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To the Commissioner o	of Patents and Tra	100822740		inal docum	ments or copy thereof.	
 Name of conveyin Duncan James Bre Ray Allen Reed 		MRD	2. Name	and address of	f receiving party(ies)	PTÖ B
	8	124/90	Name:	NATIONAL SEMIC	CONDUCTOR CORPORATION	300
	0,	121/10	Internal	Address: <u>M/S</u>	5 D3-579	27
Additional name(s) of		s) attached?	Street A	ddress: 2900	Semiconductor Drive	160
			City, St	ate and Zip:	<u>Santa Clara, CA 95051</u>	-8090
3. Nature of Convey	vance:		Addition	al Namada) P		
X Assignment-Two	Merge	r	Addition		address(es) attached? Yes X No	
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Other						
Execution Date:	08/21/98 and 08/	13/98	:			
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4. Application numb	per(s) or patent num	per(s):				
If this document 08/21/98 & 08/13		ether with a new applicat	ion, the e	xecution date	of the application is	:
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5. Name and address document should		prrespondence concerning	6. Total	number of app	blications and patents	involved: 1
Name: <u>Mark A. D</u>	alla Valle		7. Total	fee (37 CFR 3	\$.41): \$ _40.00	
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Street Address: City, State, ZIP Telephone:			X Aut	Deposit Accou	ficiencies in the enc int No. 12-1420 charged to deposit ac	E
Facsimile:	(415) 433-8716		8. Depos	it account num	nber: 12-1420	
Attorney Docket	No. NSC1-E3900 [P040	0251	(Attach du	plicate copy of th	is page if paying by deposit	account)
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9. Statement and si	gnature.					
To the best of my kn	nowledge and belief, the f	oregoing information is true and	correct and a	any attached copy	is a true copy of the origina	al document.
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	<u>la Valle, Reg. No. 3</u> of Person Signing	34,147	<u>Carl</u> i Signa	ture	<i>127</i>	Date
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Attorney Docket No.<u>NSC1-E3900</u> [P04025]

ASSIGNMENT

WHEREAS, WE, <u>Duncan James Bremner and Ray Alien Reed</u>, hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention. TRANSIENT SIGNAL DETECTOR WITH TEMPORAL HYSTERESIS

Application Execution Date: 08/21/98

Filing Date: HEREWITH

Application No : <u>NEW</u>;

WHEREAS, <u>NATIONAL SEMICONDUCTOR CORPORATION</u>, a corporation of the State of Delaware, 2900 Semiconductor Drive, M/S D3-579, Santa Clara, California 95051-8090, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in the said invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and ir consideration of the sum of One Dollar (S1.00) lawful money paid to Assigners by Assignee, receipt of which is hereby acknowledged. Assigneds has sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee, and Assignee's successors and assigns, all right, title and interest in and to the said invention, said application for United States latters Fatent, and any Letters Petent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations to whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, the add interest to be held and empoyed by said Assignee as fully and exclusively as it would have been held and empoyed by said Assignment and transfer not been made, to the full end and term of any tetters Patent.

Assigners further agree that they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of absignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain a muticain Letters Patent for said invention and improvement in any and all countries, and to yest title thereof in said Assignee, it Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor can be easily signed as the name to this assignment on the dates indicated below.

Duncan James Bremner Dated: 21/12-56/98 State of Scotings County of RENERCE

2.3 9 tel 2998 -Cognes. 1 alkingher der 1 Renatte 1 before may 0n

personally appeared <u>therefull (1998)</u> (1990), personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official sea.

Signature of Notary

SEAL

IN TESTIMONY WHERFOP, Assignor has hereunto signed his/her name to this assignment on the dates indicated below.

Dated:

Ray Allen Reed

State of

County of

before me,

personally appeared _______, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary

SEAL

0n _____

Attorney Cocket No.<u>NSC1-E3900</u> [P04625]

ASSIGNMENT

WHEREAS, WE, <u>Duncan James Brenner and Ray Allen Reed</u>, beleinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States letters Parent:

Title of invention: TRANSIENT SIGNAL DETECTOR WITH TEMPORAL HYSTERESIS

Application Execution Date: 08/13/98 Filing Date: HEREWITH

Application No.: <u>NEW</u>;

WHEREAS, <u>NATIONAL SEMICONDUCTOR CORFORATION</u>, a corporation of the state of Delaware, 2900 <u>Semiconductor Drive</u>, M/S D3-579, <u>Santa Clara</u>, <u>California 95651-8090</u>, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in the said invention and application and in any letters Patern which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN- Be it known that, for and it consideration of the sum of One Dollar (S1 G0) lawful money peed to Assignors by Assignee, secent of which is hereby acknowledged, Assignee, and Assignee's successors and assignes, all right, title and interest in and to the said invention, said application for Dolled States letters Patent, and any Letters Patent which may hereafte: be granted on the same in the Dolled States and all countries throughout the world including any divisions, renewals, continuations is whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assigners had this assignment and transfer not been made, to the full ead and term of any betters Patent

Assignors further agree that they will, without tharge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for betters Patent and for the reissue thereof, and enstruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain on maintain betters Patent for said invention and improvement in any and all count ies, and to yest title thereto in said Assignee, or Acsignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has become o signed his/net name to this assignment on the dates indicated below.

Dated:

Duncar James Bremner

State of

County of

before use,

personally appeared _______, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Signature of Notary

SEAL

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IN TESTIMONY WHEREOF, Assignor has bereanto signed his/her name to this assignment on the dates indicated below. $\frac{3}{2}$

11 Dated: State of _____ County of _____ 0n before as, -----

personally appeared ________, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary

SEAL

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

County of SANTA CLARA	
On <u>AUGUST 13th 1998</u> before me, personally appeared <u>RAY A</u> . <u>REET</u>	JILL E. BRENT
Date Roy A ROST	Name and Title of Officer (e.g., "Jane Doe, Notary Public")
personally appeared INHY H. NECL	Name(s) of Signer(s)
v a s t	on the basis of satisfactory evidence to be the person(s) whose name(s) is/a) subscribed to the within instrument and acknowledged to me that he/s) //they executed the same in his/h) //their authorized capacity(i) (s), and that by his/h) //their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
Notary Public - California	WITNESS my hand and official seal.
My Comm. Expires Mar 22, 2002	All Z Dilent
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Though the information below is not required by law, it may prevent and reattact Description of Attached Document Title or Type of Document: NEW Document Date: 8 - 6 - 98 Signer(s) Other Than Named Above: NONE Capacity(ies) Claimed by Signer(s) Signer's Name: RAY A, REED Individual Corporate Officer Title(s): Partner Limited General Attorney-in-Fact Trustee	Signer's Name: Individual Corporate Officer Title(s): Partner [] Limited [] General Attorney-in-Fact
Though the information below is not required by law, it may prevent fraudulent removal and reattact Description of Attached Document Title or Type of Document: NEW Document Date: 8-6-98 Signer(s) Other Than Named Above: NONE Capacity(ies) Claimed by Signer(s) Signer's Name: RAY A, REED Individual Corporate Officer Title(s): Partner Limited General Attorney-in-Fact	Signer's Name: Individual Corporate Officer Title(s): Partner

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