05-22-2002

FORM PTO-1595 U.S. Department of Commerce EET Patent and Trademark Office 102099771 TI-32902 To the Ass't Commissioner for Patents. Please record the attached original documents or copy thereof. Name of conveying party(ies): 2. Name and Address of receiving party(ies): 1) Robert J. Cyran (10/18/01) Name: TEXAS INSTRUMENTS INCORPORATED 2) David A. Syiek (10/22/01) 5-8-02 Address: P.O. Box 655474, MS 3999 City: Dallas State: TX Zip: 75265 Additional name(s) & address(es) attached? ___ Yes _X_No 3. Nature of Conveyance: X Assignment ____ Merger ____ Change of Name Security Agreement ____ Other ____ Execution Date: October 18 and 22, 2001 4. Application number(s) or patent number(s). This document is being filed together with a new application. 141 585 Execution date of the application: October 18 and 22, 2001 Title: Linking of Applications Into Devices Having Overlays and Shadow Memories Docket No: TI-32902 B. Patent No.(s) A. Patent Application No.(s) S.N. X,XXX,XXX Additional numbers attached? _____Yes __X__No Additional numbers attached? ____ Yes _X_ No 6. Number of applications and patents involved: ___(1)___ 5. Name and address of party to whom correspondence concerning document should be mailed: Robert D. Marshall, Jr. Name: Texas Instruments Incorporated Address: P.O. Box 655474, MS 3999 Dallas City: TXZip: 75265 State: 7. Amount of fee enclosed or authorized to be charged: \$40 8. Deposit Account No: 20-0668 (No duplicate copy is needed). DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. May 8, 2002 Date Total Number of Pages Including Cover Sheet, Attachments and Document: 3 10141585 00000054 200668 2/2002 TDIAZI FC:581 40_00 CH

> PATENT REEL: 012903 FRAME: 0320

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and]

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with its principal office at P.O. Box 655474, MS 3999, Dallas, Texas 75265, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Ass't Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	Linking of Applications Into Devices Having Overlays and Shadow Memories		
SIGNATURE OF INVENTOR AND NAME	X Nilet (1) Cyling Robert J. Cyran	(2) David A. Syiek	(3) n/a
DATE	x 13/12/01		
RESIDENCE (City, State)	320 Links Ct. Delmont, PA 15626 US	103 Walnut Ridge Dr. Pittsburgh, PA 15238-1210 US	
DATE APPLICATION EXECUTED	K 10/12/01		

After recordation, please return Assignment to:

Robert D. Marshall, Jr. Texas Instruments Incorporated P.O. Box 655474, MS 3999 Dallas, TX 75265

> PATENT REEL: 012903 FRAME: 0321

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and]

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IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	Linking of Applications Into Devices Having Overlays and Shadow Memories		
SIGNATURE OF INVENTOR AND NAME	(1) Robert J. Cyran	X David a Syick David A. Syick 005 n/a	(3)
DATE		X Lavid a Squet	,
RESIDENCE (City, State)	320 Links Ct. Delmont, PA 15626 US	10/32/0; 103 Walnut Ridge Dr. Pittsburgh, PA 15238-1210 US	
DATE APPLICATION EXECUTED		X 10/22/01	

After recordation, please return Assignment to:

RECORDED: 05/08/2002

Robert D. Marshall, Jr.
Texas Instruments Incorporated
P.O. Box 655474, MS 3999
Dallas, TX 75265

PATENT REEL: 012903 FRAME: 0322