Rev.o-93 Patent and Trademark Once	FORM PTO-1595	12-16	-2004 U.S. DEPARTMENT OF COMMERCE
Image 102906187 To the honorable commissioner of Patents and Trademarks. Prease recurs we attached original documents or copy thereof. 1. Name of conveying party(les): Fang Hao, Muraildharan S. Kodialam and Trunell V. Lakshman Additional nume(s) of conveying party(les) attached? 3. Nature of conveying party(les) attached? 4. Application number(s) conveying party(les) its conveying party(les). 8. Security Agreement Charge of the field together with a new application, the execution date of the application is	Rev.6-93 OMB-0651-0011) I I I I I I I I I I I I I I I I I I I	Patent and Trademark Office
To the tenorable Commissioner of Patents and Trademarks: Please traces or attached original documents or copy thereof. 1. Name of conveying party(les): Name of conveying party(les): Name and address of receiving party(les): Frang Hao, Muralidharan S. Kodialam and Triunell V. Lakshman Lucent Technologies Inc. Additional name(s) of conveying party(les) attached? Vec [X] No 3. Nature of conveying party(les) attached? Vec [X] No 3. Nature of conveying party(les) attached? Vec [X] No 3. Nature of conveying party(les) attached? Vec [X] No 3. Nature of conveying party(les) attached? Vec [X] No 3. Nature of conveying party(les) attached? Vec [X] No 3. Nature of conveying party(les) attached? Vec [X] 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 application is	0 12 01		
1. Name of conveying party(les): Fang Hao, Muraildharan S. Kodialam and Trunelly V. Lakshman Addisonal nume(s) of conveying party(les) stached? Ves [X] No 3. Nature of conveying party(les) stached? Ves [X] No 3. Nature of conveying party(les) stached? Ves [X] No 3. Nature of conveying party(les) stached? Ves [X] No 3. Nature of conveying party(les) stached? Ves [X] No 3. Nature of conveying party(les) stached? Ves [X] No 3. Nature of conveying party(les) stached? Ves [X] No 3. Other	12-13-04	10290	<u>6187</u> <u>(</u>
Fang Hao, Muralitharan S. Kodialam and Tirunell V. Lakshman Name: Lucent Technologies Inc. Additional name(s) of conveying party(se) attached? Yes [X] No 3. Nature of conveying party(se) attached? Yes [X] No 3. Nature of conveying party(se) attached? Yes [X] No 3. Nature of conveying party(se) attached? Yes [X] No 3. Nature of conveying party(se) attached? Yes [X] No 3. Nature of conveying party(se) attached? Yes [X] No Streat Address:	1. Name of conve	Honorable Commissioner of Patents and Trade eving party(ies):	
Trunell V. Lakshman Additional name(s) of conveying party(sex) attached? Ves. [X] No 3. Nature of conveying party(sex) attached? Ves. [X] No 3. Nature of conveying party(sex) attached? Ves. [X] No 3. Nature of conveying party(sex) attached? Ves. [X] No 3. Nature of conveying party(sex) attached? Ves. [X] No 3. Nature of conveying party(sex) attached? Ves. [X] No 3. Security Agreement Change of Name RC 13 2000 Chor P.O. Box 636 City: Jurrav Hill State: NJ Zip: 07974-0635 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			
Additional name(s) of conveying partyles) attached? Yes [K] No 3. Nature of conveyance: [X] Assignment [X] Merger [X] Assignment [X] Merger [X] No [X] Assignment [X] Merger [X] No [X] Other [X] Change of Name NE 13 200 and the second secon	•		
3. Nature of conveyance: Street Address: 60 Mountain Avenue 3. Nature of conveyance: P.O. Box 636 3. Nature of conveyance: P.O. Box 636 3. Security Agreement: Change of the DE 1 3 200 mountain Avenue 3. Other P.O. Box 636 Cother Additional name(s) & address(es) attached? Yes [X] 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 application is Additional name(s) & address (es) attached? Yes [X] No 4. Application numbers attached? Yes [X] No B. Patent No. (s) B. Patent No. (s) Total number of applications and patents involved:1 7. Total fee (37 CFR 3.41) \$ \$40.00 [X] Enclosed [] Authorized to be charged to deposit account 8. Statement and signature. Total number of application is in the and correct and any attached copy is a true copy of the original document. 6. Statement and signature. Total number of pages including cover sheet, attachments, and document: 5 Mail documents to be recorded with required cover sheet information to: Date 8. Statement and signature. Iz!/19/0 Y Total number of pages including cover sheet, attachments, and document: 5 Mail documents to be recorded with required cover sheet information to: <			Internal Address:
3. Nature of conveyance: [N] Assignment Image: Change of the original document is being filed together with a new application, the execution date of the application is	Additional name(s) of	conveying party(ies) attached?	Street Address: 600 Mountain Avenue
Security Agreement Change of New PE: 1 3 2004 City::::::::::::::::::::::::::::::::::::	3. Nature of convey		
□ Other			City: <u>Murray Hill</u> State: NJ Zip: <u>07974-0636</u>
	Security Agreen	hent Change of Name VCL 3 2004	
Execution Date: 12/07/04 4. Application number(s) or patent number(s): If this document is being filled together with a new application, the execution date of the application is	Other		Additional name(s) & address(es) attached? Yes [X] No
If this document is being filed together with a new application, the execution date of the application is A. Patent Application No.(s) B. Patent No. (s) 10/947,072 Additional numbers attached? □ Yes [X] No 5. Name and address of party to whom correspondence concerning document should be mailed: 6. Total number of applications and patents involved:1 Name: Steve Mendelsohn	Execution Date: <u>1</u>		
