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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):

Karvel K. Thornber
David W. Jacobs

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

Name: NEC Research Institute, Inc.Address: 4 Independence Way

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherCity: PrincetonState/Prov.: NJCountry: U.S.A.ZIP: 08540Execution Date: October 24, 2001

Additional name(s) & address(es)

☐ Yes ☒ No

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

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

Patent Application No.

Filing date

B. Patent No.(s)

09/967,206September 28, 2001

Additional numbers

☐ Yes ☒ No

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

Name: Paul J. Esatto, Jr.Registration No. 30,749Address: Scully, Scott, Murphy & Presser400 Garden City PlazaCity: Garden CityState/Prov.: NYCountry: U.S.A.ZIP: 11530

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

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*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.*Paul J. Esatto, Jr.

Name of Person Signing

Signature

December 19, 2001

Date

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Total number of pages including cover sheet, attachments, and

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PATENT

REEL: 012592 FRAME: 0914

02/22/2002 L MUELLER 00000125 0957206

01 FEB 2001

ASSIGNMENT

Whereas, we,

- (1) **Karvel K. Thornber**, of 23 Mercier Place, Berkeley Heights, NJ 07922 USA; and
(2) **David W. Jacobs**, of 28 Laurel Road, Princeton, NJ 08540 USA

(hereinafter called "Assignor(s)"), have made a certain invention, and executed United States Patent Application Serial No. 09/967,206, filed on September 28, 2001, entitled:

BROADENED-SPECULAR REFLECTION AND LINEAR SUBSPACES FOR OBJECT RECOGNITION

Whereas, NEC Research Institute, Inc.
4 Independence Way
Princeton, New Jersey 08540

(hereinafter called "Assignee"), desires to acquire the entire right, title, and interest in the application and the invention, and to any applications, patents and/or utility model registrations filed or obtained therefor in every Country except for Japan (hereinafter called the "Designated Countries").

Now therefore, for valuable consideration, receipt of which is hereby acknowledged,

I/we, the above named Assignor(s), hereby sell, assign and transfer to the above named Assignee the entire right, title and interest to file and/or obtain any applications, patents and/or utility model registrations in the Designated Countries as regards the United States application and the invention disclosed therein (including rights of priority based on the United States application), and I/we will execute without further consideration all papers deemed necessary by the Assignee in connection with such applications, patents and/or utility model registrations in the Designated Countries when called upon to do so by the Assignee.

Signed and Sealed:

INVENTOR 1:

CITY (1) at South Brunswick, NJ
DATE on 10/24, 2001

Karvel K. Thornber
(Karvel K. Thornber)
First Name Middle Initial Last Name

State of New Jersey)

County of Middlesex: ss:

Inventor (1) On this 24 day of October, 2001 before me personally came **Karvel K. Thornber** to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

Jill M. Thompson
Notary
JILL M. THOMPSON
Notary Public of New Jersey
My Commission Expires November 13, 2002

INVENTOR 2:

CITY (2) at South Brunswick, NJ

DATE on 10/24, 2001

David
(David
First Name

W.
W.
Middle Initial

Jacobs
(Jacobs)
Last Name

State of New Jersey)

County of Middlesex) ss:

Inventor (2) On this 24 day of October, 2001 before me personally came **David W. Jacobs** to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

Jill M. Thompson
Notary

JILL M. THOMPSON

Notary Public of New Jersey

My Commission Expires November 13, 2007