# 503349380 06/15/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3396000

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ANN R. FORNOF	04/28/2015
WILLIAM H. MOSER	04/28/2015
LARRY R. KREPSKI	04/28/2015
GUY D. JOLY	06/03/2015
AHMED S. ABUELYAMAN	05/06/2015
AFSHIN FALSAFI	04/28/2015
BABU N. GADDAM	04/28/2015

#### **RECEIVING PARTY DATA**

Name:	3M INNOVATIVE PROPERTIES COMPANY	
Street Address:	P.O. BOX 33427	
City:	ST. PAUL	
State/Country:	MINNESOTA	
Postal Code:	55133-3427	

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

Property Type	Number
Application Number:	14652134

#### **CORRESPONDENCE DATA**

503349380

**Fax Number:** (651)736-3833

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:** 651-733-1500

Email: cmwagner01@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: PO BOX 33427

Address Line 4: ST. PAUL, MINNESOTA 55133-3427

ATTORNEY DOCKET NUMBER:	71182US004
NAME OF SUBMITTER:	COLLEEN M. WAGNER
SIGNATURE:	/Colleen M. Wagner/
DATE SIGNED:	06/15/2015

This document serves as an Oath/Declaration (37 CFR 1.63).

## **Total Attachments: 7**

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Case No:

71182US004

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:

app	lication and for which	ch a patent is sought on the inventi	on entitled:	
		ADDITION-FRAGMEI	O MOITATV	.igomers
The	specification of wh	ich:		
	is attached hereto	)'s		
	was filed on as United States A	Application No.		
	ie identified se PC	T International Application No.		PCT/US2013/072250
Y.J.	filed on	November 27, 2013		7 000 000 000
The	above-identified ap	oplication was made or authorized	to be made by	me.
		that any willful false statement mad not more than 5 years, or both.	le in this declar	ation is punishable under 18 U.S.C. 1001 by
3M ass con by retermall their contents own the contents o	COMPANY, and a cigns, the entire right itinuation (in whole come or made jointly wonders Patent, reexcreto (including the rimanational conventionational conventionation (in whole component or the said inverse been by me had to the said inverse	corporation of Delaware, having its t, title, and interest in and to the sa or in part) of said application, and is with others (provided any such import iloyment with 3M COMPANY and a aminations, reissues, or extensional ight to apply for Letters Patent, Utili n any priority rights for such foreign ns, treaties, or otherwise), which had or in part), renewal, reexamination, intion or improvements thereon, to this assignment and transfer not be	principal office id invention and n and to any ar rovement is ma iny of its existir is thereof, of the ity Models, or I applications to ave been or ma reissue, or oth be held and en een made;	TES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and displication, and in and to any division or ad all improvements in the said invention made ade during, or within one year after the ag or future subsidiaries), and in and to any and United States of America and countries foreign eventors' Certificates in foreign countries in its which such applications are entitled under by be granted thereon or on any divisional, are or further application based in whole or in joyed as fully and exclusively as they would
con that and	isideration any furth t may be deemed no	er applications, assignments, and ecessary by said Company, its suc	documents, an cessors, assigi	ors, to execute and deliver without further d to perform such other acts as I lawfully may, ns, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and all
gra		e said applications, to said 3M Inno		any and all Letters Patent which may be les Company, as the assignee of the entire right
Le	gal Name of Invent	Of:	njuuruurus saasaa saasaa saasaa saasaa saasaa saasaa	
	nn R. Fornof			0.000
in	ventor's Signature		Date:	28 15

Case No:

71182US004

	ADDITION-FRAGMENT	TATION OLIGOMERS
The specification of whic	h:	
is attached hereto;		
was filed on		
as United States Ap	plication No.	
	International Application No. November 27, 2013	PCT/US2013/072250
The above-identified app	dication was made or authorized to	be made by me.
	at any willful false statement made oot more than 5 years, or both.	in this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign an 3M COMPANY, and a coassigns, the entire right, continuation (in whole or by me or made jointly will termination of, my emploall Letters Patent, reexarthereto (including the rigiown name and to claim a international conventions continuation (in whole or part upon the said inventional to the sai	of transfer unto the 3M INNOVATIVE or poration of Delaware, having its partitle, and interest in and to the said in part) of said application, and in a strong the content of the said application, and in a strong that the said and the said	
consideration any further that may be deemed neo	r applications, assignments, and do cessary by said Company, its succe	d administrators, to execute and deliver without further ocuments, and to perform such other acts as I lawfully may, assors, assigns, and nominees, fully to secure its right, title, Patent, Utility Models, or Inventors' Certificates in any and all
I do hereby authorize an granted upon any of the title, and interest therein	said applications, to said 3M Innov	ents to issue any and all Letters Patent which may be ative Properties Company, as the assignee of the entire right
Legal Name of Inventor	77.	
William H. Moser		× × × × × × × × × × × × × × × × × × ×
Inventor's Signature:		Date:
WWW B	Mon	4/28/2015

