

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Jerome F. Duluk Jr.	08/27/1999
Richard E. Hessel	08/27/1999
Vaughn T. Arnold	09/08/1999
Jack Benkual	09/09/1999
Joseph P. Bratt	08/31/1999
George Cuan	08/30/1999
Stephen L. Dodgen	10/08/1999
Emerson S. Fang	08/31/1999
Zhaoyu Gong	08/30/1999
Thomas Y. Ho	08/31/1999
Hengwei Hsu	09/07/1999
Sidong Li	09/07/1999
Sam Ng	08/31/1999
Jason R. Redgrave	09/08/1999
Sushma S. Trivedi	09/07/1999
Nathan D. Tuck	09/14/1999
Shun Wai Go	09/07/1999
Lindy Fung	09/08/1999
Tuan D. Nguyen	09/08/1999
Joseph P. Grass	09/07/1999
Bo Hong	09/08/1999
Abraham Mammen	08/31/1999
Abbas Rashid	09/07/1999
Albert Suan-Wei Tsay	09/07/1999

RECEIVING PARTY DATA

Name:	Raycer, Inc.
Street Address:	2585 East Bayshore Road
City:	Palo Alto

PATENT

500277035

REEL: 019294 FRAME: 0007

CH \$40.00 11613093

State/Country:	CALIFORNIA
Postal Code:	94303

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11613093

CORRESPONDENCE DATA

Fax Number: (303)629-3450
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 303-629-3400
Email: ferguson.elissa@dorsey.com
Correspondent Name: S. Craig Hemenway / Dorsey & Whitney LLP
Address Line 1: 370 Seventeenth Street
Address Line 2: Republic Plaza Building, Suite 4700
Address Line 4: Denver, COLORADO 80202-5647

ATTORNEY DOCKET NUMBER:	25004/US/3
NAME OF SUBMITTER:	Elissa Ferguson fbo S. Craig Hemenway

Total Attachments: 29

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ASSIGNMENT

WHEREAS, (1) JEROME F. DULUK, JR., Palo Alto, California; (2) RICHARD E. HESSEL, Pleasanton, California; (3) VAUGHN T. ARNOLD, Scott's Valley, California; (4) JACK BENKUAL, Cupertino, California; (5) JOSEPH P. BRATT, San Jose, California; (6) GEORGE CUAN, Sunnyvale, California; (7) STEPHEN L. DODGEN, Boulder Creek, California; (8) EMERSON S. FANG, Fremont, California; (9) ZHAOYU G. GONG, Cupertino, California; (10) THOMAS Y. HO, Fremont, California; (11) HENGWEI HSU, Fremont, California; (12) SIDONG LI, San Jose, California; (13) SAM NG, Fremont, California; (14) MATTHEW N. PAPAKIPOS, Menlo Park, California; (15) JASON R. REDGRAVE, Mountain View, California; (16) SUSHMA TRIVEDI, Sunnyvale, California; (17) NATHAN D. TUCK, San Diego, California; (18) SHUN WAI GO, Milpitas, California; _____; (19) LINDY FUNG, Sunnyvale, California; (20) TUAN D. NGUYEN, San Jose, California; (21) JOSEPH P. GRASS, Menlo Park, California; (22) BO HONG, San Jose, California; (23) ABRAHAM MAMMEN, Pleasanton, California; (24) ABBAS RASHID, Fremont, California; and (25) ALBERT SUAN-WEI TSAY, Fremont, California; have invented certain new and useful improvements in and have ~~FORERUNNERS~~ filed an application for a United States patent entitled: *DEFERRED SHADING GRAPHICS PIPELINE PROCESSOR HAVING ADVANCED FEATURES* disclosing and identifying the invention; filed August 20, 1999, bearing Serial No. 09/377,503;

WHEREAS, RAYCER, INC., a corporation of the State of Delaware having a place of business at 2585 E. Bayshore Road, Palo Alto, California 94303, hereinafter termed "Assignee"), is desirous of acquiring the entire right, title

and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.





