

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Alexei E. Ashikhmin	09/10/2008
Adriaan J. De Lind Van Wijngaarden	08/27/2008
Gerhard Guenter Theodor Kramer	08/29/2008
Jochen Maes	08/28/2008
Carl Jeremy Nuzman	08/29/2008
Carl Robert Posthuma	09/29/2008
Danny Van Bruyssel	08/28/2008
Jan S. Verlinden	08/28/2008
Philip Alfred Whiting	08/29/2008
Miroslav Zivkovic	09/01/2008

**RECEIVING PARTY DATA**

Name:	Lucent Technologies Inc.
Street Address:	600 Mountain Avenue
City:	Murray Hill
State/Country:	NEW JERSEY
Postal Code:	07974-0636

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	12197409

**CORRESPONDENCE DATA**

Fax Number: (516)759-9512  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
 Phone: 516-759-2722  
 Email: nyoffice@rml-law.com  
 Correspondent Name: William E. Lewis  
 Address Line 1: 90 FOREST AVENUE

OP \$40.00 12197409

Address Line 2: RYAN, MASON & LEWIS, LLP  
Address Line 4: LOCUST VALLEY, NEW YORK 11560

ATTORNEY DOCKET NUMBER: ASHIKHMIN 17-23-13-2-15

NAME OF SUBMITTER: William E. Lewis

**Total Attachments: 55**

source=1200-1272\_ASM#page1.tif  
source=1200-1272\_ASM#page2.tif  
source=1200-1272\_ASM#page3.tif  
source=1200-1272\_ASM#page4.tif  
source=1200-1272\_ASM#page5.tif  
source=1200-1272\_ASM#page6.tif  
source=1200-1272\_ASM#page7.tif  
source=1200-1272\_ASM#page8.tif  
source=1200-1272\_ASM#page9.tif  
source=1200-1272\_ASM#page10.tif  
source=1200-1272\_ASM#page11.tif  
source=1200-1272\_ASM#page12.tif  
source=1200-1272\_ASM#page13.tif  
source=1200-1272\_ASM#page14.tif  
source=1200-1272\_ASM#page15.tif  
source=1200-1272\_ASM#page16.tif  
source=1200-1272\_ASM#page17.tif  
source=1200-1272\_ASM#page18.tif  
source=1200-1272\_ASM#page19.tif  
source=1200-1272\_ASM#page20.tif  
source=1200-1272\_ASM#page21.tif  
source=1200-1272\_ASM#page22.tif  
source=1200-1272\_ASM#page23.tif  
source=1200-1272\_ASM#page24.tif  
source=1200-1272\_ASM#page25.tif  
source=1200-1272\_ASM#page26.tif  
source=1200-1272\_ASM#page27.tif  
source=1200-1272\_ASM#page28.tif  
source=1200-1272\_ASM#page29.tif  
source=1200-1272\_ASM#page30.tif  
source=1200-1272\_ASM#page31.tif  
source=1200-1272\_ASM#page32.tif  
source=1200-1272\_ASM#page33.tif  
source=1200-1272\_ASM#page34.tif  
source=1200-1272\_ASM#page35.tif  
source=1200-1272\_ASM#page36.tif  
source=1200-1272\_ASM#page37.tif  
source=1200-1272\_ASM#page38.tif  
source=1200-1272\_ASM#page39.tif  
source=1200-1272\_ASM#page40.tif  
source=1200-1272\_ASM#page41.tif  
source=1200-1272\_ASM#page42.tif  
source=1200-1272\_ASM#page43.tif  
source=1200-1272\_ASM#page44.tif  
source=1200-1272\_ASM#page45.tif  
source=1200-1272\_ASM#page46.tif

source=1200-1272\_ASM#page47.tif  
source=1200-1272\_ASM#page48.tif  
source=1200-1272\_ASM#page49.tif  
source=1200-1272\_ASM#page50.tif  
source=1200-1272\_ASM#page51.tif  
source=1200-1272\_ASM#page52.tif  
source=1200-1272\_ASM#page53.tif  
source=1200-1272\_ASM#page54.tif  
source=1200-1272\_ASM#page55.tif

ASSIGNMENT AND AGREEMENT


For value received, we, Alexei E. Ashikhmin, of Morristown in the County of Morris and State of New Jersey, Adriaan J. De Lind Van Wijngaarden, of New Providence in the County of Union and State of New Jersey, Gerhard Guenter Theodor Kramer, of Chatham in the County of Morris and State of New Jersey, Jochen Maes of Veerle, Belgium, Carl Jeremy Nuzman of Union in the county of Union and State of New Jersey, Carl Robert Posthuma, of Wheaton in the County of DuPage and State of Illinois, Danny Van Bruyssel of Temse, Belgium, Jan V.J. Verlinden of Deurne, Belgium, Philip Alfred Whiting, of New Providence in the County of Union and State of New Jersey, and Miroslav Zivkovic of The Netherlands, 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 **OPTIMIZING PRECODER SETTINGS USING AVERAGE SINR REPORTS FOR GROUPS OF TONES** described in application Serial No. 12/197,409 for Letters Patent of the United States, filed August 25, 2008, 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. in 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 protection.

