

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BARBARA D. BOYAN	05/16/2005
STEPHEN J. KENNEDY	05/15/2005
ZVI SCHWARTZ	09/18/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GEORGIA TECH RESEARCH CORPORATION
<b>Street Address:</b>	505 10TH STREET, NW
<b>City:</b>	ATLANTA
<b>State/Country:</b>	GEORGIA
<b>Postal Code:</b>	30332
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	8486436
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<b>ATTORNEY DOCKET NUMBER:</b>	CARTV.001C3
<b>NAME OF SUBMITTER:</b>	THEODORE G. PAPAGIANNIS
<b>SIGNATURE:</b>	/Theodore G. Papagiannis/
<b>DATE SIGNED:</b>	04/19/2017
<b>Total Attachments: 4</b>	
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## **ASSIGNMENT**

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**WHEREAS, we, Barbara D. Boyan, residing at 898 Byrnwyck Road NE, Atlanta GA 30319; and Stephen J. Kennedy, residing at 500 Mount Everest Way, Atlanta, GA 30022 have invented certain inventions and improvements disclosed in a patent application entitled "Surface Directed Cellular Attachment," filed in the United States Patent and Trademark Office on February 7, 2005, under Application U.S. Serial No. 11/053,410; and**

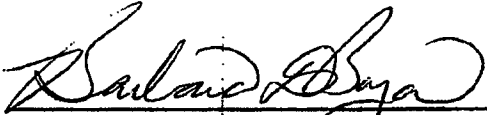
**WHEREAS, Georgia Tech Research Corporation, a corporation of the State of Georgia having a principal place of business at 505 10<sup>th</sup> Street, NW, Atlanta, GA 30332-0415, is desirous of acquiring an interest in the same;**

**NOW, THEREFORE, for and in consideration of Five Dollars (\$5.00) and other good and valuable consideration, the receipt and sufficiency of which we, Barbara D. Boyan and Stephen J. Kennedy, by these presents do sell, assign and transfer unto Georgia Tech Research Corporation the full, exclusive and entire right, title, and interest in and to said application, and in and to all inventions and improvements disclosed and described in said application;**

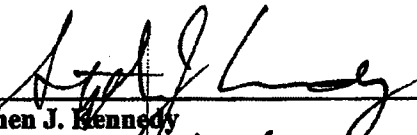
**For the same consideration, we, by these presents do sell, assign, and transfer to Georgia Tech Research Corporation, the full, exclusive, and entire right, title and interest in and to any foreign application or applications corresponding to said application, in whole or in part, in countries other than the United States, in and to any Letters Patent and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of Georgia Tech Research Corporation, or its designee insofar as permitted by applicable law.**

Title: Surface Directed Cellular Attachment  
Inventors: Barbara D. Boyan and Stephen J. Kennedy  
Serial No. 11/053,410  
ASSIGNMENT  
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**AND**, for the same consideration, we agree to sign all lawful papers, execute all nonprovisional applications and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **Georgia Tech Research Corporation** its successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

  
\_\_\_\_\_  
Barbara D. Boyan

Date: 5/16/05

  
\_\_\_\_\_  
Stephen J. Kennedy

Date: 5/15/05

Attorney Docket No. 17625-0084

GTRC No. 3028

Application No.: 11/053,410  
Filing Date: February 7, 2005

**PATENT**  
Docket No.: WINDW.001A  
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### ASSIGNMENT

WHEREAS, I, Zvi Schwartz, a U.S. citizen, residing at \_\_\_\_\_, have invented certain new and useful improvements in a SURFACE DIRECTED CELLULAR ATTACHMENT for which the following patent applications, including applications for Letters Patents in the United States, Australia, Canada and Europe, have been filed (collectively "the Applications"):

Country	Application No.	Filing Date	Title
U.S. (Non-Provisional Application)	11/053,410	Feb. 7, 2005	SURFACE DIRECTED CELLULAR ATTACHMENT
U.S. (Non-Provisional Application)	12/117,673	May 8, 2008	METHOD OF TREATING JOINTS WITH HYDROGEL IMPLANTS
U.S. (Provisional Application)	60/542,514	Feb. 6, 2004	SURFACE DIRECTED CELLULAR ATTACHMENT
PCT Application	PCT/US2005/003899	Feb. 7, 2005	SURFACE DIRECTED CELLULAR ATTACHMENT
Australia	2005213499	Feb. 7, 2005	SURFACE DIRECTED CELLULAR ATTACHMENT
Canada	2558623	Feb. 7, 2005	SURFACE DIRECTED CELLULAR ATTACHMENT
Europe	05713073.4	Feb. 7, 2005	SURFACE DIRECTED CELLULAR ATTACHMENT

AND WHEREAS, Georgia Tech Research Corporation (hereinafter "ASSIGNEE"), a nonprofit corporation organized and existing under the laws of the State of Georgia and having its principal offices at the Georgia Institute of Technology, 505 10<sup>th</sup> Street, Atlanta, Georgia 30332-0415, desires to acquire the entire right, title, and interest in and to said improvements and said Applications.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under said improvements, and said Applications including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No. 60/542,514, filed February 6, 2004) and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and

Application No.: 11/053,410  
Filing Date: February 7, 2005

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reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on Applications as aforesaid, to issue all Letters Patent for said improvements to said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I DO HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND I HEREBY covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 18 day of September, 2009.

Zvi Schwartz

STATE OF

COUNTY OF

ss.

On Sept 18, 2009 before me, Brentis A. Henderson, notary public, personally appeared Zvi Schwartz who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Georgia that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Brentis A. Henderson  
Notary Signature

My Commission Expires  
June 4, 2012 BA

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062209

PATENT

RECORDED: 04/19/2017

REEL: 042068 FRAME: 0753