

09-24-1999

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9-14-99

PATENT

Box Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

COVER SHEET FOR ASSIGNMENTS (DOCUMENTS) ACCOMPANYING  
NEW PATENT APPLICATION (37 C.F.R. § 3.31)

IDENTIFICATION OF APPLICATION  
(37 C.F.R. § 3.21 and 37 C.F.R. § 3.31(a)(4))

09395443

1. The  patent application  provisional patent application filed herewith and, to which the attached assignment (document) refers, is identified as follows:

a. Type of application

- Application of patent (37 C.F.R. § 1.53(b))
- Continued prosecution (nonprovisional) application (37 C.F.R. § 1.53(d))
- Provisional application (37 C.F.R. § 1.53(c))
- International application (37 C.F.R. § 1.431)

b. Date of execution:

NOTE: Leave this blank if assignment is for a provisional application.

c. Name of each inventor:

- 1: JEROME JOHNSON TIEMANN
- 2:
- 3:

d. Title of invention: **WIDE BANDWIDTH CIRCUITS FOR HIGH LINEARITY OPTICAL MODULATORS**



CERTIFICATION UNDER 37 C.F.R. § 1.10\*  
(Express Mail label number is mandatory.)  
(Express Mail certification is optional.)

I hereby certify that this "Cover Sheet For Assignment (Document) Accompanying New Patent Application," along with any document referred to, is being deposited with the United States Postal Service on this date Sept. 14 1999, in an envelope as "Express Mail Post Office to Addressee," Mailing Label Number EI409349386, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

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40.00 OP

ERIC R. KATZ

(type or print name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

\*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. § 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Cover Sheet For Assignment Accompanying New Patent Application [4-2.3]—page 1 of 4)

NOTE: 37 C.F.R. § 3.21 states: "If an assignment of a patent application filed under § 1.53(b) is executed concurrently with, or subsequent to, the execution of the patent application, but before the patent application is filed, it must identify the patent application by its date of execution, name of each inventor, and title of the invention so that there can be no mistake as to the patent application intended. If an assignment of a provisional application under § 1.53(c) is executed before the provisional application is filed, it must identify the provisional application by name of each inventor and title of the invention so that there can be no mistake as to the provisional application intended."

**NAME OF PARTY(IES) CONVEYING INTEREST (37 C.F.R. § 3.31(a)(1))**

2. The party(ies) conveying this interest is (are):

Name 1: JEROME JOHNSON TIEMANN

Name 2: GENERAL ELECTRIC CO. (A Corporation of New York)

Name 3: \_\_\_\_\_

**NAME AND ADDRESS OF PARTY(IES) RECEIVING INTEREST**

(37 C.F.R. § 3.31(a)(2))

3. The rights are being conveyed to:

Name: LOCKHEED MARTIN CORPORATION

Address: 6801 Rockledge Drive  
Bethesda, MD 20817

Telephone No.: ( 770 ) 494-3143

**DESCRIPTION OF INTEREST CONVEYED OR TRANSACTION RECORDED (37 C.F.R. § 3.31(a)(3))**

4. The accompanying document intends to accomplish:

- an assignment.
- a security agreement.
- a license.
- a merger.
- a change of name.
- a change of address.
- other.

**NAME AND ADDRESS OF PARTY TO WHOM CORRESPONDENCE SHOULD BE MAILED (37 C.F.R. § 3.31(a)(5))**

5. Please address correspondence to:

Name: ERIC R. KATZ

Address: c/o Lockheed Martin Corporation  
Dept. 91-10

P. O. Box 2030

Marietta, GA 30061

Telephone No.: 770 494-3143

(Cover Sheet For Assignment Accompanying New Patent Application [4-2.3]—page 2 of 4)

DATE ASSIGNMENTS (DOCUMENTS) EXECUTED (37 C.F.R. § 3.31(a)(7))

6. The attached assignments (documents) were respectively executed on  
July 27, 1999 and Aug. 31, 1999

LANGUAGE OF ASSIGNMENTS (DOCUMENTS) TO BE RECORDED

NOTE: "The Office will accept and record non-English language documents only if accompanied by an English translation signed by the individual making the translation." 37 C.F.R. § 3.26.

7. The attached document:

- is in the English language.  
 is not in the English language. An English translation signed by the individual making the translation and statement as to its accuracy is attached.

ORIGINAL DOCUMENTS OR TRUE COPY SUBMITTED

NOTE: "Either the original document or a true copy of the original document may be submitted for recording. Only one side of each page shall be used. The paper used should be flexible, strong, white, non-shiny, durable, and preferably no larger than 21.6 x 33.1 cm. (8½ x 14 inches) with a 2.5 cm. (one-inch) margin on all sides." 37 C.F.R. § 3.24.

8. Submitted herewith is:

- the original documents.  
 a true copy of the original document.