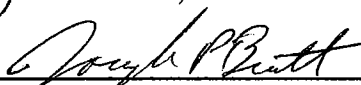
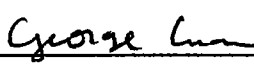
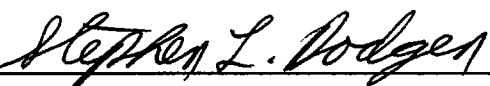
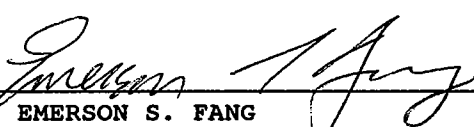

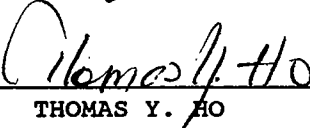
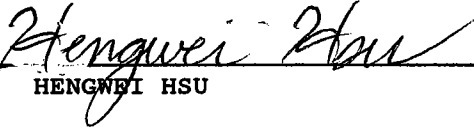
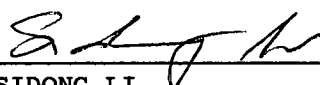
2. Said Inventors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths,

specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventors have executed and delivered this instrument to said Assignee on the dates set forth below:

<u>8-27-99</u> Date	<u></u> (1) JEROME F. DULUK, JR.
<u>8/27/99</u> Date	<u></u> (2) RICHARD E. HESSEL
<u>9/8/99</u> Date	<u></u> (3) VAUGHN T. ARNOLD
<u>9/9/99</u> Date	<u></u> (4) JACK BENKUAL
<u>8/31/99</u> Date	<u></u> (5) JOSEPH P. BRATT
<u>8-30-99</u> Date	<u></u> (6) GEORGE CUAN
<u>10/8/99</u> Date	<u></u> (7) STEPHEN L. DODGEN
<u>8/31/99</u> Date	<u></u> (8) EMERSON S. FANG
<u>8/30/99</u> Date	<u></u> (9) ZHAOYU GONG
<u>8/31/99</u> Date	<u></u> (10) THOMAS Y. HO
<u>09/07/99</u> Date	<u></u> (11) HENGWEI HSU
<u>09/07/1999</u> Date	<u></u> (12) SIDONG LI

8/31/99
Date

Sam Ng
(13) SAM NG

Date

(14) MATTHEW N. PAKIPOS

9/8/99
Date

Jason R. Redgrave
(15) JASON R. REDGRAVE

9/7/99
Date

Sushma S. Trivedi
(16) SUSHMA S. TRIVEDI

9/14/99
Date

Nathan D. Tuck
(17) NATHAN D. TUCK

9-7-99
Date

Shun Dai Go
(18) SHUN WAI GO

9-8-99
Date

Lindy Fung
(19) LINDY FUNG

09/08/99
Date

Tuan D. Nguyen
(20) TUAN D. NGUYEN

9/7/99
Date

Joseph P. Grass
(21) JOSEPH P. GRASS

09-08-99
Date

Bo Hong
(22) BO HONG

8/31/99
Date

Abraham Mammen
(23) ABRAHAM MAMMEN

9/7/99
Date

Abbas Rashid
(24) ABBAS RASHID

9/7/99
Date

Albert Suanwei Tsay
(25) ALBERT SUAN-WEI TSAY

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

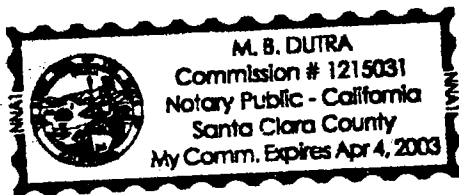
County of Santa Clara } ss.

On Aug. 27, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Jerome F. Duluk, Jr.,
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Patent Assignment File # A-66364

Document Date: 08/20/99 Number of Pages: 5

Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Jerome F. Duluk, Jr.

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: Inventor

Signer Is Representing: _____



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

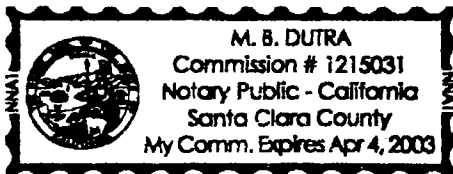
County of Santa Clara } ss.

On Aug 27, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Richard E. Hessel
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



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M.B. Dutra
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Title or Type of Document: Patent Assignment File # A-66364

Document Date: 08/20/99 Number of Pages: 5

Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Richard E. Hessel

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: Inventor

Signer Is Representing: _____



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

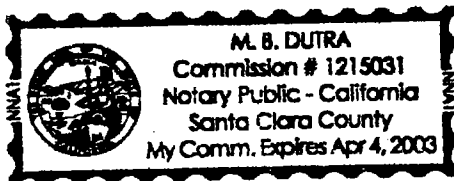
County of Santa Clara } ss.

