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attached original documents or copy thereof.

1. Name of conveying party(ies):
University of Virginia

7-17-03

JUL 17 2003

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

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

Execution Date: July 11, 2003

2. Name and address of receiving party(ies)

Name: University of Virginia Patent Foundation

Internal Address: _____

Street Address: 1224 West Main Street, Suite
1-110

City: Charlottesville State: VA Zip: 22903

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)
09/988,203

B. Patent No.(s)
6,323,818

Additional numbers attached? Yes No

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

Name: Robert J. Decker

Internal Address: _____

07/28/2003 6TON11 00000253 500423 09988203

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6. Total number of applications and patents involved: 1 2

7. Total fee (37 CFR 3.41).....\$ 80.00

- Enclosed
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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.

Robert J. Decker

Name of Person Signing

Signature

7/15/03
Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:
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PATENT
REEL: 014301 FRAME: 0671

ASSIGNMENT

WHEREAS, the **University of Virginia**, 314 Madison Hall, P. O. Box 400301, Charlottesville, Virginia 22904-4301 (the "Assignor") possesses the right, title and interest for and in an invention entitled

INTEGRATION OF HOLLOW WAVEGUIDES, CHANNELS AND HORNS BY LITHOGRAPHIC AND ETCHING TECHNIQUES

described in U.S. Provisional Patent Application Serial No. 60/041,668, filed on March 25, 1997, International Patent Application No. PCT/US98/05828 filed March 25, 1998, U.S. Patent Application No. 09/381,744 filed April 6, 2000 (issued as U.S. Patent No. 6,323,818 on November 27, 2001) and U.S. Patent Application No. 09/988,203 filed on November 19, 2001; and any subsequent patent applications claiming priority thereto; and

WHEREAS, the **University of Virginia Patent Foundation**, a non-profit organization having a place of business at 1224 West Main Street, Suite 1-110, Charlottesville, Virginia 22903 (the "Assignee") is desirous of acquiring the entire right, title and interest in and to the aforesaid invention, including any tangible materials embodied in or encompassed by the invention and any trade secrets pertaining to the invention, and any improvements thereon, (the "Invention") and in and to said applications for Letters Patent thereon in the United States, its territories and possessions ("United States") and all foreign countries, including rights to claim priority, to any provisional applications, and in and to any Letters Patent of the United States or any foreign country which may be granted therefor, including any and all reissues, divisions, continuations, continuations-in-part, renewals, substitutes, or extensions thereof (the "Rights");

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and conveyed, and does hereby sell, assign, transfer and convey to Assignee, its successors and assigns, the entire right, title and interest in and to the aforesaid Invention and Rights, except that Assignee hereby grants back to the Assignor a royalty free non-transferable license to make and use the Invention under the Rights for educational and research purposes, only. The aforesaid assignment includes the right in and to all income, royalties, damages and payments now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignor if this sale and assignment had not been made;

AND Assignor hereby authorizes and requests the appropriate governmental officials to issue any and all such United States or foreign Letters Patent under said invention, or resulting from any of said applications thereof, to the Assignee, as the assignee of the entire right, title and interest in and to the same;

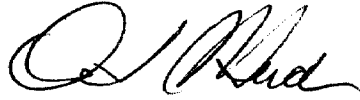
AND Assignor hereby represents, warrants and covenants that it has the full right to convey the entire interest herein assigned, that it has not executed and will not execute any instrument or assignment in conflict herewith, and that the rights assigned herein are not otherwise encumbered by any grant, license or right;

AND Assignor further covenants and agrees that Assignors will at any time upon request make, execute and deliver without further compensation, any and all other instruments in writing, including further applications, papers, affidavits, power of attorney, assignments, and other documents, and do all lawful acts and things, which, in the opinion of counsel for said Assignee, its successors and assigns, may in any country be required or necessary more effectively to secure to and vest in said Assignee, its successors and assigns the entire right, title and interest in and to said Invention and Rights hereby sold, assigned, transferred and conveyed, and that Assignor will sign any applications for reissue, division, continuation, continuation-in-part, renewal, substitute or extension of said application for Letters Patent or any resulting Letters Patent;

AND Assignor further covenants and agrees that Assignor will at any time upon request communicate to the Assignee, its successors, assigns or other legal representatives any facts relating to the aforesaid invention known to it, and will testify as to the same in any interference, litigation, mediation, arbitration or other proceeding when requested to do so.

IN WITNESS WHEREOF, said Assignor has hereunto set its hand and seal.

Signature of
Representative for Assignor:



David J. Hudson

Representative's Title:

Associate Vice President for Research
and Graduate Studies, University of Virginia

Place of Execution:

Charlottesville, Virginia

COUNTY OF ALBEMARLE)

) SS:

COMMONWEALTH OF VIRGINIA)

On this 11th day of July, 2003, before me, a Notary Public in and for the County of Albemarle in the Commonwealth of Virginia, personally appeared David J. Hudson, to me known as the individual of that name, who executed the foregoing instrument and acknowledged the same to be of his own free will for the purposes therein set forth.



Sue Ann Carr, Notary Public

My commission expires on: March 31, 2004