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FORM PTO-1595 (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94) M&G- 50019.66US01/P04966 U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

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To the Commissioner of Patents and Trademarks. Please record the attached original documen	ts or copy thereof.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
Andy Morrish 7–17–0)	National Semiconductor Corporation 2900 Semiconductor Drive Mail Stop D3-579 Santa Clara, California 95051
Additional name(s) of conveying party(ies) attached? Yes No Nature of conveyance: Merger	Additional name(s) & address(es) attached?
Security Agreement Change of Name Other:	II.
Execution Date: 07/13/2001	
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: 07/12/01
A. Patent Application No.(s)	B. Patent No.(s)
Additional numbers	attached? ☐ Yes ☒ No
5. Name and address of party to whom correspondence concerning document should be mailed:	ng 6. Total number of applications and patents involved: 1
	7. Total fee (37 CFR 3.41): \$40.00 Enclosed
Name: Timothy P. Sullivan Address: Merchant & Gould P.C.	Authorized to be charged to deposit account
Address: Merchant & Gould P.C. P.O. Box 2903 Minneapolis, MN 55402-0903	Please charge any additional fees or credit any overpayments to our Deposit account number: 13-2725
DO NOT U	ISE THIS SPACE
9. Statement and signature:	ftha
To the best of my knowledge and belief, the foregoing inform	nation is true and correct and any attached copy is a true copy of the
original document.	7/17/01
Timothy P. Sullivan	Signature Date
Name of Person Signing	Total number of pages including cover sheet, attachments, and document: 3
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Director - U.S. Pat	tent and Trademark Office
Public burden reporting for this sample cover sheet is estimated to average document and gathering the data needed, and completing and reviewing the Patent and Trademark Office, Office of information systems, PK2-1000C, Reduction Project (0651-0011), Washington, D.C. 20503.	gton, D.C. 20231 about 30 minutes per document to be recorded, including time for reviewing the about 30 minutes per documents regarding this burden estimate to the U.S. e sample cover sheet. Send comments regarding this burden estimate to the U.S. Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Washington, D.C. 20231
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PATENT REEL: 012016 FRAME: 0356

ASSIGNMENT

WHEREAS, I, Andy Morrish, residing at 12657 Sun Valley Court, Saratoga, California 95070, made certain new and useful inventions and improvements as described and claimed in the specification forming part of an application for Letters Patent of the United States executed herewith, which is entitled LOW COST HORIZONTAL BAR INDICATOR SYSTEM FOR ON SCREEN DISPLAYS.

AND WHEREAS, National Semiconductor Corporation, a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 2900 Semiconductor Drive, Santa Clara, California 95051-8090 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire

PATENT REEL: 012016 FRAME: 0357 right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

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

STATE OF <u>CALIFORNIA</u>) ss. COUNTY OF <u>SAMOR CLARA</u>)

On this 1316 day of 3449, 2001, before me personally appeared Andy Morrish to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

ALLEN R. TREMAIN
Commission # 1174280
Notary Public - California
Santa Clara County
My Comm. Expires Feb 21, 2002

RECORDED: 07/17/2001

Notary Public

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PATENT TRADEMARK OFFICE