

07-06-1998



U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commissioner of Patents and	100754838 nal documents or copy thereof.
 Name of conveying party(ies): William B. Andrews, Barry K. Britton, Kai-Kit Ngai Gary P. Powell, Satwant Singh, Carolyn W. Spivak. Richard G. Stuby, Jr. Additional name(s) of conveying party(ies) attached? Yes [X] No 	Internal Address:
3. Nature of con/eyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other 2/18/98, 2/24/98 3/06/98. Execution Date: 3/11/98, 3/31/98. 4. Application number(s) or patent number(s):	Street Address: 600 Mountain Avenue P.O. Box 636 City: Murray Hill State: NJ ZIP:07974-0636 Additional name(s) & address(es) attached? [] Yes [X] No
A. Patent Application No.(s) 08/950,446	new application, the execution date of the application B. Patent No.(s)
5. Name and address of party to whom correspondence concerning document should be mailed:	attached? [] Yes [X] No 6. Total number of applications and patents involved: [1]
Name: Steve Mendelsohn Internal Address: Weiser & Associates, P.C.	7. Total Fee (37 CFR 3.41)\$40.00 [] Enclosed [X] Authorized to be charged to deposit account
Street Address: 230 S. 15th Street Suite 500 City: Philadelphia State: PA ZIP: 19102	8. Deposit account number: 12-2325 (attach duplicate copy of this page if paying by deposit account)
DO NOT	by deposit account) USE THIS SPACE egoing information is true and correct and any attache
Associates, P.C. JUTE 500 FIFTER THE 5T Steve Mendelsohn FIFTER THE 19 Name of Person Signing E (215) 875-8384 Total number of pages including cover sheet,	Signature Date attachments, and document: 25
Andrews 3-17-4-4-8-3-7 Commissioner of Patents	th required cover sheet information to: s & Trademarks, Box Assignments T ton, D.C. 20231

ASSIGNMENT AND AGREEMENT

For value received, we:

William B. Andrews of Long Pond in the County of Monroe and State of Pennsylvania,

Barry K. Britton of Orefield in the County of Lehigh and State of Pennsylvania,

Kai-Kit Ngai of Campbell and State of California,

Gary P. Powell of Allentown in the County of Lehigh and State of Pennsylvania,

Satwant Singh of and State of California,

Carolyn W. Spivak of Emmaus in the County of Lehigh and State of Pennsylvania,

Richard G. Stuby of New Tripoli in the County of Lehigh and State of Pennsylvania,

hereby sell, assign, and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, P.O. Box 636, 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 **Global Signal Distribution** with Reduced Routing Tracks in an FPGA described in an application for Letters Patent of the United States, executed by me of even date herewith, 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 we 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.

We 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 us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We 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.

We request that any and all patents for said inventions be issued to Lucent Technologies Inc.

SUITE 500
230 SO, FIFTEENIN ST.

PHILADELPHIA PA 19*02
Technologies Inc. may designate.

PAGSIMULE (275) 875-88394

Technologies Inc. may designate.

We agree that, when requested, we 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 protections.

Date: 3-6-98

United States of America

State of Penneyconne) ss.:
County of Lange)

executed the foregoing instrument, and acknowledge execution of the same.

Motary Public

Notanal Seal
Yolanda W. Misones, system Public
Aliensown, Leady County
My Commission the reasons 31, 2000
Months Penns with a September of the

AW OFFICES Weiser & Associates, P.C.
SUITE 500
230 SOLFIFTEENTH ST PHILADELPHIA, PA. 19102 (215) 875-8383 FACSIMILE (215) 875-8394

Bing to Forth

Date: 4/24/78

United States of America

State of Salary (Salary) ss.:
County of Salary (Salary)

On this Aday of Adams 19 5, before me personally came Barry K. Britton, to me known to be the individual described in and who executed the foregoing instrument, and acknowledge execution of the same.

