

08-01-2003

102514611
PATENT

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): 7-30-03John H. Oates (06/05/2002), Steven Imperiali
(05/28/2002), Alden J. Fuchs (05/28/2002), Kathleen
Jacques (05/28/2002), Jonathan E. Greene
(05/28/2002), William Jenkins (05/30/2002),Additional name(s) of conveying party(ies)
attached?☒ Yes ☐ No

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: see Box 1, conveying parties

2. Name and address of receiving party(ies)

Name: MERCURY COMPUTER SYSTEMS, INC.

Internal Address: _____

Street Address: _____

199 Riverneck Road

City: Chelmsford, MassachusettsCountry: USA Zip: 01824Additional name(s) &
address(es) attached: ☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the new application is: _____

A. Patent Application No.(s):

10/099,883

B. Patent No.(s): _____

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence
concerning document should be mailed:Name: David J. Powsner
NUTTER MCCLENNEN & FISH LLP

Internal Address: Atty. Dkt.: 102323-0099

Street Address:

World Trade Center West
155 Seaport BoulevardCity:
BostonState:
MAZip:
02210-26046. Total number of applications and
patents involved: 17. Total fee (37 CFR 3.41) \$ 40.00☒ Enclosed☐ Authorized to be charged to deposit account☐ Authorized to be charged to credit card
(Form 2038 enclosed)

8. Deposit account number:

141449

(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.*David J. Powsner
Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: 18

Recordation Form Cover Sheet

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in
an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450,
Alexandria, VA 22313-1450, on the date shown below.Dated: 7/28/03Signature: [Signature] (David J. Powsner)

07/31/2003 EC00PER 00000129 10099883

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40.00 UP

PATENT
REEL: 014328 FRAME: 0230

**RECORDATION FORM COVER SHEET
(continued)****Additional Conveying Party(ies) (1. Continued):**

Frank P. Lauginiger (05/30/2002), David Majchrzak (07/17/2002), Mirza Cifric (05/28/2002), Ian Dunn (05/28/2002), and Michael Vinskus (05/28/2002)

Additional Assignees (2. Continued):

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Zip Code: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Zip Code: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Zip Code: _____

Additional Applications and/or Patents (4. Continued):

Additional Patent Application Numbers
4A. Continued:

Additional Patent Numbers
4B. Continued:

Additional numbers attached?

☐

Yes

☐

No

ASSIGNMENT

WHEREAS, we, John H. Oates, of 59B Seaverns Bridge Road, Amherst, New Hampshire 03031, Steven R. Imperiali, of 43 Haynes Road, Townsend, Massachusetts 01469, Alden J. Fuchs, of 160 Pine Hill Road, Nashua, New Hampshire 03063, Kathleen J. Jacques, of 10 Juniper Street, Jay, Maine 04239, Jonathan E. Greene, of 83 Hollenbeck Avenue, Great Barrington, Massachusetts 01230, William J. Jenkins, of 479 Whitepond Road, Leominster, Massachusetts 01453, Frank P. Lauginiger, of 772 Russell Station Road, Frankestown, New Hampshire 03043, David E. Majchrzak, of 11 Regine Street, Hudson, New Hampshire 03051, Paul E. Cantrell, of 15 Prescott Drive, Chelmsford, Massachusetts 01863, Mirza Cifric, of 180 Arborway, Jamaica Plain, Massachusetts 02130, Ian N. Dunn, of 48 North Court Street, #1, Providence, Rhode Island, 02903, and Michael J. Vinskus, of Litchfield, New Hampshire 03052, having invented certain new and useful improvements in WIRELESS COMMUNICATIONS SYSTEMS AND METHODS FOR MULTIPLE PROCESSOR BASED MULTIPLE USER DETECTION, for which we have made application for United States Letters Patent, said application filed March 14, 2002 and accorded U.S. Serial No. 10/099,883 and

WHEREAS, Mercury Computer Systems, Inc., a Massachusetts corporation, having a place of business at 199 Riverneck Road, Chelmsford, Massachusetts 01824, and its successors and assigns (collectively hereinafter called "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said applications and any Letters Patent that may issue thereon;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledge, we do hereby sell assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive right, title and interest in and to said invention and in and to said applications and all patents which may granted therefore, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; and we hereby authorize and request the Commissioner of Patents and

Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representative, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

IN WITNESS WHEREOF, I hereto set my hand and seal at

Chelmsford MA this 5 day of June, 2002.
(City, State) (Day) (Month) (year)


John H. Oates

STATE OF Massachusetts

SS.

COUNTY OF Middlesex

Before me this 5 day of June, 2002, personally appeared John H. Oates known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.


NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires: July 29, 2005

IN WITNESS WHEREOF, I hereto set my hand and seal at

Chelmsford MA this 28 day of MAY, 2002.
(City, State) (Day) (Month) (year)

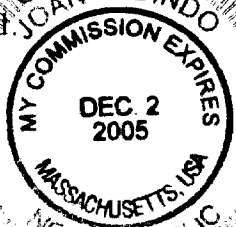

Steven R. Imperiali

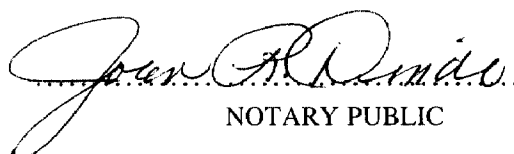
STATE OF Massachusetts

SS.

COUNTY OF Middlesex

Before me this 28th day of May, 2002, personally appeared Steven R. Imperiali known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.




NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

CHELMSFORD, MA this 28 day of MAY, 2002.
(City, State) (Day) (Month) (year)

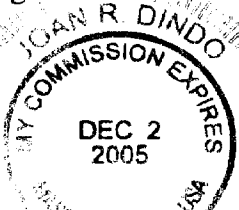
Alden J. Fuchs
Alden J. Fuchs

STATE OF Massachusetts

SS.

COUNTY OF Middlesex

Before me this 28th day of May, 2002, personally appeared Alden J. Fuchs known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



[Notary's Seal Here]

Joan R. Dindo
NOTARY PUBLIC

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

CHELMSFORD, MA this 28 day of MAY, 2002.
(City, State) (Day) (Month) (year)

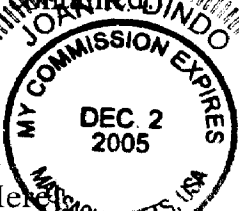
Kathleen J. Jacques
Kathleen J. Jacques

STATE OF Massachusetts

SS.

COUNTY OF Middlesex

Before me this 28th day of May, 2002, personally appeared Kathleen J. Jacques known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



[Notary's Seal Here]

Joan R. Dindo
NOTARY PUBLIC

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

Chelmsford, MA this 28th day of May, 2002.
(City, State) (Day) (Month) (year)

Jonathan E. Greene
Jonathan E. Greene

STATE OF MASSACHUSETTS

SS.

COUNTY OF MIDDLESEX

Before me this 28 day of May, 2002, personally appeared Jonathan E. Greene known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

James D. Brewster
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires: July 29, 2002

IN WITNESS WHEREOF, I hereto set my hand and seal at

Chelmsford, MA this 30 day of May, 2002.
(City, State) (Day) (Month) (year)

William J. Jenkins
William J. Jenkins

STATE OF Massachusetts

SS.

COUNTY OF Middlesex

Before me this 30 day of May, 2002, personally appeared William J. Jenkins known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

James D. Brewster
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires: July 29, 2002

IN WITNESS WHEREOF, I hereto set my hand and seal at

Chelmsford, MA this 30 day of May, 2002
(City, State) (Day) (Month) (year)

Frank P. Lauginiger
SS.

STATE OF Massachusetts

COUNTY OF Middlesex

Before me this 30 day of May, 2002, personally appeared Frank P. Lauginiger known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

James H. Bernstein
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires: July 29, 2005

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20____.
(City, State) (Day) (Month) (year)

David E. Majchrzak
SS.

STATE OF _____

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared David E. Majchrzak known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20____.
(City, State) (Day) (Month) (year)

Paul E. Cantrell

STATE OF _____

SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared Paul E. Cantrell known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

Chelmsford this 28 day of May, 2002.
(City, State) (Day) (Month) (year)

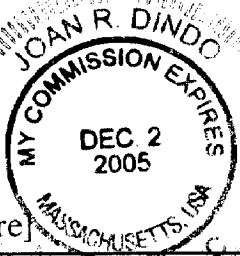
STATE OF Massachusetts

SS.

COUNTY OF Middlesex

Before me this 28th day of May, 2002, personally appeared Mirza Cifric known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Mirza Cifric



[Notary's Seal Here]

.....
NOTARY PUBLIC

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

Chelmsford, MA this 28 day of May, 2002.
(City, State) (Day) (Month) (year)


Ian N. Dunn

STATE OF Massachusetts

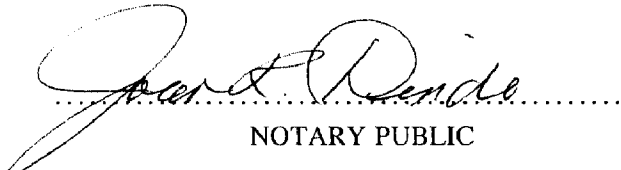
SS.

