503421998 08/04/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3468632

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNEE INCORRECTLY RECORDED AS DESCO INDUSTRIES INC. previously recorded on Reel 036134 Frame 235. Assignor(s) hereby confirms the CORRECT ASSIGNEE AS 3M INNOVATIVE PROPERTIES COMPANY AS REFLECTED ON THE EXECUTED ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
QINFEI CHEN	01/28/2015
CHEE MING NG	01/28/2015
KAM POI CHIA	01/28/2015
JOHN ZENON G. VALLINAN	01/30/2015
YOSHIAKI SATO	01/28/2015
SIARHEI V. SAVICH	02/17/2015

RECEIVING PARTY DATA

Name:	3M INNOVATIVE PROPERTIES COMPANY		
Street Address:	3M CENTER		
City:	SAINT PAUL		
State/Country:	MINNESOTA		
Postal Code:	55144		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14429920

CORRESPONDENCE DATA

Fax Number: (503)439-6558

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: 503 439-6500

Email: DOCKETING@BLTG-IP.COM

Correspondent Name: BERKELEY LAW & TECHNOLOGY GROUP, LLP

Address Line 1: 17933 NW EVERGREEN PARKWAY,

Address Line 2: SUITE 250

Address Line 4: BEAVERTON, OREGON 97006

ATTORNEY DOCKET NUMBER: 231.P026PCTUS

NAME OF SUBMITTER: TERRI FULLER

PATENT 503421998 REEL: 036266 FRAME: 0238

SIGNATURE:	/TERRI FULLER/
DATE SIGNED:	08/04/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 11	
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source=Assignments#page3.tif	
source=Assignments#page4.tif	
source=Assignments#page5.tif	
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Electronic Patent Assignment System

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Your assignment has been received by the USPTO. The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
QINFEI CHEN	01/28/2015
CHEE MING NG	01/28/2015
KAM POI CHIA	01/28/2015
JOHN ZENON G. VALLINAN	01/30/2015
YOSHIAKI SATO	01/28/2015
SIARHEI V. SAVICH	02/17/2015

RECEIVING PARTY DATA

Name:	DESCO INDUSTRIES, INC.
Street Address:	3651 WALNUT AVENUE
City:	CHINO
State/Country:	CALIFORNIA
Postal Code:	91710

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14429920

PATENT REEL: 036266 FRAME: 02402015 11:37 AM

CORRESPONDENCE DATA

 Fax Number:
 (503)439-6558

 Phone:
 503-439-6500

 Email:
 docketing@bltg-ip.com

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Address Line 1: 17933 NW EVERGREEN PARKWAY, SUITE 250

Address Line 4: BEAVERTON, OREGON 97006

ATTORNEY DOCKET NUMBER:	231.P026PCTUS
NAME OF SUBMITTER:	TERRI FULLER
Signature:	/TERRI FULLER/
Date:	07/20/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6

source=Declaration-Assignment_signed_70786US004#page1.tif source=Declaration-Assignment_signed_70786US004#page2.tif source=Declaration-Assignment_signed_70786US004#page3.tif source=Declaration-Assignment_signed_70786US004#page4.tif source=Declaration-Assignment_signed_70786US004#page5.tif source=Declaration-Assignment_signed_70786US004#page6.tif

RECEIPT INFORMATION

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 PAT3445688

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 07/20/2015

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PATENT REEL: 036266 FRAME: 02412015 11:37 AM

Case No:

70786US004

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:

	IONIZER WITH A N	EEDLE CLEAM	NING DEVICE
The specification of v	which:		
is attached here	to;		
was filed on as United State:	Application No.		
is identified as F	PCT International Application No. February 27, 2013		PCT/US2013/027974
The above-identified	application was made or authoriz	ted to be made by	me,
fine or imprisonment In addition, for good and do hereby assign 3M COMPANY, and assigns, the entire rig continuation (in whole by me or made jointly termination of, my en all Letters Patent, rec thereto (including the own name and to cla international convent continuation (in whole part upon the said in	of not more than 5 years, or both and valuable consideration, receing and transfer unto the 3M INNON a corporation of Delaware, having the fitter, and interest in and to the or in part) of said application, and with others (provided any such inployment with 3M COMPANY are examinations, reissues, or extensing the apply for Letters Patent, im any priority rights for such fore ions, treaties, or otherwise), which or in part), renewal, reexaminations.	pt of which is acknown to the principal office said invention are improvement is mind any of its existitions thereof, of the Utility Models, or it have been or mind, reissue, or of the to be held and ender the principal of the	nowiedged, I have agreed to assign and transfer TIES COMPANY, a wholly-owned subsidiary of a saint Paul, Minnesota, its successors and application, and in and to any division or and all improvements in the said invention made ade during, or within one year after the ng or future subsidiaries), and in and to any and a United States of America and countries foreign inventors' Certificates in foreign countries in its o which such applications are entitled under tay be granted thereon or on any divisional, her or further application based in whole or in njoyed as fully and exclusively as they would
consideration any fur	ther applications, assignments, a necessary by said Company, its	ind documents, ar successors, assic	ators, to execute and deliver without further nd to perform such other acts as I lawfully may, gns, and nominees, fully to secure its right, title, y Models, or Inventors' Certificates in any and all
I do hereby authorize granted upon any of title, and interest the	the said applications, to said 3M	of Palents to issue Innovative Proper	e any and all Letters Patent which may be ties Company, as the assignee of the entire right,
Legal Name of Inve	ntor.	***************************************	
Qinfei Chen			
Inventor's Signature	<u> </u>	Date:	3
1			28/215