Case No:

71182US004

application and for w	vhich a patent is sought on the inve		
	ADDITION-FRAGN	ENTATION	OLIGONERS
The specification of	which:		
is attached hen	eto;		
was filed on	es Application No.		
	PCT International Application No. November 27, 2013		PCT/US2013/072250
The above-identified	l application was made or authorize	ed to be made b	by me.
fine or imprisonment In addition, for good and do hereby assig 3M COMPANY, and assigns, the entire ri continuation (in who by me or made joints termination of, my er all Letters Patent, re thereto (including the own name and to cla international convent continuation (in who) part upon the said in have been by me ha	and valuable consideration, receip and valuable consideration, receip in and transfer unto the 3M INNOV a corporation of Delaware, having ght, title, and interest in and to the le or in part) of said application, and by with others (provided any such in in ployment with 3M COMPANY and examinations, reissues, or extensi- e right to apply for Letters Patent, to aim any priority rights for such fore- tions, treaties, or otherwise), which le or in part), renewal, reexamination in this assignment and transfer not	It of which is ack ATIVE PROPER its principal offication and to any and to any any of its existence thereof, of the light one thereof, of the light of the leen or not be held and and and and and and and and and an	knowledged, I have agreed to assign and transfer RTIES COMPANY, a wholly-owned subsidiary of lice at Saint Paul, Minnesota, its successors and and application, and in and to any division or and all improvements in the said invention made nade during, or within one year after the sting or future subsidiaries), and in and to any and he United States of America and countries foreign r Inventors' Certificates in foreign countries in its to which such applications are entitled under may be granted thereon or on any divisional, other or further application based in whole or in enjoyed as fully and exclusively as they would
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	the said applications, to said 3M It		ue any and all Letters Patent which may be erties Company, as the assignee of the entire righ
Legal Name of Inve	autor:		
Larry R. Krepsi	Ki		
Inventor's Signature	<u></u>	Date:	
Lan	LR. Kepshi	ap	m:128,2015

Case No:

71182US004

	ADDITION-FRAGMEN	ITATION OLIGOMERS	
The specification of w	/hich:		
is attached here	to;		
☐ was filed on as United States	Application No.		
is identified as P	CT International Application No. November 27, 2013	PCT/US2013/072250	
The above-identified	application was made or authorized to	o be made by me.	
I hereby acknowledge fine or imprisonment	e that any wiliful false statement made of not more than 5 years, or both.	e in this declaration is punishable under 18 U.S.C. 1001 t	эу
and do hereby assign 3M COMPANY, and a assigns, the entire rig continuation (in whole by me or made jointly termination of, my errall Letters Patent, ree thereto (including the own name and to clai international conventicontinuation (in whole part upon the said inv	and transfer unto the 3M INNOVATI's corporation of Delaware, having its thit, title, and interest in and to the said or in part) of said application, and in with others (provided any such impropropriet with 3M COMPANY and are examinations, reissues, or extensions right to apply for Letters Patent, Utility many priority rights for such foreign and the part), renewal, reexamination, and or in part), renewal, reexamination, and control of the part).	which is acknowledged, I have agreed to assign and trar VE PROPERTIES COMPANY, a wholly-owned subsidiar principal office at Saint Paul, Minnesota, its successors a divention and application, and in and to any division or and to any and all improvements in the said invention movement is made during, or within one year after the my of its existing or future subsidiaries), and in and to any thereof, of the United States of America and countries for Models, or Inventors' Certificates in foreign countries in applications to which such applications are entitled under we been or may be granted thereon or on any divisional, reissue, or other or further application based in whole or be held and enjoyed as fully and exclusively as they would be made;	y of and ade and reign its
consideration any furt that may be deemed	ther applications, assignments, and di necessary by said Company, its succ	nd administrators, to execute and deliver without further locuments, and to perform such other acts as I lawfully messors, assigns, and nominees, fully to secure its right, to Patent, Utility Models, or Inventors' Certificates in any an	ay, tie,
I do hereby authorize granted upon any of t title, and interest then	he said applications, to said 3M Innov	itents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire	righi
Legal Name of Inver	ntor:		-
Guy D. Joly			coccoops.
Inventor's Signature	: > 1. John	Date: 03-70/5	annummum and a second

Case No:

