

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>E. Henry Stevens</td><td>11/27/1984</td></tr><tr><td>Masahiro Maekawa</td><td>11/27/1984</td></tr></tbody></table>		Name	Execution Date	E. Henry Stevens	11/27/1984	Masahiro Maekawa	11/27/1984				
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RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Ramtron Corporation</td></tr><tr><td>Street Address:</td><td>1850 Ramtron Drive</td></tr><tr><td>City:</td><td>Colorado Springs</td></tr><tr><td>State/Country:</td><td>COLORADO</td></tr><tr><td>Postal Code:</td><td>80921</td></tr></table>		Name:	Ramtron Corporation	Street Address:	1850 Ramtron Drive	City:	Colorado Springs	State/Country:	COLORADO	Postal Code:	80921
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<table border="1"><tr><td>Name:</td><td>NMB Semiconductor Company, Ltd.</td></tr><tr><td>Street Address:</td><td>1580 Yamamoto Tateyama-Shi</td></tr><tr><td>City:</td><td>Chiba</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr></table>		Name:	NMB Semiconductor Company, Ltd.	Street Address:	1580 Yamamoto Tateyama-Shi	City:	Chiba	State/Country:	JAPAN		
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PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Patent Number:</td><td>5170242</td></tr></tbody></table>		Property Type	Number	Patent Number:	5170242						
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Patent Number:	5170242										
CORRESPONDENCE DATA											
Fax Number: (312)913-0002 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 312-913-0001											
Email: docketing@mbhb.com											
Correspondent Name: McDonnell Boehnen Hulbert & Berghoff LLP											
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Address Line 2: Robert J. Irvine III											
Address Line 4: Chicago, ILLINOIS 60606											
ATTORNEY DOCKET NUMBER:	07-384										

PATENT

500407242

REEL: 020166 FRAME: 0485

CH \$40.00 5170242

NAME OF SUBMITTER:

Robert J. Irvine III

Total Attachments: 2

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Attorney Docket RAM 319

ASSIGNMENT

Serial No. _____
Filed _____

In consideration of One Dollar and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned inventor, or each inventor if more than one, hereby assigns to RAMTRON CORPORATION, a corporation organized according to the laws of the State of DELAWARE, and to NMB SEMICONDUCTOR COMPANY, LTD., a corporation organized according to the laws of JAPAN, each party to own an undivided one-half interest, their successors and assigns (hereinafter called "said assignees"), the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled REACTION BARRIER FOR MULTILAYER STRUCTURE IN AN INTEGRATED CIRCUIT executed by the undersigned on 27 & 10 Nov. 1989, and in said application and any and all other applications for United States Letters Patent, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignees.

The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the date and serial number of said application.

For said consideration, the undersigned hereby agrees, upon the request and at the expense of said assignees, to execute any divisional, continuation or substitute application for said invention or improvements, and any oath, declaration or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and, in the event of any application or Letters Patent assigned herein becoming involved in interference, to cooperate to the best of the ability of undersigned in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof. The undersigned agrees to perform, upon request, any affirmative acts to obtain said Letters Patent of the United States and vest in said assignees all rights therein, whereby said Letters Patent will be held and enjoyed by said assignees, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the

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undersigned if this assignment had not been made.

And for said consideration, the undersigned hereby assigns to said assignees the entire right, title and interest in said invention or improvements for all foreign countries, including all priority rights under the International Convention, and agrees to execute, at the request of said assignees, all documents in connection with any application for foreign letters patent therefor.

Inventor:

E. Henry Stevens
E. Henry Stevens

27 November, 1989

STATE OF Colorado
COUNTY OF El Paso

Before me, a Notary Public in and for the County and State aforesaid, appeared E. Henry Stevens to me personally known to be the signer, or signers, of the foregoing instrument, and acknowledged execution of said instrument as a free and voluntary act for the uses and purposes therein expressed.

James Ray Madrice
Notary Public
My Commission Expires May 27, 1992

Inventor:

Masahiro Maekawa
Masahiro Maekawa

STATE OF Chiba-ken
COUNTY OF Japan

Before me, a Notary Public in and for the County and State aforesaid, appeared _____ to me personally known to be the signer, or signers, of the foregoing instrument, and acknowledged execution of said instrument as a free and voluntary act for the uses and purposes therein expressed.

RECORDED
PATENT & TRADEMARK OFFICE

Notary Public

DEC - 4 1989

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Jeffrey L. Smith
ACTING COMMISSIONER OF
PATENTS AND TRADEMARK OFFICE

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