

05-28-1998

FORM PTO-1595

TI-25895

5-19-98



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U.S. Department of Commerce  
Patent and Trademark Office

To the Assistant Commissioner for Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  Suat Yeldener	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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of Conveyance:  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger  <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other _____  Execution Date: 5/16/97			
4. Application number(s) or patent number(s). <input checked="" type="checkbox"/> This document is being filed together with a new application.  Execution date of the application: 5/16/97 Title: Multi-Stage Pitch and Mixed Voicing Estimation for Harmonic Speech Coders Docket No: TI-25895  <table border="0"> <tr> <td data-bbox="209 955 820 1060">           A. Patent Application No.(s)            S.N. 0X/XXX,XXX             Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No         </td> <td data-bbox="820 955 1435 1060">           B. Patent No.(s)            X,XXX,XXX             Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No         </td> </tr> </table>		A. Patent Application No.(s) S.N. 0X/XXX,XXX  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	B. Patent No.(s) X,XXX,XXX  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
A. Patent Application No.(s) S.N. 0X/XXX,XXX  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	B. Patent No.(s) X,XXX,XXX  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Robert L. Troike, Reg. No. 24,183 Texas Instruments Incorporated  Address: P.O. Box 655474, MS 3999  City: Dallas  State: TX Zip: 75265	6. Number of applications and patents involved: (1)          7. Amount of fee enclosed or authorized to be charged: \$40 <i>E</i>  8. Deposit Account No: 20-0668 (Attach duplicate copy if paying by deposit account)		
DO NOT USE THIS SPACE			
9. Statement and signature.  <i>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.</i>  <div style="display: flex; justify-content: space-between;"> <div data-bbox="209 1648 389 1732">           5/17/98            Date         </div> <div data-bbox="974 1648 1435 1732">             Robert L. Troike, Reg. No. 24,183         </div> </div> Total Number of Pages Including Cover Sheet, Attachments and Document: 3			

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 PATENT  
 REEL: 9185 FRAME: 0783

### 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

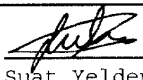
**WHEREAS**, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with its principal office at 13500 North Central Expressway, Dallas, Texas 75265, is desirous of acquiring my entire right, title and interest in and to the said invention, and to 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 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 to issue all patents for said invention, or patents 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	MULTI-STAGE PITCH AND MIXED VOICING ESTIMATION FOR HARMONIC SPEECH CODERS		
Signature of Inventor and Name	 Suat Yeldener		
Date	5/16/1997		
Residence (City, State & County)	19251 Preston Road #216, Dallas, Dallas County, Texas 75252		
Date Application Executed	5/16/1997		

Page 2 of 2

After recording return Assignment to:

Robert L. Troike  
Texas Instruments Incorporated  
P. O. Box 655474, M/S 219  
Dallas, Texas 75265