

10-09-2002



FORM P
TI-30654

102245129

ION FORM COVER SHEET
PATENTS ONLY

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Patent and Trademark Office

To the Ass't Commissioner for Patents. Please record the attached original documents or copy thereof.

JC715 U.S. PTO
10/256656
09/27/02

1. Name of conveying party(ies):

- 1) Stephen J. Fedigan (1/28/02)
- 2) Charles P. Cole (6/24/02)

9-27-02

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 No

3. Nature of Conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: January 28 and June 24, 2002

10/256656

4. Application number(s) or patent number(s).

This document is being filed together with a new application.

Execution date of the application: January 28 and June 24, 2002

Title: Method of Extending the Operating Speed Range of a Rotor Flux Based MRAS Speed Observer in a Three Phase AC Induction Motor

Docket No: TI-30654

A. Patent Application No.(s)
S.N.

B. Patent No.(s)
X.XXX.XXX

Additional numbers attached? Yes No

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Robert D. Marshall, Jr.
 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

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.

September 27, 2002
Date

Robert D. Marshall

Robert D. Marshall, Jr., #28,527

Total Number of Pages Including Cover Sheet, Attachments and Document: 3

10/08/2002 TDIAZ1 00000177 200668 10256656
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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	Method of Extending the Operating Speed Range of a Rotor Flux Based MRAS Speed Observer in a Three Phase AC Induction Motor		
SIGNATURE OF INVENTOR AND NAME	(1)  Stephen Fedigan	(2) Charles P. Cole	(3) n/a
DATE	X 1/28/02		
RESIDENCE (City, State)	14000 Noel Rd. #506 Dallas, TX 75240 US	801 S. Weatherred Dr. Richardson, TX 75080 US	
DATE APPLICATION EXECUTED	X 1/28/02		

After recordation, please return Assignment to:

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

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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.

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TITLE OF INVENTION	Method of Extending the Operating Speed Range of a Rotor Flux Based MRAS Speed Observer in a Three Phase AC Induction Motor		
SIGNATURE OF INVENTOR AND NAME	(1) <i>Stephen J. Fedigan</i>	X <i>Charles P. Cole</i> (2) <i>Charles P. Cole</i>	(3) <i>n/a</i>
DATE		X <i>6/24/2002</i>	
RESIDENCE (City, State)	14000 Noel Rd. #506 Dallas, TX 75240 US	801 S. Weatherred Dr. Richardson, TX 75080 US	
DATE APPLICATION EXECUTED		X <i>6/24/2002</i>	

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