On Aug. 30, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared George Cuam,
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

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M.B. Dutra
Signature of Notary Public

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Document Date: 08/20/99 Number of Pages: 5

Signer(s) Other Than Named Above: Multiple signers

Capacity(ies) Claimed by Signer

Signer's Name: George Cuam

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: inventor

Signer Is Representing: _____



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

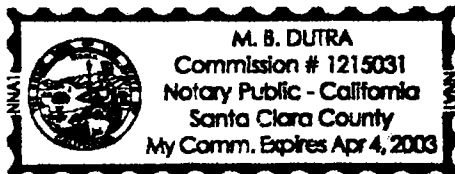
County of Santa Clara } ss.

On Aug. 30, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Zhaoyu Gong,
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra

Signature of Notary Public

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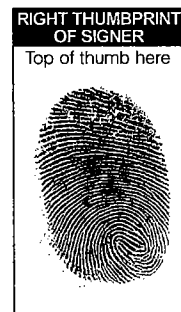
Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Zhaoyu Gong

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: Inventor

Signer Is Representing: _____



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of

Santa Clara

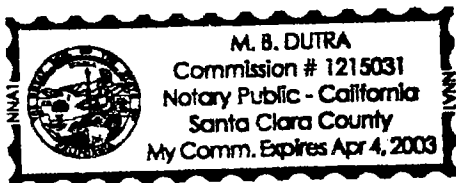
SS.

On Aug. 31, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Emerson S. Fang,
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(e) whose name(e) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(e) on the instrument the person(e), or the entity upon behalf of which the person(e) acted, executed the instrument.



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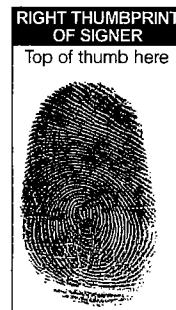
Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Emerson S. Fang

- ☒ Individual
- ☐ Corporate Officer — Title(s): _____
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☒ Other: Inventor

Signer Is Representing: _____



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

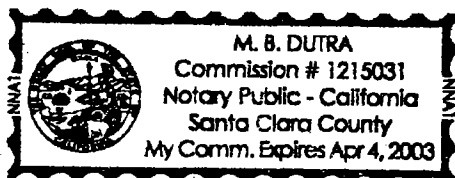
County of Santa Clara } ss.

On Aug. 31, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Sam Ng,
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



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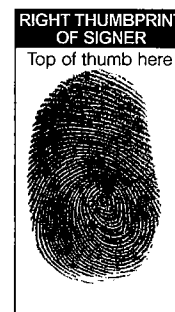
Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Sam Ng

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: Inventor

Signer Is Representing: _____



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of

Santa Clara

SS.

On Aug. 31, 1999

Date

, before me, M.B. Dutra, Notary Public

Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared

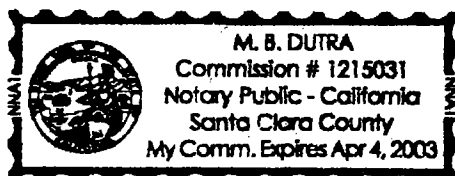
Abraham Mammen

Name(s) of Signer(s)

☐ personally known to me

☒ proved to me on the basis of satisfactory evidence

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M.B. Dutra

Signature of Notary Public

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Description of Attached Document

Title or Type of Document: Patent Assignment for file # A-166364

Document Date: 08/20/99

Number of Pages: 5

Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Abraham Mammen

☒ Individual

☐ Corporate Officer — Title(s): _____

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☒ Other: Inventor

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of

Santa Clara

} ss.

On Aug. 31, 1999

Date

, before me, M.B. Dutra, Notary Public

Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared

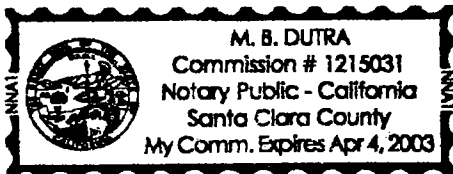
Joseph P. Bratt

Name(s) of Signer(s)

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Patent Assignment for File # A-66364

Document Date: 08/20/99

Number of Pages: 5

Signer(s) Other Than Named Above:

Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name:

Joseph P. Bratt

☒ Individual

☐ Corporate Officer — Title(s):

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☒ Other: Inventor

Signer Is Representing:

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

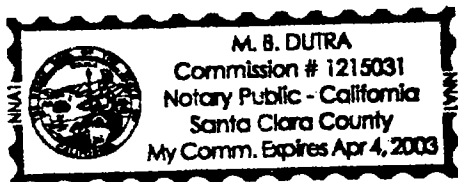
County of Santa Clara } ss.