Notary Public

Notarial Seal Yolanda W. Mikovits, Notary Public Allentown, Lehigh County My Commission Expires Jan. 31, 2000

Member Pennsylvania Association of Notaries

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO FIFTEENTH ST
PHILADELPHIA, PA 19102
(215) 875-8383 FACSIMILE (215) 875-8394

		Kai-Kit Ngai	
Date:			
United States of America)		
State of) ss.:		
County of)		
On this personally came <u>Kai-Kit N</u>	day of	be the individual descri	19, before me ibed in and who executed
the foregoing instrument, a	and acknowledge exec	cution of the same.	
		No	tary Public

, AW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO FIFTEENTH ST
PHILADEL PHIA, PA 19102
[215) 875-8383
FACSIMILE (215) 875-8394

Date: 3/11/98			
United States of America)		
State of Sta) ss.:		
County of Achar)		
On this day of personally came <u>Gary P. Powell</u> , to executed the foregoing instrument, a		I described in and	, before me who

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO FIFTEENIH ST
PHILADE PHILA PA 19102
(215) 875-8383
FACSIMILE (215) 875-8394

990.0076

Driver Shad the others in except of the Petric Adenticated on Egypticated crystic ordination Egypticated of Adoles Clembes, Panasylvana Association of Adoles

Attorney Docket No.: A	<u> </u>
------------------------	----------

		Satwant Singh	
Date:	_		
United States of America)		
State of) ss.:		
County of)		
On this personally came <u>Satwant S</u> the foregoing instrument, a	Singh, to me known to	, 19	, before me in and who executed
		Notary P	ublic

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO FIFTEENTH ST
PHILADEIPHIA PA 19:02
(215) 675-8383
FACSIMILE (215) 875-8394

	Carolyn W. Spivak
Date: 2/24/94	
United States of America)
State of Annual Control) ss.:
County of A. My)
	, 19 / , before me k, to me known to be the individual described in and who and acknowledge execution of the same.
	Notary Public
	Notary Public
	Nectorial Sept Yokanda W. Mikowits, Notan, Colfo Mikantowa, Langa Co. Outanasian Expires J. 2000
	Year the mayivanta Association or legistics

.AW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO FFTEEN14 ST
PHILADELPHIA PA 19102
(215) 875-8383
FACSIMILE (215) 875-8394

Richard G. Stuby

Date: 6 March 1998

United States of America

State of Farry min) ss.:

County of Link gland)

On this 6th day of 7ht 19 / 10, before me personally came Richard G. Stuby, to me known to be the individual described in and who executed the foregoing instrument, and acknowledge execution of the same.

Motary Public

sictanal boot Yolange W. Macking No. 20v (PC); J Albertuwn, Ferryo County Nay Communiscon Facens Jan. 21, 2000 Nember, Pechselvana Association of Notenas

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO. FIFTEENTH ST
PHILADELPHIA, PA 19102
(215) 875-8383
FACSIMILE (215) 875-8394

ASSIGNMENT AND AGREEMENT

For value received, we:

William B. Andrews of Long Pond in the County of Monroe and State of Pennsylvania,

Barry K. Britton of Orefield in the County of Lehigh and State of Pennsylvania.

Kai-Kit Ngai of Campbell and State of California,

Gary P. Powell of Allentown in the County of Lehigh and State of Pennsylvania,

Satwant Singh of and State of California,

Carolyn W. Spivak of Emmaus in the County of Lehigh and State of Pennsylvania,

Richard G. Stuby of New Tripoli in the County of Lehigh and State of Pennsylvania,

hereby sell, assign, and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, P.O. Box 636, 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 FPGA With Signal-Sharing Scheme described in an application for Letters Patent of the United States, executed by me of even date herewith, 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 we 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.

We 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 us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We 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.

FACSIMILE (215) 875-8394

We request that any and all patents for said inventions be issued to Lucent Technologies Inc. 230 SO FIFTEENINGS in the United States and in all countries foreign to the United States, or to such nominees as Lucent HLADELPHIA, PA 19102 [215] B75-8383 Technologies Inc. may designate.

