1 2002 10 2	A41350.1A
」2003 55 	04-28-2000
EMARY ODORM PTO-1595	04-28-2003 U.S. Department of Commerc Patent and Trademark Offic
	102432553 Patent and Trademark Offic
To the Assistant Commissioner For Pa	atents. Please record the attached original documents or copy thereof.
1. Name of conveying party(ies)	2. Name and Address of receiving party(ies):
•••••••••••••••••••••••••••••••••••••••	P. 03 Name: Texas Instruments Incorporated
Andrew S. Dewa Herzel Laor	Address: P.O. Box 655474, MS 3999
David I. Forehand (see Petition under 37 CFI James A. Sisco	R 1.147) City: Dallas
	State: Texas Zip: 75265
Addiitonal name(s) & address(es) attached?Yes	
3. Nature of Conveyance:	
_X Assignment Merger	
Security Agreement Change of Na	me
Other	
4. Application number(s) or patent number(s)	
This document is being filed together with Execution date of the application: Title: Docket No.:	n a new application
A. Patent Application No.(s): 10/290,691	B. Patent No.(s)
Additional numbers attached? Yes X	_ No Additional numbers attached Yes No
Name and address of party to whom correspond concerning document should be mailed:	dence 6. Number of applications and patents involved: <u>1</u>
Name: Charles A. Brill, Patent Attorney Texas Instruments Incorporated	7. Amount of fee enclosed or authorized to be charged : \$40
Address: P.O. Box 655474, MS 3999	8. Deposit account number 20-0668.
Address: P.O. Box 655474, MS 3999 City: Dallas	8. Deposit account number 20-0668 . (Triplicate copies are not necessary)
City: Dallas	
City: Dallas State: Texas Zip: 75265	(Triplicate copies are not necessary)
City: Dallas State: Texas Zip: 75265 9. Statement and Signature.	(Triplicate copies are not necessary)
City: Dallas State: Texas Zip: 75265 9. Statement and Signature. To the best of my knowledge and belief, the fore	(Triplicate copies are not necessary) DO NOT USE THIS SPACE egoing information is true and correct and any attached copy is a true copy of the
City: Dallas State: Texas Zip: 75265 9. Statement and Signature. To the best of my knowledge and belief, the fore	(Triplicate copies are not necessary) DO NOT USE THIS SPACE
City: Dallas State: Texas Zip: 75265 9. Statement and Signature. To the best of my knowledge and belief, the fore original document. Without Statement To the fore original document.	(Triplicate copies are not necessary) DO NOT USE THIS SPACE egoing information is true and correct and any attached copy is a true copy of the Charles A. Brill, Reg. No. 37,786
City: Dallas State: Texas Zip: 75265 9. Statement and Signature. To the best of my knowledge and belief, the fore original document. Image: Comparison of the second se	(Triplicate copies are not necessary) DO NOT USE THIS SPACE egoing information is true and correct and any attached copy is a true copy of the Charles A. Brill, Reg. No. 37,786
City: Dallas State: Texas Zip: 75265 9. Statement and Signature. To the best of my knowledge and belief, the fore original document. Image: Signature Signature Image: Signature Total number of pages	(Triplicate copies are not necessary) DO NOT USE THIS SPACE egoing information is true and correct and any attached copy is a true copy of the Charles A. Brill, Reg. No. 37,786
City: Dallas State: Texas Zip: 75265 9. Statement and Signature. To the best of my knowledge and belief, the fore original document. Image: Signature Image: Signature Image: Signature Image: Signat	(Triplicate copies are not necessary) DO NOT USE THIS SPACE egoing information is true and correct and any attached copy is a true copy of the Charles A. Brill, Reg. No. 37,786 Name of Person Signing s including cover sheet, attachments, and document: 7
City: Dallas State: Texas Zip: 75265 9. Statement and Signature. To the best of my knowledge and belief, the fore original document. Julian Sull Signature Julian Sull Signature Julian Sull Signature Julian Sull Signature Signature Julian Sull Signature Signature Julian Sull Sull State Total number of pages State Sull	(Triplicate copies are not necessary) DO NOT USE THIS SPACE egoing information is true and correct and any attached copy is a true copy of the Charles A. Brill, Reg. No. 37,786 Name of Person Signing

REEL: 013989 FRAME: 0579

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or each 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 a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, 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 and 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 Commissioner of Patents and Trademarks 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 hand and seal this day and y	/ear;
---------------------	---	-------

TITLE OF INVENTION	OPTICAL SWITCHING APPARATUS		
SIGNATURE OF INVENTOR	11 June 12	Andra A Ela	(3)
AND NAME	John W. Orcutt	Andrew S. Dewa	Herzel Laor
DATE	F@318'03	18 Feb. 2003	
RESIDENCE (City, State)	Richardson, Texas	Plano, Texas	Boulder, Colorado
DATE APPLICATION EXECUTED	FE318'03	18 Fes. 2.003	

After recording, return Assignment to:

TITLE OF INVENTION	OPTICAL SWITCHING APPARATUS		
SIGNATURE OF INVENTOR AND NAME	(4) David I. Forehand	(5) James A. Sisco	(6) N/A
DATE			
RESIDENCE (City, State)	Plano, Texas	Esmond, Rhode Island	
DATE APPLICATION EXECUTED		,	······································

After recording, return Assignment to:

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or each 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 a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, 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 and 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 Commissioner of Patents and Trademarks 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 hand and seal this day and year;

TITLE OF INVENTION	OPTICAL SWITCHING APPARATUS		
SIGNATURE OF INVENTOR AND NAME	(1) John W. Orcutt	(2) Andrew S. Dewa	Herzel Laor (3)
DATE			Eb. 14, 2003
RESIDENCE (City, State)	Richardson, Texas	Plano, Texas	Boulder, Colorado
DATE APPLICATION EXECUTED			Feb 14, 2003

After recording, return Assignment to:

Charles A. Brill Texas Instruments Incorporated P.O. Box 655474, MS 3999 Dallas, Texas 75265

PATENT REEL: 013989 FRAME: 0582

TITLE OF INVENTION	OPTICAL SWITCHING APPARATUS		
SIGNATURE OF INVENTOR AND NAME	(4) David I. Forehand	(5) James A. Sisco	(6) N/A
DATE			
RESIDENCE (City, State)	Plano, Texas	Esmond, Rhode Island	
DATE APPLICATION EXECUTED			,

After recording, return Assignment to:

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or each 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 a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, 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 and 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 Commissioner of Patents and Trademarks 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.

TITLE OF INVENTION	OPTICAL SWITCHING APPARATUS		
SIGNATURE OF INVENTOR AND NAME	(1) John W. Orcutt	(2) Andrew S. Dewa	(3) Herzel Laor
DATE			
RESIDENCE (City, State)	Richardson, Texas	Plano, Texas	Boulder, Colorado
DATE APPLICATION EXECUTED			

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

After recording, return Assignment to:

TITLE OF INVENTION	OPTICAL SWITCHING APPARATUS			OPTICAL SWITCHING APPAR	
SIGNATURE OF INVENTOR AND NAME	(4) David I. Forehand	James A. Sisco	(6) N/A		
DATE		3-5-03			
RESIDENCE (City, State)	Plano, Texas	Esmond, Rhode Island			
DATE APPLICATION EXECUTED		3-5-03			

After recording, return Assignment to: