## 01-28-2002



FORM PTO-1595	10196	32450 EKSILLI	U.S. Department of Commerce	
Docket Number: TI-33385	Patents Only		Patent and Trademark Office	
To the Ass't Commissioner for Patents. P	lease record the attached or	riginal documents or copy the	ereof.	
1. Name of conveying party(ies): Ray D. Harrrison Jianbai Zhu Kendall S. Wills Willmar Subido	1/02	Address: P. O City: Dalla	as Instruments Incorporated . Box 655474 M/S 3999 as, TX 75265 ed States of America	
3. Nature of Conveyance:			<u> </u>	
_X_ Assignment	Merger		•	
Security Agreement	Change of Name			
Other				
Execution Date: January 11, 2002, Januar		02, and January 11, 2002		
4. Application number(s) or patent number(s	3).			
X This document is being filed together	••			
Execution date of the application: <u>January 11</u> Title: Repackaging Semiconductor IC Device				
A. Patent Application No.(s) S.N		B. Patent No.(s)		
Additional number attached?	Yes <u>X</u> No	Additional numbers a	ttached?YesXNo	
Name and address of party to whom corre document should be mailed:	spondence concerning		s and patents involved:(1)	
Mike Skrehot Texas Instruments Incorporated P. O. Box 655474, M/S 3999 Dallas, TX 75265 Tel: (972) 917-5633 TI-32769				
1132703		7. Amount of fee enclose	d or authorized to be charged: \$40.	
		8. Deposit Account No:	20-0668	
DO NOT USE THIS SPACE				
9. Statement and signature.				
To the best of my knowledge and belief, the document.	e foregoing information is	West !	ched copy is a true copy of the original Klingst 34,365	
Total Numb	er of Pages Including Cove	er Sheet, Attachments and Do	ocument: 2	

01/25/2002 AAHMED1 00000118 200668 10044024 01 FC:581 40.00 CH

3: 3068371v1

## ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, hering-inventor center new and useful improvements as below critical, for which application for United States Letters Patent is trade, the said application having been executed on the data set forth below; and

WHERRAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organism and existing under the laws of the State of Delaware, with its principal office at 7839 Churchill Way, M.S. 3999, Dallas, TX 78291, is desirous of acquiring my entire right, title and inverset in and to the said invention, and to the said application and any Letters Parent that may issue therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I beneby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, in successors and emigrat, my entire right, title and interest in said to the said invention and in to the said application and all patterns which may be granted therefore, and all fivident, relatives, substitutions, continuations, and expensions thereof, and I hereby authorize and request the Commissioner of Patterns and Trademarks to issue all patterns for said invention, or pattern resulting thereform, insofar as my inverse; is concerned, to the said TEXAS INSTRUMENTS INCORPORATED as antiques of my entire right, title and interest.

I also bereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, in 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 logal representatives, any facts known to me respecting said invention, and at the expense of said assigns: company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, raissus and substitute applications, make all lawful caths, 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 heremo see hand and seal this day and year;

TITLE OF INVENTION	REPACKAGING SEMICONDUCTOR IC DEVICES FOR FAILURE ANALYSIS			
SIGNATURE	(1)Ray D, Harrison	(2) Jianbai Zhu	(3)Kendall S. Wills	
OF INVENTOR AND NAME <		-12 L.		
DATE	01/11/02	01111/02		
RESIDENCE (City, County, State)	Garland, Dallas, Texas	Plano, Collin, Taxas	Sugarland, Fort Bend, Texas	

Mike Skrehot Texas Instruments Incorporated P. O. Box 655474, M/S 3999 Dallas, TX 75265

4: 3068371v1

PATENT REEL: 012498 FRAME: 0882

## **ASSIGNMENT**

WHEREAS, 1, 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 7839 Churchill Way, M.S. 3999, Dallas, TX 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 to the said application and all patents which may be granted merefore, and all divisions, relations, substitutions, continuations, and excensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patent resulting therefore, 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 commerces 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 my 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, my facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, signall lawful papers, execute all divisional, communition, 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	REPACKAGING SEMICONDUCTOR IC DEVICES FOR FAILURE ANALYSIS			
SIGNATURE OF INVENTOR AND NAME	(1)Ray D. Harrison	(2) Jimbai Zhu	(3) Kendall S. Wills  Wills  Wills  Wills	
DATE			1/10/2002	
RESIDENCE (City, County, State)	Gariand, Dallas, Texas	Plano, Collin, Texas	Sugarland, Fort Bend, Texas	

Mike Skrehot Texas Instruments Incorporated P. O. Box 655474, M/S 3999 Dallas, TX 75265

## 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 Delawars, with its principal office at 7839 Churchill Way, M.S. 3999, Dallas, TX 75251, is desirous of acquiring my entire right, title and interest in and to the said application, and to the said application, and any Legacy Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby scinowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its aucressors 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 therefore, and all divisions, releases, 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 thereform, insofar as my interest is concerned, to the said TEXAS INSTRUMENTS INCORPORATED as assigned 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 the respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, communition, reissue and substitute applications, make all lawful onths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patient protection for said invention in all countries.

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

TITLE OF INVENTION	REPACKAGING SEMICONDUCTOR IC DEVICES FOR FAILURE ANALYSIS		
SIGNATURE OF INVENTOR AND NAME	(1) Willson Subido	(2)	(3
DATE	01/11/02		
RESIDENCE (City, County, State)	Garland, Dallas, Texas		

Mike Skrehot Texas Instruments Incorporated P. O. Box 655474, M/S 3999 Dallas, TX 75265

7: 3068371v1

**RECORDED: 01/11/2002** 

PATENT REEL: 012498 FRAME: 0884