We agree that, when requested, we 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 protections.

		William B. Andrey	<u>vs</u>
Date:	_		
United States of America)		
State of) ss.:		
County of)		
On this personally came <u>William E</u> executed the foregoing inst	<u>8. Andrews,</u> to me kno	wn to be the individual	
		Not	ary Public

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO. FIFTEEN H ST.
PHILADELPHIA, PA 19102
(215) 875-8383
FACSIMILE (215) 878-8394

990.0076

PATENT REEL: 9274 FRAME: 0737

		Barry K. Britton	The state of the s
Date:	_		
United States of America)		
State of) ss.:		
County of)		
	Britton, to me known to	, 19	
		Notary Publi	c

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO. FIFTEENTH ST.
PHILADELPHIA, PA 19102
(215) 875-8383
FACSIMILE (215) 875-8394

K	K)		
Kai-Kit Ngai		7		

Date: 3/31/98

United States of America

State of CALIFORNIE) ss.:

SCNIFT ZCS - 174. GOTG. TONY KAIKIT NA

County of SANTA CLARA)

)

Notary Public

SUSAN S. NISHIMOTO
Comm. # 1170545
NOTARY PUBLIC - CALIFORNIA
Santa Clara County
My Comm. Expires Jan. 19, 2002

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO, FIFTEENTH ST
PHILADELPHIA, PA 19102
[215] 875-8383

Attorney Docket No.:	Andrews 3-17-4-4-8-3-7

		Gary P. Powell	
Date:			
United States of America)		
State of) ss.:		
County of)		
On this	day of	, 19	, before me
		o be the individual described in ledge execution of the same.	n and wno
		Notary Pu	blic

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO FIFTEENTH ST
PHILADEIPHIA PA 19702
(215) 875-8383
FACSIMILE (215) 878-8394

		Attorney Docket No.: Andrews 3-17-4-4-8-3-7
		Satwant Singh
Date:		
United States of America)	
State of) ss.:	

On this _____ day of ______, 19_____, before me personally came <u>Satwant Singh</u>, to me known to be the individual described in and who executed the foregoing instrument, and acknowledge execution of the same.

)

Notary Public

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO FIFTEENTH ST.
PHILAGEIPHIA PA 19102
(215) 875-8383
FACSIMILE (215) 875-8384

990.0076

County of

			The state of the s	
		<u>Carolyn W. Spi</u>	<u>vak</u>	
Date:				
United States of America)			
State of) ss.:			
County of)			
On this	lay of		_, 19	, before me
personally came Carolyn W.				ed in and who
executed the foregoing instru	ment, and acknow	ledge execution of the	ie same.	
		graduates assessment 20100-1- Alberton - Marcon	Notary Pub	olic

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO. FIFTEENTH ST
PHILADELPHIA PA 19102
(215) 875-8383
FACSIMILE (215) 875-8384

		Richard G. Stuby	
Date:			
United States of America)		
State of) ss.:		
County of)		
On this	day of	. 19	, before me
		n to be the individual descr ledge execution of the same	
		Notary	Public

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO. FIFTEENTH S1
PHILADELPHIA PA 19102
(215) 875-8383
SAC SIMILE (215) 875-8094

ASSIGNMENT AND AGREEMENT

For value received, we:

William B. Andrews of Long Pond in the County of Monroe and State of Pennsylvania,

Barry K. Britton of Orefield in the County of Lehigh and State of Pennsylvania,

Kai-Kit Ngai of Campbell and State of California,

Gary P. Powell of Allentown in the County of Lehigh and State of Pennsylvania,

Satwant Singh of Union City and State of California,

Carolyn W. Spivak of Emmaus in the County of Lehigh and State of Pennsylvania,

Richard G. Stuby of New Tripoli in the County of Lehigh and State of Pennsylvania,

hereby sell, assign, and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, P.O. Box 636, 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 FPGA With Signal-Sharing Scheme described in an application for Letters Patent of the United States, executed by me of even date herewith, 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 we 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.

