



REC

07-30-2003



102512159

Docket No. 50490/DBP/B600

DB

Mail Stop Assignment - Recordation Services  
Director of the United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Post Office Box 7068  
Pasadena, CA 91109-7068

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

<p>1. Name of conveying party(ies): <b>David Chin; Mark Buer; Roger Luo</b></p> <p>Additional name(s) of conveying party(ies) attached: NO</p>	<p>2. Name and address of receiving party(ies): Name: <b>Broadcom Corporation</b></p> <p>Street Address: 16215 Alton Parkway, Irvine, California 92618-3616</p> <p style="text-align: right;">7-25-03</p>		
<p>3. Name of conveyance:</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: April 10, 2003</p>	<p>Additional name(s) &amp; address(es) attached? NO</p>		
<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>A. Patent Application No.(s) 10/378,035</p> </td> <td style="width: 50%; vertical-align: top;"> <p>B. Patent No.(s)</p> </td> </tr> </table> <p style="text-align: center;">Additional numbers attached? NO</p>		<p>A. Patent Application No.(s) 10/378,035</p>	<p>B. Patent No.(s)</p>
<p>A. Patent Application No.(s) 10/378,035</p>	<p>B. Patent No.(s)</p>		
<p>5. Please return the recorded document and address all correspondence to:</p> <p style="text-align: center;"><b>CHRISTIE, PARKER &amp; HALE, LLP</b> P.O. Box 7068 Pasadena, CA 91109-7068 Attention: D. Bruce Prout</p>	<p>6. Total number of applications and patents involved <span style="border: 1px solid black; padding: 2px;">1</span></p> <p>7. <input checked="" type="checkbox"/> Total fee enclosed (37 CFR 3.41): \$ 40</p> <p>8. <input checked="" type="checkbox"/> Any deficiency or overpayment of fees should be charged or credited to Deposit Account No. 03-1728, 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.</p>		
<p>10. <input checked="" type="checkbox"/> Explanatory letter is enclosed.</p>			
<p>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.</p> <p>Date: July 21, 2003</p> <p style="text-align: right;">By <u><i>D. Bruce Prout</i></u> Name: D. Bruce Prout 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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450</p> <p><u>7/21/03</u> <u><i>[Signature]</i></u> (Date of Deposit)</p> <p>Total number of pages including cover sheet, attachments, and document: <span style="border: 1px solid black; padding: 2px;">3</span></p>			

DBP/djp DJP PAS516487.1-\*07/21/03 2:16 PM

07/30/2003 LNUELLER 00000054 10370035  
01 FC:0021

40.00 OP

PATENT  
REEL: 014317 FRAME: 0809

# ASSIGNMENT OF PATENT APPLICATION

Whereas I an undersigned inventor have invented certain new and useful improvements as set forth in the patent application entitled:

## METHODS AND APPARATUS FOR INITIALIZATION VECTOR PROCESSING

(Atty. Docket No. BRCMP023/BP 2406), (check one)

- for which I have executed a U.S. patent application on even date herewith. (Accompanying)  
 which bears U.S. application No. 10/378,035. (Not accompanying)  
 which is a U.S. provisional application. (Accompanying)

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I an undersigned inventor hereby:

- 1) Sell, assign and transfer to Broadcom Corporation, a California Corporation, corporation having a place of business at 16215 Alton Parkway, Irvine, California 92618-3616 ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents (including foreign patents and the right to claim priority) granted upon, the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representative, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
- 6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

1. **Inventor Signature:**   
David Chin


**Date:** 4/10/03

State of California )  
 )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_ day of \_\_\_\_\_, in the year 2003, before me, \_\_\_\_\_, Notary Public, personally appeared David Chin, 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(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_ (SEAL)

2. **Inventor Signature:**   
Mark Buer


**Date:** 4/10/03

State of California )  
 )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_ day of \_\_\_\_\_, in the year 2003, before me, \_\_\_\_\_, Notary Public, personally appeared Mark Buer, 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(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_ (SEAL)

3. **Inventor Signature:**   
Roger Luo

**Date:** 04/10/03

State of California )  
 )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_ day of \_\_\_\_\_, in the year 2003, before me, \_\_\_\_\_, Notary Public, personally appeared Roger Luo, 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(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature \_\_\_\_\_ (SEAL)