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FORM PTO-1595  
(Rev. 6-93)  
OMD No. 0651-0011 (exp. 4/94)

101513409

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

TO  
09/684564  
10/05/00

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): <b>Benjamin J. McCarroll; Rie Sasakawa</b>  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Name: <b>Maxim Integrated Products, Inc.</b>  Internal Address: _____  Street Address: <b>120 San Gabriel Drive</b>  City: <b>Sunnyvale</b> State: <b>CA</b> ZIP: <b>94086</b>  Additional name(s) & address(es) attached? <input type="checkbox"/> 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: <b>10/04/00, 10/04/00</b> , _____	

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: **10/04/00**

A. Patent Application No.(s)	B. Patent No.(s)  <b>09684564</b>
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Additional numbers attached?

5. Name and address of party to whom correspondence concerning document should be mailed:  Name: <b>Blakely, Sokoloff, Taylor &amp; Zafman LLP</b>  Internal Address: _____  Street Address: <b>12400 Wilshire Boulevard</b> <b>7th Floor</b>  City: <b>Los Angeles</b> State: <b>CA</b> ZIP: <b>90025</b>	6. Total number of applications and patents involved: <b>1</b>  7. Total Fee (37 CFR 3.41).....\$ <b>40.00</b> <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account  8. Deposit Account Number: <b>02-2666</b> (Attach duplicate copy of this page if paying by deposit account)
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9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.*

<b>Roger W. Blakely, Jr., Reg. No. 25,831</b> Name of Person Signing	 Signature	<b>October 5, 2000</b> Date
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Total number of pages including cover sheet, attachments, and document: **3**

Mail documents to be recorded with required cover sheet information to:  
Assistant Commissioner of Patents, Box Assignments  
Washington, D.C. 20231

Attorney Docket No. **055123.P164**

**PATENT**  
**REEL: 011217 FRAME: 0121**

## **ASSIGNMENT**

(For Execution Prior To Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

**Benjamin J. McCarroll; Rie Sasakawa**

hereby sell, assign, and transfer to:

**Maxim Integrated Products, Inc.**

a corporation of Delaware, having a principal place of business at 120 San Gabriel Drive, Sunnyvale, California 94086, ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the application for the United States patent that has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and is entitled:

### **DYNAMIC ELEMENT MATCHING USING CURRENT-MODE BUTTERFLY RANDOMIZATION**

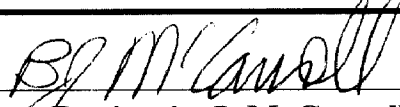
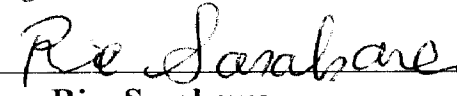
and in and to said application and all divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each inventor: Please also list the date that you signed the accompanying DECLARATION & POWER OF ATTORNEY

Each Inventor: Please Sign and Date Below:

10/4/00	
Date	Name: <b>Benjamin J. McCarroll</b>
10/4/00	
Date	Name: <b>Rie Sasakawa</b>
Date	Name:
Date	Name:
Date	Name:
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Date	Name:
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Date	Name:
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