document should be mailed: 7. Total fee (37 CFR 3.41) \$ \$40.00 Internal Address: Mendelsohn & Associates, P.C. Street Address: 1515 Market Street Suite 715 []] Authorized to be charged to deposit account B. Deposit account number: (Attach duplicate copy of this page if paying by deposit account) Do NOT USE THIS SPACE B. Deposit account number: Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE B. Statement and signature. 7. Total number of pages including cover sheet, attachments, and document: Mame of Person Signing Signature Total number of pages including cover sheet, attachments, and document: 5 Mail documents to be recorded with required cover sheet information to: Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450 40.00 BP	Additional numbers	attached? Yes [X] No	
Name: Steve Mendelsohn Internal Address: Mendelsohn & Associates, P.C. Street Address: 1515 Market Street Suite 715 Suite 715 City: Philadelphia State: PA Zip: 19102 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. <u>Kevin M. Drucker</u> Name of Person Signing Total number of pages including cover sheet, attachments, and document: Director of the U.S. of Patents & Trademark Office Mail documents to be recorded with required cover sheet information to: Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 N/2004 BABRAHA1 00000004 10947072			ng 6. Total number of applications and patents involved: <u>1</u>
Internal Address: Mendelsohn & Associates, P.C. Street Address: 1515 Market Street Stite 715 []] Authorized to be charged to deposit account Stite 715 8. Deposit account number: (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. <u>Kevin M. Drucker</u> Name of Person Signing I2/9/0.9 Signature Total number of pages including cover sheet, attachments, and document: 5 Mail documents to be recorded with required cover sheet information to: Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 A/2004 BABRAHA1 00000004 10947072 Alexandria, VA 22313-1450	Nomo	Stove Mendelsehn	7. Total fee (37 CFR 3.41) \$ <u>\$40.00</u>
Street Address: 1515 Market Street Suite 715 []] Authorized to be charged to deposit account City: Philadelphia State: PA Zip: 19102 City: Philadelphia State: PA Zip: 19102 Do NOT USE THIS SPACE 8. Deposit account number: (Attach duplicate copy of this page if paying by deposit account) 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. <u>Kevin M. Drucker</u> Name of Person Signing I2/9/0 Y Signature Total number of pages including cover sheet, attachments, and document: _5 Mail documents to be recorded with required cover sheet information to: Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 A/2004 BABRAHAI 00000004 10947072 Alexandria, VA 22313-1450 Cit8021 40.00 OP			[X] Enclosed
Suite 715 [] Authorized to be charged to deposit account Suite 715 8. Deposit account number: (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. <u>Kevin M. Drucker</u> Name of Person Signing I2/9/0.9 Signature Total number of pages including cover sheet, attachments, and document: 5 Mail documents to be recorded with required cover sheet information to: Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450			
8. Deposit account number: (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. <u>Kevin M. Drucker</u> Name of Person Signing I2/9/0.9 Signature Total number of pages including cover sheet, attachments, and document: 5 Mail documents to be recorded with required cover sheet information to: Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450			Authorized to be charged to deposit account
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. <u>Kevin M. Drucker</u> Name of Person Signing Total number of pages including cover sheet, attachments, and document: <u>Jiector of the U.S. of Patents & Trademark Office</u> Mail documents to be recorded with required cover sheet information to: Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 A/2004 BABRAHA1 00000004 10947072		Suite 715	8. Deposit account number:
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. <u>Kevin M. Drucker</u> <u>12/9/09</u> Name of Person Signing <u>12/9/09</u> Total number of pages including cover sheet, attachments, and document: <u>5</u> Mail documents to be recorded with required cover sheet information to: Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 A/2004 BABRAHA1 00000004 10947072 40.00 OP	City: Philadelphia	State: PA Zip: 19102	(Attach duplicate copy of this page if paying by deposit account)
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 <u>Kevin M. Drucker</u> Name of Person Signing Total number of pages including cover sheet, attachments, and document: <u>5</u> Mail documents to be recorded with required cover sheet information to: Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 A/2004 BABRAHA1 00000004 10947072 Alexandria, VA 22313-1450		DO N	IOT USE THIS SPACE
Kevin M. Drucker Date Name of Person Signing Date Total number of pages including cover sheet, attachments, and document: 5 Mail documents to be recorded with required cover sheet information to: Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 A/2004 BABRAHA1 00000004 10947072 Alexandria, VA 22313-1450	To the best of r		tion is true and correct and any attached copy is a true copy of the original \sim
Name of Person Signing Signature Date Total number of pages including cover sheet, attachments, and document: 5 Mail documents to be recorded with required cover sheet information to: Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 A/2004 BABRAHA1 00000004 10947072 Alexandria, VA 22313-1450	Kovin M. D-		16/ 12/9/04
Total number of pages including cover sheet, attachments, and document: _5 Mail documents to be recorded with required cover sheet information to: Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 A/2004 BABRAHA1 00000004 10947072 Alexandria, VA 22313-1450 C:8021 40.00 OP			ignature Date
Director of the U.S. of Patents & Trademark Office Mail Stop Assignment Recordation Services P.O. Box 1450 A/2004 BABRAHA1 00000004 10947072 Alexandria, VA 22313-1450 C:8021 40.00 DP		• •	•
P.O. Box 1450 A/2004 BABRAHA1 00000004 10947072 Alexandria, VA 22313-1450 C:8021 40.00 DP		Director of the U.S	S. of Patents & Trademark Office
::8021 40.00 DP	1/2004 RORROHO1 01		P.O. Box 1450
			DATENT