COUNTY OF Middlesex

Before me this 28th day of May, 2002, personally appeared Ian N. Dunn known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



[Notary's Seal Here]


NOTARY PUBLIC

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

CHELMSFORD, MA this 28 day of MAY, 2002.
(City, State) (Day) (Month) (year)

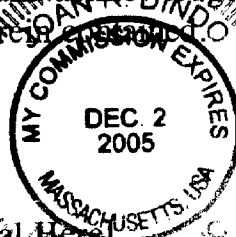

Michael J. Vinskus

STATE OF Massachusetts

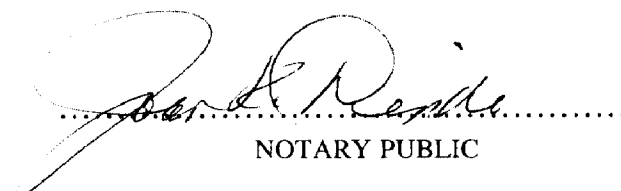
SS.

COUNTY OF Middlesex

Before me this 28th day of May, 2002, personally appeared Michael J. Vinskus known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.



[Notary's Seal Here]


NOTARY PUBLIC

My Commission Expires:

ASSIGNMENT

WHEREAS, we, **John H. Oates**, of **59B Seaverns Bridge Road, Amherst, New Hampshire 03031**, **Steven R. Imperiali**, of **43 Haynes Road, Townsend, Massachusetts 01469**, **Alden J. Fuchs**, of **160 Pine Hill Road, Nashua, New Hampshire 03063**, **Kathleen J. Jacques**, of **10 Juniper Street, Jay, Maine 04239**, **Jonathan E. Greene**, of **83 Hollenbeck Avenue, Great Barrington, Massachusetts 01230**, **William J. Jenkins**, of **479 Whitepond Road, Leominster, Massachusetts 01453**, **Frank P. Lauginiger**, of **772 Russell Station Road, Frankestown, New Hampshire 03043**, **David E. Majchrzak**, of **33 Jessica Drive, Merrimack, New Hampshire 03054**, **Paul E. Cantrell**, of **15 Prescott Drive, Chelmsford, Massachusetts 01863**, **Mirza Cifric**, of **180 Arborway, Jamaica Plain, Massachusetts 02130**, **Ian N. Dunn**, of **48 North Court Street, #1, Providence, Rhode Island, 02903**, and **Michael J. Vinskus**, of **Litchfield, New Hampshire 03052**, having invented certain new and useful improvements in WIRELESS COMMUNICATIONS SYSTEMS AND METHODS FOR MULTIPLE PROCESSOR BASED MULTIPLE USER DETECTION, for which we have made application for United States Letters Patent, said application filed March 14, 2002 and accorded U.S. Serial No. 10/099,883 and

WHEREAS, **Mercury Computer Systems, Inc.**, a Massachusetts corporation, having a place of business at **199 Riverneck Road, Chelmsford, Massachusetts 01824**, and its successors and assigns (collectively hereinafter called "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said applications and any Letters Patent that may issue thereon;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledge, we do hereby sell assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive right, title and interest in and to said invention and in and to said applications and all patents which may granted therefore, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; and we hereby authorize and request the Commissioner of Patents and

Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representative, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20_____.
(City, State) (Day) (Month) (year)

John H. Oates

STATE OF _____

SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared John H. Oates known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20_____.
(City, State) (Day) (Month) (year)

Steven R. Imperiali

STATE OF _____

SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared Steven R. Imperiali known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20_____.
(City, State) (Day) (Month) (year)

Alden J. Fuchs

STATE OF _____

SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared Alden J. Fuchs known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20_____.
(City, State) (Day) (Month) (year)

Kathleen J. Jacques

STATE OF _____

SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared Kathleen J. Jacques known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20____.
(City, State) (Day) (Month) (year)

Jonathan E. Greene

STATE OF _____

SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared Jonathan E. Greene known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20____.
(City, State) (Day) (Month) (year)

William J. Jenkins

STATE OF _____

SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared William J. Jenkins known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20____.
(City, State) (Day) (Month) (year)

Frank P. Lauginiger

STATE OF _____

SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared Frank P. Lauginiger known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

Merrimack, NH this 17 day of July, 2002.
(City, State) (Day) (Month) (year)

David E. Majchrzak

STATE OF N.H.

SS.

COUNTY OF Hillsboro

Before me this 17 day of July, 2002, personally appeared David E. Majchrzak known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

BONITA J. KOPP, Notary Public
My Commission Expires **January 8, 2003**

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20____.
(City, State) (Day) (Month) (year)

Paul E. Cantrell

STATE OF _____

SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared Paul E. Cantrell known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20____.
(City, State) (Day) (Month) (year)

Mirza Cifric

STATE OF _____

SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared Mirza Cifric known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

-7-

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20____.
(City, State) (Day) (Month) (year)

Ian N. Dunn

STATE OF _____

SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared Ian N. Dunn known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at

_____ this _____ day of _____, 20____.
(City, State) (Day) (Month) (year)

Michael J. Vinskus

STATE OF _____

SS.

COUNTY OF _____

Before me this _____ day of _____, 20____, personally appeared Michael J. Vinskus known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

.....
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires: