [if any]):	SLANIA Date: Country: USA Witness Family Name or Surname:	
Sarah J. Inventor's Signature: Residence: Eagan, Minnesota Witness Given Name (first and middle [if any]): Michael E.	SLANIA Date: Country: USA Witness Family Name or Surname: DANIELSON	United States of America Citizenship:
Sarah J. Inventor's Signature: Residence: Eagan, Minnesota Witness Given Name (first and middle [if any]): Michael E. Inventor's Signature:	SLANIA Date: Country: USA Witness Family Name or Surname: DANIELSON Date:	United States of America
Sarah J. Inventor's Signature: Residence: Eagan, Minnesota Witness Given Name (first and middle [if any]): Michael E. Inventor's Signature: Residence:	SLANIA Date: Country: USA Witness Family Name or Surname: DANIELSON Date: Country:	United States of America Citizenship:
Sarah J. Inventor's Signature: Residence: Eagan, Minnesota Witness Given Name (first and middle [if any]): Michael E. Inventor's Signature: Residence:	SLANIA Date: Country: USA Witness Family Name or Surname: DANIELSON Date: Country:	United States of America Citizenship:

Page 2 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

Given Name (first and middle [if any]): Michael J.	Family Name or Surname:	
Inventor's Signature:	Date:	
Residence: Oakdale, Minnesota	Country: USA	Citizenship: United States of America
Witness	Witness	
Given Name (first and middle [if any]): Joshua R.	Family Name or Surname: WURST	
Inventor's Signature:	Date:	
Residence:	Country:	Citizenship:
North St. Paul, Minnesota	USA	United States of America
Witness	Witness	

Page 3 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	CHIRAL FUSED [1,2]IMIDAZO [4,5-c] RING COMPOUNDS	ļ
\boxtimes	for which an application for a United States Patent is being filed electronically via EFS-Web herewith;	
	for which an application for a United States Patent identified as U.S. Patent Application No.; was filed on;	
X	which application is identified as PCT International Patent Application No. PCT/US2005/047258; filed	
	December 29, 2005;	

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me/us had this assignment and transfer not been made;

I/We do further agree for myself/ourselves and for my/our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I/we lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle [if any]): George W.	Family Name or Surname: GRIESGRABER	
Inventor's Signature:	Date:	
Residence: Eagan, Minnesota	Country: USA	Citizenship: United States of America
Witness	Witness	

Assignment

Page 1 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

> PATENT REEL: 019503 FRAME: 0368

Tushar A.	KSHIRSAGAR	; -
Inventor's Signature:	Date:	. ,
Residence: Woodbury, Minnesota	Country; USA	Citizenship: India
Witness	Witness	
Given Name (first and middle [if any]): Azim A.	Family Name or Surname CELEBI	:
Inventor's Signature:	Date:	
Residence: Palo Alto, California	Country: USA	Citizenship: United States of America
Witness	Witness	
Given Name (first and middle [if any]): Sarah J.	Family Name or Surname SLANIA	:
Inventor's Signature:	Date:	
Residence; Eagan, Minnesota	Country: USA	Citizenship: United States of America
Witness	Witness	
		<u> </u>
Given Name (first and middle [if any]): Michael E.	Family Name or Surname DANIELSON	
Inventor's Signature:	Date: 1 11/07	
Residence St. Paul, Minnesota	Country: USA	Citizenship: United States of America
Hatta Hours	Mitness Vitness	g>

Page 2 of 3 3M Innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

Given Name (first and middle [if any]): Michael J.	Family Name or Surname:	
iviichaei J.	RICE	
Inventor's Signature:	Date:	
Residence:	Country:	Citizenship:
Oakdale, Minnesota	USA	United States of America
		<u> </u>
Witness	Witness	
Given Name (first and middle [if any]):	L Comilly Nome on Cure	
Joshua R.	Family Name or Surname: WURST	
Inventor's Signature:	Date:	
Residence:	Country:	Citizenship:
North St. Paul, Minnesota	USA	United States of America
		<u>'</u>
	Witness	
Witness	Witness	

RECORDED: 06/28/2007

Page 3 of 3 - 3M innovative Properties Company, P. O. Box 33427, St. Paul, MN 55133-3427

Case No.: 60442US010

PATENT REEL: 019503 FRAME: 0370