Case No:

70786US004

	IONIZER WITH A NEED	LE CLEAN	IING DEVICE	
The specification of wh	ich:			
is attached hereto	,			
☐ was filed on as United States /	(Application No.			
is identified as PC filed on	T International Application No. February 27, 2013		PCT/US2013/027974	****
The above-identified a	oplication was made or authorized to	be made by i	me.	
I hereby acknowledge fine or imprisonment of	that any willful false statement made not more than 5 years, or both.	e in this declar	ration is punishable under 18 U.S.C. 1001 b	у
3M COMPANY, and a assigns, the entire righ continuation (in whole by me or made jointly vitermination of, my empall Letters Patent, reex thereto (including the richernational conventio continuation (in whole part upon the said inverbave been by me had to do further agree for my consideration any furth	corporation of Delaware, having its part, title, and interest in and to the sald or in part) of said application, and in with others (provided any such improsonment with 3M COMPANY and are aminations, reissues, or extensions ght to apply for Letters Patent, Utility any priority rights for such foreign and priority rights for such foreign and in part), renewal, reexamination, and begins assignment and transfer not beginself and for my heirs, executors, and of applications, assignments, and differences.	principal office I invention and and to any and wement is many of its existing thereof, of the y Models, or in applications to we been or many en eld and enjud en made; and administration ocuments, and	TIES COMPANY, a wholly-owned subsidiar e at Saint Paul, Minnesota, its successors a id application, and in and to any division or no all improvements in the said invention mand ade during, or within one year after the ing or future subsidiaries), and in and to any e United States of America and countries for Inventors' Certificates in foreign countries in the which such applications are entitled under ay be granted thereon or on any divisional, her or further application based in whole or in injoyed as fully and exclusively as they would thors, to execute and deliver without further and to perform such other acts as I lawfully mand and nominees, fully to secure its right, ti	nd ade and reign its in t
and interest as aforese countries; and	id and to obtain or maintain Letters	Patent, Utility	Models, or Inventors' Certificates in any an	d all
granted upon any of th title, and interest there	e said applications, to said 3M innov n.	tents to issue /ative Properti	e any and all Letters Patent which may be ties Company, as the assignee of the entire	right
Legal Name of Invent	or:			o de la constante
Inventor's Signature:		Date:		
on	7	James	lary 28, 2015	

DECLARATION AND ASSIGNMENT,	
FOR UTILITY OR DESIGN	
PATENT APPLICATION (37 CFR § 1.63	

Case No:

70786US004

As a	a below name	d inventor,	I believe l	am an	original	inventor	oran	original	joint	inventor	of a	claimed	invention	r in the
аррі	lication and fo	r which a p	atent is so	ught or	the inv	ention er	ıtltled:							

			;				
		rentor, I believe I am an or sich a patent is sought on the			inal joint	inventor of a claimed invention in	ı the
		IONIZER WITH	A NEEDLE CL	EAN	ING DE	VICE	
The	specification of wi	hich:					
	is attached heret	o;					
	was filed on				·		
	as United States	Application No.					
Ø	is identified as Po	CT International Application	n No.		PCT/U	S2013/027974	
	filed on	February 27, 2013]			
The	above-identified a	application was made or au	thorized to be mad	de by i	me.		
		that any willful false state of not more than 5 years, o		declan	ation is p	unishable under 18 U.S.C. 1001 t	Þγ
and 3M assi con	do hereby assign COMPANY, and a gns, the entire rigi linuation (in whole	and transfer unto the 3M I a corporation of Delaware, I ht, title, and interest in and or in part) of said applicati	NNOVATIVE PRO naving its principal to the said invention on, and in and to a	PERT office on and iny an	IES CON at Saint I d applicati d all impr	, I have agreed to assign and trai IPANY, a wholly-owned subsidiar Paul, Minnesota, its successors a ion, and in and to any division or ovements in the said invention m	y of ind

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.