  
\_\_\_\_\_  
Alexei E. Ashikhmin


Date: Sept. 10, 2008

United States of America )

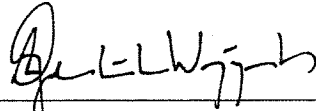
State of New Jersey ) ss.:

County of Union )

On this 10<sup>th</sup> day of Sept., 2008, before me personally came Alexei E. Ashikhmin, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
\_\_\_\_\_  
Notary Public

**Suzanne R. Sabo**  
**Notary Public - State of NJ**  
**Commission No. 2362058**  
**My Commission Expires 7/12/2012**



Adriaan J. De Lind Van Wijngaarden

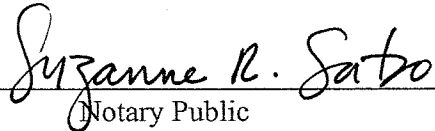
Date: Aug. 27, 2008

United States of America )

State of New Jersey ) ss.:

County of Union )

On this 27<sup>th</sup> day of August, 2008, before me personally came Adriaan J. De Lind Van Wijngaarden, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public

**Suzanne R. Sabo**  
**Notary Public - State of NJ**  
**Commission No. 2362056**  
**My Commission Expires 7/12/2012**

*Gerhard Kramer*

Gerhard Guenter Theodor Kramer

Date: 8/29/2008

United States of America )

State of New Jersey ) ss.:

County of Union )

On this 29<sup>th</sup> day of August, 2008, before me personally came Gerhard Guenter Theodor Kramer, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

*Suzanne R. Sabo*  
Notary Public

**Suzanne R. Sabo  
Notary Public - State of NJ  
Commission No. 2362056  
My Commission Expires 7/12/2012**

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jochen Maes

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature


\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name



  
\_\_\_\_\_  
Carl Jeremy Nuzman

Date: 29 Aug 2008

United States of America )

State of New Jersey ) ss.:

County of Union )

On this 29<sup>th</sup> day of August, 2008, before me personally came Carl Jeremy Nuzman, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
\_\_\_\_\_  
Notary Public

**Suzanne R. Sabo**  
**Notary Public - State of NJ**  
**Commission No. 2362056**  
**My Commission Expires 7/12/2012**

\_\_\_\_\_  
Carl Robert Posthuma

Date: \_\_\_\_\_

United States of America )

State of Illinois ) ss.:

County of DuPage )

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Carl Robert Posthuma, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Date

\_\_\_\_\_  
Danny Van Bruyssel

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jan V.J. Verlinden

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

P.A. Whiting  
Philip Alfred Whiting

Date: 29/Aug/2008

United States of America )

State of New Jersey ) ss.:

County of Union )

On this 29<sup>th</sup> day of August, 2008, before me personally came Philip Alfred Whiting, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Suzanne R. Sabo  
Notary Public

**Suzanne R. Sabo  
Notary Public - State of NJ  
Commission No. 2362056  
My Commission Expires 7/12/2012**

\_\_\_\_\_  
Date

\_\_\_\_\_  
Miroslav Zivkovic

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

Ryan, Mason & Lewis, LLP  
90 Forest Avenue  
Locust Valley, New York 11560  
(516) 759-2722

ASSIGNMENT AND AGREEMENT

For value received, we, Alexei E. Ashikhmin, of Morristown in the County of Morris and State of New Jersey, Adriaan J. De Lind Van Wijngaarden, of New Providence in the County of Union and State of New Jersey, Gerhard Guenter Theodor Kramer, of Chatham in the County of Morris and State of New Jersey, Jochen Maes of Veerle, Belgium, Carl Jeremy Nuzman of Union in the county of Union and State of New Jersey, Carl Robert Posthuma, of Wheaton in the County of DuPage and State of Illinois, Danny Van Bruyssel of Temse, Belgium, Jan V.J. Verlinden of Deurne, Belgium, Philip Alfred Whiting, of New Providence in the County of Union and State of New Jersey, and Miroslav Zivkovic of The Netherlands, 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 **OPTIMIZING PRECODER SETTINGS USING AVERAGE SINR REPORTS FOR GROUPS OF TONES** described in application Serial No. 12/197,409 for Letters Patent of the United States, filed August 25, 2008, 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. in 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 protection.

