

11-5-04

FORM PTO-1595

11-15-2004

U.S. DEPARTMENT OF COMMERCE

1-31-92

Patent and Trademark Office



102880798

1. Name of conveying party(ies),

Mark M. Mulbrook  
Robert A. Newgard

Additional name(s) of conveying party(ies) attached?

YES  NO

2. Name and address of receiving party(ies):

Rockwell Collins, Inc.  
400 Collins Road NE  
M/S 124-323  
Cedar Rapids, IA 52498

Additional name(s) and Address(es) attached:?

YES  NO

22141 U.S. PTO  
10/982968

110504

3. Nature of conveyance:

Assignment  Merger  Security Agreement  
 Change of Name  Other \_\_\_\_\_

Execution Date: November 5, 2004 and November 5, 2004

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

Serial N<sup>o</sup> Filed: November 5, 2004 Express Mail Label N<sup>o</sup>: EV 515 456 002 US

If this document is being filed together with a new application, the execution date of the application is: November 5, 2004.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached:  YES  NO

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

**Customer No. 26383**  
Rockwell Collins, Inc.  
Kyle Eppeler  
400 Collins Road, NE  
M/S 124-323  
Cedar Rapids, IA 52498

6. Total number of applications and patents  
involved: **ONE**

7. Total fee (37 CFR 3.41) **\$ 40.00**

The Commissioner is hereby authorized to charge  
the recordation fee to deposit account 19-4882.  
(Attach duplicate copy of this page if paying by deposit account).

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.

Chad W. Swantz Reg. N<sup>o</sup> 46,329

DATE: November 5, 2004

Total number of pages including cover sheet: **ONE (1)**

11/12/2004 NBETACHE 0000011 194882 10982968

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PATENT  
REEL: 015970 FRAME: 0759

ASSIGNMENT OF INVENTION

WHEREAS, Mark M. Mulbrook, of Marian, County of LINN, and State of Iowa hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in  
FREQUENCY SAMPLING PHASE DETECTOR

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 04CR158/KE, in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, executed and filed concurrently herewith.

It is now agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said inventor has sold, assigned and transferred and by these presents does sell, assign and transfer unto ROCKWELL COLLINS, INC., the entire right, title and interest in and to said invention in and to said application, for the territory of the United States of America and for all foreign countries; said invention and application to be held and enjoyed by the said ROCKWELL COLLINS, INC., for its own use and for the use of its successors and assigns, to the full end of the term for which Letters Patent on same will be granted, as fully and entirely as the same would have been held by said inventor had this Assignment and sale not been made.

FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

Executed at PEAR RAPIDS, County of LINN and State of Iowa, this 5<sup>th</sup> day of November, 2004.

Mark M. Mulbrook  
Mark M. Mulbrook

State of IOWA )  
County of LINN )

On this 5<sup>th</sup> day of November, 2004, before me personally appeared Mark M. Mulbrook to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

(Seal)



Sheila Kae Mathews  
Notary Public: Sheila Kae Mathews  
My Commission Expires: 02/15/2005  
Commission Number: 155044

ASSIGNMENT OF INVENTION

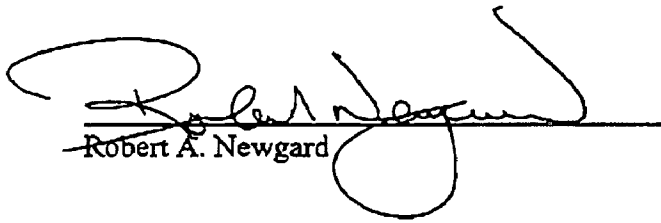
WHEREAS, Robert A. Newgard, of Central City, County of LINN, and State of Iowa hereinafter sometimes referred to as "said inventor", has invented certain new and useful improvements in **FREQUENCY SAMPLING PHASE DETECTOR**

which invention or inventions (hereinafter referred to as "inventions") have been disclosed to and filed, under Docket No. 04CR158/KE, in the patent files of the inventor's employer, ROCKWELL COLLINS, INC., and which invention is covered by a patent application, executed and filed concurrently herewith.

It is now agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said inventor has sold, assigned and transferred and by these presents does sell, assign and transfer unto ROCKWELL COLLINS, INC., the entire right, title and interest in and to said invention in and to said application, for the territory of the United States of America and for all foreign countries; said invention and application to be held and enjoyed by the said ROCKWELL COLLINS, INC., for its own use and for the use of its successors and assigns, to the full end of the term for which Letters Patent on same will be granted, as fully and entirely as the same would have been held by said inventor had this Assignment and sale not been made.

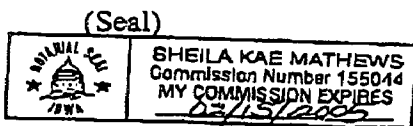
FURTHER, said inventor hereby agrees to sign all lawful papers necessary or helpful in obtaining patents, whether U.S. or foreign, on said invention or filing any divisional, continuation, substitution, or reissue application on said invention.

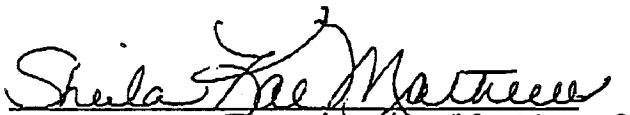
Executed at Central City, County of LINN and State of Iowa, this 5<sup>th</sup> day of November, 2004.

  
Robert A. Newgard

State of IOWA )  
County of LINN )

On this 5<sup>th</sup> day of November, 2004, before me personally appeared Robert A. Newgard to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.



  
Notary Public: Sheila Kae Mathews  
My Commission Expires: 02/15/2005  
Commission Number: 155044