

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Ravi BHASKARAN</td> <td>02/19/2003</td> </tr> <tr> <td>Bruce J. CURRIVAN</td> <td>02/19/2003</td> </tr> <tr> <td>Thomas J. KOLZE Ph.D</td> <td>02/19/2003</td> </tr> <tr> <td>Ba-Zhong SHEN</td> <td>02/19/2003</td> </tr> </tbody> </table>		Name	Execution Date	Ravi BHASKARAN	02/19/2003	Bruce J. CURRIVAN	02/19/2003	Thomas J. KOLZE Ph.D	02/19/2003	Ba-Zhong SHEN	02/19/2003
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Broadcom Corporation</td> </tr> <tr> <td>Street Address:</td> <td>5300 California Avenue</td> </tr> <tr> <td>City:</td> <td>Irvine</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92617</td> </tr> </table>		Name:	Broadcom Corporation	Street Address:	5300 California Avenue	City:	Irvine	State/Country:	CALIFORNIA	Postal Code:	92617
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Application Number:	12843558										
CORRESPONDENCE DATA											
<p>Fax Number: (202)371-2540 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-371-2600</p> <p>Email: knasabza@skgf.com</p> <p>Correspondent Name: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C</p> <p>Address Line 1: 1100 NEW YORK AVENUE, N.W.</p> <p>Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20005</p>											
ATTORNEY DOCKET NUMBER:	1875.3600002										
NAME OF SUBMITTER:	Kavon Nasabzadeh										
<p>Total Attachments: 2 source=1875.3600002 Assignment#page1.tif</p>											

OP \$40.00 12843558

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PATENT
REEL: 024742 FRAME: 0062

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: 1) Ravi BHASKARAN, 2) Bruce J. CURRIVAN, 3) Thomas J. KOLZE, Ph.D. and 4) Ba-Zhong SHEN, signed inventors hereby sell and assign to **Broadcom Corporation** (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) : for the United States of America (as defined in 35 U.S.C. § 100),
: and throughout the world,

(a) in the invention(s) known as **Turbo Coding for Upstream and Downstream Transmission in Cable Systems** for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 1) 2-19-03, 2) 2-19-03, 3) 2-27-03 and 4) 2-19-03 (also known as United States Application No. to be assigned, filed herewith), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

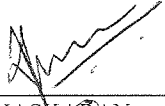
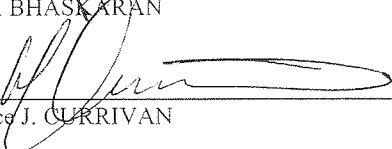
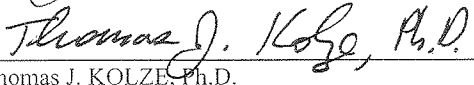
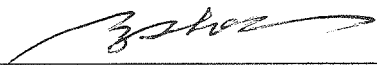
The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) James D. Bennett, Registration No. 37,550, and David J. Rosmann, Registration No. 43,059, of Broadcom Corporation, 16215 Alton Parkway, Irvine, CA 92618-3616, and

Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; Lawrence B. Bugaisky, Esquire, Registration No. 35,086; Donald J. Featherstone, Esquire, Registration No. 33,876; Robert C. Millonig, Esquire, Registration No. 34,395; Judith U. Kim, Registration No. 40,679; Patrick E. Garrett, Registration No. 39,987; Michael V. Messinger, Registration No. 37,575; and Timothy J. Shea, Jr., Registration No. 41,306, all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that 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.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: <u>2-19-03</u>	Signature of Inventor: 
	Ravi BHASKARAN
Date: <u>2-19-03</u>	Signature of Inventor: 
	Bruce J. CURRIVAN
Date: <u>2-27-03</u>	Signature of Inventor: 
	Thomas J. KOLZE, Ph.D.
Date: <u>2-19-03</u>	Signature of Inventor: 
	Ba-Zhong SHEN