4-27-01

FORM PTO-1619A Expires 06/30/99 OMB 0651-0027 05-10-2001

U.S. Department of Commerce Patent and Trademark Office PATENT



101710461
RECORDATION FORM COVER SHE

RECORI	PATENTS ONLY			
TO: The Commissioner of Patents and Tradema	rks: Please record the attached original document(s) or copy(ies).			
Submission Type	Conveyance Type			
New	X Assignment Security Agreement			
Resubmission (Non-Recordation) Document ID#	License Change of Name			
Correction of PTO Error Reel # Frame #	Merger Other U.S. Government			
Corrective Document Reel # Frame #	(For Use ONLY by U.S. Government Agencies)  Departmental File  Secret File			
Conveying Party(ies)	Mark if additional names of conveying parties attached Execution Date  Month Day Year			
Name (line 1) Joseph D. Wert	04 25 2001			
Name (line 2)	Execution Date			
Second Party Name (line 1) William E. Ballachino	Month Day Year			
	01 25 2001			
Name (line 2)				
Receiving Party	Mark if additional names of receiving parties attached			
Name (line 1) National Semiconductor Corporat	On If document to be recorded Is an assignment and the receiving party is not			
Name (line 2)	domiciled in the United States, an appointment of a domestic			
Address (line 1) 2900 Semiconductor Drive	representative is attached. (Designation must be a			
Address (line 2)	separate document from Assignment.)			
Address (line 3) Santa Clara	California 95051 State/Country Zip Code			
Domestic Representative Name and				
Name Name				
Address (line 1)				
Address (line 2)				
Address (line 3)				
Address (line 4)				
FOR OFFICE USE ONLY				
2001 LMUELLER 00000347 140448 09844183 )				
	and the second s			

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments , Washington, D.C. 20231

PATENT

FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT
Correspondent Name and Addres	SS Area Code and Telephone Number	(214) 922-9221
Name William A. Munck		
Address (line 1) Novakov Davis & Munck,	P.C.	
Address (line 2) 13155 Noel Road, Suite 90	00	
Address (line 3) Dallas, Texas 75240		
Address (line 4)		
Pages Enter the total number of including any attachme	of pages of the attached conveyance documents.	ent # 2
Application Number(s) or Patent		dditional numbers attached
	the Patent Number (DO NOT ENTER BOTH numbers t	
Patent Application Number(s	s) Patent	Number(s)
If this document is being filed together with a <u>new</u> signed by the first named executing inventor.	Patent Application, enter the date the patent application	n was Month Day Year
Patent Cooperation Treaty (PCT)		
Enter PCT application numbe	PCT PCT PCT	PCT
only if a U.S. Application Nu		РСТ
has not been assigned.	101	
Number of Properties Enter th	e total number of properties involved. #	1
Fee Amount Fee Amo	ount for Properties Listed (37 CFR 3.41): \$	40
Method of Payment: E	Enclosed Deposit Account	
	if additional fees can be charged to the account.)  Deposit Account Number: #	140448
	Authorization to charge additional fees:	Yes X No
Statement and Signature		
To the best of my knowledge an	nd belief, the foregoing information is true a	nd correct and any
attached copy is a true copy of	the original document. Charges to deposit	account are authorized, as
indicated herein.	1/11 Och	0 1
William A. Munck	Wille Munck	(tpi/27,200/

Name of Person Signing

PATENT

PTO/SB/15 (8-96)
Approved for use through 9/30/98. OMB 0651-0027
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

ASSIGNMENT OF APPLICATION	P04928	
Whereas, I, Joseph D. Wert of Arlington	on, Texas hereafte	
referred to as applicant, have invented certain new and useful improvements		
VOLTAGE LEVEL SHIFTER WITH HIGH IMPEDANCE TRI-ST		
METHOD OF OPERATION	THE COTTOT THE	
for which an application for a United States Patent was filed on		
for which an application for a United States Patent was executed on	, and	
Whereas, National Semiconductor Corporation of Santa Clara, Californ	mia 95051 herein referred to	
"assignee" whose post office address is	is de	
sirous of acquiring the entire right, title and interest in the same;		
Now, therefore, in consideration of the sum of $\underline{two}$ dollars (\$\bigs_2.00\)	), the receipt whereof is ac	
knowledged, and other good and valuable consideration, I, the applicant, by	these presents do sell, assigr	
and transfer unto said assignee the full and exclusive right to the said invention	on in the United States and the	
entire right, title and interest in and to any and all Patents which may be grante	ed therefor in the United States	
I hereby authorize and request the Commissioner of Patents and Trademar	ks to issue said United States	
Patent to said assignee, of the entire right, title, and interest in and to the sam	ne, for his sole use and behoof	
and for the use and behoof of his legal representatives, to the full end of the to	erm for which said Patent may	
be granted, as fully and entirely as the same would have been held by me had	d this assignment and sale no	
been made.		
Executed this April 25 day of	200 <b>d</b> )	
at National Semiconductor - Arlings	ton Texas	
() , $nl$		
Joseph D	Y · W LVI (Signature)	
State of \(\frac{\fin}{\fint}}}}}}{\frac{\fir}{\fin}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\fin}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}{\firac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fracc}\fir\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\f	(Olgitature)	
County of ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		
and acknowledged the foregoing instrument to be his free act and deed this day of	254h	
TOSHA RAY		
Seal MY COMMISSION EXPIRES	Notery Public)	

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner of Patents and Trademarks, Washington, DC 20231.

PTO/SB/15 (8-96)
Approved for use through 9/30/98. OMB 0651-0027
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## **ASSIGNMENT OF APPLICATION**

Docket Number (Optional) P04928

Whereas, I, William E. Ballachino of Arlington, Texas, hereafter
referred to as applicant, have invented certain new and useful improvements in
VOLTAGE LEVEL SHIFTER WITH HIGH IMPEDANCE TRI-STATE OUTPUT AND METHOD OF OPERATION
for which an application for a United States Patent was filed on, Application Number/
for which an application for a United States Patent was executed on, and
Whereas, National Semiconductor Corporation of Santa Clara, California 95051 herein referred to
"assignee" whose post office address is is de-
sirous of acquiring the entire right, title and interest in the same;
Now, therefore, in consideration of the sum of <u>two</u> dollars (\$
knowledged, and other good and valuable consideration, I, the applicant, by these presents do sell, assign
and transfer unto said assignee the full and exclusive right to the said invention in the United States and the
entire right, title and interest in and to any and all Patents which may be granted therefor in the United States,
I hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States
Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof;
and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may
be granted, as fully and entirely as the same would have been held by me had this assignment and sale not
been made.
Executed this 25th day of April ,2001,
at 2:30pm at National Semiconductor-Arlington, TX.
William E. Balle.
State of Quan, SS: (Signature)
County of Oarrant)
and acknowledged the foregoing instrument to be his free act and deed this 3544
day of Nosha Ray
Seal JANUARY 26, 2004 (Notary Public)

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the Individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner of Patents and Trademarks, Washington, DC 20231.

**RECORDED: 04/27/2001** 

**PATENT**