PATENT REEL: 016068 FRAME: 0601 Customer No.: 46850

Attorney Docket No.: <u>Hao 3-32-32</u> ASSIGNMENT AND AGREEMENT

For value received, I, as a below-named inventor:

Fang Hao of *Matawan* in the County of Monmouth and State of New Jersey, *Muralidharan S. Kodialam* of *Mariboro* in the County of Monmouth and State of New Jersey, *Tirunell V. Lakshman* of *Morganville* in the County of Monmouth and State of New Jersey,

hereby sell, assign, and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, U.S.A., and its successors, assigns, and legal representatives, the entire right, title, and interest, for the United States of America, in and to certain inventions related to **Accelerated Per-Flow Traffic Estimation** described in an application for Letters Patent of the United States, identified using the same Attorney Docket No., and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions: and I also concurrently hereby sell, assign, and transfer to Lucent Technologies Inc. the entire right, title, and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

I authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from me, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Lucent Technologies Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

I request that any and all patents for said inventions be issued to Lucent Technologies Inc. in the United States and in all countries foreign to the United States, or to such nominees as Lucent Technologies Inc. may designate.

I agree that, when requested, I shall, without charge to Lucent Technologies Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable, or convenient in connection with said applications, patents, or other forms of protection. Customer No.: 22186

2 Attorney Docket No.: Hao 3-32-32

Date: 12/\$/04

United States of America

State of New Jersey)ss .: County of Monmo un)

On this $\underline{14}$ day of $\underline{December}$ 2004, before me personally came Fang Hao, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

)

Notary Public

SHARON L. LOBOGOO Notary Public, State of New Jersey No. 2273076 Qualified in Ocean County Commission Englise August 14, 2013

990.0524

RECORDED: 12/13/2004

PATENT REEL: 016068 FRAME: 0603