We 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 us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We 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.

AW OFFICES (215) 875-8383 FACSIMILE (215) 875-8394

We request that any and all patents for said inventions be issued to Lucent Technologies Inc. SUITE 500 as on the United States and in all countries foreign to the United States, or to such nominees as Lucent Technologies Inc. may designate.

We agree that, when requested, we 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 protections.

		William B. Andrews	
Date:			
United States of America)		
State of) s s .:		
County of)		
personally came William F	3. Andrews, to me kn	, 19 own to be the individual describ ledge execution of the same.	
		Notary Pub	lic

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO FIFTEENTH ST
PHILADELPHIA, PA 19102
[215] 875-8383
FACSIMILE (215) 875-8344

		Barry K. Britton		
Date:				
United States of America)			
State of) ss.:			
County of)			
personally came Barry K.		to be the individual of	describe	
executed the foregoing ins	trument, and acknowle	eage execution of the	: same.	
		N	otary Pi	ıblic

LAW OFFICES
Weiser & Associates, P.C.
SUITE 560
230 SO. FIFTEENIH 5.T.
PHILADEEPINA, PA. 19102
(215) 875-8383
*ACSIMILE (215) 875-8394

Attorney	Docket No.:	Andrews 3-17-4-4-8-3-7

		Voi Vit Nooi	
		Kai-Kit Ngai	
Date:			
United States of America)		
State of) ss.:		
County of)		
On this	_day of	, 19	, before me
the foregoing instrument, a		be the individual described in a cution of the same.	and who executed
			eller auf en
		Notary Pul	olic

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO FIFTEENTH ST
PHILADEL PHIA, PA 15102
(215) 875-8383
FACSIMILE (215) 875-8394

		Gary P. Powell		
Date:	_			
United States of America)			
State of) ss.:			
County of)			
•				
On this	_ day of		, 19	, before me
personally came Gary P. P	<u>owell,</u> to me known to	o be the individual de	scribed in an	d who
executed the foregoing ins	trument, and acknowl	edge execution of the	e same.	
		N	lotary Public	

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO. FIFTEENTH ST
PHILADELPHIA, PA 19102
(215) 875-8383
FACSIMILE (215) 875-8394

Date: 7 - 18 - 95			
United States of America)		
State of Colifornia) ss.: 144-72 + 8062	u	
County of Alaymeda			
On this 18 day of personally came Satwant Singh, to m	e known to be the individual de	$\frac{19}{3}$ scribed in an	_, before me d who executed
the foregoing instrument, and acknow			



AW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO FIFTEENTH ST
PHILADELPHIA PA 18102
(215) 875-8383
FACSIMILE (215) 875-8394

990.0076

Notary Public

		Attorney Docket No.:	Andrews 3-17-4-4-8-3-7
		Carolyn W. Spivak	
Date:			
Dutc.			
United States of America)		
State of) ss.:		

On this ______ day of _______, 19______, before me personally came <u>Carolyn W. Spivak</u>, to me known to be the individual described in and who executed the foregoing instrument, and acknowledge execution of the same.

)

Notary Public

.AW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO, FIFTEBNIH ST.
PHILADEIPHIA, PA 19102
(215) 875-8383
FACSMILE (215) 875-8394

990.0076

County of

		Richard G. Stuby	
Date:	_		
United States of America)		
State of) ss.:		
County of)		
personally came Richard C	3. Stuby , to me knowi	, 19 to be the individual described edge execution of the same.	, before me
		Notary Pub	olic

LAW OFFICES
Weiser & Associates, P.C.
SUITE 500
230 SO FIFTEENTH ST
PHILADEL PHIA, PA 19102
[215] 675-6383
FACSIMILE (215) 875-8394

990.0076

PATENT REEL: 9274 FRAME: 0751