

04-06-2004

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22386 U.S. PTO  
10/813489



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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- a) Christopher Dirk Weigand
- b) Thomas Aaron Winslow
- c) Richard John Giacchino

Additional name(s) of conveying party(ies) attached?  Yes  No

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

M/A-COM, Inc.  
1011 Pawtucket Boulevard  
Lowell, MA 01853

Additional name(s) and address(es) attached?  Yes  No

3. Nature of conveyance:

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

Execution Date: a) March 22, 2004; b) March 26, 2004; c) March 30, 2004

3/30/04

10813489

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: a) March 21, 2004; b) March 26, 2004; c) March 30, 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:

IP Department  
Piper Rudnick LLP  
One Liberty Place, Suite 4900  
1650 Market Street  
Philadelphia, PA 19103

6. Total number of 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 No. 50-2719  
(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

Darius C. Gambino  
Name of Person Signing

     3/30/04  
Signature      Date

Total number of pages including one cover sheet, attachments and document: 7

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## ASSIGNMENT

We, Christopher Dirk Weigand, Thomas Aaron Winslow, and Richard John Giacchino, who reside at 23A Holton Street, Woburn, Massachusetts, 01801-5232, 1204 Meadowview Drive, Salem, Virginia, 24153 and 12 Leblanc Drive, Peabody, Massachusetts, 01960, respectively, have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled

HANDSET RADIOFREQUENCY FRONT END MODULE IN FINE PITCH QUAD FLAT  
NO LEAD (FQFP-N) PACKAGE

which application was executed by the inventor on the date of execution of this assignment, and is identified by Attorney Docket Number 18040 and M/A-COM, Inc. whose address is 1011 Pawtucket Boulevard, Lowell, MA 01854 and which, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the title, rights, benefits and privileges hereinafter recited, and of confirming the same or any part thereof heretofore acquired by Assignee.

Now, therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign and convey to and confirm in Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or discoveries or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents of the United States of America and the empowered officials of all

other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs and legal representatives, as well as ourselves, to do, upon Assignee's request and at its expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me/us or our heirs or representatives if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs or legal representatives and which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

The effective date of this instrument is the latest date accompanying signatures, hereinbelow.

In testimony whereof we have affixed our signatures.

_____ (Witness)	_____ (Date)	_____ Christopher D. Weigand	_____ (Date)
<i>Linda Blankenship</i> (Witness)	<i>3/26/04</i> (Date)	<i>[Signature]</i> Thomas A. Winslow	<i>3/26/04</i> (Date)

_____ (Witness)	_____ (Date)	_____ Richard J. Giacchino	_____ (Date)
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In testimony whereof we have affixed our signatures.

<u>Trinity Bar</u> (Witness)	<u>3/22/04</u> (Date)	<u>Christopher D. Weigand</u> Christopher D. Weigand	<u>March 22, 2004</u> (Date)
_____	_____	_____	_____
(Witness)	(Date)	Thomas A. Winslow	(Date)
_____	_____	_____	_____
(Witness)	(Date)	Richard J. Giacchino	(Date)

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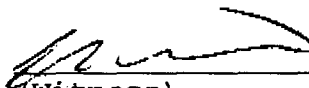
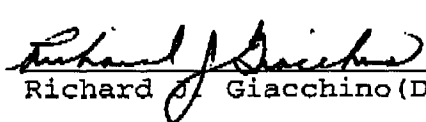
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\_\_\_\_\_  
(Witness) (Date) Christopher D. Weigand (Date)

\_\_\_\_\_  
(Witness) (Date) Thomas A. Winslow (Date)

  
(Witness) 3/30/04 (Date)  3/30/04 (Date)  
Richard J. Giacchino (Date)