

## 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>Joachim W. Zech</td> <td>09/14/2011</td> </tr> <tr> <td>Thomas Klettke</td> <td>09/13/2011</td> </tr> <tr> <td>Sebastian Zeller</td> <td>11/20/2011</td> </tr> <tr> <td>Bernd Kuppermann</td> <td>09/15/2011</td> </tr> <tr> <td>Hendrik Grupp</td> <td>09/14/2011</td> </tr> </tbody> </table>		Name	Execution Date	Joachim W. Zech	09/14/2011	Thomas Klettke	09/13/2011	Sebastian Zeller	11/20/2011	Bernd Kuppermann	09/15/2011	Hendrik Grupp	09/14/2011
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>3M Innovative Properties Company</td> </tr> <tr> <td>Street Address:</td> <td>3M Center</td> </tr> <tr> <td>Internal Address:</td> <td>P.O. Box 33427</td> </tr> <tr> <td>City:</td> <td>Saint Paul</td> </tr> <tr> <td>State/Country:</td> <td>MINNESOTA</td> </tr> <tr> <td>Postal Code:</td> <td>55133-3427</td> </tr> </table>		Name:	3M Innovative Properties Company	Street Address:	3M Center	Internal Address:	P.O. Box 33427	City:	Saint Paul	State/Country:	MINNESOTA	Postal Code:	55133-3427
Name:	3M Innovative Properties Company												
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PROPERTY NUMBERS Total: 2													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13384611</td> </tr> <tr> <td>PCT Number:</td> <td>US1042405</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13384611	PCT Number:	US1042405						
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Application Number:	13384611												
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CORRESPONDENCE DATA													
Fax Number:	(651)736-3833												
Phone:	(651)737-4021												
Email:	lekraft@mmm.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	Lynnda Kraft												
Address Line 1:	3M Center												
Address Line 2:	P.O. Box 33427												
Address Line 4:	Saint Paul, MINNESOTA 55133-3427												

CH \$80.00 13384611

ATTORNEY DOCKET NUMBER:	63502US005
NAME OF SUBMITTER:	Lynnda Kraft
<b>Total Attachments: 6</b> source=Assignment_signed_63502US005#page1.tif source=Assignment_signed_63502US005#page2.tif source=Assignment_signed_63502US005#page3.tif source=Assignment_signed_63502US005#page4.tif source=Assignment_signed_63502US005#page5.tif source=Assignment_signed_63502US005#page6.tif	

**ASSIGNMENT OF APPLICATION**

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

CATIONICALLY HARDENABLE DENTAL COMPOSITION, PROCESS OF PRODUCTION AND USE THEREOF

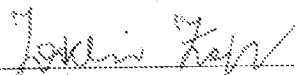
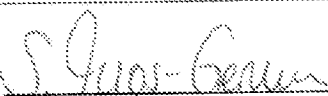

- ☐ for which an application for a United States Patent is being filed contemporaneously herewith;
- ☐ for which an application for a United States Patent identified as U.S. Patent Application No. , was filed on ;
- ☒ which application is identified as PCT International Patent Application No. PCT/US2010/042405; filed July 19, 2010;

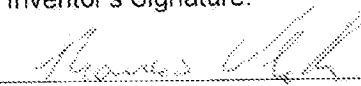

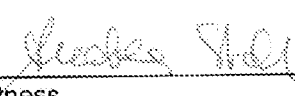
Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office 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

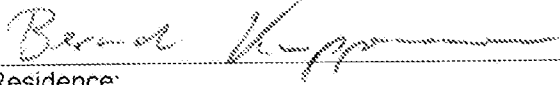
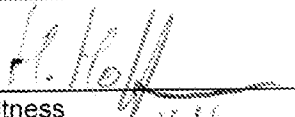
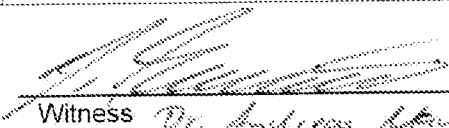
I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

