	-2004		onfirmation No.:
S-3-04 RE		<b>R SHEET</b>	
To the Honorable Commissioner 10273	37493	ached original documents of	or copy thereof.
<ol> <li>Name of conveying party(ies)</li> <li>a) Andrew Karellas</li> </ol>	2. Name and ad	ddress of receiving party(ies)	
b) Srinivasan Vedantham	Name: Univers	ity of Massachusetts Medical Co	enter
c) Sankararaman Suryanarayanan	Internal Address:		
Additional name(s) of conveying party(ies) attached? 🔲 Yes 🛛 No	<u></u>		
3. Nature of conveyance:			
	Street Address:	365 Plantation Street	
Security Agreement Change of Name	City: <u>Worcester</u>	State: <u>MA</u>	ZIP: <u>02215</u>
Other Execution Date: <u>a-c) 04/29/04</u>	Additional name(s) & address(es) attached?		
4. Application number(s) or patent number(s):			
<ul><li>If this document is being filed together with a new applicatio</li><li>A. Patent Application No.(s) 09/990,880</li></ul>	n, the execution date of B. Patent No.(s)		
			OPR/FILMIO
Additional number			
5. Name and address of party to whom correspondence concerning document should be mailed:		No r of applications and patents inv	
	6. Total numbe		
concerning document should be mailed:	6. Total numbe	r of applications and patents inv 7 C.F.R. 3.41)	
concerning document should be mailed: Name: Thomas O. Hoover, Esq.	<ul> <li>6. Total numbe</li> <li>7. Total Fee (3<sup>4</sup>)</li> <li>⊠ Enclose</li> <li>⊠ Authori</li> </ul>	r of applications and patents inv 7 C.F.R. 3.41)	olved: <u>1</u>
concerning document should be mailed: Name:Thomas O. Hoover, Esq Internal Address:	<ul> <li>6. Total numbe</li> <li>7. Total Fee (37</li> <li>X Enclose</li> <li>X Authori overpay</li> </ul>	r of applications and patents inv 7 C.F.R. 3.41) d zed to charge any deficiencies o	olved: <u>1</u> <u>9</u> <u>40.00</u> r credit any
concerning document should be mailed: Name:Thomas O. Hoover, Esq. Internal Address:Bowditch & Dewey, LLP	<ul> <li>6. Total numbe</li> <li>7. Total Fee (37)</li> <li>2. Enclose</li> <li>2. Authori overpay</li> <li>2. Authori (Attach duplicate complete the second second</li></ul>	r of applications and patents inv 7 C.F.R. 3.41) d zed to charge any deficiencies o ment to deposit account zed to be charged to deposit account copy of this page only if paying b	olved: <u>1</u>
concerning document should be mailed: Name:Thomas O. Hoover, Esq. Internal Address:Bowditch & Dewey, LLP Street Address: 161 Worcester Road P.O. Box 9320	<ul> <li>6. Total numbe</li> <li>7. Total Fee (37)</li> <li>2. Enclose</li> <li>2. Authori overpay</li> <li>2. Authori (Attach duplicate complete the second second</li></ul>	r of applications and patents inv 7 C.F.R. 3.41) d zed to charge any deficiencies o ment to deposit account zed to be charged to deposit account copy of this page only if paying b account number:	olved: <u>1</u> \$ <u>40.00</u> r credit any
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concerning document should be mailed:          Name:       Thomas O. Hoover, Esq.         Internal Address:	<ul> <li>6. Total numbe</li> <li>7. Total Fee (37)</li> <li>2. Enclose</li> <li>2. Authori overpay</li> <li>2. Authori (Attach duplicate complete the second second</li></ul>	r of applications and patents inv 7 C.F.R. 3.41) d zed to charge any deficiencies o ment to deposit account zed to be charged to deposit account copy of this page only if paying b account number: 50-1935	olved: <u>1</u>
concerning document should be mailed: Name:Thomas O. Hoover, Esq Internal Address:Bowditch & Dewey, LLP Street Address: <u>161 Worcester Road</u> Street Address: <u>161 Worcester Road</u> City: <u>Framingham</u> State: <u>MA</u> ZIP: <u>01701-9320</u> <u>DO NOT</u> 9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing inform</i> <i>document.</i> 	<ul> <li>6. Total numbe</li> <li>7. Total Fee (3<sup>4</sup>)</li> <li>☑ Enclose</li> <li>☑ Authori overpay</li> <li>□ Authori (Attach duplicate c</li> <li>8. Deposit a</li> </ul>	r of applications and patents inv 7 C.F.R. 3.41) d zed to charge any deficiencies o ment to deposit account zed to be charged to deposit account copy of this page only if paying b account number: 50-1935	olved: <u>1</u> \$ <u>40.00</u> r credit any ount by deposit account)
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## ASSIGNMENT

