

08-30-2004



FORM PTO -1619A

Expires 06/30/99  
OMB 0651-0027

102824672

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

17302 U.S. PTO  
10/923948

8.23.04

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies)

**Submission Type**

- New
- Resubmission (Non-Recordation)  
Document ID #
- Correction of PTO Error  
Reel #                      Frame #
- Corrective Document  
Reel #                      Frame #

**Conveyance Type**

- Assignment                       Security Agreement
- License                               Change of Name
- Merger                                 Other  
U.S. Government  
(For use ONLY by U.S. Government Agencies)
- Departmental File                 Secret File

**Conveying Party(ies)**

Mark if additional names of conveying parties attached

Name (line 1) Neil C. Robertson

Name (line 2)

**Second Party**

Name (line 1) Jose M. Fernandez

Name (line 2)

Execution Date  
Month Day Year  
08/19/2004

Execution Date  
Month Day Year  
08/19/2004

**Receiving Party(ies)**

Mark if additional names of receiving parties attached

Name (line 1) Scientific-Atlanta, Inc.

Name (line 2) a Corporation in Georgia

Address (line 1) 5030 Sugarloaf Parkway

Address (line 2) MS 4.3.510

Address (line 3) Lawrenceville

City

GA

State/Country

30044

Zip Code

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

**Domestic Representative Name and Address**

Enter for the first Receiving Party Only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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Mail documents to be recorded with required cover sheet(s) information to:  
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

08/27/2004 ECOOPER 00000080 190761 10923948

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**PATENT**  
**REEL: 015720 FRAME: 0662**

**Correspondent Name and Address**

**Area Code and Telephone Number (770)236-2352**

Name **SHELLEY L. COUTURIER**

Address (line 1) **Scientific-Atlanta, Inc.**

Address (line 2) **Intellectual Property Dept. MS 4.3.510**

Address (line 3) **5030 Sugarloaf Parkway**

Address (line 4) **Lawrenceville GA 30044**

**Pages** Enter the total number of pages of the attached conveyance document including any attachments.

**2**

**Application Number(s) or Patent Number(s)**

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for same property).

**Patent Application Number(s)**

**Patent Number(s)**

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year  
**08/19/2004**

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of Properties Involved.

**#1**

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41):

**\$40.00**

Method of Payment:

Enclosed

Deposit Account

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

**#19-0761**

Authorization to charge additional fees:

Yes

No

**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. Charges to deposit account are authorized, as indicated herein*

SHELLEY L. COUTURIER  
Name of Person Signing

  
Signature

AUGUST 23, 2004  
Date

## ASSIGNMENT AND AGREEMENT

For and in consideration of the sum of One Dollar to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, **NEIL C. ROBERTSON AND JOSE M. FERNANDEZ** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **Scientific-Atlanta, Inc.**, a corporation of the State of Georgia, having its principal office in Lawrenceville, State of Georgia, United States of America, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions relating to improvements in **OPTIMIZATION OF A FULL DUPLEX WIDEBAND COMMUNICATIONS SYSTEM** (Case No. **A-10102**) described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us on the dates indicated by our signatures below, together with the entire right, title and interest in and to said application, and in and to Letters Patent which may be issued upon said application, and upon any division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto the said **Scientific-Atlanta, Inc.**, the entire right, title and interest in and to said invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of said invention and said applications for Letters Patent in foreign countries, and we further authorize the said **Scientific-Atlanta, Inc.**, to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the said application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation or reissue, to the said **Scientific-Atlanta, Inc.**, for the sole use and behalf of said **Scientific-Atlanta, Inc.**, its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted, the same as they would have been held and enjoyed by me had this assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to the said **Scientific-Atlanta, Inc.**.

We agree that, when requested, we will, without charge to said **Scientific-Atlanta, Inc.**, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said **Scientific-Atlanta, Inc.**, its successors, assigns and legal representatives or nominees.

We covenant with said **Scientific-Atlanta, Inc.**, its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

Neil C. Robertson  
NEIL C. ROBERTSON

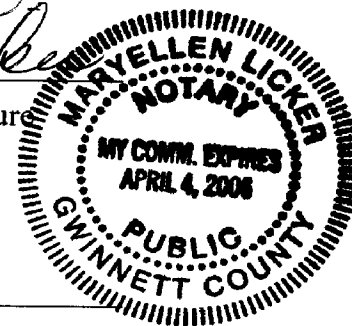
19 Aug 2004  
DATE

STATE OF GEORGIA  
COUNTY OF GWINNETT

I, MARYELLEN LICKER, a Notary Public in and for the County and State aforesaid, do hereby certify that the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 19TH day of AUGUST, 2004.

Maryellen Licker  
Notary Public Signature



Jose M. Fernandez  
JOSE M. FERNANDEZ

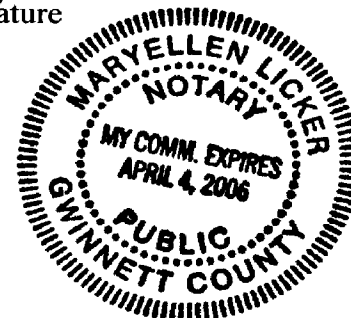
19 August 2004  
DATE

STATE OF GEORGIA  
COUNTY OF GWINNETT

I, MARYELLEN LICKER, a Notary Public in and for the County and State aforesaid, do hereby certify that the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 19TH day of AUGUST, 2004.

Maryellen Licker  
Notary Public Signature



Docket No.:A-10102