



06-11-2002

FORM PTO-1596
1-31-92U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

DOCKET NO.: UIOWA-22A

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

1. Name of conveying party(ies): Balkrishna RAMKUMAR and Volker STRMUPEN Additional name(s) of conveying party(ies) attached? Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: <u>The University of Iowa Research Foundation</u> Internal Address: Street Address: <u>214 Technology Innovation Center</u> City: <u>Iowa City</u> State/Country: <u>IOWA</u> ZIP: <u>52242</u> Additional name(s) & address(es) attached? Yes <input checked="" type="checkbox"/> No				
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <u>May 22, 2002</u>						
4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No(s). <u>08/911,908</u> Filed: <u>August 15, 1997</u> B. Patent No(s) <u>6,154,877</u> Additional numbers attached? Yes <input checked="" type="checkbox"/> No						
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>FLESHNER & KIM, LLP</u> Internal Address: Street Address: <u>P. O. Box 221200</u> City: <u>Chantilly</u> State: <u>VA</u> ZIP: <u>20153-1200</u>		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 C.F.R. 3.41)..... <u>\$40.00</u> <input checked="" type="checkbox"/> Enclosed (Check No. <u>5519</u>) Authorized to be charged to deposit account 8. Deposit account number: <u>16-0607</u>				
DO NOT USE THIS SPACE						
9. Statement and signature. <i>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.</i> <table border="0" style="width: 100%;"><tr><td style="width: 40%;"><u>Mark L. Fleshner, Reg. No. 34,596</u> Name and Registration No. of Person Signing</td><td style="width: 20%; text-align: center;"> Signature</td><td style="width: 40%; text-align: right;"><u>June 5, 2002</u> Date</td></tr></table> <div style="text-align: right;">Total number of pages including cover sheet: <u>2</u></div>				<u>Mark L. Fleshner, Reg. No. 34,596</u> Name and Registration No. of Person Signing	 Signature	<u>June 5, 2002</u> Date
<u>Mark L. Fleshner, Reg. No. 34,596</u> Name and Registration No. of Person Signing	 Signature	<u>June 5, 2002</u> Date				
CMB No. 0851-0011 (exp. 4/94)						

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ASSIGNMENT

WHEREAS, The University of Iowa Research Foundation, (hereinafter called "Assignor") is the owner in entirety by assignment duly recorded in the United States Patent and Trademark Office at the Reel and Frame(s) indicated below of the following United States Letters Patent(s) and/or patent application(s) (hereinafter called "Patent Properties"):

<u>Application or Patent Number and Date of Filing or Issue</u>	<u>Named Inventors</u>	<u>Reel/ Frame</u>
U.S. Patent No. 6,154,877	RAMKUMAR, Balkrishna and STRMUPEN, Volker	9090/0525

The undersigned has reviewed all the documents in the chain of title identified above; and to the best of the undersigned's knowledge and belief, title is in the Assignor. The undersigned is empowered to sign this Assignment on behalf of the Assignor.

WHEREAS, Massachusetts Institute of Technology, (hereinafter called "Assignee"), is desirous of acquiring an undivided interest in half of Assignor's right, title and interest for the United States, its territories, dependencies and possessions, in and to said Patent Properties (and/or patents that may be granted therefrom), and any confirmations, divisions, continuations, reexaminations, reissues or extensions of the same;

Now, To All Whom It May Concern: Be it known that for and in consideration of the sum of One Dollar (\$1.00), to Assignor in hand paid by Assignee, and for other good and valuable consideration, the receipt and sufficiency of all of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over, unto Assignee, its successors and assigns, an undivided interest in half of Assignor's right, title and interest for the United States, its territories, dependencies and possessions, in and to said Patent Properties, and any confirmations, divisions, continuations, reexaminations, reissues or extensions thereof.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States to issue any Letters Patent of the United States, resulting from said Patent Properties and any confirmations, divisions, continuations, reexaminations, reissues or extensions thereof, to Assignor and Assignee.

Assignor hereby grants the firm of FLESHNER & KIM, LLP of Chantilly, Virginia the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment is effective as of the 22 day of May, 2002.

Brenda Seck

Witness

W. B. Wheaton

Signature

Officer of Assignor

John R. Weis

Witness

W. Bruce Wheaton, Ph.D.

Typewritten Name of Officer

Executive Director & Secretary

Title of Officer