On Aug. 31, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Thomas Y. Ho.
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Patent Assignment for File # A-66364

Document Date: 08/20/99 Number of Pages: 5

Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Thomas Y. Ho

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: Inventor

Signer Is Representing: _____



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Santa Clara

SS.

On Sept. 01, 1999, before me, M.B. Dutra, Notary Public

Date

Name and Title of Officer (e.g., "Jane Doe, Notary Public")

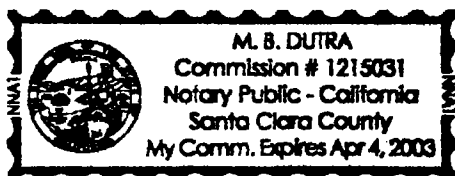
personally appeared Jason R. Redgrave

Name(s) of Signer(s)

☐ ~~personally known to me~~

☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra

Signature of Notary Public

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Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Jason R. Redgrave

☒ Individual

☐ Corporate Officer — Title(s): _____

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☒ Other: Inventor

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of

Santa Clara

SS.

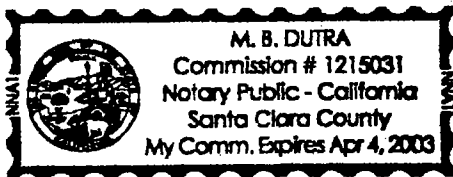
On Sept. 07, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Joseph P. Grass,
Name(s) of Signer(s)

☐ personally known to me

☒ proved to me on the basis of satisfactory evidence

to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra
Signature of Notary Public

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Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Joseph P. Grass

☒ Individual

☐ Corporate Officer — Title(s): _____

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☒ Other: Inventor

Signer Is Representing: _____

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County of

Santa Clara

SS.

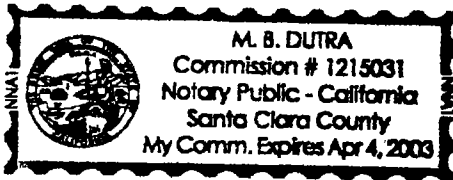
On Sept. 07, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Abbas Rashid,
Name(s) of Signer(s)

☐ personally known to me

☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra

Signature of Notary Public

OPTIONAL

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Title or Type of Document: Patent Assignment File # A-66364

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Signer(s) Other Than Named Above: Multiple signers

Capacity(ies) Claimed by Signer

Signer's Name: Abbas Rashid

☒ Individual

☐ Corporate Officer — Title(s): _____

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☒ Other: Inventor

Signer Is Representing: _____



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

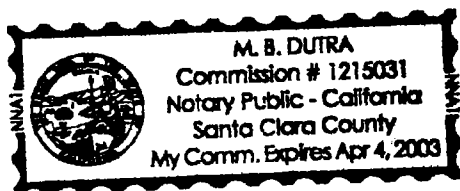
County of Santa Clara } ss.

On Sept. 07, 1999, before me, M.B. Dutra Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Sidong Li
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra
Signature of Notary Public

OPTIONAL

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Description of Attached Document

Title or Type of Document: Patent Assignment File # A-62364

Document Date: 08/20/99 Number of Pages: 5

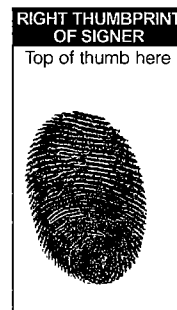
Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Sidong Li

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: Inventor

Signer Is Representing: _____



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of

Santa Clara

SS.

