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Docket No. 47102/NJP/B600

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

Post Office Box 7068  
Pasadena, CA 91109-7068

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

<p><b>1. Name of conveying party(ies):</b> <b>Hau Thien Tran, Kelly B. Cameron, Ba-Zhong Shen and Christopher R. Jones</b></p> <p>Additional name(s) of conveying party(ies) attached: <b>NO</b></p>	<p><b>2. Name and address of receiving party(ies):</b> Name: <b>Broadcom Corporation</b> Street Address: <b>16215 Alton Parkway Irvine, California 92618</b></p> <p>Additional name(s) &amp; address(es) attached? <b>NO</b></p>
<p><b>3. Name of conveyance:</b></p> <p><input checked="" type="checkbox"/> Assignment      <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement      <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:</p> <p>Execution Date: <b>October 5, 2001, October 9, 2001, and October 12, 2001</b></p>	
<p><b>4. Application number(s) or patent number(s):</b></p> <p>If this document is being filed together with a new application, the execution date of the application is: .</p> <p>A. Patent Application No.(s) 09/952,309</p> <p>B. Patent No.(s)</p> <p>Additional numbers attached? <b>NO</b></p>	
<p><b>5. Please return the recorded document and address all correspondence to:</b></p> <p><b>CHRISTIE, PARKER &amp; HALE, LLP</b> P.O. Box 7068 Pasadena, CA 91109-7068 Attention: <b>Nicholas J. Pauley</b></p>	<p><b>6. Total number of applications and patents involved.....</b> <span style="border: 1px solid black; padding: 2px;">1</span></p>
<p><b>10. <input type="checkbox"/> Explanatory letter is enclosed.</b></p>	<p><b>7. <input checked="" type="checkbox"/> Total fee enclosed (37 CFR 3.41):</b>      \$ <b>40.00</b></p> <p><b>8. <input checked="" type="checkbox"/> Any deficiency or overpayment of fees should be charged or credited to <b>Deposit Account No. 03-1728</b>, except for payment of issue fees required under 37 CFR § 1.18. Please show our docket number with any credit or charge to our Deposit Account.</b></p>
<p><b>9. Statement and signature.</b> 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.</p> <p>Date: October 31, 2001</p> <p>By <u><i>Nicholas J. Pauley</i></u> Name: Nicholas J. Pauley 626/795-9900</p> <p>I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE U.S. POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231 ON</p> <p>DATE <u>10 31-01</u> SIGNATURE <u><i>Carole Cook</i></u></p> <p>Total number of pages including cover sheet, attachments, and document: <span style="border: 1px solid black; padding: 2px;">3</span></p>	

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CCP:AS91866.1\*-10/30/01 4 28 PM

**ASSIGNMENT**

**I, one of the persons named below, hereby state and agree as follows:**

I have invented certain new and useful improvements disclosed in an application for United States Letters Patent entitled **METHOD AND APPRATUS FOR PERFORMING CALCULATIONS FOR FORWARD (ALPHA) AND REVERSE (BETA) METRICS IN A MAP DECODER**, Application No. 09/952,309, filed September 12, 2001 and with claim to the priority of United States Provisional Application No. 60/232,053, filed September 12, 2000; and 60/232,288, filed September 12, 2000;

**AND BROADCOM CORPORATION**, a California corporation, having a place of business at 16215 Alton Parkway, Irvine, California 92618 (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") wants to acquire the entire right, title and interest in and to said improvements and application.

**NOW, THEREFORE**, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to ASSIGNEE the entire right, title and interest in and to said improvements, and said application and all divisions and continuations thereof, and all United States Letters Patents which may be granted thereon and all reissues, reexaminations and extensions thereof, and all priority rights under all available International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms in every participating country, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said improvements in any foreign countries, and all patents (including all continuations, divisions, extensions, renewals, substitutes, and reissues thereof) granted for said improvements in any foreign countries; and I hereby authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for said improvements to ASSIGNEE in accordance with the terms of this Assignment;

**AND I HEREBY** covenant that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

**AND I HEREBY** further covenant and agree that I will communicate to ASSIGNEE any facts known to me respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said improvements in all countries.

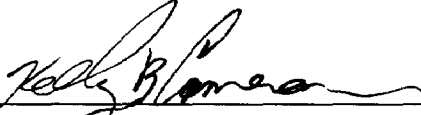
Date: 10/5/01

Hau T. Tran  
Hau Thien Tran


ASSIGNMENT

Docket No. 47102/NJP/B600


Date: 10/5/01

  
\_\_\_\_\_  
Kelly B. Cameron

Date: 10/12/01

  
\_\_\_\_\_  
Ba-Zhong Shen

Date: 10/12/01

  
\_\_\_\_\_  
Christopher R. Jones

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