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04-24-2000



To The Honorable Commissioner of Patents and Trademarks  
thereof.

101329885

original documents or copy

1. Name of conveying party(ies): <sup>2000 MAR 27 PM 3:46</sup>  
**Beverly S. Emanuel**  
**Marcia L. Budarf**  
 OPR/FINANCE

Additional name(s) of conveying party(ies) attached? ( ) YES (X) NO

3. Nature of Conveyance:  
 Assignment ( ) Merger  
 Security Agreement  
 Change of Name  
 Other:

Execution Date(s): **December 16, 1999 and December 22, 1999**

2. Name and address of receiving party(ies):  
 Name: **The Children's Hospital of Philadelphia**  
 Street Address: **34<sup>th</sup> Street and Civic Center Boulevard**  
 City: **Philadelphia**  
 State: **Pennsylvania** ZIP: **19104**  
 Additional name(s) & address attached? ( ) YES (X) 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)  
**08/473,319, Filing Date: June 7, 1995**

B. Patent No.(s)

Additional numbers attached? ( ) YES (X) NO

5. Name and address of party to whom correspondence concerning documents should be mailed:  
 Name: **Doreen Yatko Trujillo**  
 Internal Address: **WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP**  
 One Liberty Place - 46<sup>th</sup> Floor  
 Philadelphia, Pennsylvania 19103-7301

Street Address: **WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP**  
 One Liberty Place - 46<sup>th</sup> Floor  
 1650 Market Street  
 Philadelphia, Pennsylvania 19103-7301

6. Total number of applications and patents involved:  
**One**

7. Total fee (37 CFR 3.41):.....\$40.00  
 Enclosed  
 Authorized to be charged to Deposit Account Number 23-3050

8. Please charge any deficiency or credit any overpayment to Deposit Account Number 23-3050

**DO NOT USE THIS SPACE**

9. Statement 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.*

**Doreen Yatko Trujillo, Reg. 35,719**  
 Name of Person Signing/Reg. No. Doreen Yatko Trujillo March 22, 2000  
 Signature Date

Total number of pages including cover sheet, attachments, and document: **Five**

Mail documents to be recorded with required cover sheet information to:

04/24/2000 JSHABAZZ 00000135 08473319  
 01 FC:581 40.00 DP

Commissioner of Patents and Trademarks  
 Box Assignments  
 Washington, D.C. 20231

**ASSIGNMENT**

WHEREAS, we, **BEVERLY S. EMANUEL and MARCIA L. BUDARF**, hereinafter referred to as Assignors, residing respectively at **711 Elena Drive, Broomall, Pennsylvania 19008 and 300 Glenwood Avenue, Moylan, Pennsylvania 19065**, are inventors of certain inventions or improvements for which we have made application for Letters Patent of the United States, identified as **Case No. CH-0610**, Serial No. **08/473,319**, filed **June 7, 1995**, entitled **METHODS OF DETECTING GENETIC DELETIONS AND MUTATIONS ASSOCIATED WITH DIGEORGE SYNDROME, VELOCARDIOFACIAL SYNDROME, CHARGE ASSOCIATION, CONOTRUNCAL CARDIAC DEFECT, AND CLEFT PALATE AND PROBES USEFUL THEREFORE**; and

WHEREAS, **THE CHILDREN'S HOSPITAL OF PHILADELPHIA**, hereinafter referred to as the assignee, of **34<sup>TH</sup> Street and Civic Center Boulevard, Philadelphia, Pennsylvania 19104-4318**, a corporation of Pennsylvania, U.S.A., is desirous of acquiring our entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

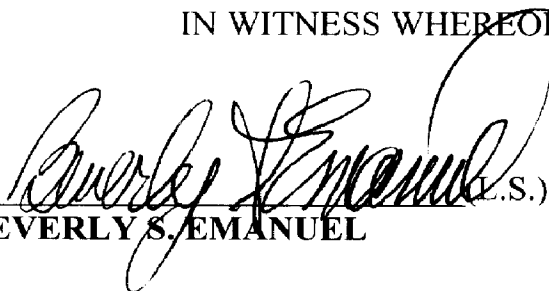
NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said Trustees of the University of Pennsylvania, and other good and valuable consideration, the receipt of which is hereby acknowledged, each of us, the said Assignors have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, to said assignee, our entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee to file in our name applications for Letters Patent in all countries the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by each of us had this assignment, sale and transfer not been made.

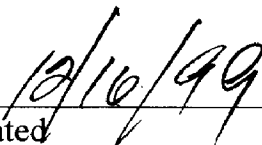
AND, We, hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letter Patent to said assignee, its successors, assigns, nominees or legal representatives, and we agree to communicate to said assignee, or to its

nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries, all at the expense, however, of said assignee, its successors, assigns, nominees or legal representatives.

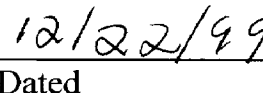
AND, we, hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of our entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hand and seal.

  
\_\_\_\_\_  
BEVERLY S. EMANUEL (L.S.)

  
\_\_\_\_\_  
Dated

  
\_\_\_\_\_  
MARCIA L. BUDARF (L.S.)

  
\_\_\_\_\_  
Dated

STATE OF QUEBEC )

)SS

COUNTY OF CANADA )

On DECEMBER 22<sup>nd</sup>, 1999, before me, FRANCE MAGNY CA, DIRECTOR OF FINANCE  
(here insert name and title of the officer) OPERATIONS

personally appeared MARCIA L. BUDARF  
(Name of Signer)

[ ] personally known to me - OR - [ ] 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, execute the instrument.

WITNESS my hand and official seal.

Signature: France Magny ca (Seal)  
Notary Public

STATE OF PENNSYLVANIA

COUNTY OF PHILADELPHIA

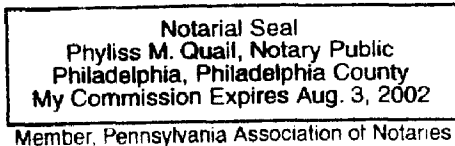
On DEC. 16, 1999, before me, PHYLISS M. QUAIL, NOTARY  
(here insert name and title of the officer)

personally appeared BEVERLY S. EMANUEL  
(Name of Signer)

personally known to me - OR -  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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, execute the instrument.

WITNESS my hand and official seal.

Signature: Phyliss M. Quail (Seal)  
Notary Public



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