On Sept. 07, 1999

Date

, before me, M.B. Dutra, Notary Public

Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared

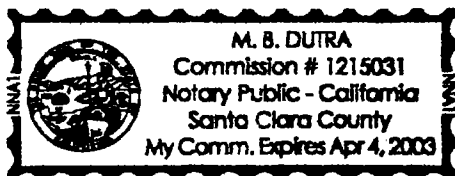
Albert Suan-Wei Tsay

Name(s) of Signer(s)

☐ personally known to me

☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra

Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document:

Patent Assignment File # A-160364

Document Date:

08/20/99

Number of Pages:

5

Signer(s) Other Than Named Above:

Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name:

Albert Suan-Wei Tsay

☒ Individual

☐ Corporate Officer — Title(s):

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☒ Other:

Inventor

Signer Is Representing:

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County of

Santa Clara

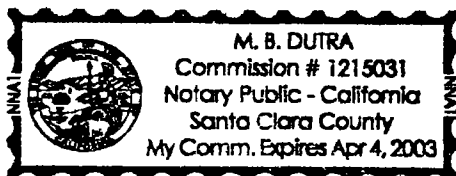
SS.

On Sept. 07, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Shun Wai Go,
Name(s) of Signer(s)

- ☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra

Signature of Notary Public

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Description of Attached Document

Title or Type of Document: Patent Assignment File # A-66364

Document Date: 08/20/99 Number of Pages: 5

Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Shun Wai Go

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: Inventor

Signer Is Representing: _____



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County of Santa Clara } ss.

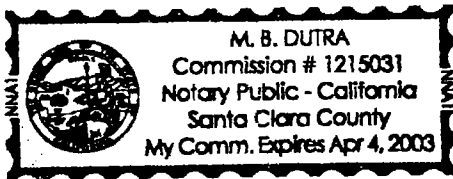
On Sept. 07, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Hengwei Hsu,
Name(s) of Signer(s)

☐ personally known to me

☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra

Signature of Notary Public

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Description of Attached Document

Title or Type of Document: Patent Assignment File # A-166364

Document Date: 08/20/99 Number of Pages: 5

Signer(s) Other Than Named Above: Multiple signers

Capacity(ies) Claimed by Signer

Signer's Name: Hengwei Hsu

☒ Individual

☐ Corporate Officer — Title(s): _____

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☒ Other: Inventor

Signer Is Representing: _____

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County of Santa Clara

SS.

On Sept. 07, 1999, before me, M.B. Dutra, Notary Public

Date

Name and Title of Officer (e.g., "Jane Doe, Notary Public")

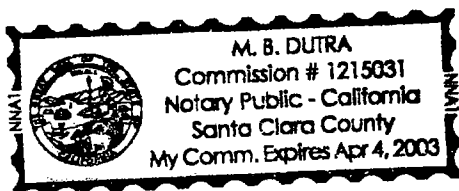
personally appeared Sushma S. Trivedi

Name(s) of Signer(s)

☐ personally known to me

☒ proved to me on the basis of satisfactory evidence

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Place Notary Seal Above

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M.B. Dutra

Signature of Notary Public

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Document Date: 08/20/99

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Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Sushma S. Trivedi

☒ Individual

☐ Corporate Officer — Title(s): _____

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☒ Other: Inventor

Signer Is Representing: _____

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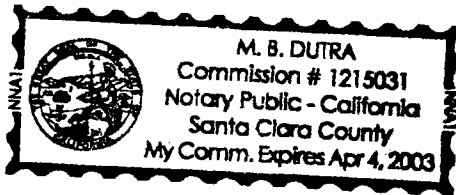
County of Santa Clara } ss.

On Sept. 08, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Bo Hong,
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



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M.B. Dutra
Signature of Notary Public

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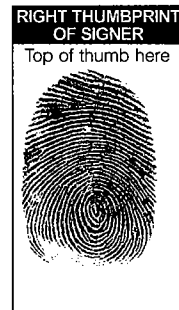
Signer(s) Other Than Named Above: Multiple signers

Capacity(ies) Claimed by Signer

Signer's Name: Bo Hong

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: Inventor

Signer Is Representing: _____



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State of California

County of

Santa Clara

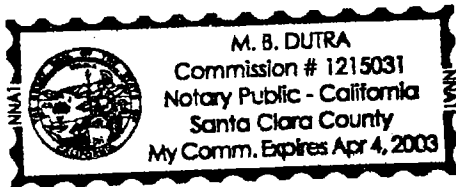
} ss.

On Sept. 08, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Vaughn T. Arnold,
Name(s) of Signer(s)

- ☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

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WITNESS my hand and official seal.

