U.S. Department of Commerce

TI-29894	101869822
To the Assistant Commissioner for Patents. Please record the	ne attached original documents or copy thereof.
1. Name of conveying party(ies):  Gregory E. Howard  Jeffrey A. Babcock  Angelo Pinto  Scott Balster	2. Name and Address of receiving party(ies):  Name: TEXAS INSTRUMENTS INCORPORATED  Address: P.O. Box 655474, MS 3999  City: Dallas  State: TX Zip: 75265  Additional name(s) & address(es) attached? Yes _X_ No
Nature of Conveyance:	
X Assignment Merger	
Security Agreement Change of Name	
Other	
Execution Date: Howard 10/19/2000; Babcock, Pinto, Bal-	ster 10/26/2000
Application number(s) or patent number(s).	13/9/11/07
X This document is being filed together with a new application	07/967/87
Execution date of the application: Howard 10/19/200; Babco Title: Improved Bipolar Junction Transistor Docket No: TI-29894	_
A. Patent Application No.(s)     (to be assigned)	B. Patent No.(s)
Additional numbers attached? YesX_ No	Additional numbers attached? YesX No
Additional numbers attached? YesX No.  5. Name and address of party to whom correspondence concerdocument should be mailed:	
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Name and address of party to whom correspondence concerdocument should be mailed:      Name: Peter K. McLarty, Reg. No. 44,923	
Name and address of party to whom correspondence concerdocument should be mailed:      Name: Peter K. McLarty, Reg. No. 44,923      Texas Instruments Incorporated	
Name and address of party to whom correspondence concerdocument should be mailed:      Name: Peter K. McLarty, Reg. No. 44,923     Texas Instruments Incorporated  Address: P.O. Box 655474, MS 3999	6. Number of applications and patents involved:(1)
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**PATENT REEL: 012221 FRAME: 0467** 

## 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 7839 Churchill Way, M.S. 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 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;

PATENT REEL: 012221 FRAME: 0468

TITLE OF INVENTION	Improved Bipolar Junction Transistor  Should be A. Phronick		
SIGNATURE OF INVENTOR AND NAME	(1) Gregory E. Howard	Jeffrey Babcock	Angelo Pinto
DATE RESIDENCE (CITY AND STATE)	× /0/19/2000  Dallas, Texas	Dallas, Texas	x 10/26/60 Allen, Texas
DATE APPLICATION EXECUTED	10/19/2000	10/26/2000	10/26/2000
SIGNATURE OF INVENTOR AND NAME	(4) Scott Balster	()	()
DATE RESIDENCE	X 26-02 - 2444		
(CITY AND STATE)  DATE APPLICATION EXECUTED	Richardson, Texas		

After recording, return Assignment to: Peter K. McLarty

Texas Instruments Incorporated

P.O. Box 655474, M/S 3999

Dallas, TX 75265

PATENT RECORDED: 09/28/2001 REEL: 012221 FRAME: 0469