

Case No.: 59611US002

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To: The Director of the U.S. Patent and Trademark Office:

Please record the attached document(s) or the new address(es) below.

<p>1. Name of conveying party(ies) <u>Execution Date(s):</u></p> <p>Peez, Robert F. October 25, 2004 Frank, Sybille A. October 21, 2004</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p>3M ESPE AG Espe Platz D-82229 Seefeld, Germany</p> <p>Additional name(s) of receiving party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:</p>	

4. Application or patent number(s) This document is being filed together with a new application.

<p>A. Patent Application No(s).</p> <p>10/847803</p>	<p>B. Patent No(s).</p>
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Additional Numbers Attached? Yes No

<p>5. Name and address to whom correspondence concerning document should be mailed:</p> <p>Name: Sean J. Edman Office of Intellectual Property Counsel 3M Innovative Properties Company Phone Number: (651) 575-1796 Fax Number: 651-736-3833</p> <p style="text-align: center;">32692 Customer Number</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR §§ 1.21(h) & 3.41): \$40.00</p> <p><input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Payment Information:</p> <p>Deposit Account Number: 13-3723 Authorized User Name: Sean J. Edman</p>
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9. Signature:

<p>Printed Name of Attorney/Agent: Sean J. Edman Registration No.: 42,506</p>	<p><i>Sean J. Edman</i> Signature</p>	<p><i>Nov. 2, 2004</i> Date</p>
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Pages: Total number of pages including COVER SHEET, attachments, and documents **3**

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ASSIGNMENT OF APPLICATION

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

USE OF NANOPARTICLES TO ADJUST REFRACTIVE INDEX OF DENTAL COMPOSITIONS

- 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. 10/847803; was filed on May 17, 2004;
- which application is identified as PCT International Patent Application No. filed ;

Now, for good and valuable consideration, receipt of which is acknowledged, I/we hereby assign and transfer to 3M ESPE AG (a wholly-owned subsidiary of 3M COMPANY, a corporation of Delaware), having its principal office at Seefeld, Germany, its successors and assignee, the entire right, title, and interest in and to the said invention and application, and any division or continuation (in whole or in part) of said application, and any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and foreign countries (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 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 3M ESPE AG, its successors, assigns, and nominees, fully to secure its right, title, and interest as described above 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 ESPE AG, as the assignee of my entire right, title, and interest therein.

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

Given Name (first and middle (if any)): Robert F.		Family Name or Surname: Peez	
Inventor's Signature: <i>Robert Peez</i>		Date: 25. October 2004	
Residence: Germering, Germany		Country: Germany	Citizenship: German
Witness: <i>S. Ziegler</i>		Witness: <i>J. Schmitt</i>	

Given Name (first and middle (if any)): Sybille A.		Family Name or Surname: Frank	
Inventor's Signature: <i>Sybille Frank</i>		Date: <i>21. Oct. 2004</i>	
Residence: Seefeld, Germany		Country: Germany	Citizenship: German
<i>Gisela Frank</i> Witness <i>Gisela Frank</i>		<i>Gerhard Frank</i> Witness <i>Gerhard Frank</i>	