71182US004

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:

aph	incation and for will	cn a patent is sought on the invention	ж еншес.	
		ADDITION-FRAGMEN	ITATION O	LIGOMERS
The	specification of wh	nich:		
	is attached hereto	<b>)</b> ;		
	was filed on as United States	Application No.		
$\boxtimes$	is identified as PC filed on	T International Application No. November 27, 2013		PCT/US2013/072250
The	above-identified a	pplication was made or authorized t	o be made by	me.
		that any willful false statement mad f not more than 5 years, or both.	e in this decla	ration is punishable under 18 U.S.C. 1001 by
and 3M assi conf by n term all L ther conf intel conf hav  I do con that and cou I do grar	do hereby assign a COMPANY, and a gns, the entire right finuation (in whole ne or made jointly values of matters Patent, reex eto (including the raname and to claim mational convention tinuation (in whole upon the said inverse been by me had further agree for may be deemed no interest as aforesantries; and	and transfer unto the 3M INNOVATI corporation of Delaware, having its of title, and interest in and to the sail or in part) of said application, and in with others (provided any such improvious aminations, reissues, or extensions ight to apply for Letters Patent, Utility any priority rights for such foreignins, treaties, or otherwise), which have in part), renewal, reexamination, ention or improvements thereon, to be this assignment and transfer not be a seriously by said Company, its such and to obtain or maintain Letters and request the Commissioner of Patend Registers and request the Commissioner of Patend Registers and R	VE PROPER' principal office d invention and and to any all ovement is many of its existing thereof, of the ty Models, or I applications to the been or many the held and er th	owledged, I have agreed to assign and transfer ITES COMPANY, a wholly-owned subsidiary of a at Saint Paul, Minnesota, its successors and d application, and in and to any division or ad all improvements in the said invention made used during, or within one year after the ag or future subsidiaries), and in and to any and a United States of America and countries foreign eventors' Certificates in foreign countries in its owhich such applications are entitled under any be granted thereon or on any divisional, her or further application based in whole or in applying as fully and exclusively as they would tors, to execute and deliver without further d to perform such other acts as I lawfully may, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and all any and all Letters Patent which may be ies Company, as the assignee of the entire righting the secure is the entire righties.
Le	gal Name of Invent	or:		
	nmed S. Abuely			······································
Inv	rentor's Signature:		Date:	
ś	ald su	welgenen		-6-2015

Case No:

71182US004

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:

	ADDITION-FRAGM	ENTATION O	LIGOMERS
The specification of v	vhich:		
is attached here	eto;		
was filed on as United State	s Application No.		
is identified as F	PCT International Application No. November 27, 2013		PCT/US2013/072250
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and do hereby assign 3M COMPANY, and assigns, the entire riccontinuation (in whole by me or made joint) termination of, my enall Letters Patent, recthereto (including the own name and to clainternational convent continuation (in whole part upon the said in	n and transfer unto the 3M INNOV, a corporation of Delaware, having ght, title, and interest in and to the e or in part) of said application, any with others (provided any such in apployment with 3M COMPANY and examinations, reissues, or extensice right to apply for Letters Patent, Lim any priority rights for such foreitions, treaties, or otherwise), which e or in part), renewal, reexamination	ATIVE PROPER its principal offic said invention ard in and to any a mprovement is made any of its existions thereof, of the Jtility Models, or ign applications to have been or mon, reissue, or ot to be held and elications to be held and elications to the said and elications to the said and elications to be held and elications to be held and elications to the said and elications are said to be held and elication are said to be said and elication and elications are said to be said and elication are said to be said and elication are said to be said and elication are said to said and elication are said to said and elication are said are said and elication are said	nowledged, I have agreed to assign and transfer TIES COMPANY, a wholly-owned subsidiary of e at Saint Paul, Minnesota, its successors and ad application, and in and to any division or all improvements in the said invention made ade during, or within one year after the ag or future subsidiaries), and in and to any and e United States of America and countries foreign Inventors' Certificates in foreign countries in its owhich such applications are entitled under ay be granted thereon or on any divisional, her or further application based in whole or in nijoyed as fully and exclusively as they would
consideration any fur that may be deemed	ther applications, assignments, ar necessary by said Company, its s	nd documents, ar successors, assig	ators, to execute and deliver without further and to perform such other acts as I lawfully may, and nominees, fully to secure its right, title, and models, or Inventors' Certificates in any and all
	the said applications, to said 3M Ir		e any and all Letters Patent which may be ties Company, as the assignee of the entire righ
Legal Name of Inve	ntor:		
Afshin Falsafi			
Inventor's Signature	3: <u>/</u>	Date	
MI	Glid 1	4/24	R/15

is identified as PCT International Application No.

filed on

Case No:

PCT/US2013/072250

71182US004

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:			
ADDITION-FRAGMENTATION O	LIGOMERS		
The specification of which:			
is attached hereto;			
was filed on as United States Application No.			

The above-identified application was made or authorized to be made by me.

November 27, 2013

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both.

In addition, for good and valuable consideration, receipt of which is acknowledged, I 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 had this assignment and transfer not been made;

I do further agree for myself and for my 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 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 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.

Legal Name of Inventor:	
Babu N. Gaddam	
Inventor's Signature:	Date:
Labu n. Gaddam	hf - iù 8° - 15°

PATENT REEL: 035902 FRAME: 0150

RECORDED: 06/15/2015