1		yssassaminiskinsuskaltinsuskal
	Legal Name of Inventor:	
San Personal Property lies	Kam Poi Chia	
and or the line	Inventor's Signature:	Date:
Commenter Commenter of the Comment	Chia Lamba	Jan 28, 2015

Case No:

70786US004

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:

	IONIZER WITH A NEED	LE CLEANIN	IG DEVICE
The specification of			
is attached her			
was filed on as United State	es Application No.		
is identified as filed on	PCT International Application No. February 27, 2013		PCT/US2013/027974
The above-identified	d application was made or authorized to	o be made by me	Q.
	ge that any willful false statement made t of not more than 5 years, or both.	in this declarati	on is punishable under 18 U.S.C. 1001 by
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granted upon any of title, and interest the	the said applications, to said 3M Innov	stive Properties	Company, as the assignee of the entire righ
Legal Name of Inve			
John Zenon G.	Vallinan	And the second	
Inventor's Signatur	nhumm	Date:	January, 2015

Case No:

70786US004

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:

	IONIZER WITH A NEEDL	E CLEANING DEVICE
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was filed on as United State	es Application No.	
is identified as filed on	PCT International Application No. February 27, 2013	PCT/US2013/027974
The above-identified	d application was made or authorized to t	e made by me.
	ge that any willful false statement made i t of not more than 5 years, or both.	n this declaration is punishable under 18 U.S.C. 1001 by
assigns, the entire recontinuation (in who by me or made joint bermination of, my eall Letters Patent, rethereto (including though and to do nternational convertional in who part upon the said in ave been by me half of further agree for the said in the continuation of the said in the continuation of the said in the continuation (in who been by me half of further agree for the continuation).	ight, title, and interest in and to the said in all or in part) of said application, and in all ty with others (provided any such improvemptoyment with 3M COMPANY and any sexaminations, reissues, or extensions the right to apply for Letters Patent, Utility faim any priority rights for such foreign applicant, treaties, or otherwise), which have alle or in part), renewal, reexamination, reinvention or improvements thereon, to be ad this assignment and transfer not been in myself and for my heirs, executors, and	administrators, to execute and deliver without further
hat may be deemed	f necessary by said Company, its succes	uments, and to perform such other acts as I lawfully may, sors, assigns, and nominees, fully to secure its right, title, stent, Utility Models, or Inventors' Certificates in any and all
do hereby authoriz granted upon any of little, and interest the	f the said applications, to said 3M Innoval	nts to issue any and all Letters Patent which may be tive Properties Company, as the assignee of the entire right
Legal Name of Invi		
Siarhel V. Savi Inventor's Signatur		Jale: Feb. 17,2015

Case No:

70786US004

	IONIZER WITH A	A NEEDLE CLE	ANING DEVICE	90 . 60 . 60 .	<u></u>
The specification of w	hich:	- Angel			
is attached here!	0. 0.				
☐ was filed on	**************************************				
as United States	Application No.				
⊠ is identified as P	CT International Application	ı No	PCT/US201	3/027974	
filed on	February 27, 2013	20.35			
The above-identified :	application was made or aut	lhorized to be made	by me.		
fine or imprisonment of addition, for good a sand do hereby assign 3M COMPANY, and a assigns, the entire rig continuation (in whole by me or made jointly termination of, my emall Letters Patent, ree thereto (including the own name and to clain international conventionation (in whole continuation (in whole continuation).	that any willful false statem of not more than 5 years, or not valuable consideration, and transfer unto the 3M In a corporation of Delaware, he in title, and interest in and the or in part) of said application with others (provided any sployment with 3M COMPAN examinations, reissues, or exight to apply for Letters Parm any priority rights for suctions, treaties, or otherwise), or in part), renewal, reexamention or improvements the	both. receipt of which is a INOVATIVE PROP- laving its principal or to the said invention on, and in and to an such improvement is IY and any of its ex- ktensions thereof, or tent, Utility Models, in foreign application which have been or mination, reissue, or	icknowledged, I hat ERTIES COMPAN ffice at Saint Paul, I and application, a I and all improvent I made during, or w I sting or future sub I the United States or Inventors' Certifies I to which such as I may be granted tit I other or further as	ve agreed to as Y, a wholly-own Minnesota, its ind in and to an itents in the said within one year isidiaries), and of America and of America and optications are on optication based	ssign and transfer ned subsidiary of successors and y division or I invention made after the in and to any and I countries foreigr n countries in its entitled under ny divisional, I in whole or in
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PATENT ASSIGNMENT COVER SHEET

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RECORDED: 08/04/2015 REEL: 036266 FRAME: 0248