Case No.: 62394US002			
RECORDATION			
PATE To: The Director of the U.S. Patent and Trademark Office	NTS ON	LY	
Please record the attached document(s) or the new address	ess(es) belov	v.	
Name of conveying party(ies)	<u>∍(s):</u>	2. Name and address of receiving party(ies):	
David K Cinader, Jr. October 20, Richard E. Raby October 20, Nicholas A. Stark October 20,	2006	3M Innovative Properties Company P.O. Box 33427 St. Paul, Minnesota 55133-3427	
Additional name(s) of conveying party(les) attached?  ☐ Yes ☒ No		Additional name(s) of receiving party(ies) attached?	
3. Nature of conveyance:  ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Joint Research Agreement ☐ Government Interest ☐ Other:	Assignment		
4. Application or patent number(s)   This document is being filed together with a new application.			
A. Patent Application No(s). 11/551372	B. Patent No(s).		
Additional Numbers	Attached? [	] Yes □ No	
Name: James D. Christoff Office of Intellectual Property Counsel 3M Innovative Properties Company Phone Number: 651-733-1512 Fax Number: 651-736-3833		number of applications atents involved:	
		7. Total fee (37 CFR §§ 1.21(h) & 3.41): \$40.00  Enclosed  Authorized to be charged to deposit account	
Customer Number	8. Payment Information:		
		Deposit Account Number: 13-3723 Authorized User Name: James D. Christoff	
9. Signature:	11		
Printed Name of Attorney/Agent:  James D. Christoff Registration No.: 31,492  Signature	M.	OCT 20, 200 L	

Pages: Total number of pages including COVER SHEET, attachments, and documents

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

OCT.20'2006 05:39 6265744876 R&D ADMINISTRATION

#6999 P.003/005

Case No.: 62394US002

## ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in	
DIGITAL ORTHODONTIC TREATMENT PLANNING	
for which an application for a United States Patent is being filed via EFS-Web;	
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.; filed;	
Now, therefore, for good and valuable consideration, receipt of which is acknowledg I/we have agreed to assign and transfer and do hereby assign and transfer unto the INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and corporation of Delawore, bodies its principal of the corporation of the corpora	ΔE

d, V а f 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

Assignment

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Case No.: 62394US002

OCT.20'2006 05:40 6265744876 R&D ADMINISTRATION #6999 P.004/005

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]):			
David K.	Family Name or	Family Name or Surname:	
Inventor's Signature:	Cinader, Jr.		
Tr. All Transfer	Date:	^	
Residence:	_	Ø.	
Walnut, CA	Country:	Citizenship:	
1	USA	United States of America	
STATE OF CALIFORNIA )			
COUNTY OF LOS ANGELES )			
On this 20th day of Or lake			
On this <u>201k</u> day of <u>October</u> above-named David K. Cinader, Jr., and who executed, on the day and year aforesaid.	, 2006, bef	ore me personally appeared the	
deed, on the day and year aforesaid,	med his integolds itstl	ument, as said person's free act and	
(Spell)			
PERNADETE M. MCDANIEL	4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Commission # 1478917 Notary Public - Colifornia	Olympot	M. McDani	
LOS ATIGOLOS County F	Notary Public	C Mr Mordane	
My Comm. Expires Apr 23, 2008		- /	
	<u> </u>		
Given Name (first and middle [if any]):	Facilities		
Richard E.	Family Name or Surname: Raby		
Inventor's Signature:			
-	Date:	<del></del>	
Residence:			
North St. Paul, MN	Country: USA	Citizenship:	
STATE OF MINNESOTA )		United States of America	
1 44			
COUNTY OF RAMSEY		į	
On this day of	. 2006 befor	te me personally appeared the	
above-named Richard E. Raby, and who executed the the day and year aforesaid.	e foregoing instrument	. 99 63id Derson's free act and dead	
on the day and year aforesaid.	•	, P	
(Seal)			
	Notary Public	1	
	Notary Public		

Assignment

Page 2 of 3

Case No.: 62394IJS002

OCT.20'2006 05:40 6265744876 R&D ADMINISTRATION

#6999 P.005/005

\_\_\_\_\_\_

Given Name (first and middle [if any]): Nicholas A.	Family Name or Stark	Family Name or Sumame: Stark Date:	
Inventor's Signature:	Date:		
Residence: Cottage Grove, MN STATE OF MINNESOTA	Country: USA	Citizenship: United States of America	
COUNTY OF RAMSEY  On this day of above-named Nicholas A. Stark, and who exec on the day and year aforesaid.  (Seal)	, 2006, befo uted the foregoing instrume	ore me personally appeared the ent, as said person's free act and deed,	
	Notary Public	<u> </u>	

Assignment

Page 3 of 3

Case No.: 62394US002

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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

DIGITAL ORTHODONTIC TREATMENT PLANNING
☑ for which an application for a United States Patent is being filed via EFS-Web;
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.; filed;

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

Page 1 of 3 Case No.: 62394US002

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.

David K.	Cinader, Jr.		
Inventor's Signature;	Date:		
Residence:	Country:	Citizenship:	
Walnut, CA	USA	United States of America	
STATE OF CALIFORNIA ) ss.			
COUNTY OF LOS ANGELES )			
On this day of	, 2006, before me	e personally appeared the	
above-named David K. Cinader, Jr., and who executed	the foregoing instrument	, as said person's free act and	
deed, on the day and year aforesaid.			
(Seal)			
,,			
	Notary Public		
Given Name (first and middle [if any]): Richard E.	Family Name or Surname: Raby		
Inventor's Signature:	Date: 10/20	/2006	
Residence:	Country:	Citizenship:	
North St. Paul, MN	USA	United States of America	
STATE OF MINNESOTA )			
) ss. COUNTY OF RAMSEY ) ∕ ∕ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
On this 20th day of UCTO ber	2006 hofore me	n paragrally appeared the	
On this <u>700'</u> day of <u>UOOOO</u> , 2006, before me personally appeared the above-named Richard E. Raby, and who executed the foregoing instrument, as said person's free-act and deed,			
on the day and year aforesaid.			
( haber lands			
(Seal) AMBER NICHOLSON AMBER NICHOLSON			
Notary Public			
Minnesota My Commission Expires January 31, 2010 Notary Public			
	•		

Given Name (first and middle [if any]): Nicholas A.	Family Name or Surname: Stark	
Inventor's Signature:	Date: 10 /20/00	·
Residence:	Country:	Citizenship:
Cottage Grove, MN	USA	United States of America
On this day of day of day of above-named Nicholas A. Stark, and who executed the form the day and year aforesaid.  (Seal)  AMBER NICHOLSON Notary Public Minnesota My Commission Expires January 31, 2010	, 2006, before me pregoing instrument, as	e personally appeared the said person's free act and deed,  LUD (SO)

Assignment

**RECORDED: 10/20/2006** 

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**PATENT**