01-14-2010

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To the Director of the U.S. Patent and Trademark Office: Please r	ecord the attached original documents or copy thereof.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
1 Bruce A. SULLENGER 5 Nanette L.S. QUE-GEWIRTH	
2 Juliana M. LAYZER 6	1) Name: DUKE UNIVERSITY
3 Christopher P. RUSCONI 7	Street Address:
4 Sabah ONEY 8	City: Durham
4 Sabali ONET	State/Country: North Carolina Zip: 27708-0083
Additional manuals of companing montroling attached?	State/Country. North Caronna Zip. 27700 0003
Additional name/s of conveying party/ies attached? 3. Nature of conveyance:	2) Name
Assignment Merger	Street Address:
Security Assignment Change of Name	City:
Other	State: Zip:
	1
Execution Date: October 28, 2009; May 22, 2009; May 22, 2009; August 25, 2009; and May 22, 2009	Additional name/s & address/es attached? Yes No
4. Application number(s) or patent number(s): Thi	s assignment is being filed together with a new application.
A. Patent Application No(s).	B. Patent No(s).
(1) 11/992,125	(1)
(2)	(2)
(3)	(3)
Additional numbers at	
5. Name and address of party to whom correspondence	6. Total number of applications & patents involved:1
concerning document should be mailed:	
concerning document should be mailed:	7. Total fee (37 CFR 3.41) \$
concerning document should be mailed: Name: Gary R. Tanigawa	⊠ Enclosed
	Enclosed Authorized to be charged to deposit account #14-1140
Name: Gary R. Tanigawa	Enclosed Authorized to be charged to deposit account #14-1140 8. The Commissioner is hereby authorized to charge any
Name: Gary R. Tanigawa Internal Address: Street Address: Nixon & Vanderhye P.C.	Enclosed Authorized to be charged to deposit account #14-1140 8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which
Name: Gary R. Tanigawa Internal Address: Street Address: Nixon & Vanderhye P.C. 901 North Glebe Road	Enclosed Authorized to be charged to deposit account #14-1140 8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter
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Name: Gary R. Tanigawa Internal Address: Street Address: Nixon & Vanderhye P.C. 901 North Glebe Road 11th Floor City: Arlington State: VA Zip: 22203	Enclosed Authorized to be charged to deposit account #14-1140 8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No.
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Name: Gary R. Tanigawa Internal Address: Street Address: Nixon & Vanderhye P.C. 901 North Glebe Road 11th Floor City: Arlington State: VA Zip: 22203 DO NOT US 9. Statements and signature. To the best of my knowledge and belief, the foregoing information of the original document. Gary R. Tanigawa Name of Person Signing	Enclosed Authorized to be charged to deposit account #14-1140 8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140. E THIS SPACE
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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

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ASSIGNMENT FOR PATENT APPLICATION (U.S. Rights Only)

WHEREAS Bruce A. SULLENGER, Juliana M. LAYZER, Christopher P. RUSCONI, Sabah ONEY and Nanette L.S. QUE-GEWIRTH (the ASSIGNORS) have invented a certain improvement entitled "FOCUSED LIBRARIES, FUNCTIONAL PROFILING, LASER SELEX AND DESELEX" for which a so-entitled application for Letters Patent was filled on March 17, 2008 in the Patent and Trademark Office under Serial No. 11/992,125;

AND WHEREAS DUKE UNIVERSITY (hereinafter the ASSIGNEE), having an office and place of business at Durham, North Carolina 27708-0083, desires to acquire an interest therein;

NOW, THEREFORE, in acknowledgement of the past assignment, ASSIGNORS by these presents hereby sell, assign, and transfer to ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNORS' entire interest, right, and title in the United States of America in and to each invention as described in this application, and to this application and to all subsequent applications based thereon including any and all continuations, divisions, relesues, and substitutes of said application, and any resulting Letters Patent, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other International agreements to which the United States of America adheres.

ASSIGNORS authorize and request the issuance of said Letters Patents, patent term extensions, and supplementary protection certificates to said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives.

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PATENT REEL: 023784 FRAME: 0974

N&V Ref: 1579-1319 / 2584 US

ASSIGNORS agree, upon request of ASSIGNEE, its successors, assigns, or legal representatives, and without further remuneration, to transfer a like interest, right, and title in and to any improvements and applications for patent based thereon, growing out of, or related to this invention.

ASSIGNORS agree, upon request of ASSIGNEE, its successors, assigns, or isgal representatives, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filling and granting of subsequent patent applications and the perfecting of title thereto in ASSIGNEE.

It is understood that Nixon & Vanderhye P.C. has represented and will continue to represent only DUKE UNIVERSITY with respect to this invention and related matters.

AGREED and executed as noted below:	
Jon a. Sulf	10/28/09 Date
Bruce A. SULLENGER	10/28/09
Witnessed by:	Date
Juliana M. Janon	5/aa/o9
Juliana M. LAYZER TO	Date
	22-MAY2001
Witnessed by:	Date
	22 MRC2009
Christopher P. RUSCONI	Date
Juliana Layry	<i>51</i> 22/09
Witnessed by:	Date

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N&V Ref: 15791319 / 2564 US

	8/25/09
Witnessed by: M. Bud Nelson	25 August 2009 Date
Nanette L.S. QUE-GEWIRTH	Dale
Witnessed by	Date

- 3 -

1322927

REEL: 023784 FRAME: 0976

N&V Ref: 1579-1319 / 2564 US

Sabah ONEY	Date
Witnessed by:	Date
Nanette L.S. QUE-GEWIRTH	5/22/09
Nanette L.S. QUE-GEWIRTH	Date 5/22/09
Witnessed hyr	Data

PATENT

REEL: 023784 FRAME: 0977