\_\_\_\_\_  
Alexei E. Ashikhmin

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Alexei E. Ashikhmin, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public



\_\_\_\_\_  
Adriaan J. De Lind Van Wijngaarden

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Adriaan J. De Lind Van Wijngaarden, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Gerhard Guenter Theodor Kramer

Date: \_\_\_\_\_

United States of America )


State of New Jersey ) ss.:

County of Union )


On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Gerhard Guenter Theodor Kramer, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

28/08/2008  
Date


  
\_\_\_\_\_  
Jochen Maes

28/08/2008  
Date

  
\_\_\_\_\_  
Witness #1 Signature

DANNY VAN BRUYSEL  
\_\_\_\_\_  
Witness #1 Print Name

28/08/2008  
Date

  
\_\_\_\_\_  
Witness #2 Signature

JAN VERLINDEN  
\_\_\_\_\_  
Witness #2 Print Name

\_\_\_\_\_  
Carl Jeremy Nuzman

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Carl Jeremy Nuzman, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Carl Robert Posthuma

Date: \_\_\_\_\_

United States of America )

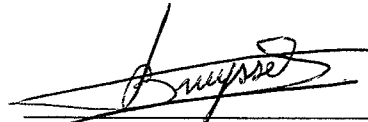
State of Illinois ) ss.:

County of DuPage )


On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Carl Robert Posthuma, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

28/08/2008  
Date


  
\_\_\_\_\_  
Danny Van Bruyssel

28/08/2008  
Date

  
\_\_\_\_\_  
Witness #1 Signature

JOCHEN MAES  
\_\_\_\_\_  
Witness #1 Print Name

28/08/2008  
Date

  
\_\_\_\_\_  
Witness #2 Signature

JAN VERLINDEN  
\_\_\_\_\_  
Witness #2 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jan V.J. Verlinden

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

\_\_\_\_\_  
Philip Alfred Whiting

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Philip Alfred Whiting, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public



\_\_\_\_\_  
Date

\_\_\_\_\_  
Miroslav Zivkovic

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

Ryan, Mason & Lewis, LLP  
90 Forest Avenue  
Locust Valley, New York 11560  
(516) 759-2722

ASSIGNMENT AND AGREEMENT

For value received, we, Alexei E. Ashikhmin, of Morristown in the County of Morris and State of New Jersey, Adriaan J. De Lind Van Wijngaarden, of New Providence in the County of Union and State of New Jersey, Gerhard Guenter Theodor Kramer, of Chatham in the County of Morris and State of New Jersey, Jochen Maes of Veerle, Belgium, Carl Jeremy Nuzman of Union in the county of Union and State of New Jersey, Carl Robert Posthuma, of Wheaton in the County of DuPage and State of Illinois, Danny Van Bruyssel of Temse, Belgium, Jan V.J. Verlinden of Deurne, Belgium, Philip Alfred Whiting, of New Providence in the County of Union and State of New Jersey, and Miroslav Zivkovic of The Netherlands, 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 **OPTIMIZING PRECODER SETTINGS USING AVERAGE SINR REPORTS FOR GROUPS OF TONES** described in application Serial No. 12/197,409 for Letters Patent of the United States, filed August 25, 2008, 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. in 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 protection.

\_\_\_\_\_  
Alexei E. Ashikhmin

Date:\_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Alexei E. Ashikhmin, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Adriaan J. De Lind Van Wijngaarden

Date:\_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Adriaan J. De Lind Van Wijngaarden, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Gerhard Guenter Theodor Kramer

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Gerhard Guenter Theodor Kramer, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jochen Maes

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

\_\_\_\_\_  
Carl Jeremy Nuzman

Date:\_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Carl Jeremy Nuzman, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

Carl Robert Posthuma  
Carl Robert Posthuma

Date: 9/29/08

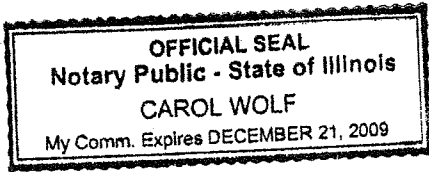
United States of America )

State of Illinois ) ss.:

County of DuPage )

On this 29 day of Sept., 2008, before me personally came Carl Robert Posthuma, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Carol Wolf  
Notary Public





\_\_\_\_\_  
Date

\_\_\_\_\_  
Danny Van Bruyssel

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jan V.J. Verlinden

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

\_\_\_\_\_  
Philip Alfred Whiting

Date:\_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Philip Alfred Whiting, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Date

\_\_\_\_\_  
Miroslav Zivkovic

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

Ryan, Mason & Lewis, LLP  
90 Forest Avenue  
Locust Valley, New York 11560  
(516) 759-2722

