

12-30-2003

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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Charles W. Anderson
Charles W. Kerechanin
Daniel J. DeCicco
George L. Vojtech, Jr.

12.22.03

Additional names(s) of conveying party(ies) Yes No

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

Name: The Johns Hopkins University

Internal Address: _____

Street Address: 34th and Charles Streets

City: Baltimore State: MD ZIP: 21218

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: 12/02/02;12/04/02;12/31/02; 1/15/03

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

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

A. Patent Application No.(s)

10/381,528

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Albert J. Fasulo, II

Internal Address: Mail Stop 7-156

The Johns Hopkins University

Applied Physics Laboratory

Street Address: 11100 Johns Hopkins Road

City: Laurel State: MD ZIP: 20723

6. Total number of applications and patents involved:

1

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

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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.

Albert J. Fasulo, II

Name of Person Signing

Signature

12/18/03

Date

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

4

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PATENT

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ASSIGNMENT

WHEREAS, Charles W. Anderson, Charles W. Kerechanin, Daniel J. DeCicco and George L. Vojtech, hereinafter referred to as the ASSIGNORS, have made an invention as described in an international application filed under the Patent Cooperation Treaty entitled:

EXPANDABLE SENSOR ARRAY, and

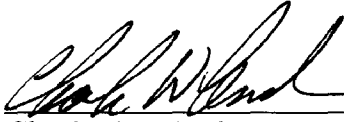
WHEREAS, The Johns Hopkins University, a corporation organized and existing under the laws of the State of Maryland and having its principal place of business at Baltimore, Maryland, hereinafter referred to as the ASSIGNEE, desires to acquire an interest therein;

NOW, THEREFORE, in consideration of their employment by ASSIGNEE, the ASSIGNORS do hereby sell, assign and transfer to the ASSIGNEE the entire right, title and interest in and to said invention in the United States and its territories and possessions and in all foreign countries and the entire right, title and interest in and to said international application and any substitutions, divisions, continuations, or continuations-in-part based upon said application, and in and to any and all Letters Patent, whether original or reissue, which may be granted for said invention in the United States and its territories and possessions and in any and all foreign countries, the invention, said patent application, and any and all such patents to be held and enjoyed by the ASSIGNEE for its own use and benefit and for its legal representatives as fully and entirely as the same would have been held by the ASSIGNORS had this agreement not been made.

THE ASSIGNORS here further agree to make, execute, and deliver to the ASSIGNEE, its successors, assigns, and legal representatives, upon request but at the expense of the ASSIGNEE, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the aforesaid application, and of any United States or foreign applications, and of any substitutions, divisions, continuations, or continuations-in-part of said application, or applications for reissues of said Letters Patents, and to aid the ASSIGNEE, its successors, assigns, and legal representatives in every way in protecting the said invention as may be requested, provided, however that they shall not have to pay any expenses arising from extending such assistance.

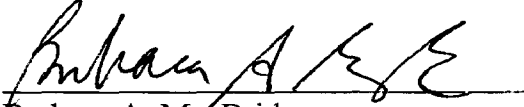
THE ASSIGNORS hereby covenant that they have the right to grant the foregoing assignment.

IN TESTIMONY WHEREOF, he has set his hand and affixed his seal on the date given hereinbelow.

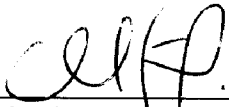
 SEAL 02 Dec 2002 DATE
Charles W. Anderson

STATE OF MARYLAND)
COUNTY OF HOWARD)

Subscribed and sworn to before me this 2nd day of Dec, 2002, by the above-named Charles W. Anderson.

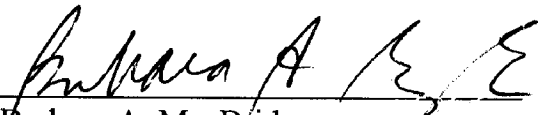

Barbara A. MacBride
My Commission expires October 1, 2005

IN TESTIMONY WHEREOF, he has set his hand and affixed his seal on the date given hereinbelow.

 SEAL 12-4-2002 DATE
 Charles W. Kerechanin

STATE OF MARYLAND)
 COUNTY OF HOWARD)

Subscribed and sworn to before me this 4th day of Dec, 2002, by the above-named Charles W. Kerechanin.

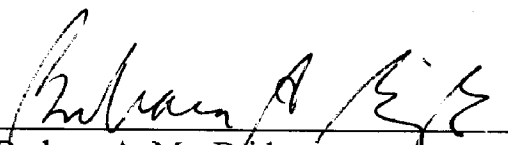

 Barbara A. MacBride
 My Commission expires October 1, 2005

IN TESTIMONY WHEREOF, he has set his hand and affixed his seal on the date given hereinbelow.

 SEAL 12/31/02 DATE
 Daniel J. DeCicco

STATE OF MARYLAND)
 COUNTY OF HOWARD)

Subscribed and sworn to before me this 31st day of Dec., 2002, by the above-named Daniel J. DeCicco.


 Barbara A. MacBride
 My Commission expires October 1, 2005

IN TESTIMONY WHEREOF, he has set his hand and affixed his seal on the date given hereinbelow.

George L. Wojtech SEAL 1/15/03 DATE
George L. Wojtech

STATE OF MARYLAND)
COUNTY OF HOWARD)

Subscribed and sworn to before me this 15 day of January, 2003, by the above-named
George L. Wojtech.

Barbara A. MacBride
Barbara A. MacBride
My Commission expires October 1, 2005