NOTE: "If the original [assignment] document is two-sided or the wrong size, the practitioner can comply with the requirement [set out in 37 C.F.R. § 3.24] by providing a true copy of the original document using only one side of each page on the correct size paper." Notice of June 24, 1992, 1140 O.G. 63-76, at 67.

**NUMBER OF APPLICATIONS IDENTIFIED IN THIS COVER SHEET  
AND THE FEE**

NOTE: "All requests to record documents must be accompanied by the appropriate fee. Except as provided in paragraph (b) of this section, a fee is required for each application or patent against which the document is recorded as identified in the cover sheet. The recording fee is set in § 1.21(h). . . ." 37 C.F.R. § 3.41.

9. A. This cover sheet identifies only one application:

B. The fee for recordal (37 C.F.R. § 1.21(h)) is \$40.00.

- Attached is a check for \$40.00.  
 Please charge Account \_\_\_\_\_ \$40.00.

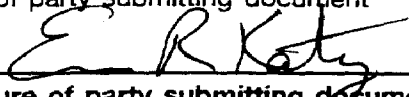
A duplicate of this cover sheet is attached.

**STATEMENT** (37 C.F.R. § 3.31(a)(9))  
**AND SIGNATURE** (37 C.F.R. § 3.31(a)(10))

10. 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.

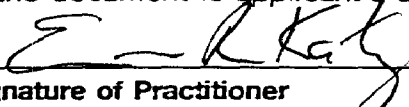
Date: Sept. 14 1999

ERIC R. KATZ  
Name of party submitting document

  
Signature of party submitting document

(complete the following, if the party submitting the document is applicant's attorney)

Reg. No. 28,862

  
Signature of Practitioner

Tel. No. (770) 494-3143

ERIC R. KATZ  
(type or print name of practitioner)

Customer No.

c/o Lockheed Martin Corp. D/91-10  
P.O. Address  
P. O. Box 2030  
Marietta, GA 30061

**TOTAL NUMBER OF PAGES BEING SUBMITTED**

11. The total number of pages being submitted, including cover sheet, attachment(s), and document(s) are:

7 (including check for \$40)  
Total number of pages submitted

**ASSIGNMENT**

Docket Number

12536

In consideration of One Dollar and Other good and valuable consideration, of which I acknowledge receipt, I (we)

Jerome Johnson Tiemann

of Schenectady, New York

of  
of  
of  
of  
of  
of  
of  
of  
of  
of  
of  
of  
of  
of  
of

sell and assign to General Electric Company, a New York Corporation, its successors and assigns the entire right, title and interest in and to the improvements in:

WIDE BANDWIDTH CIRCUITS FOR HIGH LINEARITY OPTICAL MODULATORS

invented by me (us), as described in the application for United States patent

- executed concurrently herewith, or
- U.S. Serial No.: \_\_\_\_\_, filed \_\_\_\_\_

and any and all applications for patent and patents therefor in any and all countries, including all divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patents on said improvements or resulting therefrom to said General Electric Company, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, I will communicate to said Company or its representatives or nominees any facts known to me respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for said improvements in all countries.

July 27, 1999  
Date

Jerome Johnson Tiemann  
Jerome Johnson Tiemann

State of NEW YORK ) SS:

County of SCHENECTADY )

This \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally came the

above-named Jerome Johnson Tiemann to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

RDMM 26708

## ASSIGNMENT - UNITED STATES PATENT APPLICATIONS

GENERAL ELECTRIC COMPANY, a New York Corporation ("GE"), for good and valuable consideration, the receipt of which is hereby acknowledged, hereby sells, assigns, transfers and sets over, to LOCKHEED MARTIN CORPORATION, a Maryland corporation ("LMC"), all the right, title and interest of GE in, to and under the United States patent application executed and assigned to GE by the inventor Jerome J. Tiemann on July 27, 1999 and entitled:

## WIDE BANDWIDTH CIRCUITS FOR HIGH LINEARITY OPTICAL MODULATORS

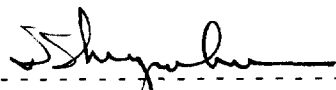
including all rights of re-issue, extension, division or continuation, and the right to sue and recover damages for infringement thereof, the same to be held and enjoyed by LOCKHEED MARTIN CORPORATION for its own use and for its successors and assigns to the full end of the terms of the listed patent application and any other patent applications or patents which may result from the listed patent application as fully as entirely as the same would have been held and enjoyed by GE if this assignment had not been made.

GE has caused its corporate seal to be affixed and this assignment to be executed by its duly authorized representative this 31st day of August, 1999.

GENERAL ELECTRIC COMPANY

  
\_\_\_\_\_

ATTEST:

  
-----  
Attesting Secretary

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RECORDED: 09/14/1999

PATENT  
REEL: 010251 FRAME: 0180