MB Dutra
Signature of Notary Public

OPTIONAL

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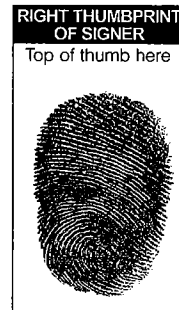
Signer(s) Other Than Named Above: Multiple Signers

Capacity(ies) Claimed by Signer

Signer's Name: Vaughn T. Arnold

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: Inventor

Signer Is Representing: _____



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State of California

County of Santa Clara

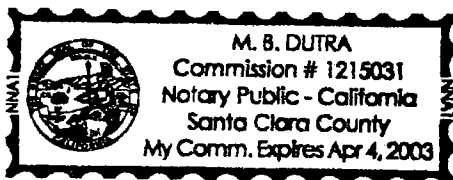
SS.

On Sept. 08, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Tuan D. Nguyen,
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



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M.B. Dutra

Signature of Notary Public

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Signer(s) Other Than Named Above: Multiple signers

Capacity(ies) Claimed by Signer

Signer's Name: Tuan D. Nguyen

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: Inventor

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of

Santa Clara

} ss.

On Sept. 08, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared

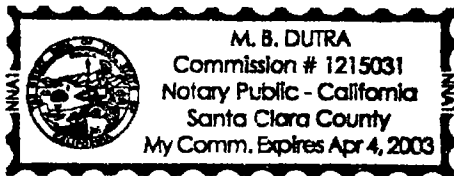
Lindy Fung

Name(s) of Signer(s)

☐ ~~personally known to me~~

☒ proved to me on the basis of satisfactory evidence

to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity(~~ies~~), and that by ~~his~~/her/~~their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra

Signature of Notary Public

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Document Date: 08/20/99 Number of Pages: 5

Signer(s) Other Than Named Above: Multiple signers

Capacity(ies) Claimed by Signer

Signer's Name: Lindy Fung

☒ Individual

☐ Corporate Officer — Title(s): _____

☐ Partner — ☐ Limited ☐ General

☐ Attorney in Fact

☐ Trustee

☐ Guardian or Conservator

☒ Other: Inventor

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here



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State of California

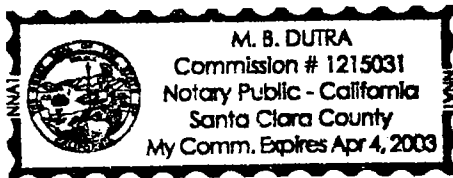
County of Santa Clara } ss.

On Sept. 09, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Jack Benkual,
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



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M.B. Dutra
Signature of Notary Public

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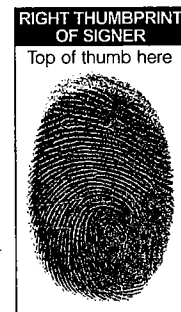
Signer(s) Other Than Named Above: Multiple signers

Capacity(ies) Claimed by Signer

Signer's Name: Jack Benkual

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: Inventor

Signer Is Representing: _____



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State of California

County of

Santa Clara

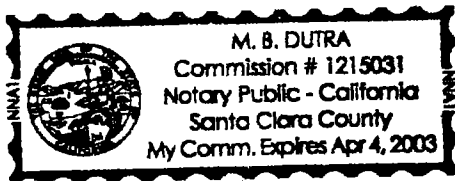
SS.

On Sept. 14, 1999, before me, M.B. Dutra Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Nathan D. Tuck,
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra

Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Patent Assignment; File # A-66364

Document Date: 08/20/99 Number of Pages: 5

Signer(s) Other Than Named Above: Multiple Signers

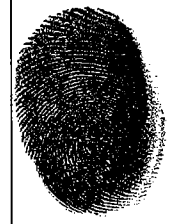
Capacity(ies) Claimed by Signer

Signer's Name: Nathan D. Tuck

- ☒ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☒ Other: Inventor

Signer Is Representing: _____

RIGHT THUMBPRINT
OF SIGNER
Top of thumb here



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

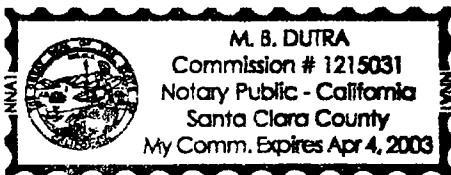
County of Santa Clara } ss.

On Oct. 08, 1999, before me, M.B. Dutra, Notary Public,
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Stephen L. Dodgen,
Name(s) of Signer(s)

☐ personally known to me
☒ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

M.B. Dutra
Signature of Notary Public

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☐ Corporate Officer — Title(s): _____
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☒ Other: Inventor

Signer Is Representing: _____