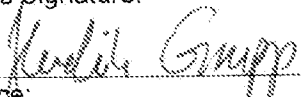
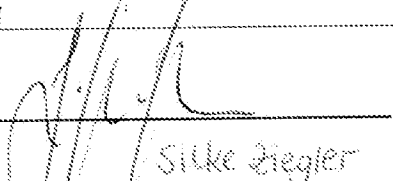
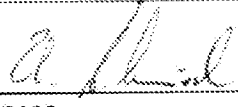
In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle [if any]): <b>Joachim W.</b>		Family Name or Surname: <b>Zech</b>	
Inventor's Signature: 		Date: 14.05.2011	
Residence: Kaufering, Germany		Country: Germany	Citizenship: Germany
Witness  Sabrina Mros-Gerum		Witness  Andrea Stoll	

Given Name (first and middle [if any]): <b>Thomas</b>		Family Name or Surname: <b>Klettke</b>	
Inventor's Signature: 		Date: 13.04.2011	
Residence: Diessen, Germany		Country: Germany	Citizenship: Germany
Witness  Sabrina Mros-Gerum		Witness  Andrea Stoll	

Given Name (first and middle [if any]): <b>Sebastian</b>		Family Name or Surname: <b>Zeller</b>	
Inventor's Signature:		Date:	
Residence: Cologne, Germany		Country: Germany	Citizenship: Germany
Witness		Witness	

Given Name (first and middle [if any]): <b>Bernd</b>		Family Name or Surname: <b>Kuppermann</b>	
Inventor's Signature: 		Date: 15.9.11	
Residence: Herrsching, Germany		Country: Germany	Citizenship: Germany
Witness  Henning Hoffmann		Witness  Dr. Andreas Hauer	

Given Name (first and middle [if any]): <b>Hendrik</b>		Family Name or Surname: <b>Grupp</b>	
Inventor's Signature: 		Date: 14.9.11	
Residence: Inning a. Ammersee / Bachern a. Woerthsee, Germany		Country: Germany	Citizenship: Germany
Witness  Silke Ziegler		Witness  Uwe Hobeisel	

**ASSIGNMENT OF APPLICATION**

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

CATIONICALLY HARDENABLE DENTAL COMPOSITION, PROCESS OF PRODUCTION AND USE THEREOF

- ☐ for which an application for a United States Patent is being filed contemporaneously herewith;
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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;



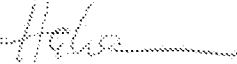
I/We do further agree for myself/ourselves and for my/our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I/we lawfully may, that may be deemed necessary by said Company, 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]): <b>Joachim W.</b>	Family Name or Surname: <b>Zech</b>	
Inventor's Signature:	Date:	
Residence: Kaufering, Germany	Country: Germany	Citizenship: Germany
_____ Witness	_____ Witness	

Given Name (first and middle [if any]): <b>Thomas</b>	Family Name or Surname: <b>Klettke</b>	
Inventor's Signature:	Date:	
Residence: Diessen, Germany	Country: Germany	Citizenship: Germany
_____ Witness	_____ Witness	

Given Name (first and middle [if any]): <b>Sebastian</b>	Family Name or Surname: <b>Zeller</b>	
Inventor's Signature: 	Date: 26.11.2011	
Residence: Cologne, Germany	Country: Germany	Citizenship: Germany
 _____ Witness	 _____ Witness	

Given Name (first and middle [if any]): <b>Bernd</b>		Family Name or Surname: <b>Kuppermann</b>	
Inventor's Signature:		Date:	
Residence: Herrsching, Germany		Country: Germany	Citizenship: Germany
<div style="display: flex; justify-content: space-between;"> <div>_____ Witness</div> <div>_____ Witness</div> </div>			

Given Name (first and middle [if any]): <b>Hendrik</b>		Family Name or Surname: <b>Grupp</b>	
Inventor's Signature:		Date:	
Residence: Inning a. Ammersee / Bachern a. Woerthsee, Germany		Country: Germany	Citizenship: Germany
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