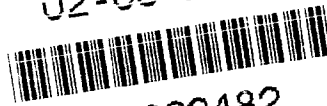


Form PTO-1595  
1-31-92



RECORD

02-05-2004



102662482

U.S. Department of Commerce  
Patent and Trademark Office

Our Ref.: 1579-863

**Mail Stop Assignment Recordation Services**

Commissioner of Patents

P.O. Box 1450

Alexandria, VA 22313-1450

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Homme W. HELLINGA

Loren L. LOOGER

2-2-04

2. Name and address of receiving party(ies):

Name: DUKE UNIVERSITY

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

Additional name/s of conveying party/ies attached? ☐

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Assignment

☐ Change of Name

☐ Other \_\_\_\_\_

City: Durham

State/Country: North Carolina

Zip: 27708-0083

Execution Date: November 14, 2003

Additional name/s & address/es attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No(s).

(1) 10/686,529

(2) \_\_\_\_\_

(3) \_\_\_\_\_

B. Patent No(s).

(1) \_\_\_\_\_

(2) \_\_\_\_\_

(3) \_\_\_\_\_

Additional numbers attached ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Gary R. Tanigawa

Internal Address: \_\_\_\_\_

Street Address: Nixon & Vanderhye P.C.

1100 North Glebe Road

8<sup>th</sup> Floor

City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

☒ 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.**

**DO NOT USE THIS SPACE**

9. Statements and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gary R. Tanigawa

Name of Person Signing

Reg. No. 43,180

[Signature]  
Signature

February 2, 2004

Date

Total number of pages including **original** cover sheet, attachments, and document: [3]

02/04/2004 NGETACHE 00000095 10686529

01 FC:8021

40.00 DP

813542

**PATENT**  
**REEL: 014945 FRAME: 0299**

Nixon & Vanderhye P.C.  
1100 North Glebe Road  
Eighth Floor  
Arlington, VA 22201-4714

**ASSIGNMENT**  
**of U.S. Origin Patent Application**

- 1) Homme W. HELLINGA
- 2) Loren L. LOOGER

(hereinafter collectively ASSIGNOR), have made an invention known as Atty. Dkt. **1579-863** and entitled: **BIOSENSOR**

for which an application for Letters Patent was filed on **October 16, 2003** in the United States Patent and Trademark Office as Serial No. **10/686,529** which claims priority to U.S. provisional patent application Serial No. **60/418,359**, filed **October 16, 2002**;

AND WHEREAS **DUKE UNIVERSITY, Durham, North Carolina 27708-0083**

(hereinafter ASSIGNEE), desires to acquire an interest therein;

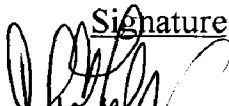

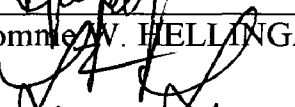
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR, does hereby sell, assign and transfer unto ASSIGNEE, its entire right, title and interest to the said invention in the aforesaid application, and to the said application and to all continuations, divisions, reissues and substitutes of said application, and foreign counterparts thereof, 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, and ASSIGNOR hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

AND ASSIGNOR hereby agrees to execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

ASSIGNOR furthermore agrees upon request of said ASSIGNEE, and without further remuneration, to execute any and all papers desired by said ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE.

The undersigned hereby authorize(s) Nixon & Vanderhye P.C. of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

Executed on the date(s) below indicated.

	<u>Signature</u>	<u>Date Signed</u>	<u>Witness</u>
1)	 Homme W. HELLINGA	11/14/03	
2)	 Loren L. LOOGER	11/14/03	