

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Barry S. Carpenter</td> <td>07/29/2013</td> </tr> <tr> <td>Ryan C. Shirk</td> <td>07/29/2013</td> </tr> <tr> <td>Robert J. DeVoe</td> <td>07/29/2013</td> </tr> <tr> <td>James C. Novack</td> <td>07/29/2013</td> </tr> </tbody> </table>		Name	Execution Date	Barry S. Carpenter	07/29/2013	Ryan C. Shirk	07/29/2013	Robert J. DeVoe	07/29/2013	James C. Novack	07/29/2013
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Barry S. Carpenter	07/29/2013										
Ryan C. Shirk	07/29/2013										
Robert J. DeVoe	07/29/2013										
James C. Novack	07/29/2013										
RECEIVING PARTY DATA											
Name:	3M INNOVATIVE PROPERTIES COMPANY										
Street Address:	P.O. BOX 33427										
City:	SAINT PAUL										
State/Country:	MINNESOTA										
Postal Code:	55133-3427										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13982866</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13982866						
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CORRESPONDENCE DATA											
Fax Number:	6517363833										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	651-733-1500										
Email:	pjbick@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:	67266US012										
NAME OF SUBMITTER:	Paula J. Bick										
Signature:	/Paula J. Bick/										

Date:

07/31/2013

Total Attachments: 2

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ASSIGNMENT OF APPLICATION

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

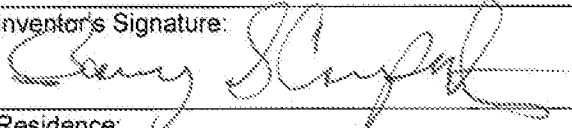
NOZZLE AND METHOD OF MAKING SAME

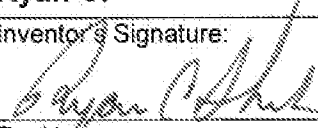
- for which an application for a United States Patent is being filed contemporaneously herewith;
- for which an application for a United States Patent identified as U.S. Patent Application No. , was filed on ;
- which application is identified as PCT International Patent Application No. PCT/US2012/023624; filed February 2, 2012;


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;

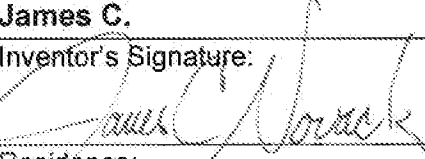
I/We do further agree for myself/ourselves and for my/our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I/we lawfully may, that may be deemed necessary by said Company, 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.

Given Name (first and middle [if any]): Barry S.	Family Name or Surname: Carpenter	
Inventor's Signature: 	Date: 7/29/13	
Residence: Oakdale, Minnesota	Country: USA	Citizenship: United States of America

Given Name (first and middle [if any]): Ryan C.	Family Name or Surname: Shirk	
Inventor's Signature: 	Date: 7/29/13	
Residence: Mendota Heights, Minnesota	Country: USA	Citizenship: United States of America

Given Name (first and middle [if any]): Robert J.	Family Name or Surname: DeVoe	
Inventor's Signature: 	Date: 7/29/13	
Residence: Mahtomedi, Minnesota	Country: USA	Citizenship: United States of America

Given Name (first and middle [if any]): James C.	Family Name or Surname: Novack	
Inventor's Signature: 	Date: 29 July 2013	
Residence: Hudson, Wisconsin	Country: USA	Citizenship: United States of America