WHEREAS, we, Andrew Karellas, Srinivasan Vedantham and Sankararaman Suryanarayanan, have invented a certain improvement in System and Method of X-Ray Fluoroscopic Imaging described in an application for Letters Patent of the United States, the specification of which:

- [] is being executed on even date herewith and is about to be filed in the United States Patent Office;
- [] was filed on November 21, 2001 as Application No. 09/990,880;
- [] was patented under U.S. Patent No. [] on [].

WHEREAS, University of Massachusetts (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 365 Plantation Street, Worcester, Massachusetts 02215 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

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Inventor's Signature:	Drivivasan
	Srinivasan Vedantham
State/Commonwealth	
of Georgia	
of <u>Georgia</u> County of <u>DeKalb</u>	
satisfactory evidence of ident signature issued by a federal oath or affirmation of a credi me, to be the person whose n	f <u>Hpr.1</u> , 20 <u>9</u> , before me, the undersigned notary public, ve-named, Srinivasan Vedantham, who proved to me through tification, by means: of current photographic identification with or state governmental agency; being personally known to me; or ble witness who knows the signatory and is personally known to name is signed on the preceding or attached document in my that he/she executed the foregoing instrument as his/her free act and
(Seal)	May Saule Jour Se Notary Public
	Mary Battle David So- (print name)
	My Commission expires Notary Public, DeKelb County, Georgia My Commission Exmires Nov. 13, 2004
Inventor's Signature:	L'anhavaman
0	Sankararaman Suryanarayanan
State/Commonwealth	
of Georgia	
County of Descalb	
through satisfactory evidence with signature issued by a fec or oath or affirmation of a cre me, to be the person whose n	f <u>Mpr. 1</u> , 20 <u>b</u> before me, the undersigned notary public, ve-named, <b>Sankararaman Suryanarayanan</b> , who proved to me e of identification, by means: of current photographic identification deral or state governmental agency; being personally known to me; edible witness who knows the signatory and is personally known to name is signed on the preceding or attached document in my that he/she executed the foregoing instrument as his/her free act and
(Seal)	Manshort Day D Matany Dublia
(00:01)	Mary Battle Davidson (print name)
	My Commission expires/ /
	Motery Public, DeKalb County Georgia

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AND, we do hereby authorize and request the Director of the United States Patent and Trademark Office to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: Andrew Karellas State/Commonwealth of Georgia County of <u>DeKA/b</u> On this 29<sup>th</sup> day of <u>Apr. 1</u>, 20<u>04</u>, before me, the undersigned notary public, personally appeared the above-named, Andrew Karellas, who proved to me through satisfactory evidence of identification, by means: of current photographic identification with signature issued by a federal or state governmental agency; being personally known to me; or oath or affirmation of a credible witness who knows the signatory and is personally known to me, to be the person whose name is signed on the preceding or attached document in my presence, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed for its stated purpose. Barle and Notary Public (Seal) Try Battle Davidsa (print name) My Commission expires Notary Public, DeKath County Georgia My Commission Expires Nov 13 2004 Notary Public, DeKalb County, Georgia My Commission Expire Nov. 13, 2004

**BOWDITCH & DEWEY, LLP** 

Please Sign & Date

## IN BLUE INK

Thank you

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PATENT REEL: 015287 FRAME: 0131

**RECORDED: 05/03/2004**