ASSIGNMENT AND AGREEMENT

For value received, we, Alexei E. Ashikhmin, of Morristown in the County of Morris and State of New Jersey, Adriaan J. De Lind Van Wijngaarden, of New Providence in the County of Union and State of New Jersey, Gerhard Guenter Theodor Kramer, of Chatham in the County of Morris and State of New Jersey, Jochen Maes of Veerle, Belgium, Carl Jeremy Nuzman of Union in the county of Union and State of New Jersey, Carl Robert Posthuma, of Wheaton in the County of DuPage and State of Illinois, Danny Van Bruyssel of Temse, Belgium, Jan V.J. Verlinden of Deurne, Belgium, Philip Alfred Whiting, of New Providence in the County of Union and State of New Jersey, and Miroslav Zivkovic of The Netherlands, 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 **OPTIMIZING PRECODER SETTINGS USING AVERAGE SINR REPORTS FOR GROUPS OF TONES** described in application Serial No. 12/197,409 for Letters Patent of the United States, filed August 25, 2008, 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. in 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 protection.

\_\_\_\_\_  
Alexei E. Ashikhmin

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Alexei E. Ashikhmin, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Adriaan J. De Lind Van Wijngaarden

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Adriaan J. De Lind Van Wijngaarden, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Gerhard Guenter Theodor Kramer

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Gerhard Guenter Theodor Kramer, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public



\_\_\_\_\_  
Date

\_\_\_\_\_  
Jochen Maes

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

\_\_\_\_\_  
Carl Jeremy Nuzman

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Carl Jeremy Nuzman, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Carl Robert Posthuma

Date: \_\_\_\_\_

United States of America )

State of Illinois ) ss.:

County of DuPage )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Carl Robert Posthuma, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Date

\_\_\_\_\_  
Danny Van Bruyssel

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature



\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

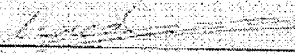
\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

28/08/2008  
Date


  
Jan Verlipden  
S.  2/08/2008

26/08/2008  
Date

  
Witness #1 Signature

JOCHEM MAES  
Witness #1 Print Name

22/08/2008  
Date

  
Witness #2 Signature

DANNY VAN BROYSSEL  
Witness #2 Print Name

\_\_\_\_\_  
Philip Alfred Whiting

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Philip Alfred Whiting, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Date

\_\_\_\_\_  
Miroslav Zivkovic

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

Ryan, Mason & Lewis, LLP  
90 Forest Avenue  
Locust Valley, New York 11560  
(516) 759-2722

ASSIGNMENT AND AGREEMENT

For value received, we, Alexei E. Ashikhmin, of Morristown in the County of Morris and State of New Jersey, Adriaan J. De Lind Van Wijngaarden, of New Providence in the County of Union and State of New Jersey, Gerhard Guenter Theodor Kramer, of Chatham in the County of Morris and State of New Jersey, Jochen Maes of Veerle, Belgium, Carl Jeremy Nuzman of Union in the county of Union and State of New Jersey, Carl Robert Posthuma, of Wheaton in the County of DuPage and State of Illinois, Danny Van Bruyssel of Temse, Belgium, Jan V.J. Verlinden of Deurne, Belgium, Philip Alfred Whiting, of New Providence in the County of Union and State of New Jersey, and Miroslav Zivkovic of The Netherlands, 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 **OPTIMIZING PRECODER SETTINGS USING AVERAGE SINR REPORTS FOR GROUPS OF TONES** described in application Serial No. 12/197,409 for Letters Patent of the United States, filed August 25, 2008, 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. in 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 protection.



\_\_\_\_\_  
Alexei E. Ashikhmin

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Alexei E. Ashikhmin, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Adriaan J. De Lind Van Wijngaarden

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Adriaan J. De Lind Van Wijngaarden, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Gerhard Guenter Theodor Kramer

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Gerhard Guenter Theodor Kramer, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jochen Maes

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

\_\_\_\_\_  
Carl Jeremy Nuzman

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Carl Jeremy Nuzman, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Carl Robert Posthuma

Date: \_\_\_\_\_

United States of America )

State of Illinois ) ss.:

County of DuPage )

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Carl Robert Posthuma, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Date

\_\_\_\_\_  
Danny Van Bruyssel

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jan V.J. Verlinden

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #1 Signature

\_\_\_\_\_  
Witness #1 Print Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness #2 Signature

\_\_\_\_\_  
Witness #2 Print Name



\_\_\_\_\_  
Philip Alfred Whiting

Date: \_\_\_\_\_

United States of America )

State of New Jersey ) ss.:

County of Union )

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came Philip Alfred Whiting, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

01-SEPTEMBER-2008

Date

Miroslav Zivkovic

Miroslav Zivkovic

01-SEP-2008

Date

Miodrag

Witness #1 Signature

DJOURICA, Miodrag

Witness #1 Print Name

01-SEP-2008

Date

Ivan Markoski

Witness #2 Signature

IVAN MARKOSKI

Witness #2 Print Name

Ryan, Mason & Lewis, LLP  
90 Forest Avenue  
Locust Valley, New York 11560  
(516) 759-2722