



To the Honorable Commissioner of Patents and Trademarks **101794381** original documents or copy thereof.

1. Name of conveying party(ies):
1) Amarildo J.C. VIEIRA
2) Barbara F. BARENBURG
3) Timothy J. BROPHY
Additional name(s) of conveying party(ies) attached? Yes No

11/10/01

2. Name and address of receiving party(ies):
Name: MOTOROLA, INC.
Address: 1303 E. Algonquin Road
Schaumburg, Illinois 60196-1079
Additional name(s) and address(es) attached? Yes No

1-c903 U.S. PTO
09/908888
07/20/01

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: 1) July 9, 2001;
2) July 13, 2001; &
3) July 9, 2001

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: 1) July 9, 2001;
2) July 13, 2001 &
3) July 9, 2001

A. Patent Application No.(s) *09/908888* B. Patent No.(s)
Additional numbers attached? Yes No

22850

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

6. Total applications and patents involved: 1
7. Total fee (37 CFR 3.41): \$40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number: 15-0030
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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.
Richard L. Treanor, Ph.D. *7/20/01*
Name of Person Signing Signature Date

Registration Number: 36,379
Total number of pages including this cover sheet: 5

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ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **AMARILDO J. C. VIEIRA, PHILADELPHIA, PENNSYLVANIA; BARBARA F. BARENBURG, GILBERT, ARIZONA;** and **TIMOTHY J. BROPHY, HOLLAND, PENNSYLVANIA;** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **MOTOROLA, INC.**, a corporation of the State of Delaware, having its principal office in Schaumburg, State of Illinois, 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 **FABRICATION OF A WAVELENGTH LOCKER WITHIN A SEMICONDUCTOR STRUCTURE** (Docket No. **JG00298**), 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 the application, and in and to Letters Patent which may be issued upon the application, and upon any division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto **MOTOROLA, INC.**, the entire right, title and interest in and to the 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 the invention and the applications for Letters Patent in foreign countries, and we further authorize **MOTOROLA, INC.** to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the 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 **MOTOROLA, INC.**, for the sole use and benefit of **MOTOROLA, INC.**, its successors, assigns and legal representatives, to the full end of the term for which 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 **MOTOROLA, INC.**

We agree that, when requested, we will, without charge to **MOTOROLA, 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 the inventions in any and all countries and for vesting title thereto in **MOTOROLA, INC.**, its successors, assigns and legal representatives or nominees.

We covenant with MOTOROLA, 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.

We grant to MOTOROLA, INC., its successors, assigns and legal representatives the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

AS
AMARILDO J. C. VIEIRA

DATE: 07/09/2001

STATE OF PENNSYLVANIA)
COUNTY OF BUCKS)

The undersigned Notary Public in and for the County and State aforesaid, does hereby certify that AMARILDO J. C. VIEIRA whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged he/she they signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 9th day of JULY, 2001.

My commission expires:

Christine M. Laughhead
Notary Public Signature

CHRISTINE M LAUGHEAD
Printed Name of Notary Public

NOTARIAL SEAL
Christine M. Laughhead, Notary Public
Borough of Chalfont, Bucks County
My commission expires October 27, 2003

Barbara F. Barenburg
BARBARA F. BARENBURG

DATE: July 13, 2001

STATE OF ARIZONA)
COUNTY OF Maricopa)

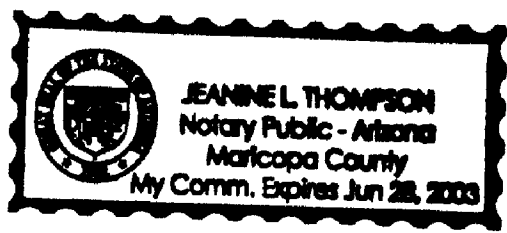
The undersigned Notary Public in and for the County and State aforesaid, does hereby certify that BARBARA F. BARENBURG whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 13th day of July, 2001.

My commission expires: June 28, 2003

Jeanine L. Thompson
Notary Public Signature

JEANINE L. THOMPSON
Printed Name of Notary Public



Timothy J. Brophy
TIMOTHY J. BROPHY

DATE: 9 5 01

STATE OF PENNSYLVANIA)
COUNTY OF BUCKS)

The undersigned Notary Public in and for the County and State aforesaid, does hereby certify that TIMOTHY J. BROPHY whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 9th day of JULY, 2001.

My commission expires:

Christine M. Laughead
Notary Public Signature

CHRISTINE M LAUGHEAD
Printed Name of Notary Public

NOTARIAL SEAL
Christine M. Laughead, Notary Public
Borough of Chalfont, Bucks County
My commission expires October 27, 2003